

ADDENDUM No. 3 TO PROCUREMENT CONTRACT DOCUMENTS
BRIDGEPORT PUBLIC UTILITY DISTRICT (BPUD)

Arsenic Removal Project – Arsenic Removal System Procurement Contract

May 17, 2017

*THE BIDDER SHALL EXECUTE THE CERTIFICATION WITHIN THE BID FORM
ACKNOWLEDGING RECEIPT OF THIS ADDENDUM.*

* * * * *

ADVERTISEMENT FOR BIDS

1. The Bid Opening date shall be changed to Wednesday May 31, 2017.

DRAWINGS

1. The drawings have been revised. The attached document lists changes by sheet number.
2. The electrical drawings have been revised significantly to change the control system to XiO cloud based SCADA. Contacts at XiO that are available for discussion of this project are:
 - a. Paul Sagues at 415-446-9002
 - b. Mark Puckett 415-299-9095
 - c. Kevin Liscovitz 815-245-1363
3. Sheet E4 note 1 states Yaskawa VFD. An “or equal” will be considered.
4. The General Contractor is responsible for all piping shown on Sheet C7.

SPECIFICATION SECTION 13530 – PACKAGE ARSENIC REMOVAL SYSTEM

1. Revise Section 1.5 Submittals as such:

In subsections B, C, D, and G, replace the word “Contractor” with “ARS Supplier”.

2. Delete Section 1.9.B Installer in its entirety.

3. Revise 2.1.B to read as such:

PART 2 - PRODUCTS

2.1 ARSENIC REMOVAL SYSTEM (ARS)

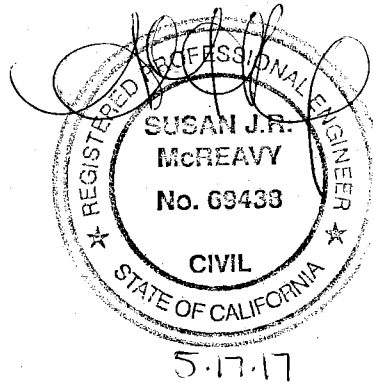
B. Manufacturers:

1. Isolux – MELsorb by MEL Chemicals, Inc.
 - a. 500 Point Breeze Road, Flemington, NJ 08822.
 - b. 1 (908) 782-1280
 - c. www.zrpure.com
2. Evoqua Water Technologies by Siemens Corp.
 - a. 1 (719) 622-5320
 - b. www.siemens.com/water
3. AdEdge Water Technologies, LLC
 - a. (866) 823-3343
 - b. www.adedgetech.com
4. [Layne Christensen Company](#)
 - a. [1138 N Alma School Rd, Ste 207](#)
 - b. [\(602\) 345-8600](#)
 - c. www.layne.com
- 4.5. Engineer Approved Equal

CLARIFICATIONS

1. A hard copy of the bid must be received in the BPUD office by the bid deadline. Please double check delivery schedules as overnight courier service may not be possible. The bidder does not need to be present at the opening.
2. The division of responsibilities between the Arsenic Removal System (ARS) Supplier and the General Contractor are outlined in Specification 13530 (see specifically section 1.1.C, 1.2.B, and Part 3). Generally, the ARS Supplier will be responsible for assembly of the treatment system and the General Contractor will be responsible for installation of the assembled system to connect to the building piping. The General Contractor’s responsibility with respect to the pilot study is limited to allowing space for the pilot study to occur undisturbed.
3. The bidder may propose any configuration that will fit within the proposed building space as shown on the drawings. The size and number of vessels shown on the drawings is not a requirement.

4. The General Contractor will be required to insure the Arsenic Removal System when it is delivered to site until it is accepted by the Owner.
5. Further information regarding answers to submitted questions and specifically the pilot study requirements is forthcoming.
6. We will endeavor to answer all questions that are submitted, even after the date specified in the previous addendum.



END OF ADDENDUM No. 3

Prepared By:
R.O. ANDERSON ENGINEERING, INC.
1603 Esmeralda Avenue
Minden, NV 89423

Bridgeport Public Utility District – Arsenic Removal Project

SHEET C1

1. New Sheet *A1.1 Well House* added to Project Index.
2. Date changed to 5/12/2017 throughout drawing set.

SHEET C2

1. New General Note #24: All concrete exposed to freeze/thaw environments shall be 4,000 psi 28-day compressive strength, with 5% \pm 1% air entrainment, see concrete specification 03300.
2. New General Note #25: Traffic and street parking on Twin Lakes Road shall not be impacted by construction in the right-of-way during the week of the Fourth of July.

SHEET C4

1. Note pointing to existing well house now reads: "Remove Ex Well House, Ref Sheet C7 for Piping Modifications".

SHEET C5

1. Correction to Landscape Notes #1, now reads: "Top Dress Landscape Area **and Disturbed Slopes** with 3'-8" Native Cobble". This was specifically changed to address the area to the north of the new treatment building.

SHEET C6

1. Addition to the 21" Storm Drain/Driveway Crossing Detail: Addition of Slurry Backfill below the Concrete Cap.
2. Addition to the 21" Storm Drain/Driveway Crossing Detail: Addition of reinforcing steel.
3. Addition of clean-out to the 10" PVC Storm Drain line.
4. Deletion of drainage swale around the Twin Lakes Well House in favor of Positive Surface Drainage as sheet flow @ S=1%.
5. Lowering of the Finished Grade surface on the northern side of the building affecting the foundation depth on that wall and on the north end of the west wall.

Bridgeport Public Utility District – Arsenic Removal Project

6. Correction to the Finished Floor Elevation of the New Water Treatment Building, now reads 6472.70.
7. Correction to the Edge of Pavement elevation at the north-east corner of the new treatment building, now reads 72.5.

SHEET C7

1. Addition of note pointing to the spacing in front of the new electrical panel that reads: “30” Minimum clear space is required in front of electrical panels”.
2. Addition of illustration of the piping from the bag filters to the new vessels to match the Section D-D Detail.
3. Previous connection from the Twin Lakes Well existing underground raw water line to new treatment building will now connect inside the new Twin Lakes Well house to the rotated pump discharge.

SHEET PP1

1. Extend AC Pavement Patch areas to large square at Kingsley Street and full width of Twin Lakes Road in front of site.

SHEET A1

1. Addition of leader/text in front of electrical panel that reads “30” Minimum Clear Space is Required in Front of Electrical Panels.”

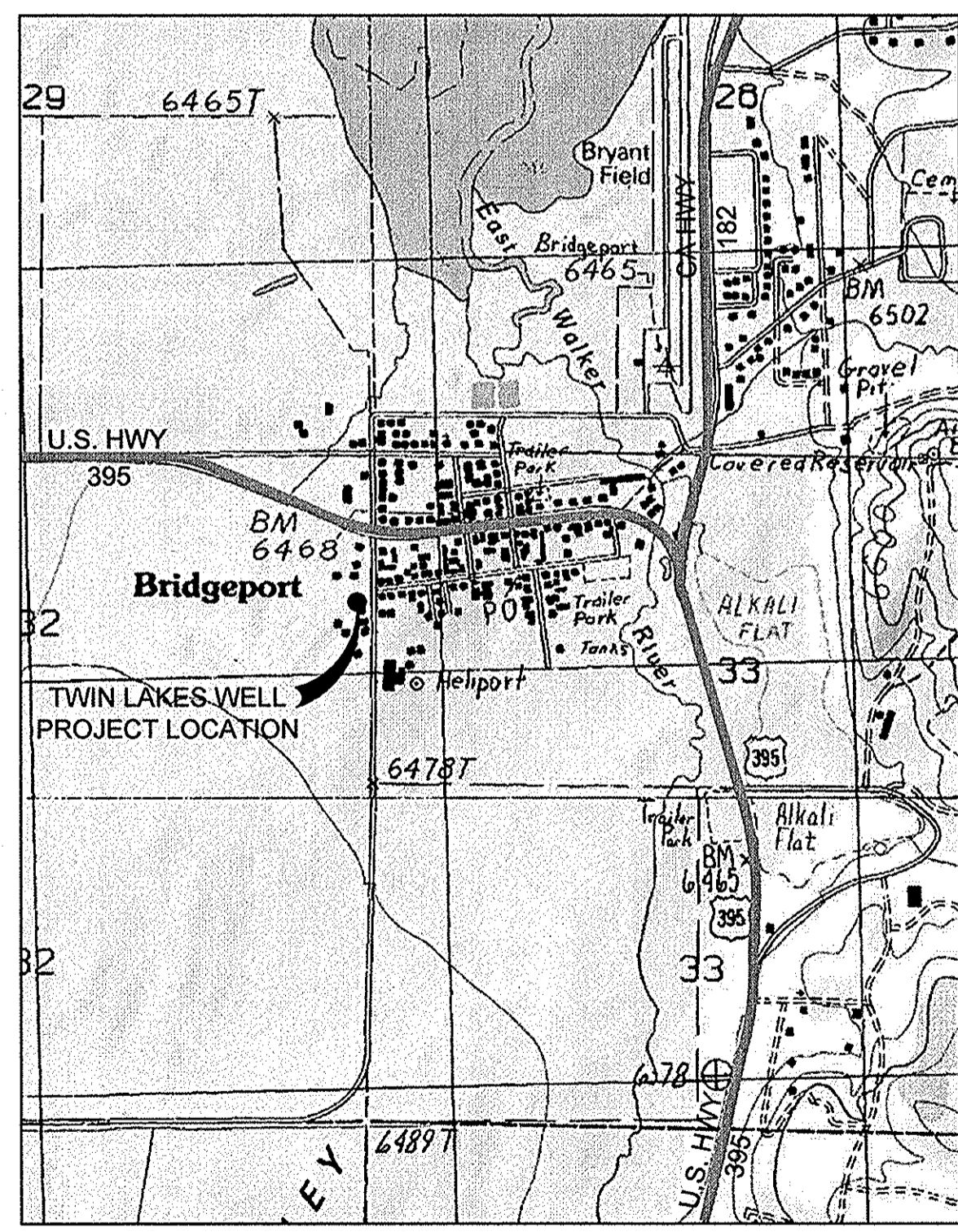
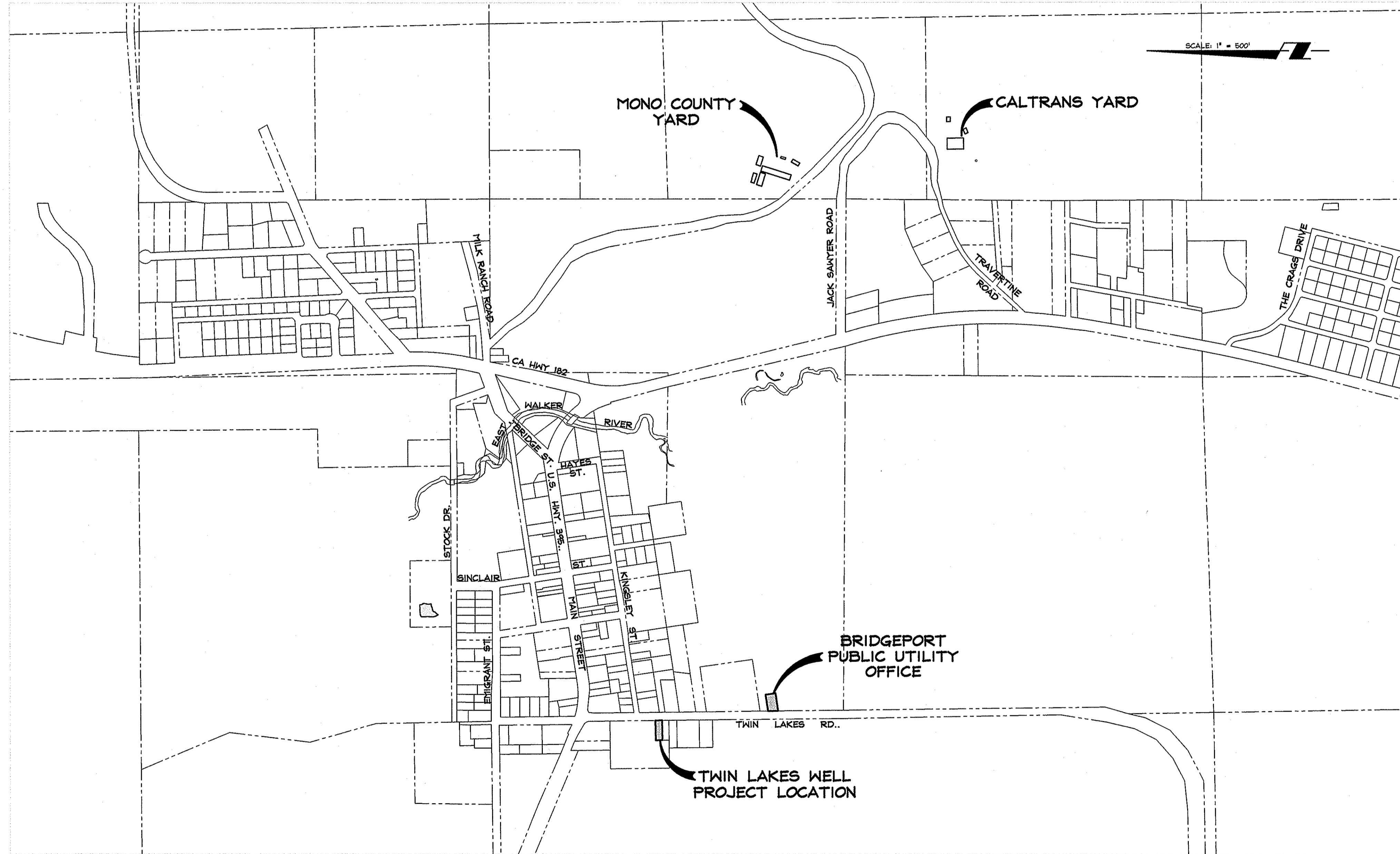
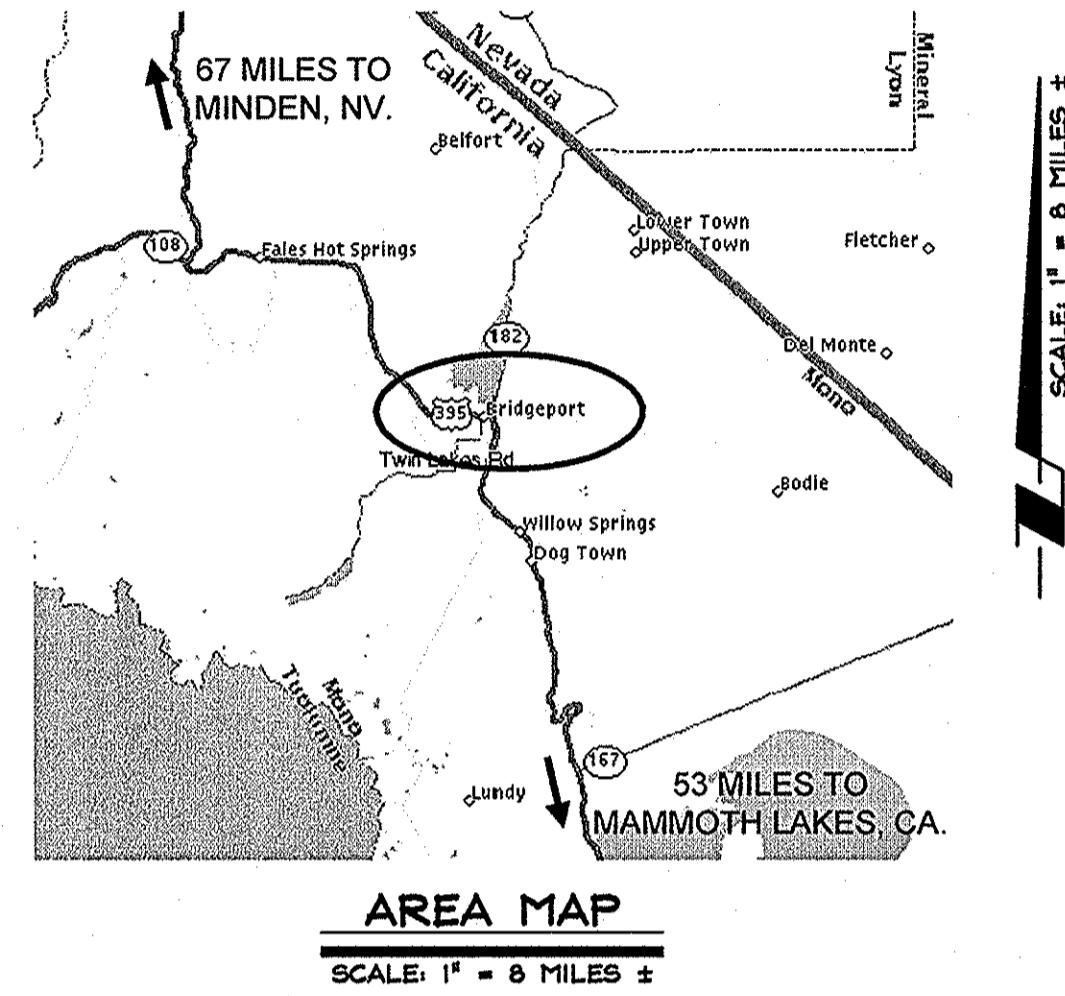
SHEET A1.1

1. Entire new sheet requiring changes to the well discharge and a new building.

SHEETS E1 THROUGH E7

1. Significant revisions.

ARSENIC REMOVAL IMPROVEMENT PLANS FOR BRIDGEPORT PUBLIC UTILITY DISTRICT BRIDGEPORT, CALIFORNIA



PROJECT SUMMARY

TITLE: ARSENIC REMOVAL
OWNER: BRIDGEPORT PUBLIC UTILITY DISTRICT
 c/o RENN NOLAN, OFFICE MANAGER
 P.O. BOX 473
 BRIDGEPORT, CA 95517
 (760) 932-7251
CIVIL ENGINEER: R.O. ANDERSON ENGINEERING, INC.
 SUE MCREAVY, P.E.
 1608 ESMERALDA AVE.
 MINDEN, NV 89423
 (775) 782-2322

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 - E7 PLC SCHEMATIC

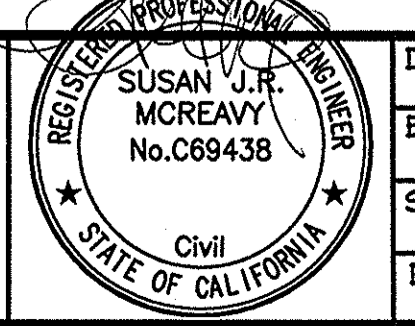
NO.	DATE	REVISION	BLOCK	BY

R/O Anderson

1608 ESMERALDA AVENUE / POST OFFICE BOX 2229
MINDEN, NEVADA 89423
PHONE: (775) 782-2322 / FAX: (775) 782-7084
WEB SITE: WWW.ROANDERSON.COM

**ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT**

TITLE SHEET



DRAWN: MCR/WAN	JOB: 0883-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: AS NOTED	SHEET: C1
DATE: 5/12/17	OF: 31 SHEETS

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE STANDARDS FOR PUBLIC WORKS CONSTRUCTION BY MONO COUNTY. THE OWNER SHALL OBTAIN PERMITS FROM MONO COUNTY PUBLIC WORKS AND BUILDING DEPARTMENTS PRIOR TO THE START OF CONSTRUCTION.
- ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE PUBLIC RIGHTS-OF-WAY SHALL CONFORM TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. NO STREET CLOSURES WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF A TRAFFIC CONTROL PLAN BY THE MONO COUNTY DEPARTMENT OF PUBLIC WORKS.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (1-800-227-2600) FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CALL MONO COUNTY PUBLIC WORKS, (760) 932-5252, AND BUILDING DEPT., (760) 932-5231 AND BRIDGEPORT PUD FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL CALL TWENTY-FOUR (24) HOURS PRIOR TO REQUIRED INSPECTIONS AND TESTING.
- THE APPROVED PLANS, PERMITS AND INSPECTION RECORDS MUST BE ON THE JOB SITE AT ALL TIMES.
- MODIFICATIONS TO THE APPROVED PLANS REQUIRE REVIEW AND APPROVAL BY THE OWNER AND ENGINEER. WORK PERFORMED WITHOUT WRITTEN APPROVAL WILL REQUIRE REMOVAL AT THE CONTRACTORS EXPENSE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO POTHOLE EXISTING WATERLINES AND UTILITIES SURROUNDING THE AREA TO DETERMINE THE EXACT LOCATION AND DEPTH. POTHOLING SHALL OCCUR A MINIMUM OF 7 DAYS PRIOR TO THE COMMENCEMENT OF WORK IN ANY AREA.
- ALL EXISTING VALVES AND SALVAGEABLE EQUIPMENT REMOVED DURING THE PROJECT SHALL BE RETURNED TO BRIDGEPORT PUD.
- RESTRAINED FITTINGS: ALL FITTINGS ON HYDRANT ASSEMBLIES, BENDS, TEES, AND VALVES SHALL BE RESTRAINED. RESTRAINT SHALL BE PROVIDED BY ROMAC GRIPRING, EBAA IRON MEGAFRANGE, OR EQUAL.
- FLANGE COUPLING ADAPTERS SHALL BE ROMAC 501 COUPLING WITH RESTRAINT (RFCA), OR EBAA IRON MEGALUG, OR EQUAL. RESTRAINTS ON PVC PIPE SHALL BE SPECIFIED FOR USE ON PVC PIPE.
- ALL DUCTILE IRON PIPE ON THIS PROJECT SHALL BE FULLY RESTRAINED. ALL BURIED DUCTILE IRON PIPE OR EPOXY COATED PIPE AND FITTINGS SHALL BE DOUBLE-WRAPPED IN PLASTIC PER ANWA C108.
- ALL WATER MAINS SHALL BE CLASS 150 OR 200 C900 PVC, AS SPECIFIED ON THE PLANS AND AS APPROVED BY BRIDGEPORT PUD. ALL WATER SERVICES 2" OR LESS SHALL BE CTS PE TUBING. SERVICES 4" OR GREATER SHALL BE CLASS 150, C900 PVC OR AS SPECIFIED ON THE PLANS.
- ALL WATER MAINS SHALL BE DISINFECTED PER ANWA C651 & C653 AND BACTERIOLOGICAL ANALYSIS MEETING PRIMARY STANDARDS FOR COLIFORM BACTERIA OBTAINED AND REPORTED TO BRIDGEPORT PUD.
- ALL WATER MAINS SHALL BE PRESSURE TESTED PER ANWA C605.
- VARIATION OF ALL LOCATOR WIRE AT GATE VALVES, AIR RELEASE VALVES, AND LOCATE STATIONS SHALL BE PERFORMED BY THE INSPECTOR PRIOR TO PROJECT COMPLETION.
- ALL NONPOTABLE INFLUENT PIPE SHALL HAVE A BLUE STRIPE MARKING ON THE PIPE WITH PURPLE MARKING TAPE PLACED AT TWO (2) LOCATIONS, SECURED TO THE TOP OF THE PIPE AND PLACED DURING BACKFILL 1' ABOVE PIPE. MARKING TAPE SHALL INCLUDE THE FOLLOWING TEXT: "CAUTION BURIED NON-POTABLE RAW WATERLINE BELOW".
- COAT ALL EXPOSED BOLTS, WASHERS, NUTS, TIE RODS, AND ALL OTHER METAL PARTS INSTALLED UNDERGROUND WITH TWO (2) COATS OF APPROVED MASTIC PRIOR TO WRAPPING WITH POLYETHYLENE PLASTIC.
- ALL PIPE FITTINGS AND VALVES OF A WATER DISTRIBUTION SYSTEM AND ANY FIRE HYDRANTS CONNECTED TO A PUBLIC WATER SYSTEM MUST COMPLY WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION "GREEN BOOK" AND THE ANWA STANDARDS.
- UNLESS OTHERWISE SPECIFIED, ALL SANITARY SEWER LINES SHALL BE PVC SDR 35.
- EVERY EFFORT IS TO BE MADE TO KEEP WATER 18" ABOVE SEWER MAINS AND WATER 12" ABOVE SEWER LATERALS. OTHERWISE, THE FOLLOWING SPECIAL CONSTRUCTION METHODS APPLY:
 - EFFORT SHALL BE MADE TO KEEP PIPELINE JOINTS EQUAL DISTANCE FROM THE POINT OF CROSSING.
 - PIPELINES MUST BE 6" APART. IF 6" IS NOT ATTAINABLE RELOCATE WATER MAIN PER PROJECT DETAILS.
 - WATER LINE MUST BE INSPECTED TO INSURE SUFFICIENT RESTRAINTS ARE IN PLACE.
 - SEWER MUST HAVE A SLEEVE OR BE ENCASED IN 4" OF CONCRETE SLURRY FOR 20' CENTERED ON POINT THE POINT OF CROSSING.
- IF ARCHAEOLOGICAL FEATURES OR MATERIALS ARE UNEARTHED DURING ANY PHASE OF PROJECT ACTIVITIES, ALL WORK IN THE IMMEDIATE VICINITY OF THE FIND SHALL HALT UNTIL BPUD HAS CONTACTED THE STATE WATERBOARDS ENVIRONMENTAL REVIEW UNIT (ERU) AND THE SIGNIFICANCE OF THE RESOURCE HAS BEEN EVALUATED. ANY MITIGATION MEASURES THAT MAY BE DEEMED NECESSARY MUST HAVE THE APPROVAL OF THE ERU, AND SHALL BE IMPLEMENTED, PURSUANT TO THE SECRETARY OF THE INTERIOR'S STANDARDS AND GUIDELINES FOR ARCHAEOLOGY AND HISTORIC PRESERVATION, 46 CFR 44716, BY A "QUALIFIED" ARCHAEOLOGIST REPRESENTING BPUD PRIOR TO THE RESUMPTION OF CONSTRUCTION ACTIVITIES.
- IF HUMAN REMAINS ARE EXPOSED BY ACTIVITY RELATED TO THE PROJECT, BPUD SHALL COMPLY WITH CALIFORNIA STATE HEALTH AND SAFETY CODE, SECTION 7050.5, WHICH STATES THAT NO FURTHER DISTURBANCE SHALL OCCUR UNTIL THE COUNTY CORONER HAS MADE THE NECESSARY FINDINGS AS TO ORIGIN AND DISPOSITION PURSUANT TO CALIFORNIA PUBLIC RESOURCES CODE, SECTION 5097.98. BPUD WILL PROVIDE THE OPPORTUNITY FOR (A) NATIVE AMERICAN MONITOR (S) TO PARTICIPATE IN THE IDENTIFICATION, EVALUATION, AND MITIGATION OF EFFECTS UPON ANY NATIVE AMERICAN HUMAN REMAINS OR CULTURAL RESOURCES INADVERTENTLY EXPOSED DURING THE PROPOSED UNDERTAKING. CONSULTATION WITH PERSONNEL DESIGNATED BY THE NATIVE AMERICAN HERITAGE COMMISSION WOULD BE ACCEPTABLE. SHOULD TRIBAL REPRESENTATIVES AGREE TO CONSULT ON ANY SUCH DISCOVERIES, COSTS INCURRED WILL BE THE RESPONSIBILITY OF BPUD.
- ALL SANITARY SEWER LATERALS SHALL BE PRESSURE TESTED WITH AIR AT 5 PSI IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, "GREEN BOOK".
- ALL CONCRETE EXPOSED TO FREEZE/THAW ENVIRONMENT SHALL BE 4,000 PSI 28 DAY COMPRESSIVE STRENGTH, WITH 5%, ±1.0% AIR ENTRAINMENT, SEE CONCRETE SPECIFICATIONS 03300.
- TRAFFIC AND STREET PARKING ON TWIN LAKES ROAD SHALL NOT BE IMPACTED BY CONSTRUCTION IN THE RIGHT-OF-WAY DURING THE WEEK OF FOURTH OF JULY.

LANDSCAPE AND IRRIGATION NOTES

GENERAL LANDSCAPE NOTES:

- ALL LANDSCAPE WORK SHALL BE PERFORMED BY A CALIFORNIA LICENSED LANDSCAPE CONTRACTOR.
- VERIFY LOCATIONS OF PERTINENT SITE EXISTING OR PROPOSED IMPROVEMENTS. IF ANY PARTS OF THIS PLAN CAN NOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTIONS PRIOR TO COMMENCING WORK.
- REFER TO THE IMPROVEMENT PLANS FOR LOCATIONS & FINAL GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS, CONTACT THE LANDSCAPE ARCHITECT FOR DIRECTIONS ON HOW TO PROCEED.
- PRIOR TO COMMENCING CONSTRUCTION, CONTACT THE UNDERGROUND UTILITY LOCATION SERVICES OR UTILITY LOCATION & IDENTIFICATION 800-227-2600.
- VERIFY PLANT COUNTS. QUANTITIES ARE PROVIDED AS OWNER INFORMATION ONLY. IF QUALITIES ON PLANTING LIST DIFFER FROM GRAPHIC INDICATIONS THEN GRAPHICS SHALL PREVAIL.
- PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES WITH CARE & IF NECESSARY BY HAND. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THIS WORK & DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING WORK DURING CONSTRUCTION & REPAIR ALL DAMAGE TO THE SITE AT NO COST TO THE OWNER.
- ALL POST CARE & REQUIRED MAINTENANCE SHALL BEGIN IMMEDIATELY UPON THE COMPLETION OF THE WORK UNTIL THE FINAL PROJECT ACCEPTANCE IS COMPLETE.
- ALL INSTALLATION MANUALS, OPERATION SHEETS, & AS-BUILT DRAWINGS SHALL BE SUBMITTED UPON FINAL INSPECTION.
- ALL PLANT MATERIALS SHALL BE FIELD LOCATED TO AVOID ALL FINAL CIVIL IMPROVEMENTS, & TO AVOID STREET LIGHT ILLUMINATION INTERFERENCE.
- ALL TREES SHALL BE FIELD LOCATED WITH A MIN. 10' OFFSET FROM ALL UNDERGROUND & ABOVE GROUND UTILITY LINES.
- LANDSCAPE ARCHITECT TO REVIEW PLANT MATERIALS AT SOURCE OR BY PHOTOGRAPH PRIOR TO DIGGING OR SHIPPING OF PLANT MATERIALS.
- THE CONTRACTOR SHALL PROVIDE ALL PLANT MATERIALS IN SUFFICIENT QUANTITIES & SIZES TO COMPLETE ALL SHOWN PLANTINGS.
- ALL PLANT MATERIAL SHALL CONFORM TO CURRENT INDUSTRY STANDARDS ADOPTED BY THE AMERICAN STANDARDS FOR NURSERY STOCK AS WELL AS CRITERIA ADOPTED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 - ~ ALL PLANT MATERIALS SHALL BE HEALTHY, VIGOROUS, WELL ROOTED, & ESTABLISHED IN THE APPROPRIATE CONTAINER.
 - ~ ALL PLANT MATERIALS SHALL HAVE AN APPROPRIATELY SIZED ESTABLISHED ROOT BALL & BE FREE OF EXCESSIVE ROOT GROWTH.
 - ~ ALL PLANT MATERIALS SHALL BE FREE OF LARGE WOUNDS (LARGER THAN 1"), INSECTS, DISEASE, WINDBURN, RODENT, WEED, OR MECHANICAL DAMAGE.
 - ~ ALL PLANT MATERIALS SHALL CONTAIN MATERIALS APPROPRIATE LEADERS, COLOR, BUDS, FOLIAGE, STRUCTURE, & TAPER.
- ALL PLANT MATERIALS SHALL BE FREE OF ANY PLASTIC OR METAL ROOT BALL CONTAINERS. ALL FABRIC STYLE POTS SHALL HAVE SIDES REMOVED BEFORE PLANTING. ALL CONTAINER GROWN PLANT MATERIAL SHALL BE INSPECTED FOR, & REJECTED IF, ROOT BOUND.
- ALIGN & EQUALLY SPACE IN ALL DIRECTIONS PLANT MATERIALS AS DESIGNATED PER THESE NOTES & DRAWINGS.
- ALL PLANT MATERIALS SHALL MAINTAIN THE SAME RELATION TO FINISHED GRADE WHEN PLANTED AS THEIR ORIGINAL GRADE.
- PRUNE NEWLY PLANTED PLANT MATERIALS ONLY UPON APPROVAL BY THE LANDSCAPE ARCHITECT.
- SOILS SHALL BE TESTED FOR CORRECT PH & FERTILITY, & SHALL BE ADJUSTED WITH LIME, SULFUR OR FERTILIZER TO CORRECT ANY IMBALANCES.
- APPLY PROPERLY LABELED PRE-EMERGENT HERBICIDE IN PLANTING AREA & WET ACCORDING TO THE MANUFACTURERS DIRECTIONS PRIOR TO APPLYING MULCH OR ROCK.
- ALL PLANTER AREAS NOT TOP DRESSED WITH MULCH SHALL BE TOP DRESSED WITH 3"-8" NATIVE COBBLE 6" DEEP MIN.
- FINISH GRADE IN PLANTED AREAS (COBBLE LAYER) SHALL BE 1 1/2 INCHES BELOW ADJACENT PAVING OR HEADER.
- ALL SETTLING BELOW GRADE SHALL BE FILLED WITH MOIST BACKFILL TO THE TOP OF THE SOIL BALL.
- CARE SHALL BE TAKEN TO REDUCE ANY SOIL COMPACTION TO PLANTED AREAS. IF SOIL COMPACTION OCCURS LOOSEN AS NECESSARY.

GENERAL IRRIGATION CONSTRUCTION INFORMATION:

- IRRIGATION DESIGN TO BE PROVIDED BY CONTRACTOR AND SHALL PROVIDE SUFFICIENT IRRIGATION WATER TO SUPPORT THE PROPOSED LANDSCAPE IMPROVEMENTS PERPETUALLY.
- ALL IRRIGATION COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S & LOCAL GOVERNMENT REQUIREMENTS.
- ALL IRRIGATION COMPONENTS SHALL BE KEPT TO THE SIDE OF ALL PLANTING MATERIALS.
- ALL IRRIGATION COMPONENTS SHALL BE NEW & HAVE NO DEFECTS.
- COORDINATE ALL SLEEVE INSTALLATION WITH THE PAVING CONTRACTOR.
- ALL SOIL COMPACTION FOR BACKFILL SHALL MATCH ADJACENT SOIL COMPACTION DENSITY.
- A COMPLETE SYSTEM FLUSHING, AT 15 TIMES THE STATIC PRESSURE FOR 2 CONTINUOUS HOURS, & INITIAL SYSTEM TESTING SHALL BE CONDUCTED BEFORE BACKFILLING. ALL LEAKS & SYSTEM MALFUNCTIONS SHALL BE REPAIRED & THE SYSTEM SHALL BE RETESTED UNTIL A SATISFACTORY RESULT IS PRODUCED.

SCHEDULE OF WORK

- THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF WORK TO THE ENGINEER FOR APPROVAL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH THE APPROVED SCHEDULE.

SURVEY INFORMATION

BASIS OF BEARING

- N 00°27'49" E - THE WEST LINE OF SECTION 33, T. 5 N., R. 26 E., N.D.M. SEE SITE PLAN FOR REFERENCE LINES.

DATUM

- IDENTICAL TO THE AERIAL SURVEY PERFORMED BY TRI-STATE AERIAL SURVEYING, LTD. FOR BRIDGEPORT PUBLIC UTILITY DISTRICT, DATED SEPTEMBER 20, 2001. SEE GRADING PLAN FOR SITE BENCH MARKS.

DESIGN CRITERIA

- GROUND SNOW LOAD IS 65 PSF PER MONO COUNTY BUILDING DEPARTMENT.
- FLAT ROOF SNOW LOAD IS 50 PSF PER MONO COUNTY BUILDING DEPARTMENT
- DESIGN WIND SPEED IS 40 MPH, EXPOSURE C
- SEISMIC DESIGN CATEGORY D
- FROST DEPTH = 18" PER MONO COUNTY BUILDING DEPARTMENT
- CLIMATE ZONE: 16

MONO COUNTY GRADING AND EARTHWORK SPECIFICATIONS

- ALL WORK SHALL CONFORM TO POLICIES AND STANDARDS IN THE MONO COUNTY GENERAL PLAN AND THE MONO COUNTY CODE.
- SITE-DISTURBING CONSTRUCTION ACTIVITIES MUST BE RESTRICTED TO THE BOUNDARIES OF THIS SITE. AREAS TO BE GRADED SHALL BE CLEARED OF BRUSH, VEGETATION, LARGE BOULDERS AND OTHER DELETERIOUS MATERIALS. CLEARED MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR TO A DESIGNATED DUMP SITE OR OTHER LOCATION APPROVED BY THE MONO COUNTY DEPARTMENT OF PUBLIC WORKS.
- TOPSOIL SHALL BE STOCKPILED WITHIN THE CONSTRUCTION PERIMETER AREAS, AS APPROVED BY THE OWNER, FOR USE ON SLOPES AND DISTURBED AREAS. ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH MONO COUNTY ORDINANCES AND STANDARDS.
- ANY EVIDENCE OF THE HISTORICAL PRESENCE OF MAN FOUND DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER, ENGINEER AND MONO COUNTY PLANNING DEPARTMENT AND CONSTRUCTION SHALL STOP UNTIL FURTHER NOTICE.
- CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN ACCORDANCE WITH THE MONO COUNTY ORDINANCES AND STANDARDS, AND IN CONFORMANCE WITH THE CONSTRUCTION SAFETY ORDERS OF THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL SAFETY. IN ADDITION, CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GENERAL OSHA STANDARDS FOR THE PROTECTION OF WORKMEN AND THE GENERAL PUBLIC. OSHA PERMITS ARE REQUIRED FOR ANY EXCAVATED TRENCHES OVER 4 FEET.
- CONTRACTOR SHALL TAKE ALL SUCH MEASURES NECESSARY TO CONTROL DUST IN CONSTRUCTION AREAS OR ON ACCESS ROADS. SUFFICIENT WATER TRUCKS SHALL BE MADE AVAILABLE FOR DUST CONTROL PURPOSES. ALL EXPOSED SOIL SURFACES SHALL BE MOISTENED AS REQUIRED TO AVOID NUISANCE CONDITIONS AND INCONVENIENCES FOR LOCAL RESIDENTS AND TRAVELERS OF NEARBY ROADWAYS.
- AGGREGATE BASE SHALL BE CLASS 2, 3/4" MAXIMUM GRADING, AND SHALL CONFORM TO THE PROVISIONS OF SECTION 26, "AGGREGATE BASES," OF 1992 CALTRANS STANDARD SPECIFICATIONS AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557-92 (OR MOST RECENT EDITION).
- SHOULD ANY COMPACTION TEST FAIL TO MEET THE MINIMUM REQUIRED DENSITY AS SPECIFIED ON THE PLANS OR IN THE GEOTECHNICAL REPORT, THE DEFICIENCY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE SOILS ENGINEER. THE EXPENSE OF RETESTING SUCH AN AREA SHALL BE BORNE BY THE CONTRACTOR, AT NO COST TO THE OWNER.
- THE LIMITS OF CONSTRUCTION SHALL BE CAREFULLY AND FULLY FLAGGED PRIOR TO THE START OF CONSTRUCTION, AND POSTED SO AS TO PREVENT DAMAGE TO VEGETATION AND DISTURBANCE TO SOILS OUTSIDE OF THE AREA OF CONSTRUCTION.
- CONSTRUCTION AND DELIVERY OF MATERIALS SHALL BE LIMITED TO 7:00 AM TO 6:00 PM, MONDAY THROUGH FRIDAY (NO OPERATIONS ON SATURDAY, SUNDAY OR CALIFORNIA LEGAL HOLIDAYS). NOISE LEVELS OF CONSTRUCTION EQUIPMENT WILL BE KEPT TO A MINIMUM, USING SOUND MUFFLING DEVICES IN ACCORDANCE WITH PREVAILING REQUIREMENTS. SITE PREPARATION AND CONSTRUCTION SHALL BE CONDUCTED SO AS TO MINIMIZE EXCESSIVE NOISE, DUST, DEBRIS AND DISTURBANCE TO NEIGHBORS WITHIN 500'.
- RESTRICTIONS ON THE MOVEMENTS OF HEAVY EQUIPMENT SHALL BE ACCOMPLISHED THROUGH THE ESTABLISHMENT OF DESIGNATED TRAVEL ROUTES, AND BARRIERS WHICH PREVENT CUTTING, SCARRING AND ROOT DAMAGE TO TREES AND SHRUBS NOT BEING REMOVED. IF DAMAGE IS DONE, REVEGETATION SHALL OCCUR AS SOON AS FEASIBLE.
- ALL EXPOSED SOIL SURFACES SHALL BE STABILIZED WITH ADEQUATE EROSION CONTROL SYSTEMS PRIOR TO THE ONSET OF WINTER WEATHER.
- NO MATERIALS, DEBRIS OR OTHER ARTICLES SHALL BE STORED OR PLACED WITHIN ANY ROADWAY AREA PRIOR TO CONSTRUCTION.
- CUT AND FILL SLOPES SHALL NOT EXCEED A STEEPNESS OF 2:1, UNLESS OTHERWISE NOTED. TO CONTROL EROSION, SLOPES SHALL BE REVEGETATED WITH A NATIVE SEED MIX OR LANDSCAPED WITHIN TWO WEEKS OF ESTABLISHING FINISHED GRADE. BY INDIVIDUAL SECTION STOCKPILED TOPSOIL SHALL BE SPREAD EVENLY OVER SLOPES AND DISTURBED AREAS, THEN SEED SHALL BE BROADCASTED OR HYDROSEEDDED WITH THE FOLLOWING SEED MIXTURE:
 - ANTELOPE BITTER BRUSH (PUSHIA TRIDENTATA) @ 10 lb/Ac
 - LUPIN (LUPINUS ARGENTUS) @ 5 lb/Ac
 - CRESTED WHEAT GRASS (AGROPYRON DESBERTORIUM) @ 20 lb/Ac
 - BIG SAGEBRUSH (ARTEMISIA TRIDENTATA) @ 5 lb/Ac
 - RABBIT BRUSH (CHRYSANTHEMUM NAUSEOSUS) @ 10 lb/Ac
 - NEEDLEGRASS (ACHNATHERUM) @ 20 lb/Ac
- THESE AREAS SHALL THEN BE IMMEDIATELY STABILIZED WITH .75 lb/cy/d STRAW AND FIBER, CRIMPED OR TRACKED IN PLACE. ANY DISTURBANCE OF AREAS NOT INTENDED FOR CONSTRUCTION WILL BE IMMEDIATELY REPAIRED.

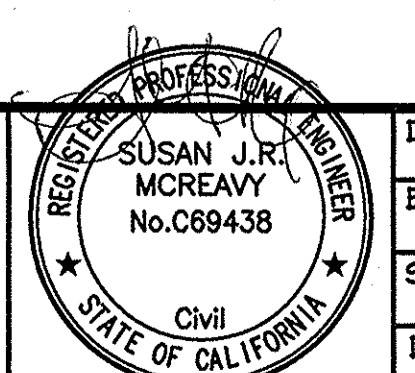
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**ARSENIC REMOVAL
 BRIDGEPORT PUBLIC UTILITY DISTRICT**

GENERAL NOTES



DRAWN: MCR/JWAN	JOB: 0883-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: AS NOTED	SHEET: C2
DATE: 5/12/17	OF: 31 SHEETS

SYMBOLS

EXISTING	NEW	EXISTING	NEW	YIELD SIGN

ABBREVIATIONS

AASHTO..... AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	N..... NORTH
AB..... AGGREGATE BASE	NE..... NORTHEAST
AC..... ASPHALT CONCRETE	NEC..... NATIONAL ELECTRIC CODE
ADA..... AMERICANS WITH DISABILITIES ACT OF 1990	NFIP..... NATIONAL FLOOD INSURANCE PROGRAM
ADT..... AVERAGE DAILY TRAFFIC	NO..... NUMBER
ANSI..... AMERICAN NATIONAL STANDARDS INSTITUTE	NOAA..... NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
APN..... ASSESSOR'S PARCEL NUMBER	NRCS..... NATIONAL RESOURCE CONSERVATION SERVICE
APWA..... AMERICAN PUBLIC WORKS ASSOCIATION	NTS..... NOT TO SCALE
ARV..... AIR RELEASE VALVE	NA..... NORTHEAST
ASCE..... AMERICAN SOCIETY OF CIVIL ENGINEERS	NAS..... NATIONAL WEATHER SERVICE
ASTM..... AMERICAN SOCIETY OF TESTING AND MATERIALS	OC..... ON CENTER
AT..... AT	OD..... OUTER DIAMETER
AWIS..... AMERICAN WELDING SOCIETY	OSHA..... OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970
AWWA..... AMERICAN WATER WORKS ASSOCIATION	O/H..... OVERHEAD
BC..... BEGIN CURVE	±..... PLUS OR MINUS
BFE..... BASE FLOOD ELEVATION	P..... POWER
BLD..... BUILDING	PC..... POINT OF CURVATURE
B.L.M..... BUREAU OF LAND MANAGEMENT	PD..... PADDLE
BW..... BACK OF WALK	PE..... PROFESSIONAL ENGINEER LICENSED BY THE STATE OF CALIFORNIA
BW..... BARBED WIRE	PED..... PEDESTAL
CAP..... CORRUGATED ALUMINUM PIPE	PK..... PARKING
CAFA..... CORRUGATED ALUMINUM PIPE ARCH	%..... PERCENT
CAG..... CURB AND GUTTER	P/L..... PROPERTY LINE
CB..... CATCH BASIN	PME..... PROBABLE MAXIMUM FLOOD
CC..... CARSON CITY	PNT..... POINT
CF..... CUBIC FOOT	PO..... PUSH ON
CHL..... CHAIN LINK	PSI..... POUNDS PER SQUARE INCH
CL..... CURB INLET (THROUGH)	PT..... POINT OF TANGENCY
CL..... CENTER LINE	P.U.D..... PUBLIC UTILITY DISTRICT
CMP..... CORRUGATED METAL PIPE	PUE..... PUBLIC UTILITY EASEMENT
CO..... CLEAN OUT	PVC..... POLYVINYL CHLORIDE
COMP..... COMPACTION	R..... RADIUS
CON..... CONIFEROUS	R..... ROCK
CRN..... CROWN OF ROAD	R..... RIVER
CSP..... CORRUGATED STEEL PIPE	RB..... RIVER BED
CSPA..... CORRUGATED STEEL PIPE ARCH	RCBC..... REINFORCED CONCRETE BOXED CULVERT
CUL..... CULVERT INVERT	RCP..... REINFORCED CONCRETE PIPE
CY..... CUBIC YARD	ROW..... RIGHT OF WAY
..... DEGREES	S..... SIGN
D..... DIRT	S..... SLOPE
DC..... DECIDUOUS	S..... SOUTH
DG..... DECOMPOSED GRANITE	SD..... STORM DRAIN
DI..... DROP INLET	SDMH..... STORM DRAIN MANHOLE
DIA(φ)..... DIAMETER	SDR..... STANDARD DIMENSION RATIO
E..... EAST	SE..... SOUTHEAST
EA..... EACH	SET..... SET MONUMENT, CORNER OR CONTROL POINT
EC..... END CURVE	SF..... SQUARE FOOT (FEET)
ED..... EDGE	SFP..... STRUCTURAL PLATE PIPE
EGL..... ENERGY GRADE LINE	SPPA..... STRUCTURAL PLATE PIPE ARCH
ELEC..... ELECTRICAL	SRV..... SERVICE
ELEV..... ELEVATION	SS..... SANITARY SEWER
EP..... EDGE OF PAVEMENT	SSMH..... SANITARY SEWER MANHOLE
EPA..... ENVIRONMENTAL PROTECTION AGENCY	ST..... STREET
EVC..... END VERTICAL CURVE	STA..... STATION
EW..... EDGE OF WATER	STB..... STUB
EX..... EXISTING	STD..... STANDARD
F..... FAHRENHEIT	SW..... SOUTHWEST
FC..... FACE OF CURB	S/W..... SIDEWALK
FG..... FIRE CONNECTION	T..... TELEPHONE
FEMA..... FEDERAL EMERGENCY MANAGEMENT AGENCY	TBC..... TOP BACK OF CURB
FF..... FINISHED FLOOR	TC..... TOP OF CURB
FG..... FINISHED GRADE	TRB..... TRANSPORTATION RESEARCH BOARD
FH..... FIRE HYDRANT	TOE..... TOE OF SLOPE
FL..... FLOWLINE	TOP..... TOP OF SLOPE
FG..... FENCE	TR..... TREE
FND..... FOUND MONUMENT, CORNER OR CONTROL POINT	TRF..... TRAFFIC CONTROL
FS..... FIRE STUB	TV..... TELEVISION
FT(°)..... FOOT (FEET)	TYP..... TYPICAL
G..... GAS	U..... UTILITY
GA..... GATE	UBC..... UNIFORM BUILDING CODE
GB..... GRADE BREAK	UG..... UNDERGROUND
GID..... GENERAL IMPROVEMENT DISTRICT	UMC..... UNIFORM MECHANICAL CODE
GP..... GUY POLE	UPC..... UNIFORM PLUMBING CODE
GPM..... GALLONS PER MINUTE	USACE..... UNITED STATES ARMY CORPS OF ENGINEERS
GR..... GRAVE	USBR..... UNITED STATES BUREAU OF RECLAMATION
GS..... GROUND SHOT	USGS..... UNITED STATES GEOLOGICAL SURVEY
H/C..... HANDICAP	V..... VALVE
HDP..... HIGH DENSITY POLYETHYLENE	VA..... VAULT
HDS..... HYDRAULIC DESIGN SERIES	VC..... VERTICAL CURVE
HEC..... HYDRAULIC ENGINEERING CIRCULAR	VG..... VALLEY GUTTER
HERCF..... HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE	VERT..... VERTICAL
HGL..... HYDRAULIC GRADE LINE	VPC..... VERTICAL POINT OF CURVATURE
HL..... HAND HOLE	VPT..... VERTICAL POINT OF TANGENCY
HORIZ..... HORIZONTAL	W..... WEST
HW..... HOG WIRE	W..... WITH
ID..... INNER DIAMETER	WEF..... WATER ENVIRONMENT FEDERATION
IE..... INVERT ELEVATION	WL..... WALL
IN(°)..... INCH	WK..... WALKWAY
INC..... INCORPORATED	WV..... WATER GATE VALVE
INTX..... INTERSECTION	YR..... YEAR
IRRIG..... IRRIGATION	
ITE..... INSTITUTE OF TRANSPORTATION ENGINEERS	
LAT..... LATERAL	
LOS..... LEVEL OF SERVICE	
LS..... LUMP SUM	
LT..... LIGHT	
M..... METER	
MAX..... MAXIMUM	
MGD..... MILLION GALLONS PER DAY	
MH..... MANHOLE	
MI..... MILE	
MIN..... MINIMUM	
MISC..... MISCELLANEOUS	
MIX..... MIXED	
MPH..... MILES PER HOUR	
MUTCD..... MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES	
MUI..... RADIO FREQUENCY METER INTERFACE UNIT	

LINE TYPES

EXISTING	NEW	
		ADJACENT PROPERTY LINE
		ON-SITE PROPERTY LINE
		BUILDING ENVELOPE
		CENTERLINE OF RIGHT-OF-WAY
		CONTOUR - ONE FOOT INTERVAL
		EASEMENT OR ON-SITE R.O.W.
		EDGE OF PAVEMENT AND/OR CURB
		FLOW LINE
		GAS LINE
		STREET R.O.W.
		OVERHEAD POWER
		UNDERGROUND POWER
		SANITARY SEWER MAIN
		STORM DRAIN
		WATER MAIN
		BARBED WIRE FENCE
		OTHER FENCE

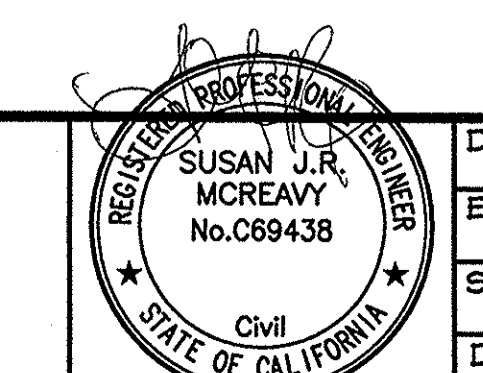
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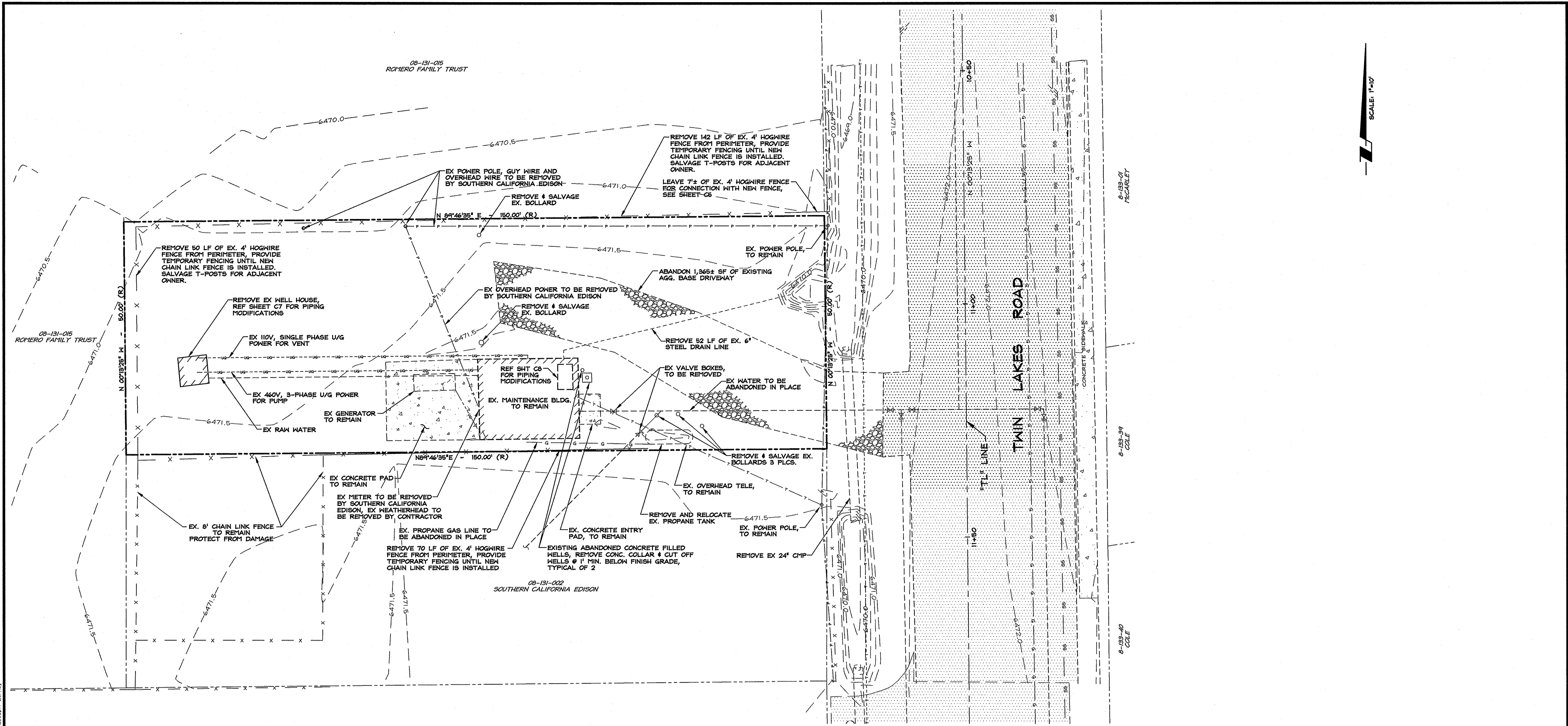
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 PINDEN, NEVADA 89423
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**ARSENIC REMOVAL
 BRIDGEPORT PUBLIC UTILITY DISTRICT**

**LEGEND
 AND
 ABBREVIATIONS**



DRAWN: MCR/WAN	JOB: 08083-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: AS NOTED	SHEET: C3
DATE: 5/12/17	OF: 31 SHEETS

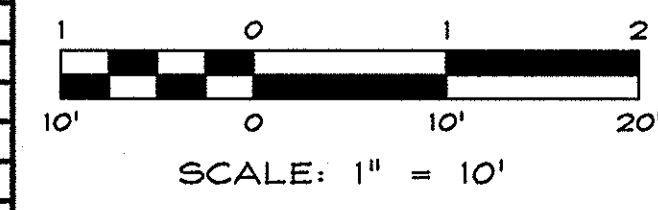


SCALE: 1"=10'

DEMOLITION NOTES:

1. REMOVE AND DISPOSE OF 4' HOGWIRE FENCE, 262 LF± TOTAL.
2. APPROXIMATE LOCATION OF GAS LINE, CONTRACTOR SHALL VERIFY. PROPANE TANK: REMOVE AND RESET. REMOVE EX BOLLARDS AND STORE FOR RE-USE.
3. EX BUILDING, GENERATOR AND WELL HOUSE SHALL BE PROTECTED FROM DAMAGE.
4. REMOVE AND DISPOSE OF EX PIPING AS SHOWN.
5. FOR ELECTRIC SERVICE SEE PLANS BY SOUTHERN CALIFORNIA EDISON, FOR POLE REMOVAL COORDINATE WITH SOUTHERN CALIFORNIA EDISON.
6. SEE SPECIFICATIONS FOR SCHEDULING TIMES THAT THE TWIN LAKES WELL IS WITHOUT POWER.
7. PROPERTY BOUNDARY LINE BEARINGS AND DISTANCES ARE PER RECORD OF SURVEY No. 32-84, PREPARED FOR BRIDGEPORT PUBLIC UTILITY DISTRICT, FILED IN MONO COUNTY IN BOOK 4 ON PAGE 99, APRIL 29, 2011.

NO.	DATE	REVISION BLOCK	BY



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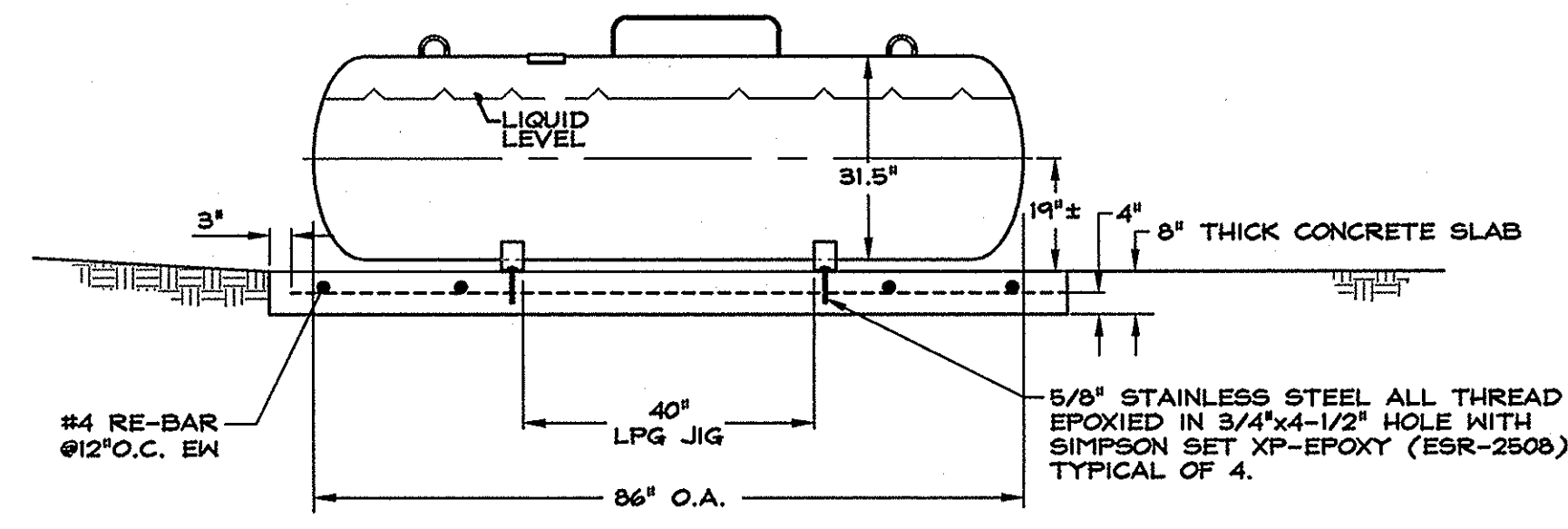
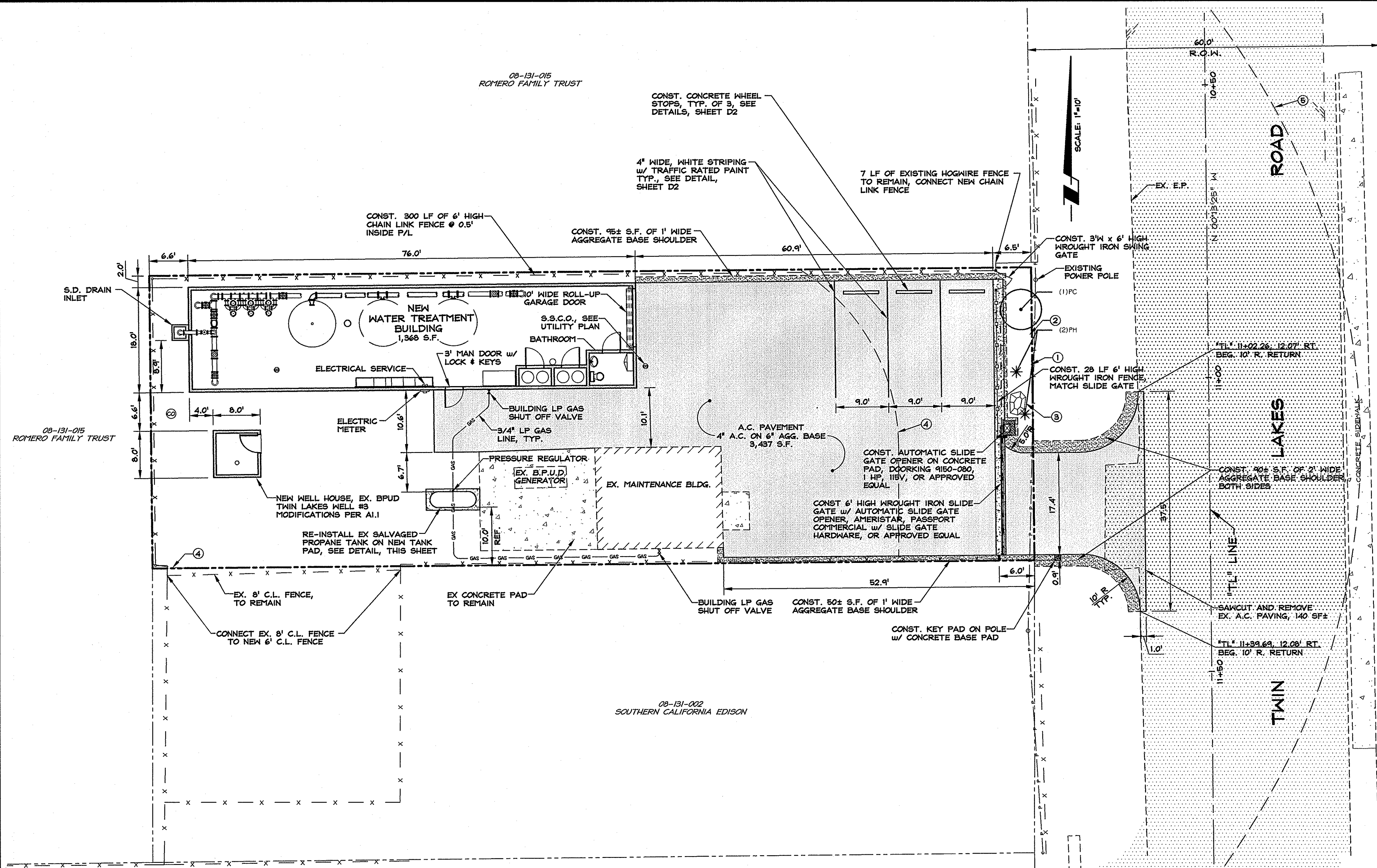
**ARSENIC REMOVAL
 BRIDGEPORT PUBLIC UTILITY DISTRICT**

DEMOLITION PLAN

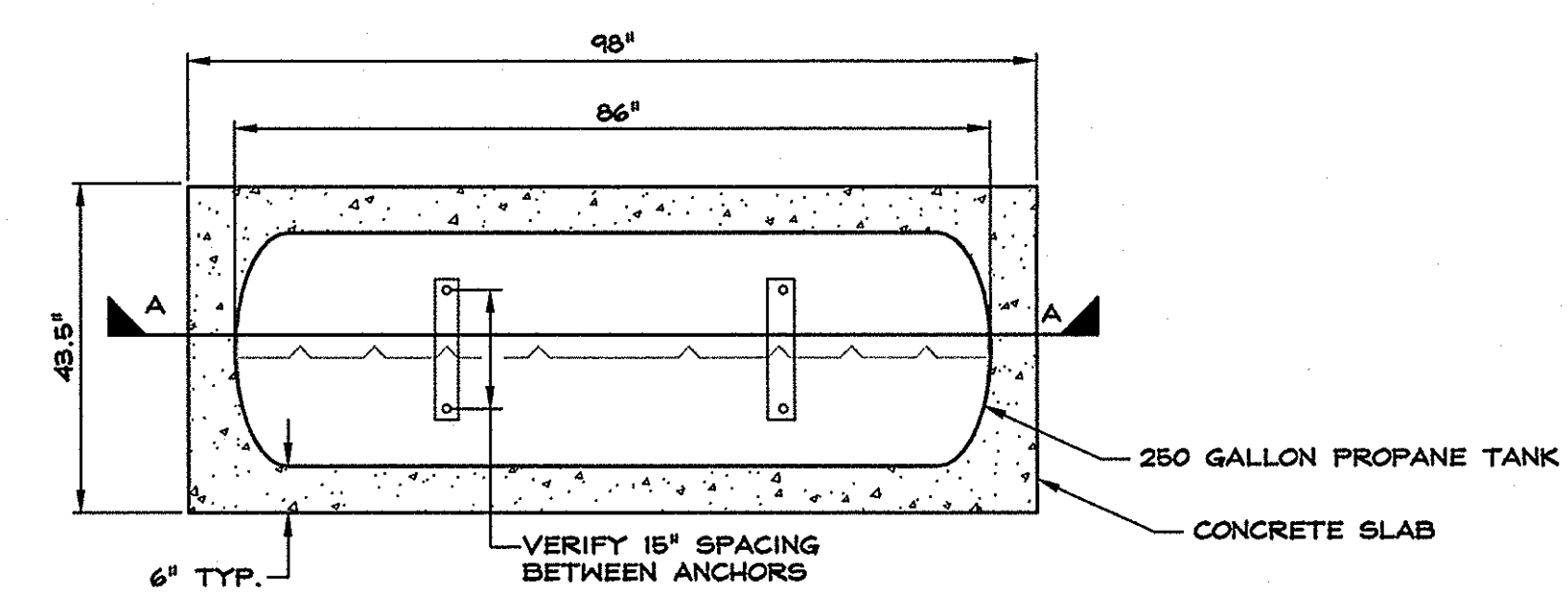


DRAWN: MCR/WAN
 ENGINEER: SJRM
 SCALE: 1" = 10'
 DATE: 5/12/17
 JOB: 0883-029
 DRAWING: SEE PLOT STAMP
 SHEET: C4
 OF: 31 SHEETS

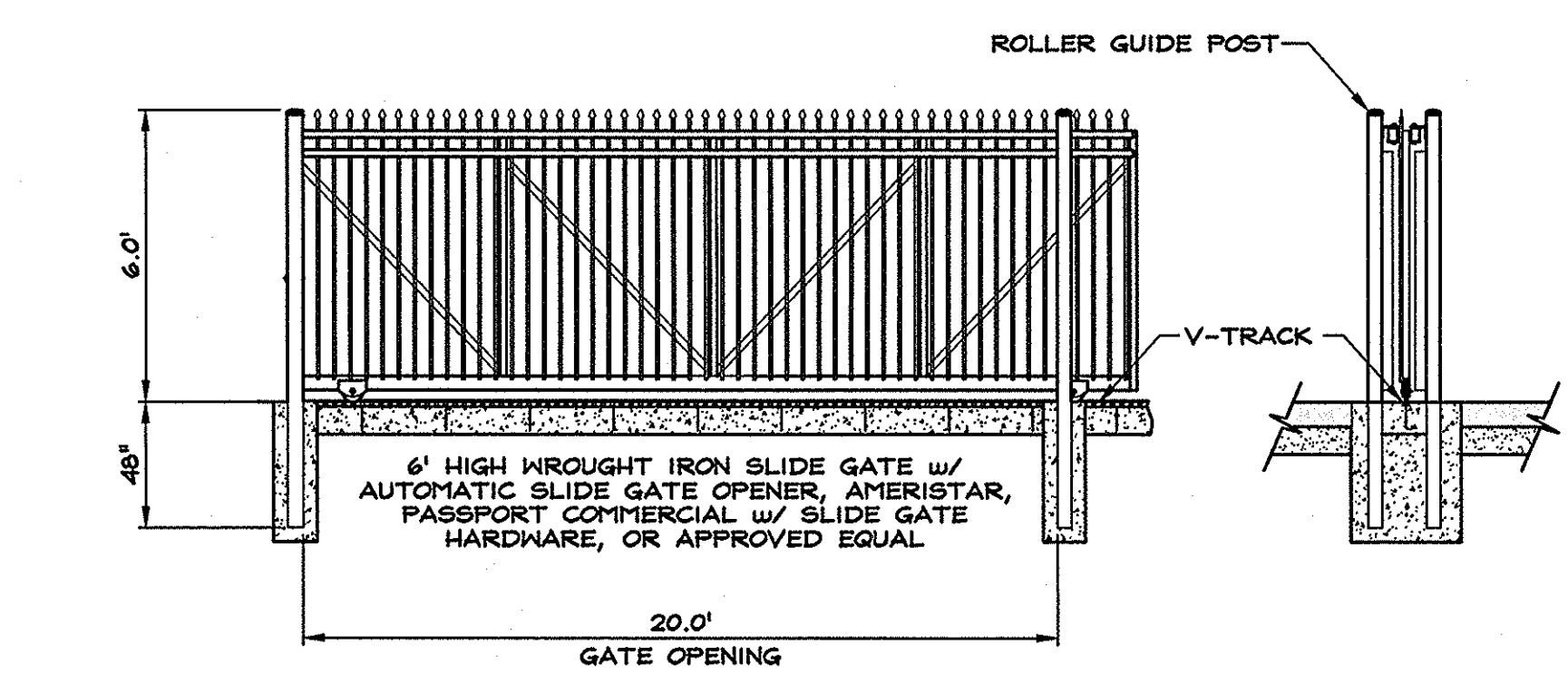
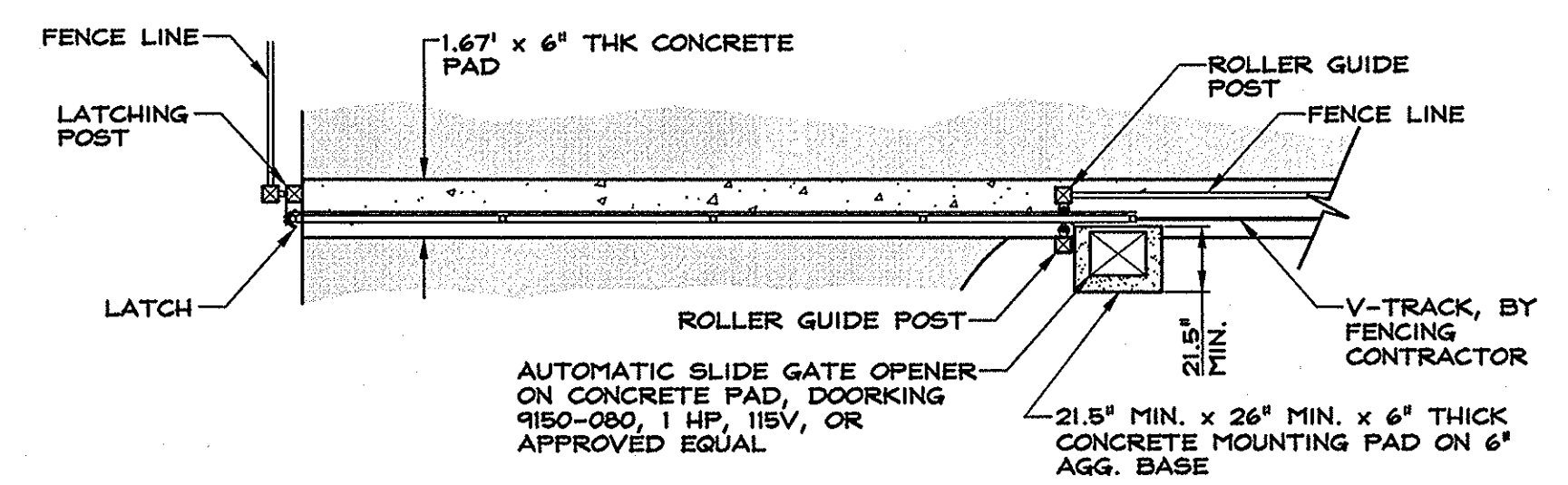
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NOTES:
 • VERIFY TANK DIMENSIONS BEFORE CONSTRUCTING SLAB.



PROPRANE TANK PAD DETAIL
 N.T.S.



ROLL GATE DETAIL
 N.T.S.

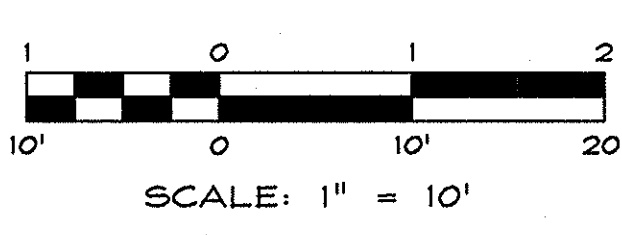
- LANDSCAPE NOTES**
- TOP DRESS LANDSCAPE AREA AND DISTURBED SLOPES WITH 3"-8" NATIVE COBBLE.
 - ALL PLANTS SHALL BE WATERED BY HAND 3 TIMES PER WEEK (OR AS NEEDED) UNTIL FINAL COMPLETION.
 - 3'-4" NATIVE BOULDER. INSTALL WITH 1/3 HGT. BELOW GRADE.
 - 30' CLEARANCE PER WUI REQUIREMENT FOR DEFENSIBLE SPACE.
 - 100' CLEARANCE PER WUI REQUIREMENT FOR DEFENSIBLE SPACE.

PLANT SCHEDULE

SHRUBS	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT
●	PC	1	PURPLE LEAF SAND CHERRY / PRUNUS X CISTENA	5 GAL MIN.
GRASSES	CODE	QTY	COMMON NAME / BOTANICAL NAME	CONT
*	PH	2	HAMELN DWARF FOUNTAIN GRASS / PENNISETUM ALOPECUROIDES 'HAMELN'	2 GAL MIN.

- GENERAL NOTES:**
- VERIFY UTILITY ENTRY LOCATIONS AT BUILDING WITH MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
 - FOR ELECTRIC SERVICE SEE PLANS BY SOUTHERN CALIFORNIA EDISON, COORDINATE WITH ELECTRICAL AND PLUMBING PLANS.
 - SEE DETAILS SHEETS FOR DESIGN INFORMATION REGARDING LATERALS, WATER FITTINGS, VERTICAL SEPARATIONS, RESTRAINTS, etc.
 - REF. SHEET C2, GENERAL NOTE #7 REGARDING IDENTIFICATION AND LOCATION OF EX UTILITIES.

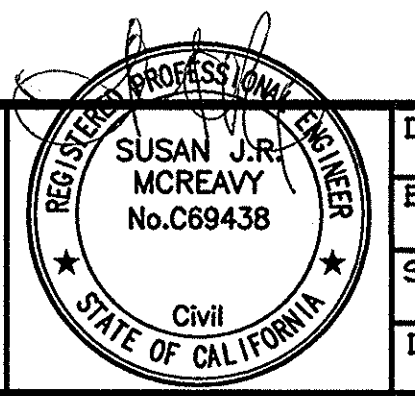
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 PHONE: (775) 782-2022 / FAX: (775) 782-7084
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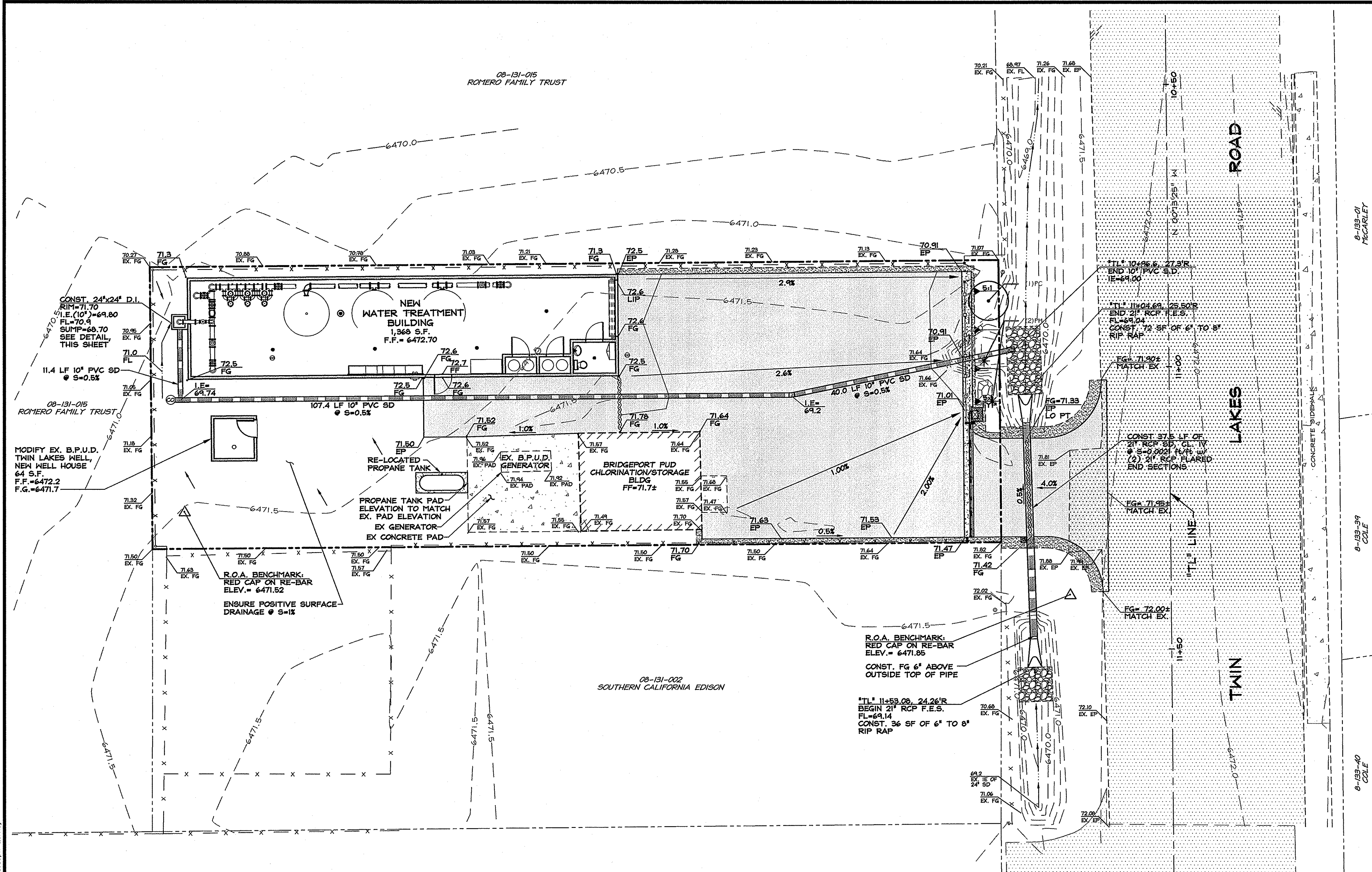
**ARSENIC REMOVAL
 BRIDGEPORT PUBLIC UTILITY DISTRICT**

**SITE / LANDSCAPE
 PLAN**



DRAWN: MCR/WAN
 ENGINEER: SJRM
 SCALE: 1" = 10'
 DATE: 5/12/17
 JOB: 0883-029
 DRAWING: SEE PLOT STAMP
 SHEET: **C5**
 OF: 31 SHEETS

08-131-015
ROMERO FAMILY TRUST



SCALE: 1"=10'

6-133-01
PECARLEY

6-133-39
COLE

6-133-40
COLE

08-131-002
SOUTHERN CALIFORNIA EDISON

MODIFY EX. B.P.U.D.
TWIN LAKES MELL.
NEW MELL HOUSE
64 S.F.
F.F.=6472.2
F.G.=6471.7

CONST. 24"x24" D.I.
RIM=71.70
F.L.E.(10")=69.80
SUMP=68.70
SEE DETAIL
THIS SHEET

08-131-015
ROMERO FAMILY TRUST

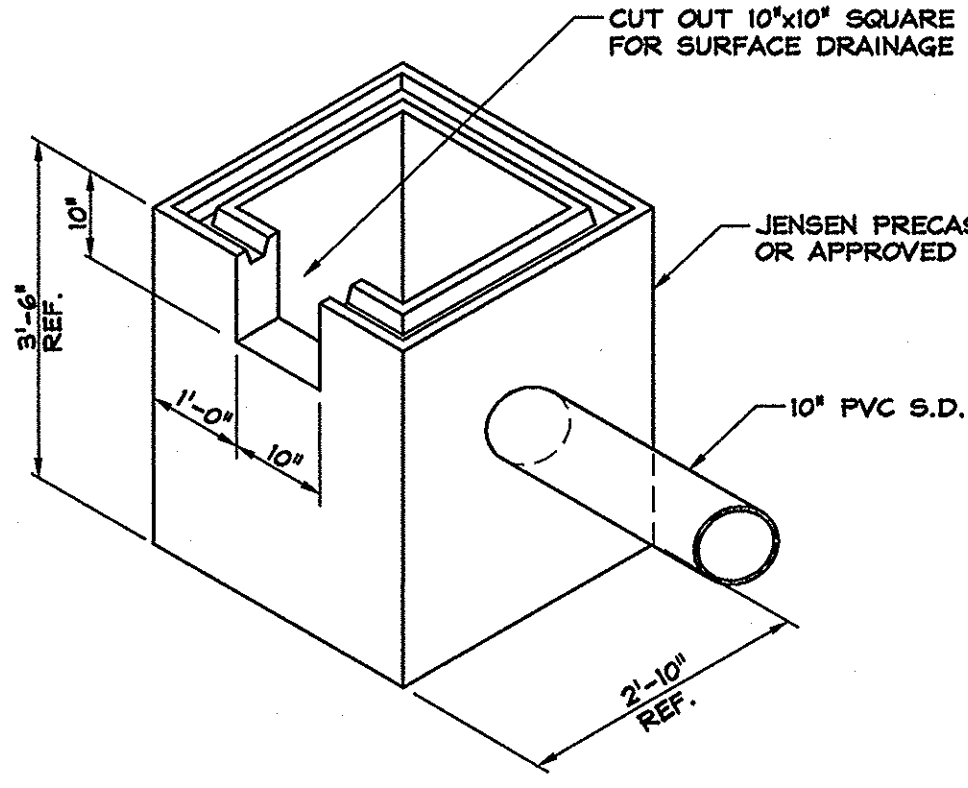
R.O.A. BENCHMARK:
RED CAP ON RE-BAR
ELEV.= 6471.52
ENSURE POSITIVE SURFACE
DRAINAGE @ S=1%

RE-LOCATED
PROPANE TANK
PROPANE TANK PAD
ELEVATION TO MATCH
EX. PAD ELEVATION
EX GENERATOR
EX CONCRETE PAD

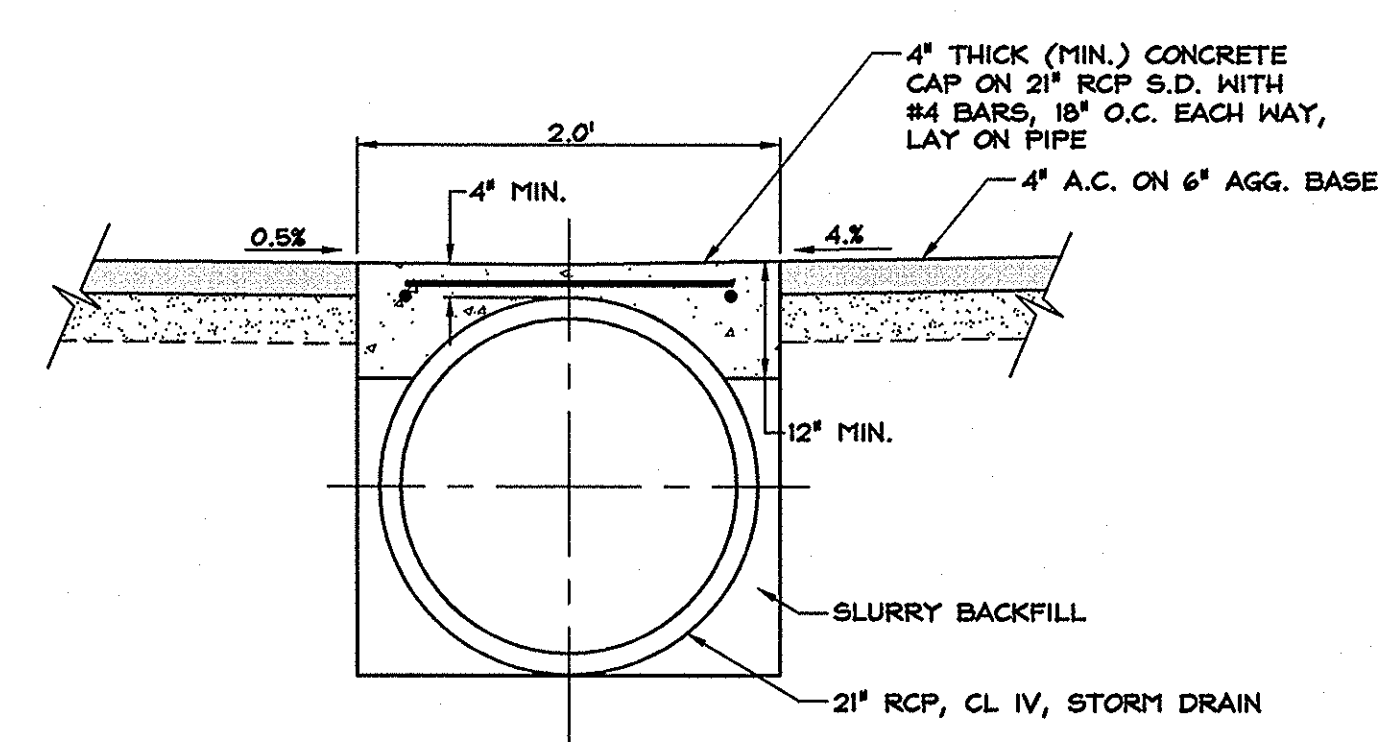
EX. B.P.U.D.
GENERATOR
BRIDGEPORT PUD
CHLORINATION/STORAGE
BLDG
FF=71.72

R.O.A. BENCHMARK:
RED CAP ON RE-BAR
ELEV.= 6471.85
CONST. FG 6" ABOVE
OUTSIDE TOP OF PIPE

*TL# 11+53.08, 24.26'R
BEGIN 21" RCP F.E.S.
FL=69.14
CONST. 36 SF OF 6' TO 8'
RIP RAP



STORM DRAIN D.I. DETAIL
SCALE: N.T.S.

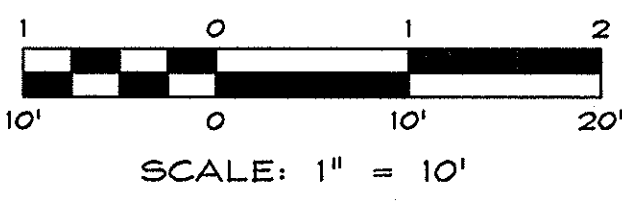


21" STORM DRAIN/DRIVEWAY CROSSING
SCALE: N.T.S.

GENERAL NOTES:

1. ADD 6400 TO ALL SPOT ELEVATIONS.
2. CLEAR AND GRUB ANY VEGETATION WITHIN THE STRUCTURAL AREAS OF THE BUILDING AND PAVEMENT.
3. A.C. PAVEMENT IN DRIVEWAY AND PARKING AREAS (APPROX. 3,437 S.F.) SHALL CONSIST OF 4" A.C. ON 6" TYPE 2, CL. B, AGGREGATE BASE COMPACTED TO 90% MDD ON NATIVE MATERIALS, STRIPPED, GRUBBED, GRADED AND COMPACTED TO 90% MDD. CORRECT ANY SOFT OR LOOSE AREAS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
4. REFER TO STRUCTURAL PLANS FOR CONCRETE SLAB AND FOOTINGS. THE AREA OF FOOTINGS SHALL BE OVER-EXCAVATED 18" BELOW FOOTING GRADE. THE BOTTOM AND SIDES OF THE FOOTING OVER-EXCAVATIONS COVERED WITH A NON-WOVEN GEOTEXTILE SIMILAR TO MIRAFI 140N THEN BACKFILLED WITH CAL-TRANS CLASS I OR II DRAIN ROCK. THE DRAIN ROCK SHALL BE DENSIFIED ("WACKED") UNTIL NO FURTHER DEFLECTION IS OBSERVED. THE AREA OF THE CONCRETE SLAB SHALL BE STRIPPED, GRUBBED AND GRADED. ANY SOFT OR LOOSE AREAS CORRECTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND COMPACTED TO 90% MDD. THEN 6" OF CAL-TRANS CLASS 2, 3/4-INCH AGGREGATE BASE PLACED AND COMPACTED TO 95% MDD FOLLOWED BY SAND AND VAPOR BARRIER PER THE ARCHITECTURAL PLANS.

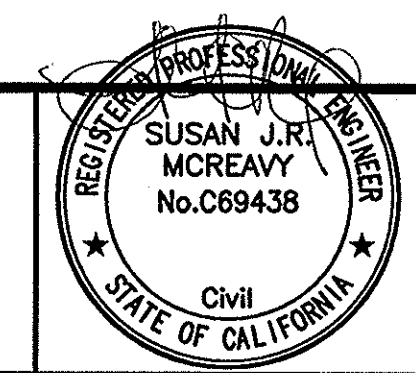
NO.	DATE	REVISION	BLOCK	BY



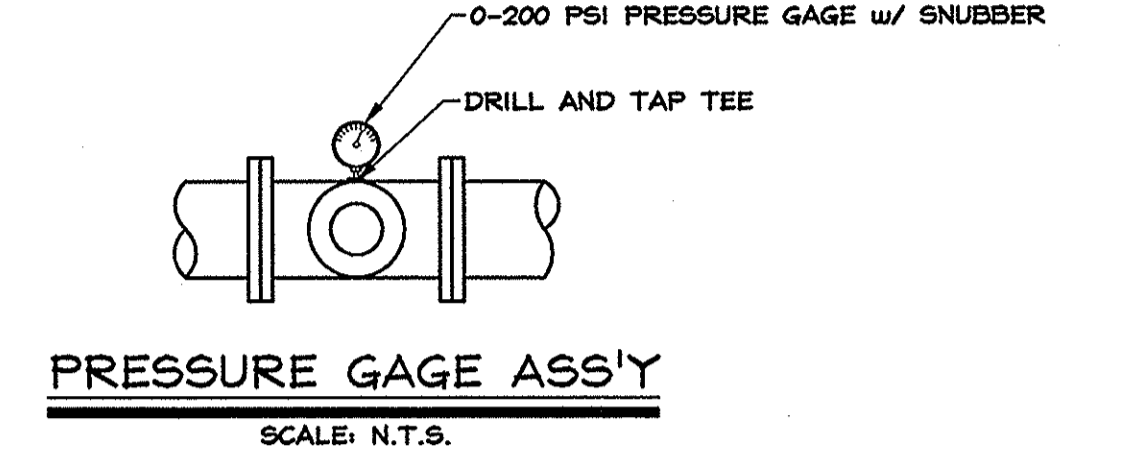
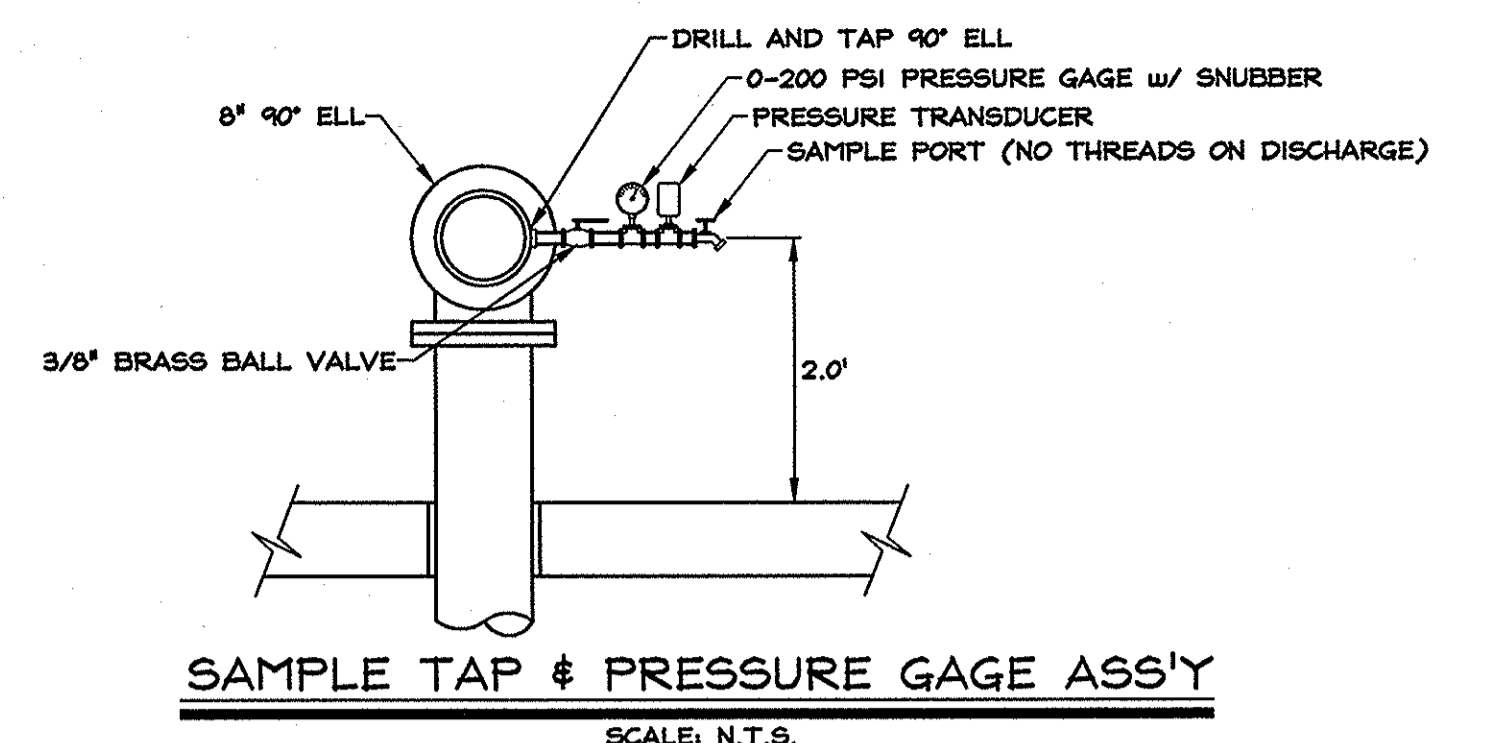
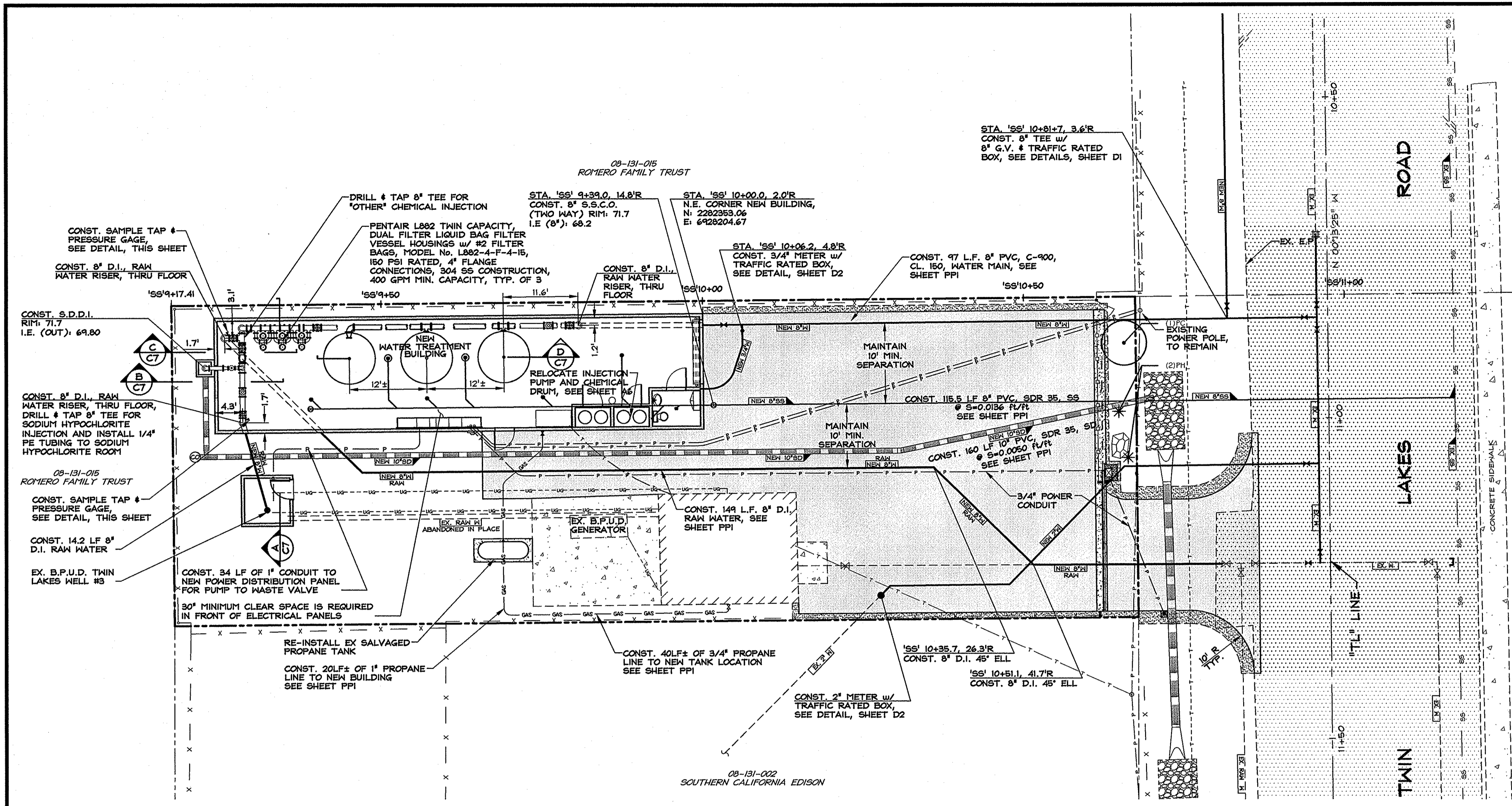
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ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

GRADING PLAN

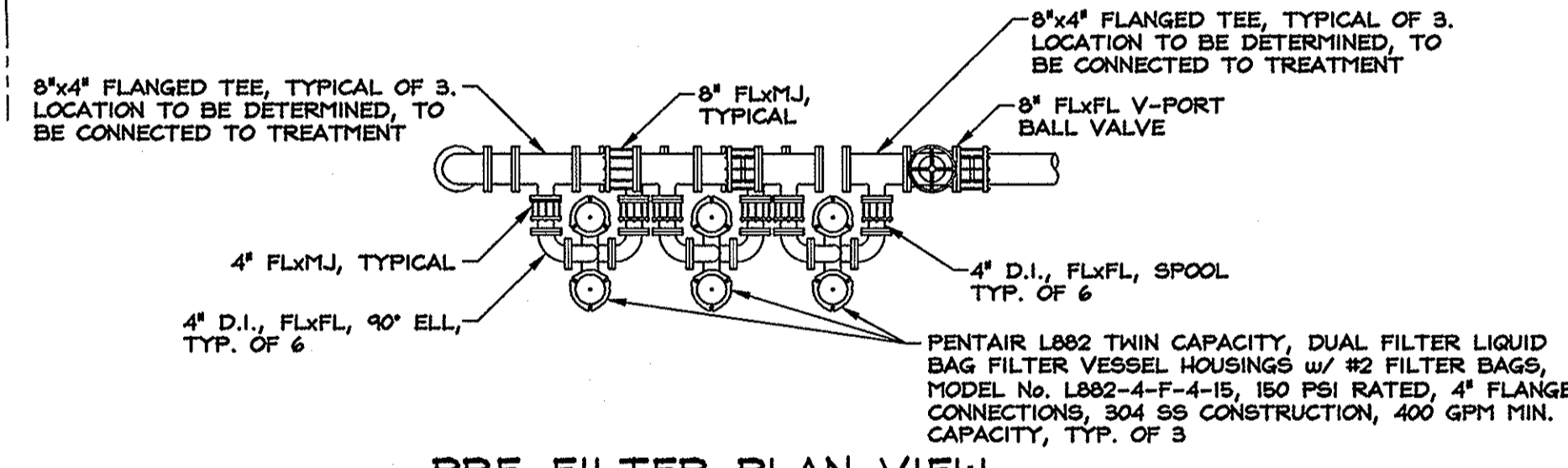


DRAWN: MCR/WAN
ENGINEER: SJRM
SCALE: 1" = 10'
DATE: 5/12/17
JOB: 0883-029
DRAWING: SEE PLOT STAMP
SHEET: C6
OF: 31 SHEETS

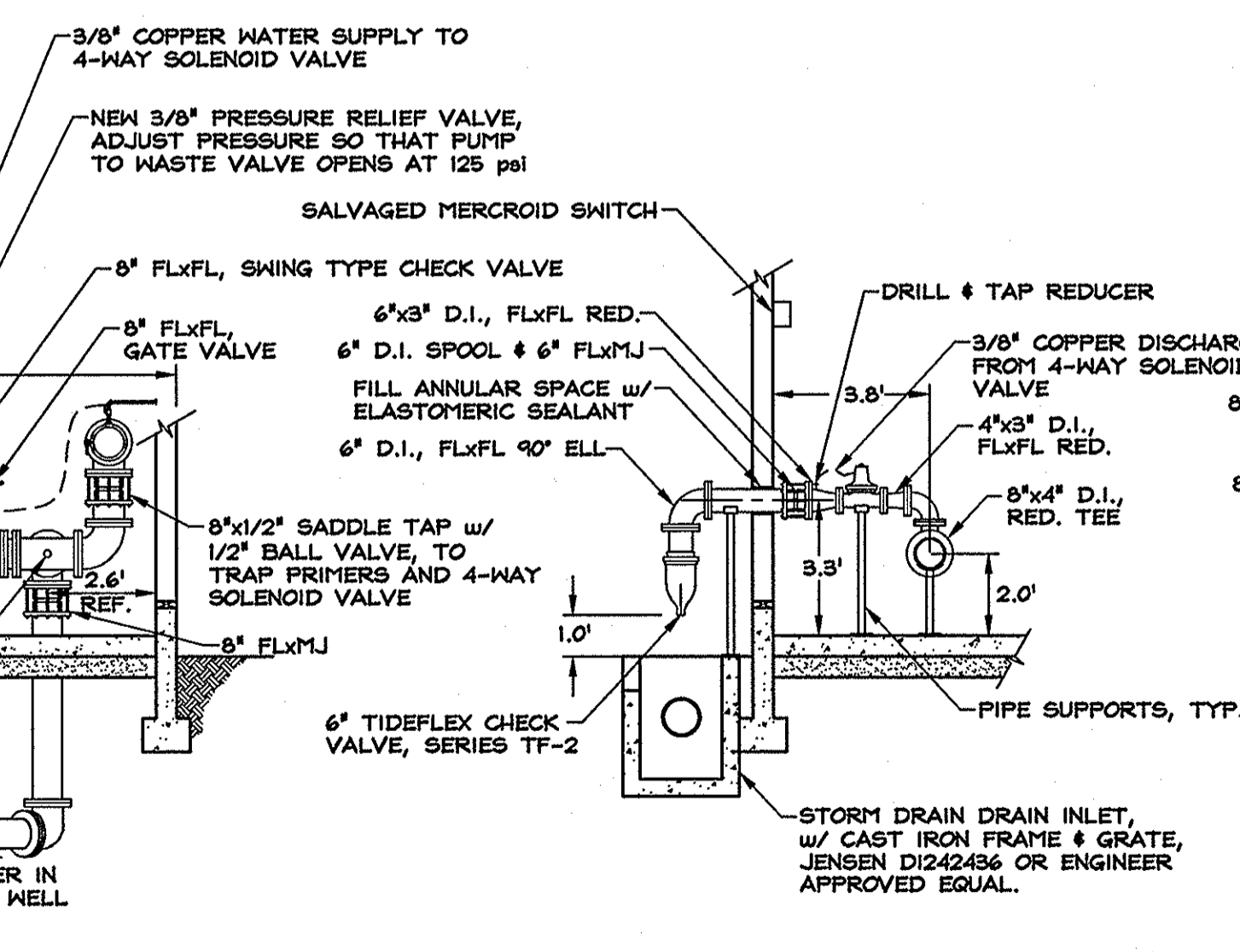
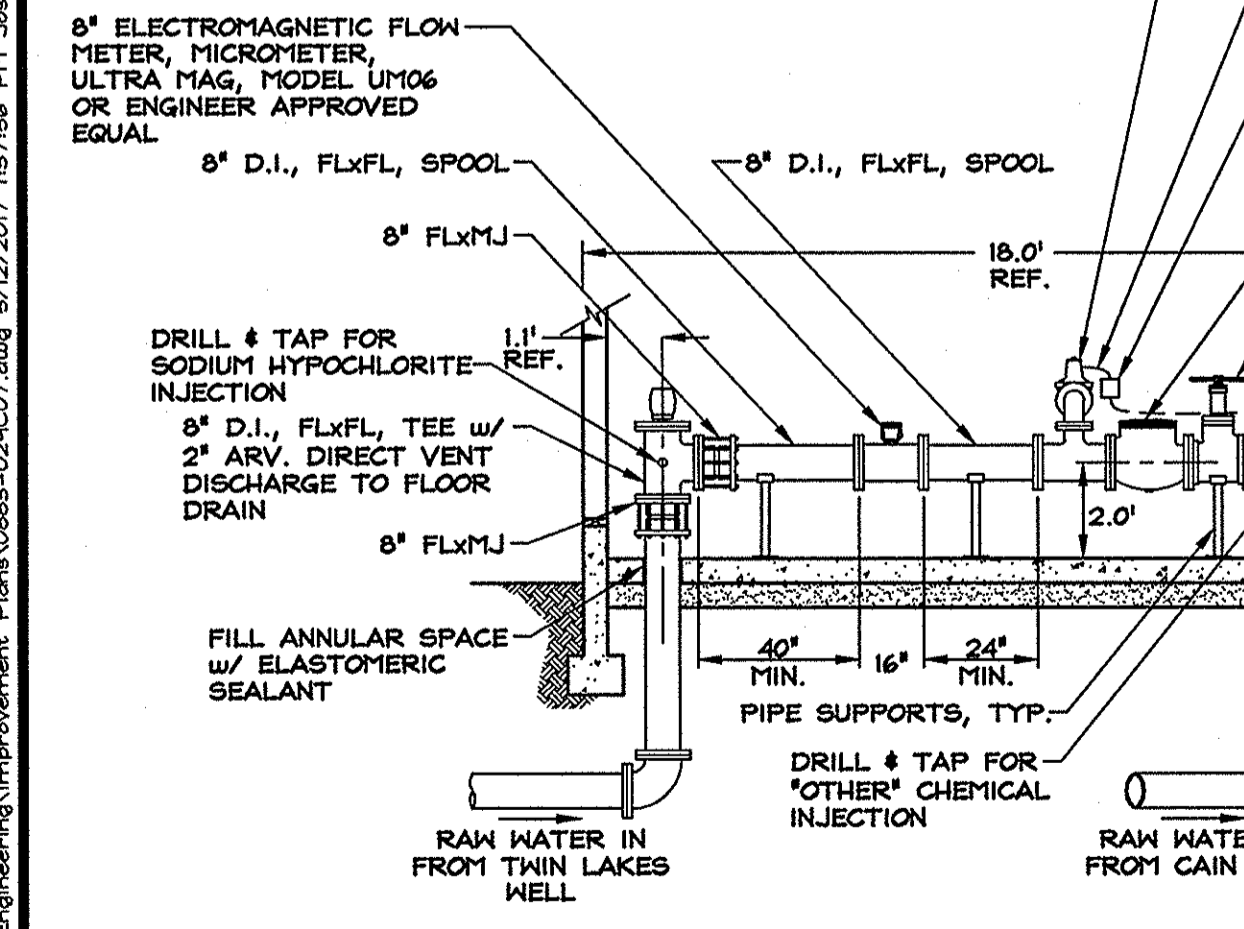


GENERAL NOTES:

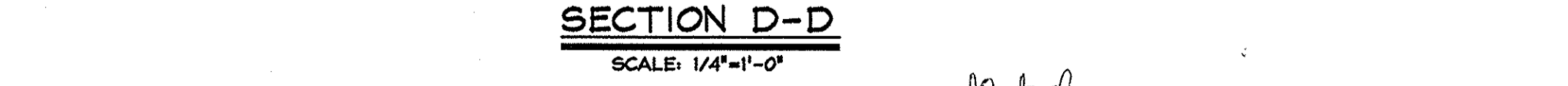
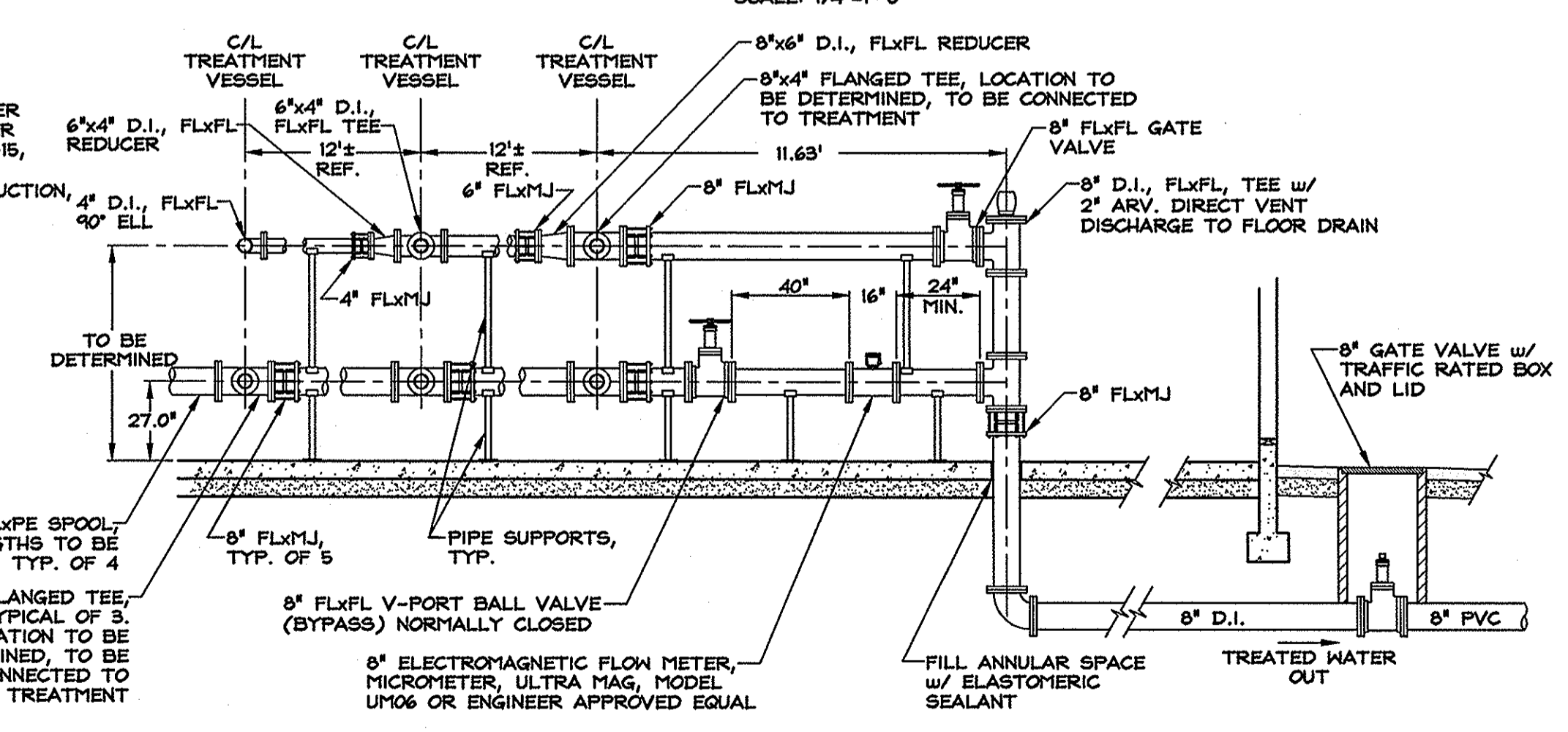
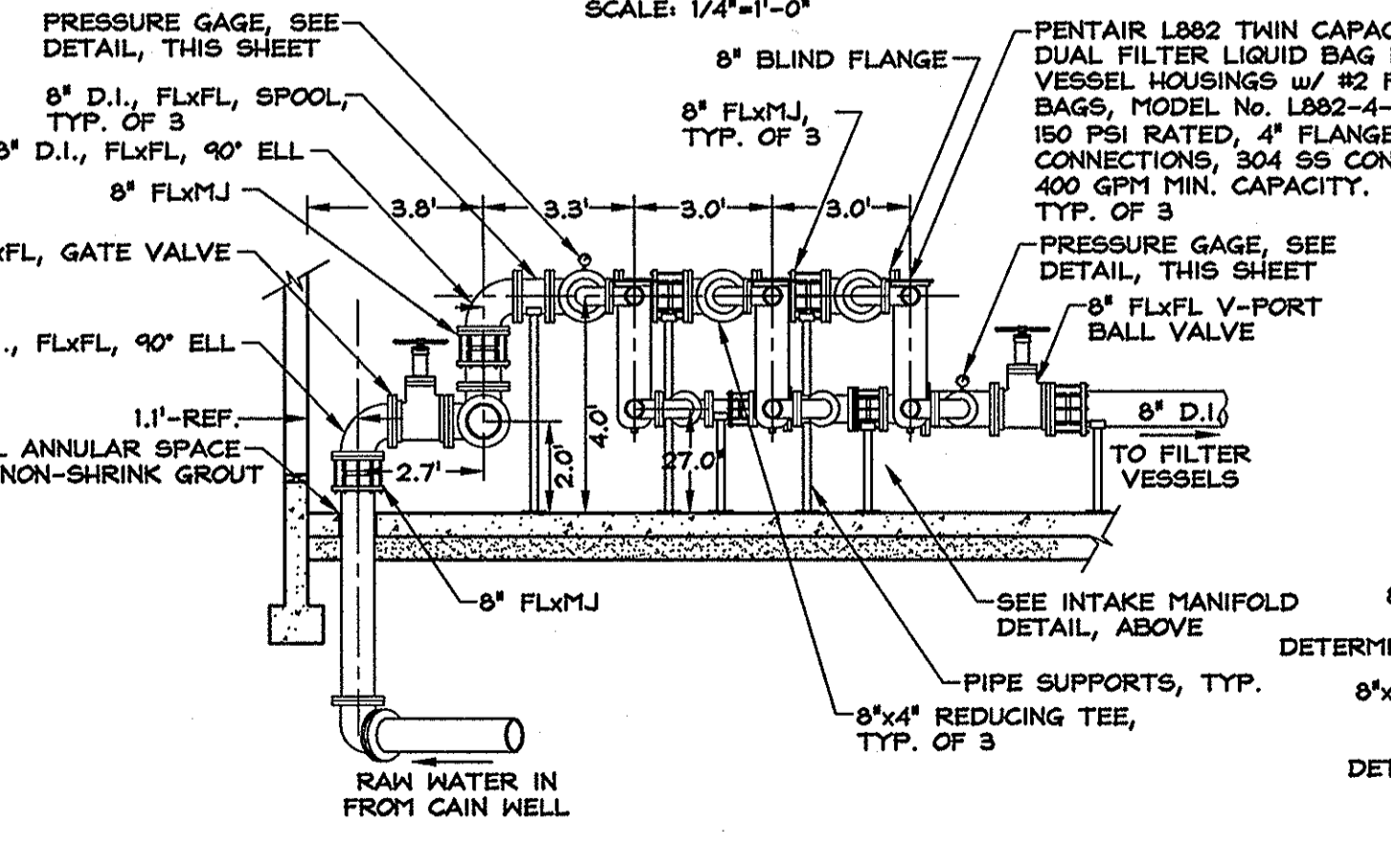
1. VERIFY UTILITY ENTRY LOCATIONS AT BUILDING WITH MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
2. FOR ELECTRIC SERVICE SEE PLANS BY SOUTHERN CALIFORNIA EDISON, COORDINATE WITH CIVIL, ELECTRICAL AND PLUMBING PLANS.
3. SEE DETAILS SHEETS FOR DESIGN INFORMATION REGARDING LATERALS, WATER FITTINGS, VERTICAL SEPARATIONS, RESTRAINTS, etc.
4. REF. SHEET C2, GENERAL NOTE #7 REGARDING IDENTIFICATION AND LOCATION OF EX UTILITIES.
5. CONTRACTOR SHALL COORDINATE GAS AND ELECTRIC CONNECTIONS WITH RESPECTIVE UTILITIES.
6. ALL DUCTILE IRON PIPE SHALL BE IN ACCORDANCE WITH AWWA C151, C10 & C104.
7. ALL BURIED DUCTILE IRON PIPE SHALL BE WRAPPED IN POLYETHYLENE W/ APPROPRIATE COLOR AND LABELS.
8. THERE SHALL BE 48" MINIMUM COVER OVER THE WATER MAIN AND LATERALS.
9. INSTALL RUBBER GASKET AND FOAM SEPARATION AROUND PIPE AT CONCRETE PENETRATIONS TO PREVENT CONCRETE FROM EXPOSING DIRECTLY TO PIPE.
10. PAINT ALL ABOVE GROUND PIPING AND FIXTURES TO MATCH TREATMENT EQUIPMENT, SUPPLIER PAINT SCHEME AND COLORS, REFERENCE TREATMENT EQUIPMENT SHOP DRAWINGS.
11. LABEL ABOVE GROUND PIPING WITH DESCRIPTIONS AND FLOW ARROWS, MATCH TREATMENT EQUIPMENT LABELING, TYPE AND WORDING SCHEME. REFERENCE SHOP DRAWINGS.
12. LABEL CHEMICAL PIPING WITH RESPECTIVE CHEMICAL AND FLOW ARROWS.
13. TREATMENT PLANT AND PIPING TO BE DISINFECTED IN ACCORDANCE WITH AWWA C653.
14. SEE SHEETS E-2 AND A6 FOR OTHER CONDUITS.



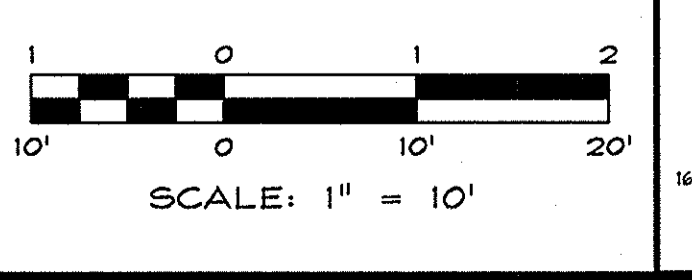
INSTALL 3" CLA-VAL PUMP TO WASTE VALVE, INCLUDING 4-WAY SOLENOID VALVE, SALVAGED FROM EX. THIN LAKES MELL BLDG. SET VALVE TO DISCHARGE UPON STARTUP. SET VALVE FOR PRESSURE RELIEF THROUGH THE NEW 3/8" PRESSURE RELIEF VALVE. ENSURE THAT PUMP TO WASTE CYCLES FOR 60 SECONDS BY ADJUSTING THROTTLING VALVE ON CONTROLS, ALLOWING APPROXIMATELY 700 GALLONS TO BE FLUSHED TO WASTE UPON ENERGIZATION OF THIN LAKES MELL MOTOR.



INTAKE MANIFOLD DETAIL @ PRE-FILTER OUTLET



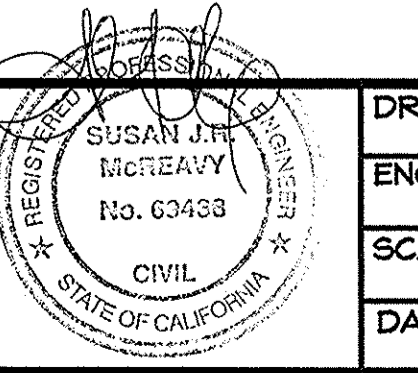
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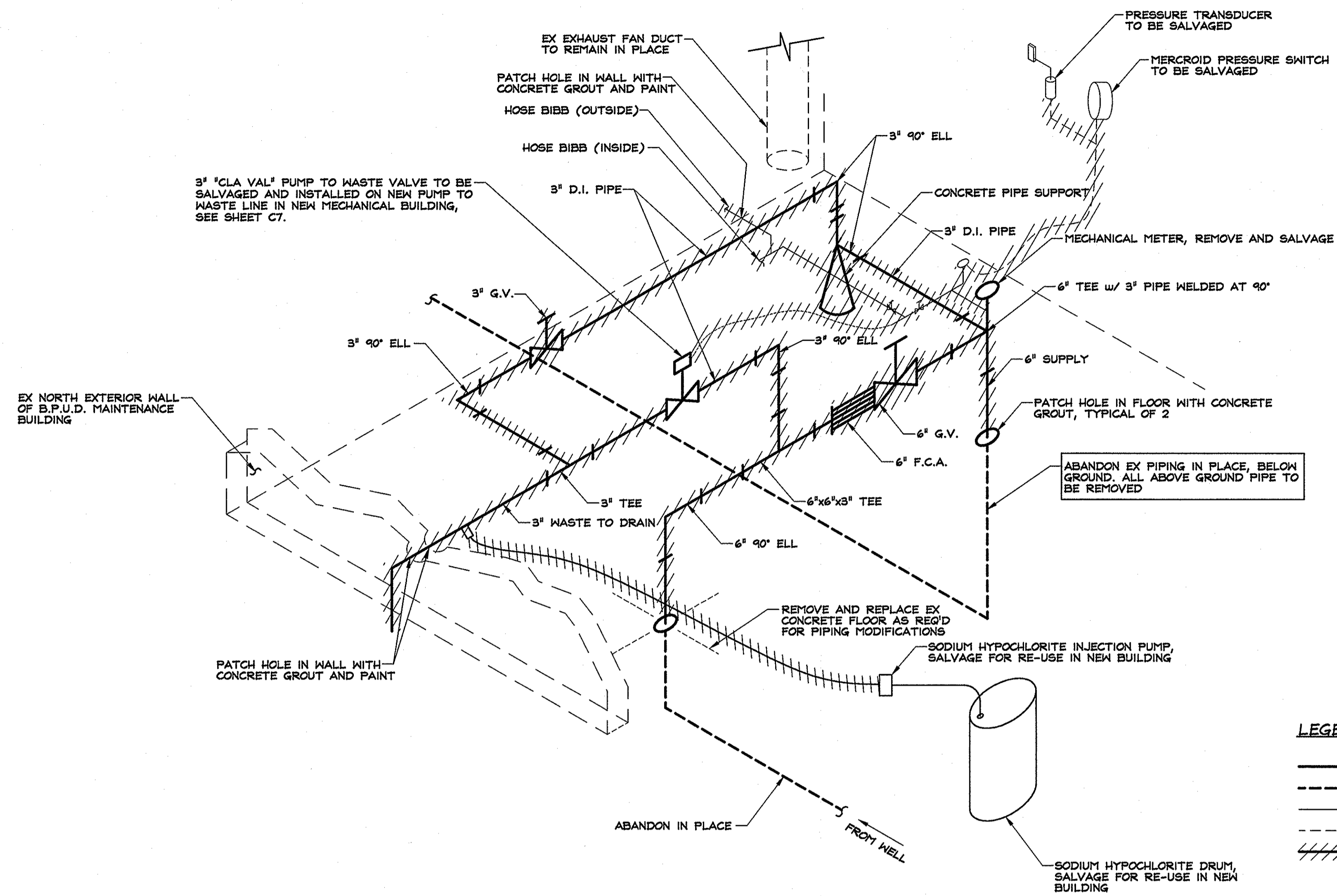
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**ARSENIC REMOVAL
 BRIDGEPORT PUBLIC UTILITY DISTRICT**

UTILITY PLAN



DRAWN: MCR/IAN	JOB: 0883-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: 1" = 10'	SHEET: C7
DATE: 5/12/17	OF: 31 SHEETS



LEGEND:

- 3" AND/OR 6" D.I. PIPING
- PIPING UNDERGROUND SIZE & TYPE UNKNOWN
- 1/2" GALVANIZED PIPING
- 1/4" SOFT COPPER PIPING
- ////// INDICATES PIPING TO BE REMOVED

MAINTENANCE BUILDING EXISTING PIPING SCHEMATIC

SCALE: N.T.S.

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NO.	DATE	REVISION BLOCK	BY

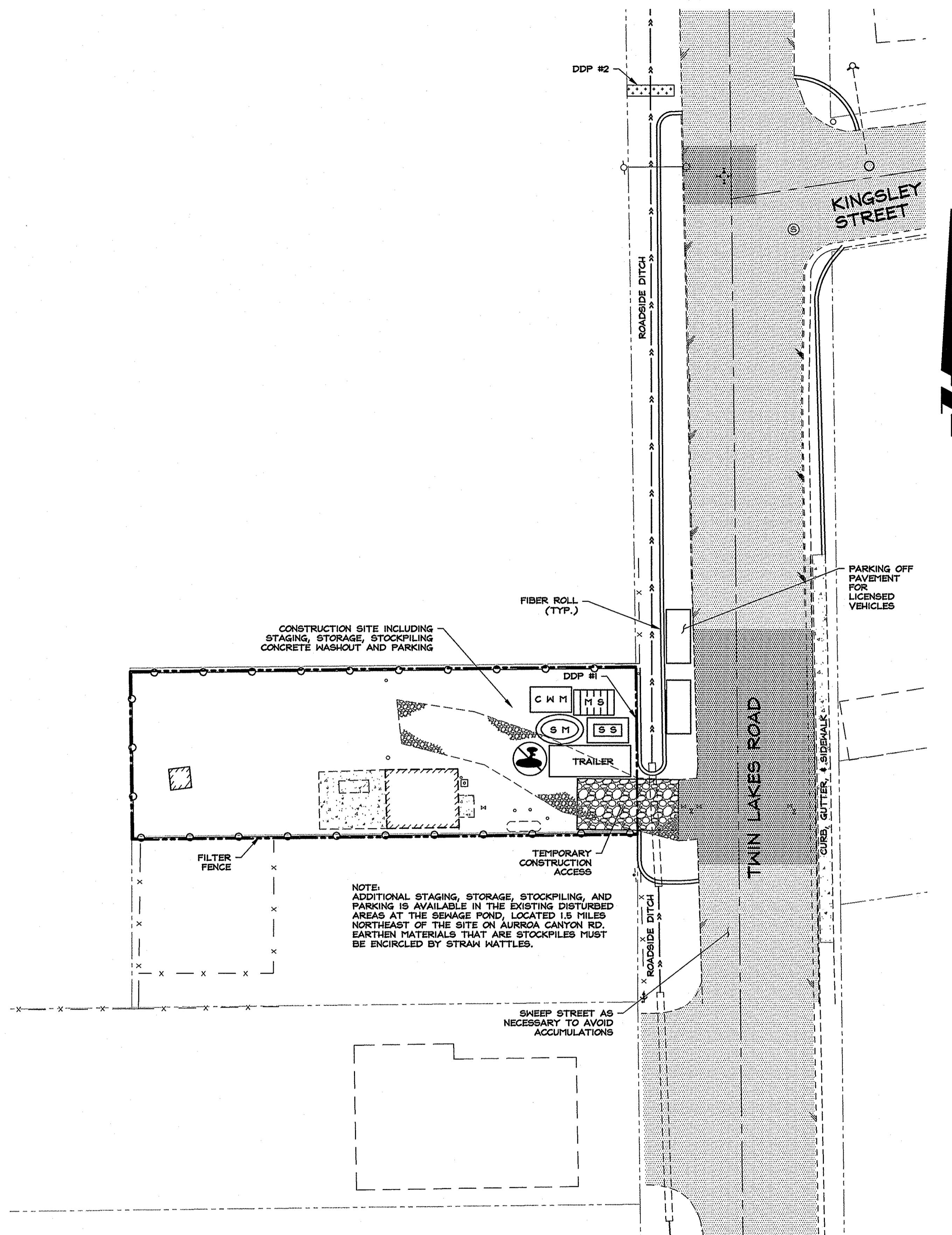
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ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

EXISTING BUILDING
PIPING MODIFICATIONS



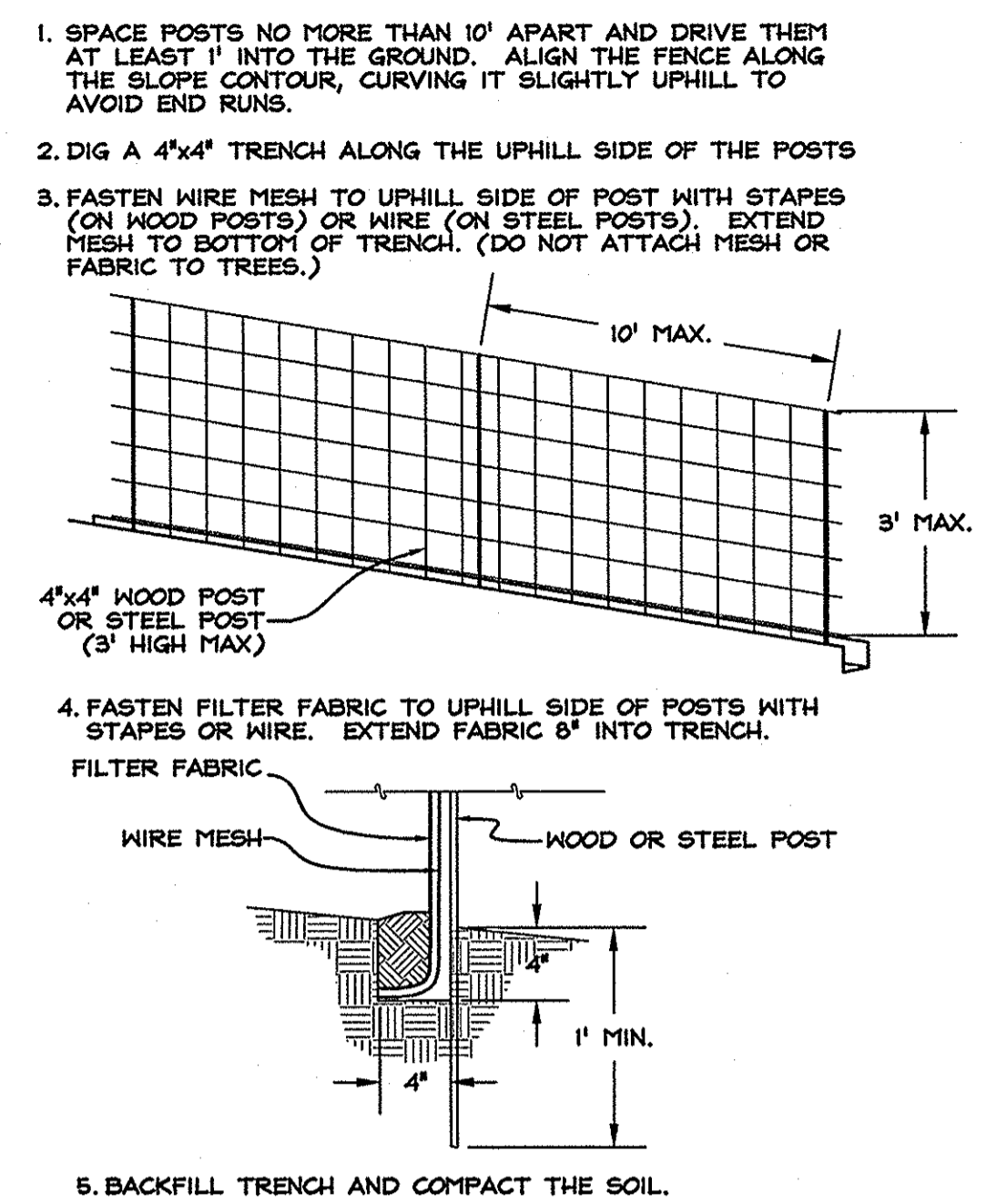
DRAWN: MCR/WAN	JOB: 0803-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: N.T.S.	SHEET: C8
DATE: 5/12/17	OF: 31 SHEETS



LEGEND

- EXISTING PAVEMENT
- FILTER FENCE
- FIBER ROLL/STRAW WATTLE
- C W M HANDLING AND DISPOSAL OF CONCRETE AND CEMENT
- M S MATERIAL DELIVERY, HANDLING AND STORAGE
- S M STOCKPILE MANAGEMENT
- S S SANITARY / SEPTIC WASTE MANAGEMENT
- SPILL PREVENTION AND CONTROL
- CONSTRUCTION SITE ENTRANCE AND EXIT
- TRAILER CONTRACTOR TEMPORARY OFFICE TRAILER

- ### NOTES
- DDP #1 = DEMATERING DISCHARGE POINT INFILTRATION BASIN
 - DDP#2 = STRAW BALE BARRIER
 - CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE LAHONTAN REGIONAL WATER QUALITY CONTROL BOARD (LRWQCB) DEMATERING DISCHARGE PERMIT.
 - TEMPORARY CONSTRUCTION ACCESS WITH SEDIMENT BASIN IF NECESSARY, TO BE REMOVED PRIOR TO PLACING BASE FOR PAVING.
 - INSTALL FIBER ROLL / STRAW WATTLE. MAINTAIN THROUGHOUT COURSE OF CONSTRUCTION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - PROTECT EXISTING INFRASTRUCTURE IN PLACE.
 - THE CONTRACTOR SHALL MAINTAIN A CLEAN PROJECT SITE, REMOVING CONSTRUCTION DEBRIS AT THE END OF EACH ACTIVITY DAY. TRASH SHALL BE DISPOSED IN A COVERED ON-SITE DUMPSTER OR DEBRIS BOX OR HAULED TO A LICENSED DISPOSAL FACILITY. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE.
 - ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
 - BUILT-UP SEDIMENT SHALL BE REMOVED AS NECESSARY TO MAINTAIN PROPER FUNCTIONING OF THE BMP'S.
 - REPORT RELEASES OF REPORTABLE QUANTITIES OF OIL OR HAZARDOUS MATERIALS (IF THEY OCCUR) TO LRWQCB AND THE OWNER WITHIN 24 HOURS.



MATERIALS:

FILTER FABRIC
42" WIDE
TENSILE STRENGTH 120 LBS.
EQUIVALENT OPENING SIZE 70

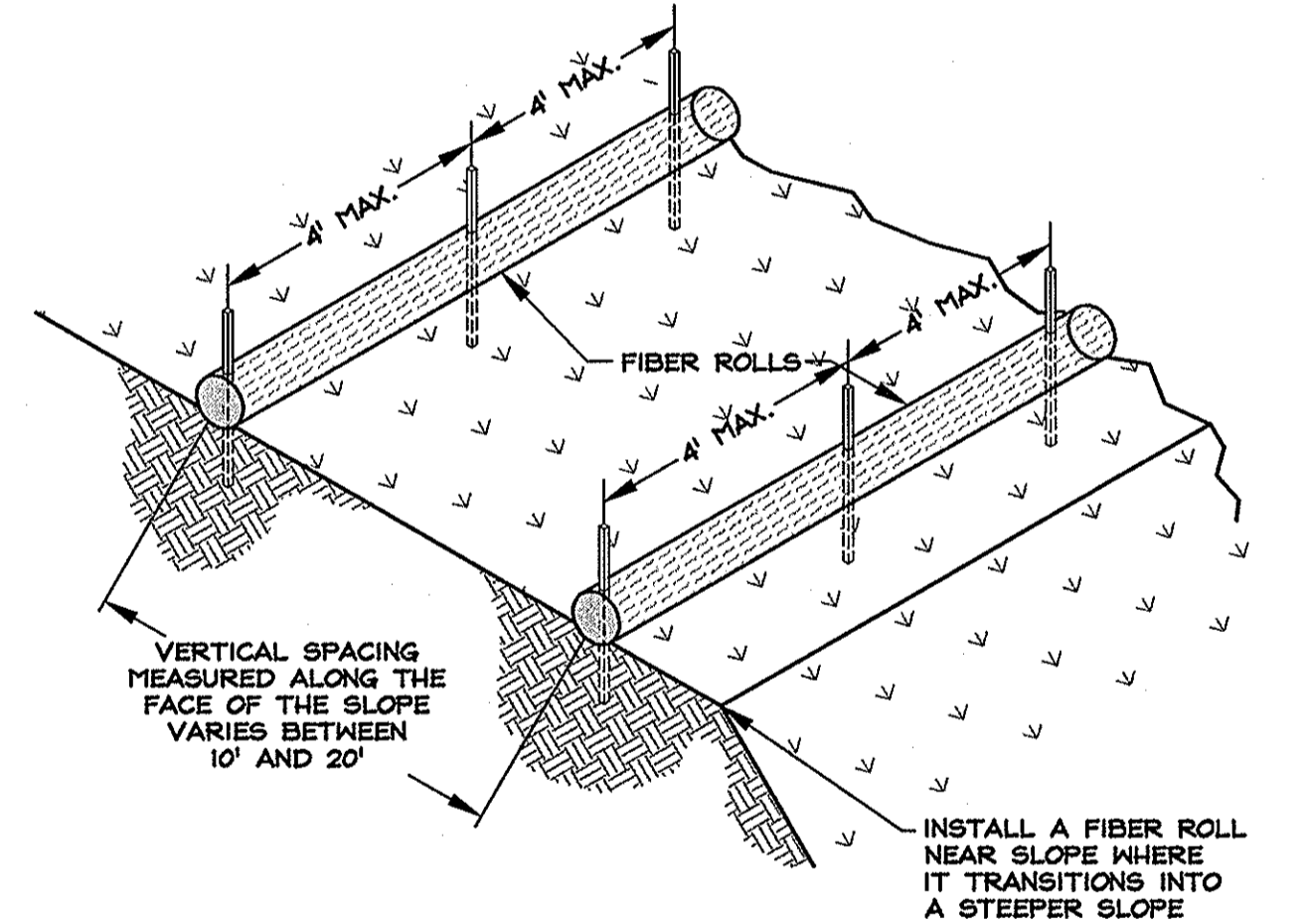
POSTS
8' LONG (MIN.)
4"x4" WOOD OR 1.3 LBS/FT. STEEL
EQUIVALENT OPENING SIZE 70

WIRE MESH
42" WIDE
6" HESH MAX.
14 GAUGE WIRE (MIN.)

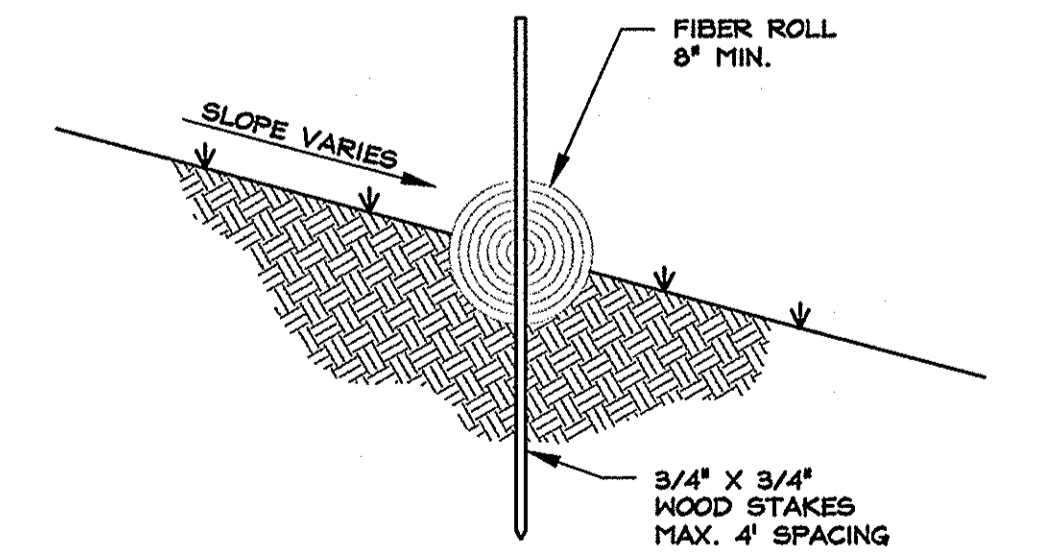
STAPLES (FOR WOOD POSTS)
HEAVY DUTY
1" LONG (MIN.)
14 GAUGE WIRE (MIN.)

WIRE (FOR STEEL POSTS)

NOTES:
SOME TYPES OF FILTER FABRIC FENCE HAVE STAPES INCLUDED AND DO NOT REQUIRE THE MATERIALS LISTED.
THE FABRIC SHOULD NOT EXCEED MORE THAN 3" ABOVE THE GROUND. CUT FILTER FABRIC FROM A CONTINUOUS ROLL TO AVOID HAVING JOINTS. WHERE JOINTS ARE NECESSARY, SPLICE THE FABRIC ONLY AT A POST, WITH AT LEAST 6" OF OVERLAP, AND FASTEN BOTH ENDS SECURELY TO THE POST.



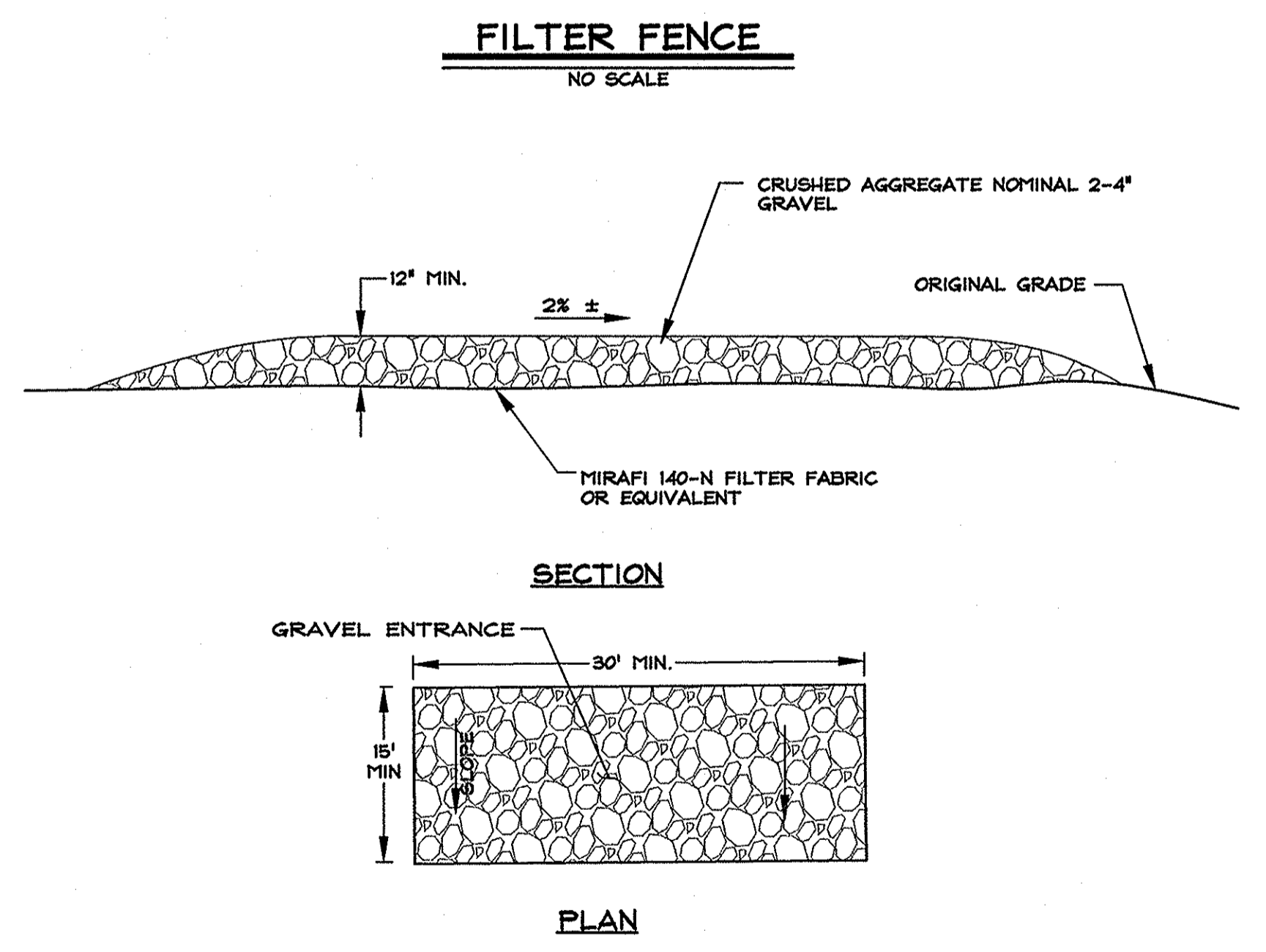
TYPICAL FIBER ROLL INSTALLATION



TYPICAL FIBER ROLL INSTALLATION

FIBER ROLLS DETAIL

NOT TO SCALE



TEMPORARY CONSTRUCTION ACCESS

NO SCALE

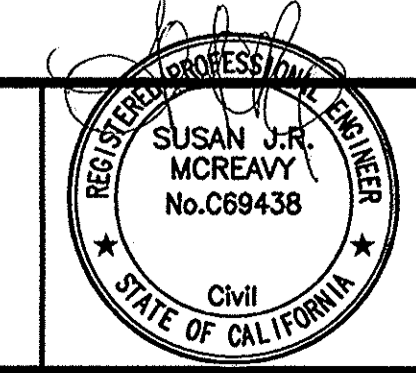
NO.	DATE	REVISION	BLOCK	BY

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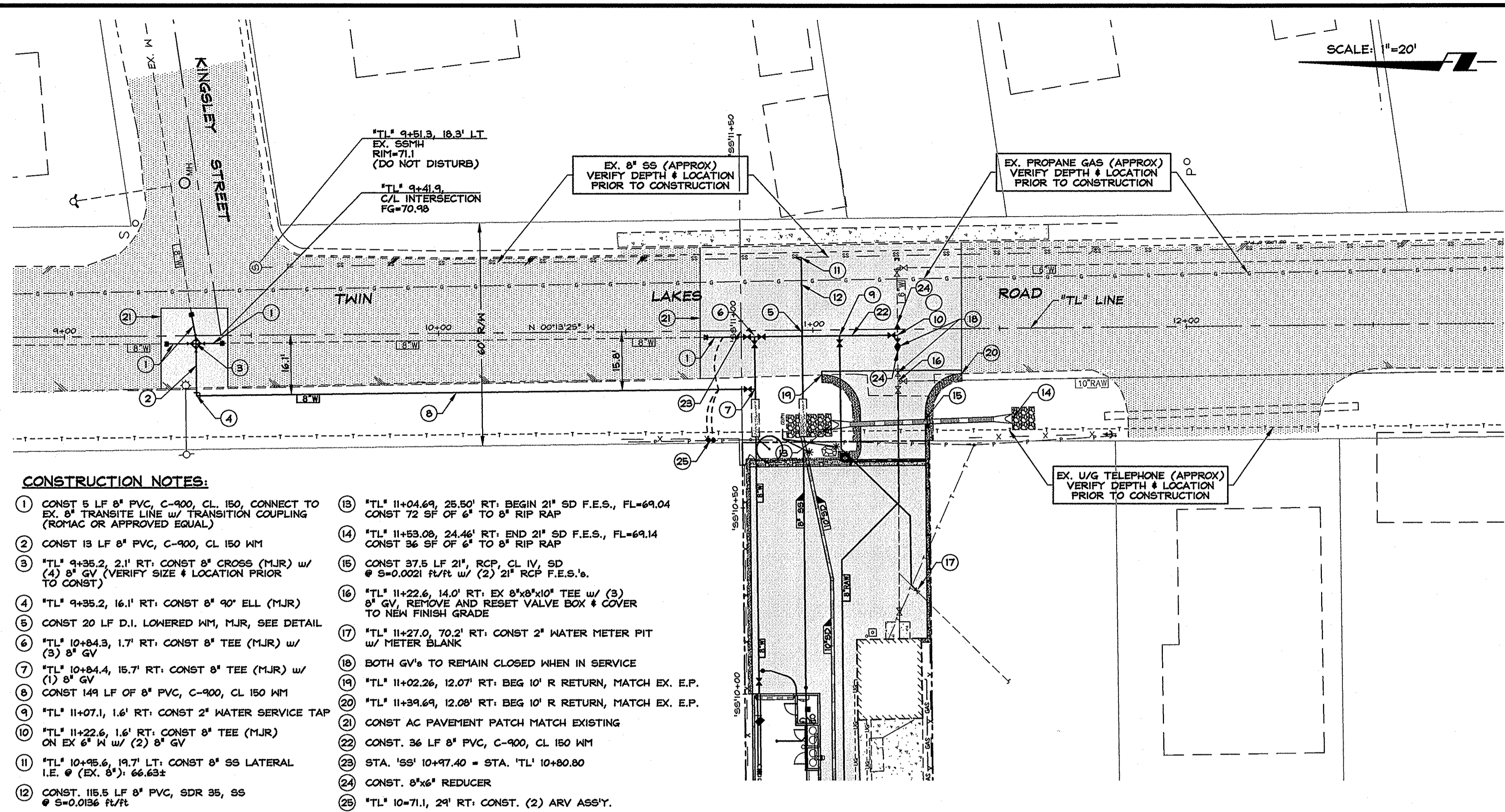
ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

BMP PLAN



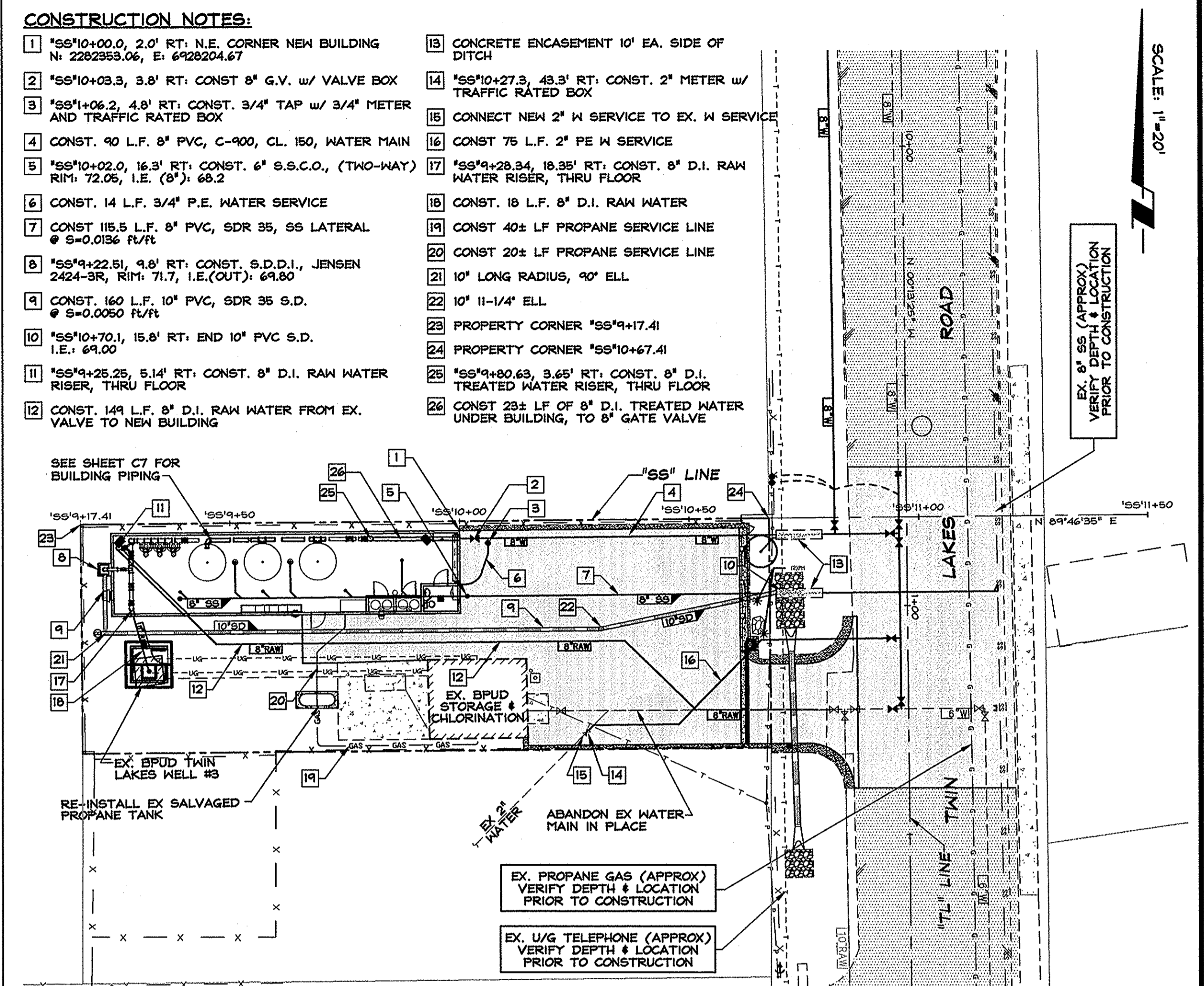
DRAWN: MCR/WAN
 ENGINEER: SJRM
 SCALE: N.T.S.
 DATE: 5/12/17

JOB: 0883-029
 DRAWING: SEE PLOT STAMP
 SHEET: **C9**
 OF: 31 SHEETS



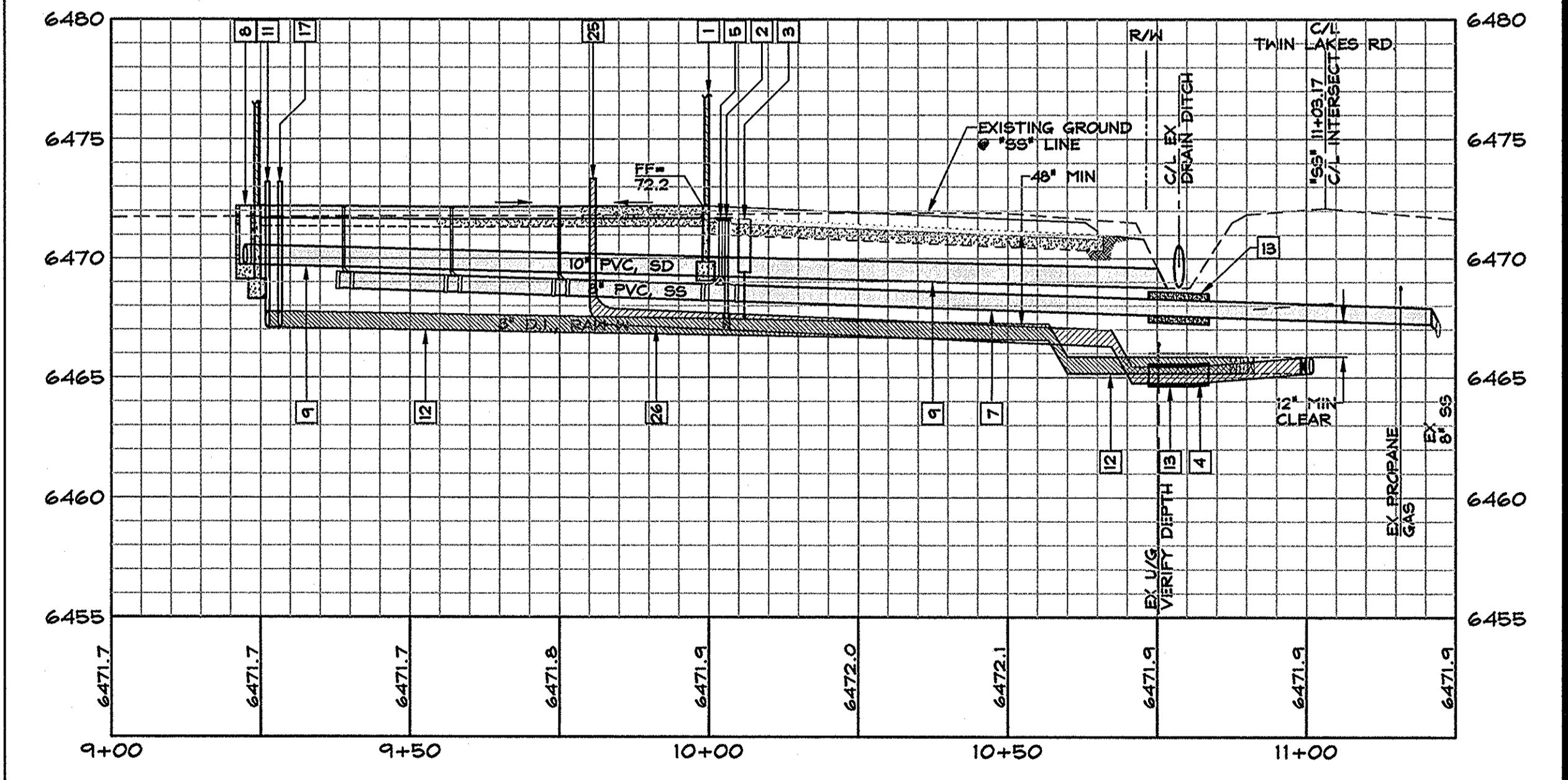
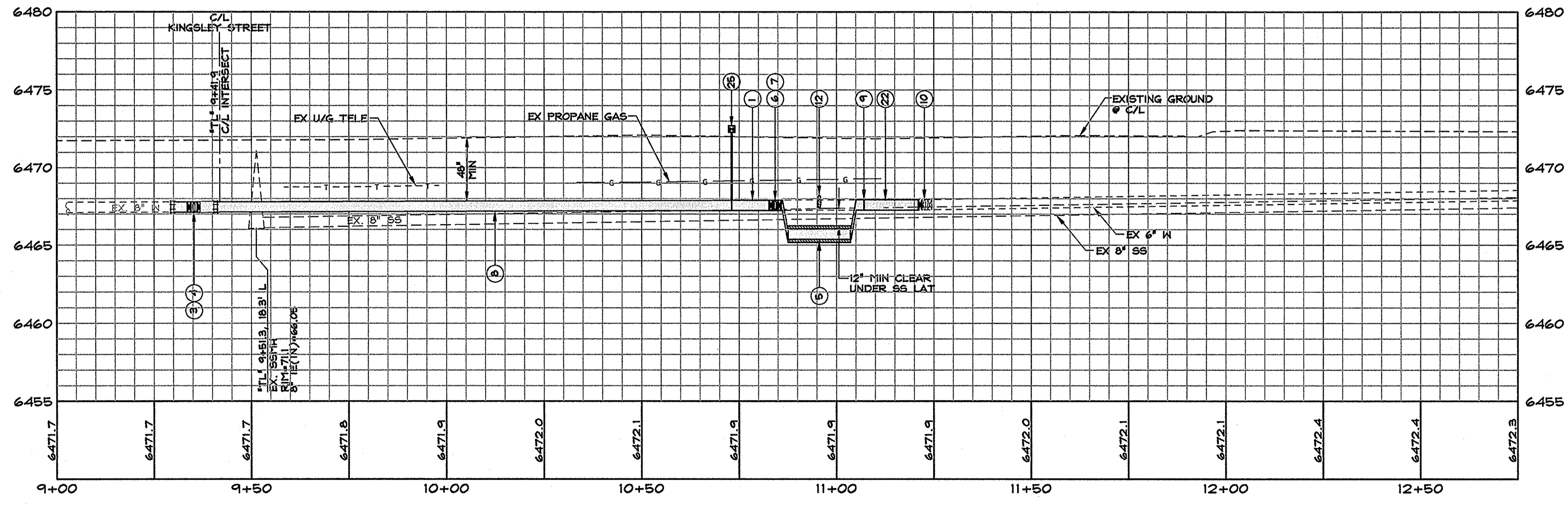
- CONSTRUCTION NOTES:**
- CONST 5 LF 8" PVC, C-900, CL 150, CONNECT TO EX. 8" TRANSITE LINE w/ TRANSITION COUPLING (ROMAC OR APPROVED EQUAL)
 - CONST 13 LF 8" PVC, C-900, CL 150 WM
 - *TL* 9+35.2, 2.1' RT. CONST 8" CROSS (MJR) w/ (4) 8" GV (VERIFY SIZE & LOCATION PRIOR TO CONST)
 - *TL* 9+35.2, 16.1' RT. CONST 8" 90° ELL (MJR)
 - CONST 20 LF D.I. LOWERED WM, MJR, SEE DETAIL
 - *TL* 10+84.3, 1.7' RT. CONST 8" TEE (MJR) w/ (3) 8" GV
 - *TL* 10+84.4, 15.7' RT. CONST 8" TEE (MJR) w/ (1) 8" GV
 - CONST 149 LF OF 8" PVC, C-900, CL 150 WM
 - *TL* 11+07.1, 1.6' RT. CONST 2" WATER SERVICE TAP
 - *TL* 11+22.6, 1.6' RT. CONST 8" TEE (MJR) ON EX 6" W w/ (2) 8" GV
 - *TL* 10+95.6, 19.7' LT. CONST 8" SS LATERAL I.E. @ (EX. 8") 66.632
 - CONST. 115.5 LF 8" PVC, SDR 35, SS @ S=0.0136 FL/FT
 - *TL* 11+04.69, 25.50' RT. BEGIN 21" SD F.E.S., FL=69.04 CONST 72 SF OF 6" TO 8" RIP RAP
 - *TL* 11+53.08, 24.46' RT. END 21" SD F.E.S., FL=69.14 CONST 36 SF OF 6" TO 8" RIP RAP
 - CONST 37.5 LF 21" RCP, CL IV, SD @ S=0.0021 FL/FT w/ (2) 21" RCP F.E.S.'s.
 - *TL* 11+22.6, 14.0' RT. EX 8"x8"x10" TEE w/ (3) 8" GV, REMOVE AND RESET VALVE BOX & COVER TO NEW FINISH GRADE
 - *TL* 11+27.0, 70.2' RT. CONST 2" WATER METER PIT w/ METER BLANK
 - BOTH GVs TO REMAIN CLOSED WHEN IN SERVICE
 - *TL* 11+02.26, 12.07' RT. BEG 10' R RETURN, MATCH EX. E.P.
 - *TL* 11+39.69, 12.08' RT. BEG 10' R RETURN, MATCH EX. E.P.
 - CONST AC PAVEMENT PATCH MATCH EXISTING
 - CONST. 36 LF 8" PVC, C-900, CL 150 WM
 - STA. 'SS' 10+97.40 = STA. 'TL' 10+80.80
 - CONST. 8"x6" REDUCER
 - *TL* 10+71.1, 29' RT. CONST. (2) ARV ASS'Y.

TWIN LAKES ROAD

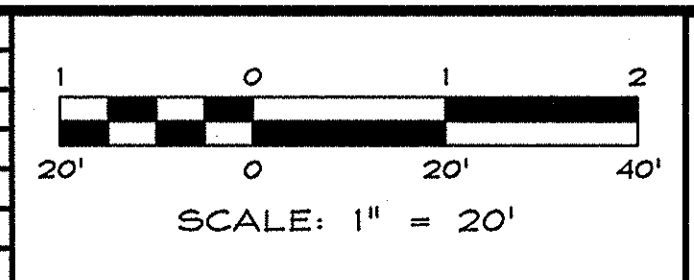


- CONSTRUCTION NOTES:**
- *SS' 10+00.0, 2.0' RT. N.E. CORNER NEW BUILDING N: 2282353.06, E: 6928204.67
 - *SS' 10+03.3, 3.8' RT. CONST 8" G.V. w/ VALVE BOX AND TRAFFIC RATED BOX
 - *SS' 10+06.2, 4.8' RT. CONST. 3/4" TAP w/ 3/4" METER
 - CONST. 90 L.F. 8" PVC, C-900, CL 150, WATER MAIN
 - *SS' 10+02.0, 16.3' RT. CONST. 6" S.S.C.O., (TWO-WAY) RIM: 72.05, I.E. (8") 68.2
 - CONST. 14 L.F. 3/4" P.E. WATER SERVICE
 - CONST 115.5 L.F. 8" PVC, SDR 35, SS LATERAL @ S=0.0136 FL/FT
 - *SS' 9+22.51, 9.8' RT. CONST. S.D.D.I., JENSEN 2424-3R, RIM: 71.7, I.E.(OUT): 69.80
 - CONST. 160 L.F. 10" PVC, SDR 35 S.D. @ S=0.0050 FL/FT
 - *SS' 10+70.1, 15.8' RT. END 10" PVC S.D. I.E.: 69.00
 - *SS' 9+25.25, 5.14' RT. CONST. 8" D.I. RAW WATER RISER, THRU FLOOR
 - CONST. 149 L.F. 8" D.I. RAW WATER FROM EX. VALVE TO NEW BUILDING
 - CONCRETE ENCASEMENT 10' EA. SIDE OF DITCH
 - *SS' 10+27.3, 43.3' RT. CONST. 2" METER w/ TRAFFIC RATED BOX
 - CONNECT NEW 2" W SERVICE TO EX. W SERVICE
 - CONST 75 L.F. 2" PE W SERVICE
 - *SS' 9+28.34, 18.95' RT. CONST. 8" D.I. RAW WATER RISER, THRU FLOOR
 - CONST. 18 L.F. 8" D.I. RAW WATER
 - CONST 402 LF PROPANE SERVICE LINE
 - CONST 202 LF PROPANE SERVICE LINE
 - 10' LONG RADIUS, 90° ELL
 - 10' 11-1/4" ELL
 - PROPERTY CORNER *SS' 9+17.41
 - PROPERTY CORNER *SS' 10+67.41
 - *SS' 9+30.63, 3.85' RT. CONST. 8" D.I. TREATED WATER RISER, THRU FLOOR
 - CONST 235 LF OF 8" D.I. TREATED WATER UNDER BUILDING, TO 8" GATE VALVE

SITE UTILITY PLAN



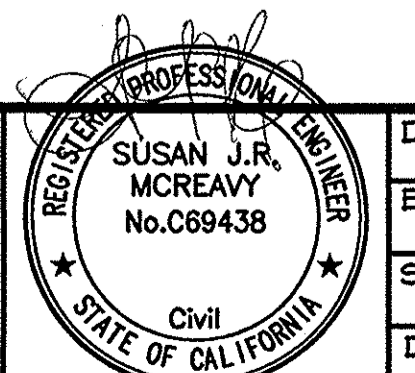
NO.	DATE	REVISION	BLOCK	BY



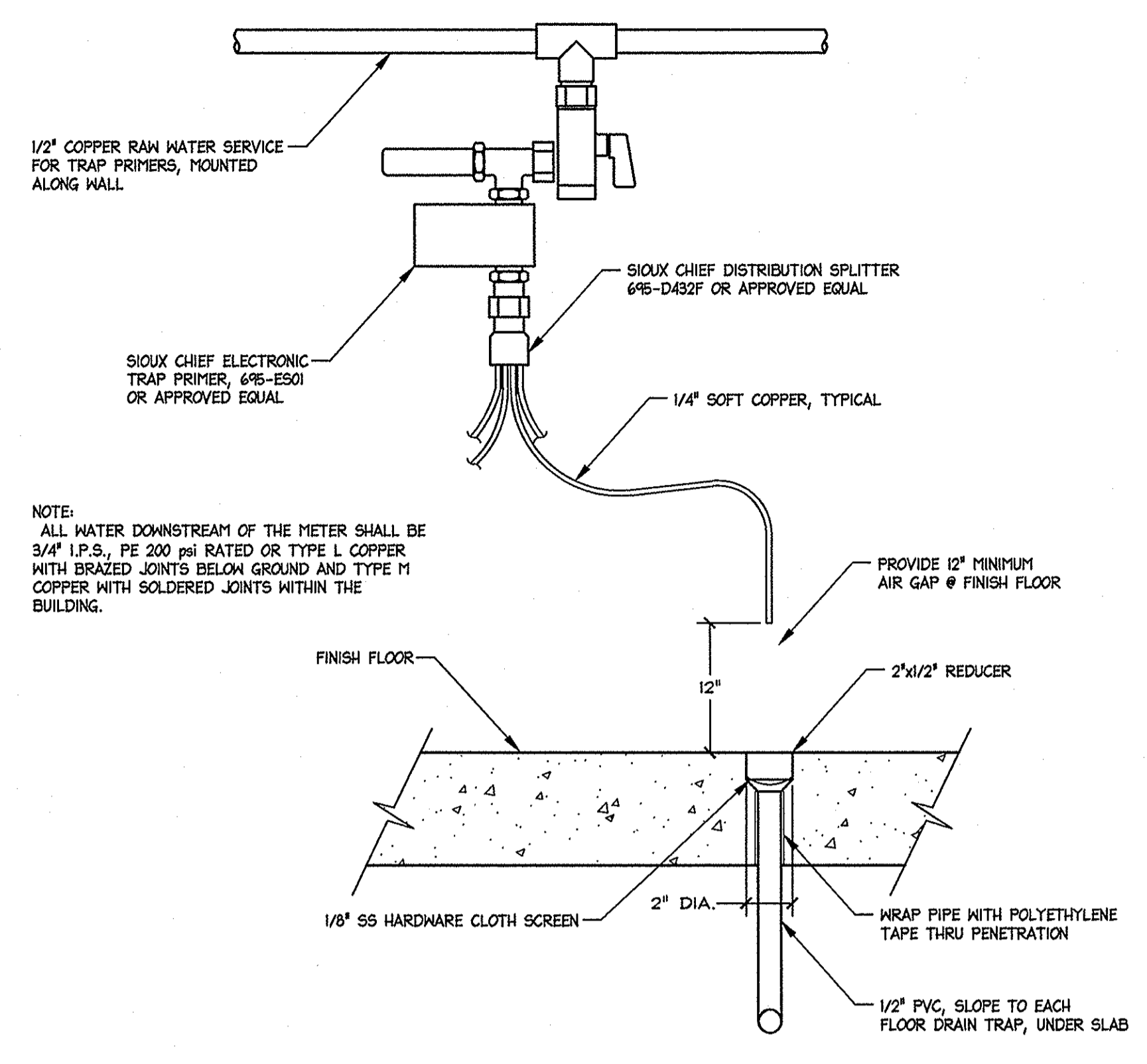
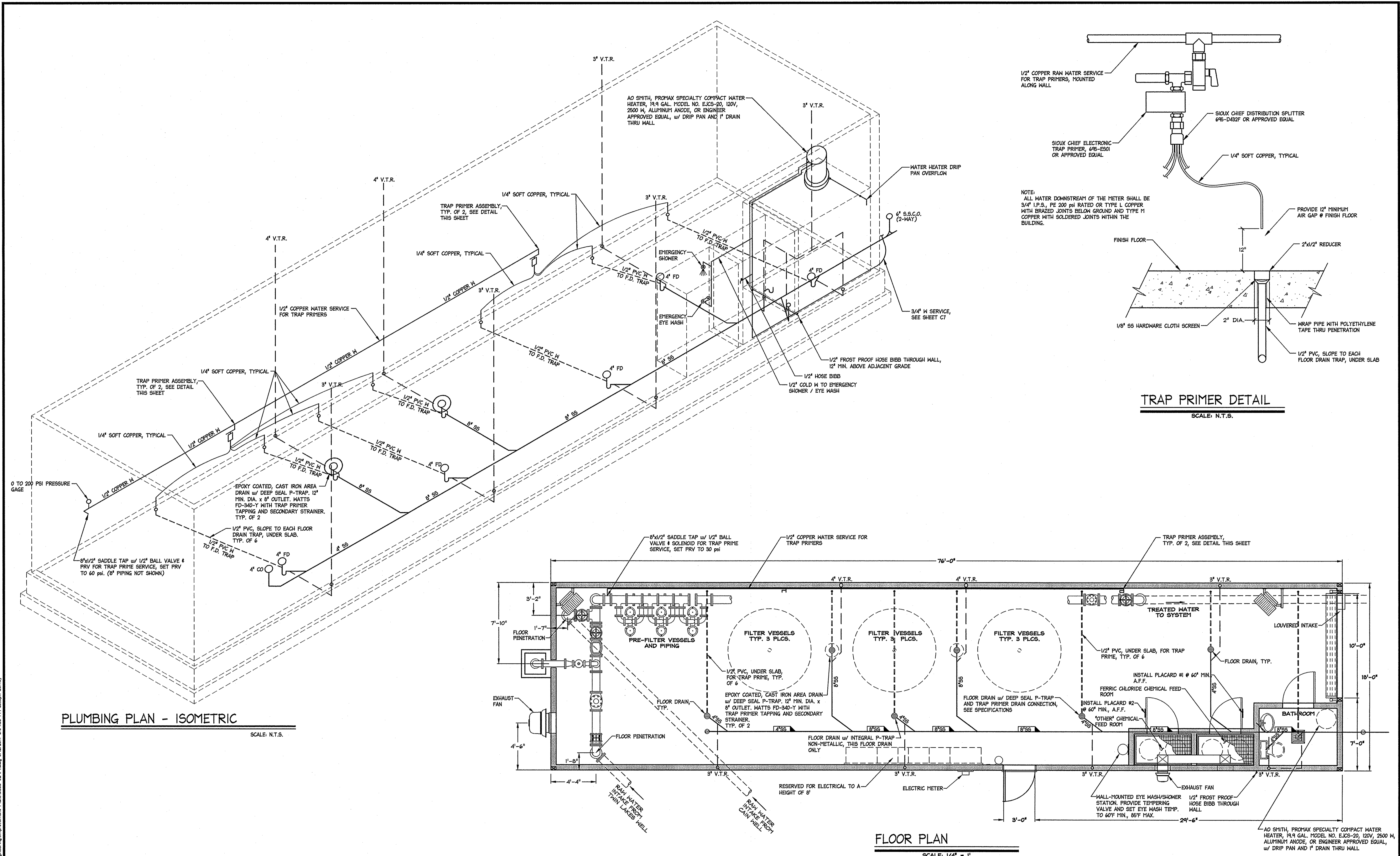
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 1603 ESHERALDA AVENUE / POST OFFICE BOX 2229
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ARSENIC REMOVAL
 BRIDGEPORT PUBLIC UTILITY DISTRICT

TWIN LAKES ROAD
 PLAN & PROFILE



DRAWN: MCR/WAN
 ENGINEER: SJRM
 SCALE: 1" = 20'
 DATE: 5/12/17
 JOB: C883-029
 DRAWING: SEE PLOT STAMP
 SHEET: PPI
 OF: 31 SHEETS

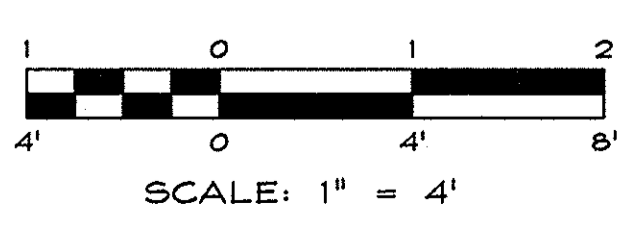


TRAP PRIMER DETAIL
SCALE: N.T.S.

PLUMBING PLAN - ISOMETRIC
SCALE: N.T.S.

FLOOR PLAN
SCALE: 1/4" = 1'

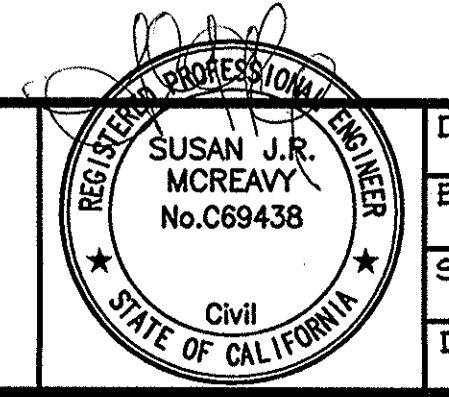
NO.	DATE	REVISION	BLOCK	BY



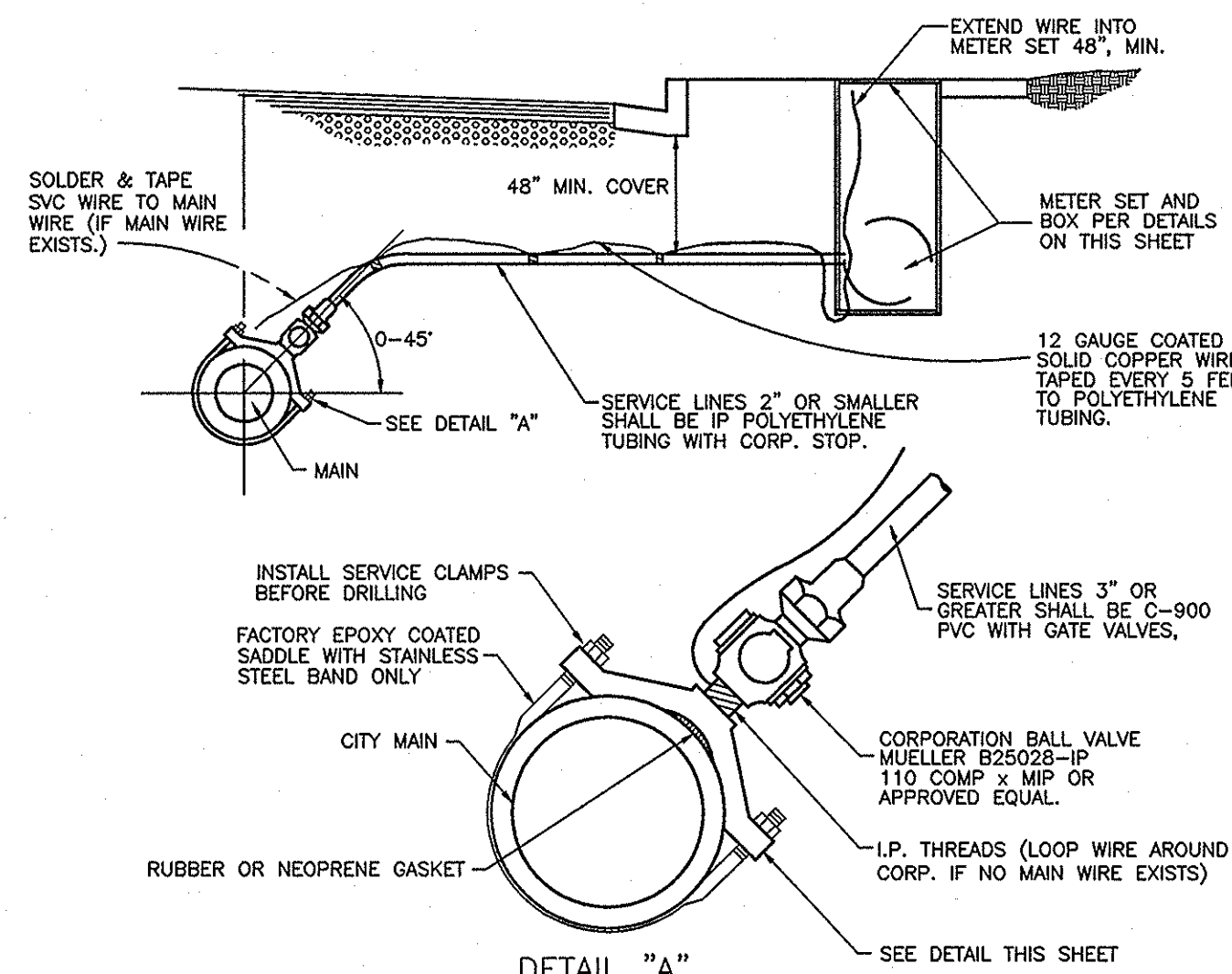
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ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

PLUMBING PLAN

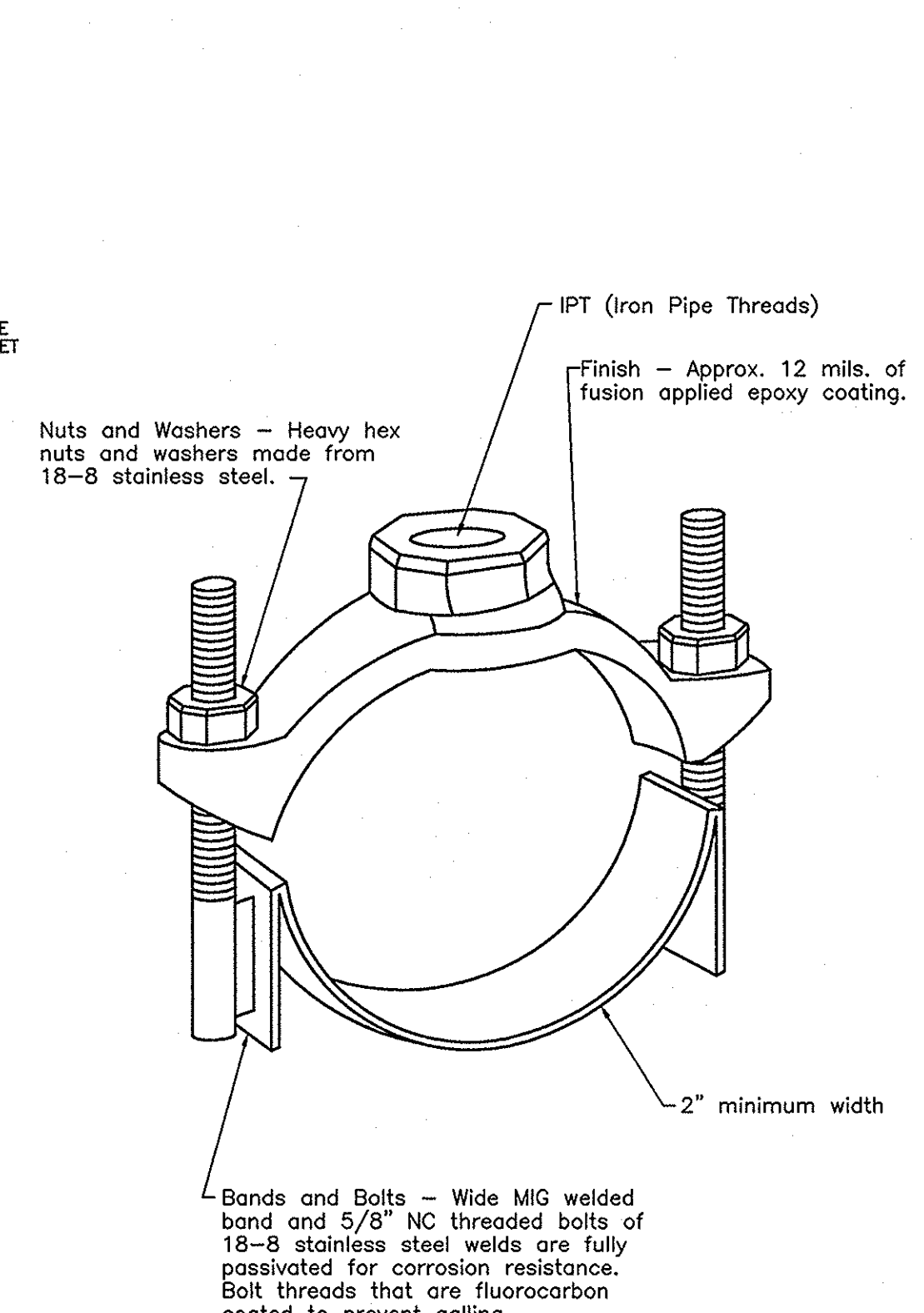


DRAWN: MCR/WAN
ENGINEER: SJRM
SCALE: 1" = 4"
DATE: 5/12/17
JOB: 0883-029
DRAWING: SEE PLOT STAMP
SHEET: P1
OF: 31 SHEETS

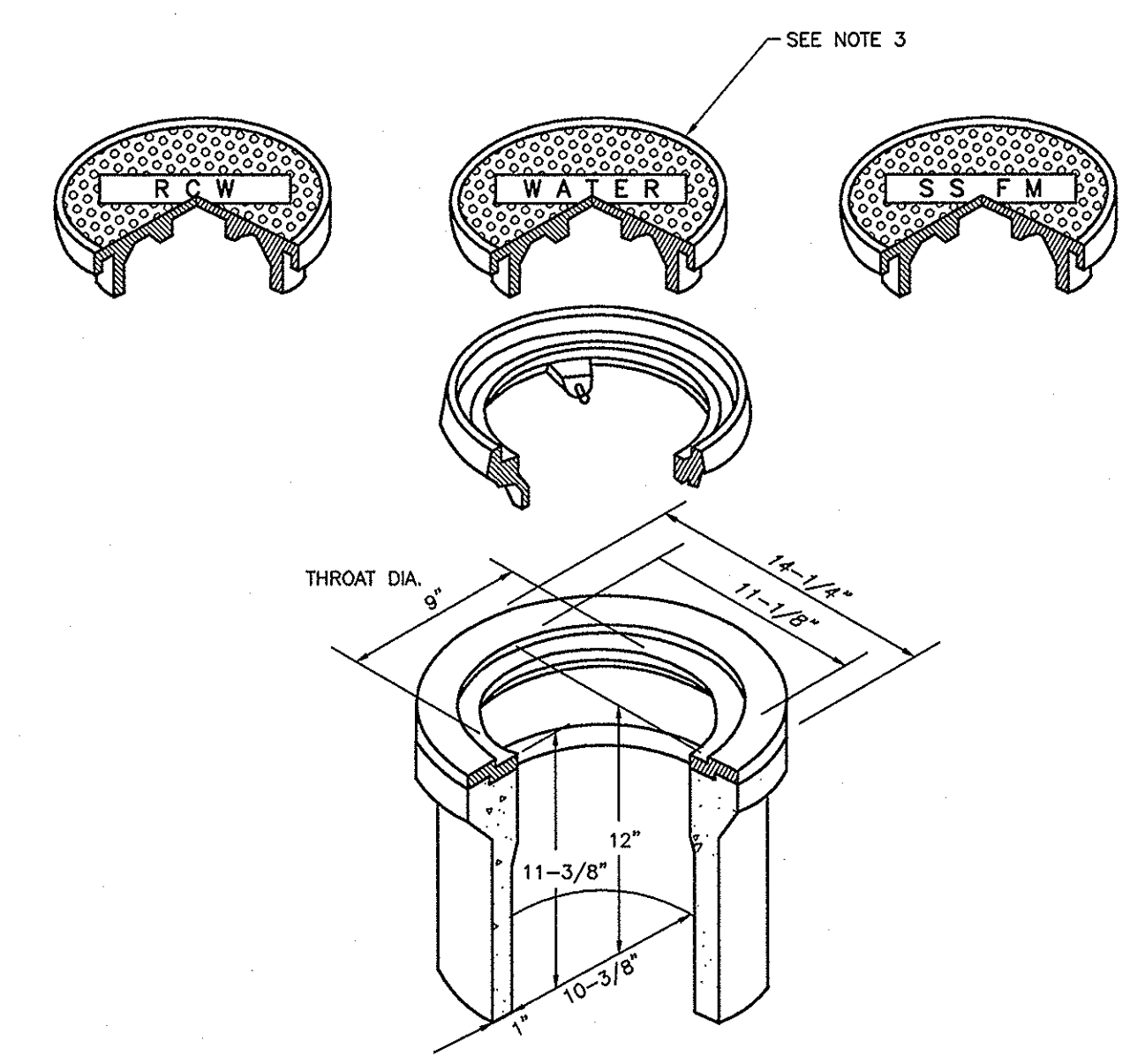


- GENERAL NOTES**
1. ALL SERVICE LINE COUPLING FITTINGS SHALL BE MUELLER CTS 110 COMP. x MIP OR APPROVED EQUAL.
 2. ALL SERVICE VALVES SHALL BE SAME SIZE AS SERVICE LINES (ON 3" SERVICE, USE 4" GATE VALVE AND PIPE).
 3. SERVICE CLAMPS SHALL BE FACTORY COATED EPOXY WITH STAINLESS STEEL BAND.
 4. MINIMUM DISTANCE BETWEEN TAPS AND MAINLINE FITTINGS, INCLUDING BELLS SHALL BE 18".
 5. TAPPING SADDLES 3" OR LARGER SHALL BE STAINLESS STEEL, HAVE A FULL CIRCUMFERENTIAL SEAL AND HAVE EITHER A STAINLESS STEEL OR DUCTILE IRON FLANGE.
 6. UPON ABANDONING OF SERVICE TAP, WATER UTILITY SHALL BE NOTIFIED SO THAT METER CAN BE REMOVED.
 7. ENTRY REQUESTING ABANDONMENT SHALL REMOVE EXISTING METER BOX AND EXPOSE CORP STOP FOR SHUT-OFF. ALL PLUMBING SHALL BE DISCONNECTED FROM CORP AND PLUGGED AT BOTH ENDS. WATER UTILITY SHALL BE NOTIFIED FOR INSPECTION OF CORP ASSEMBLY PRIOR TO BACKFILLING.
 8. TAPPING SADDLE MUST BE AT 45° ANGLE, EXCEPTIONS MUST BE APPROVED.

WATER SERVICE TAP DETAIL
N.T.S.

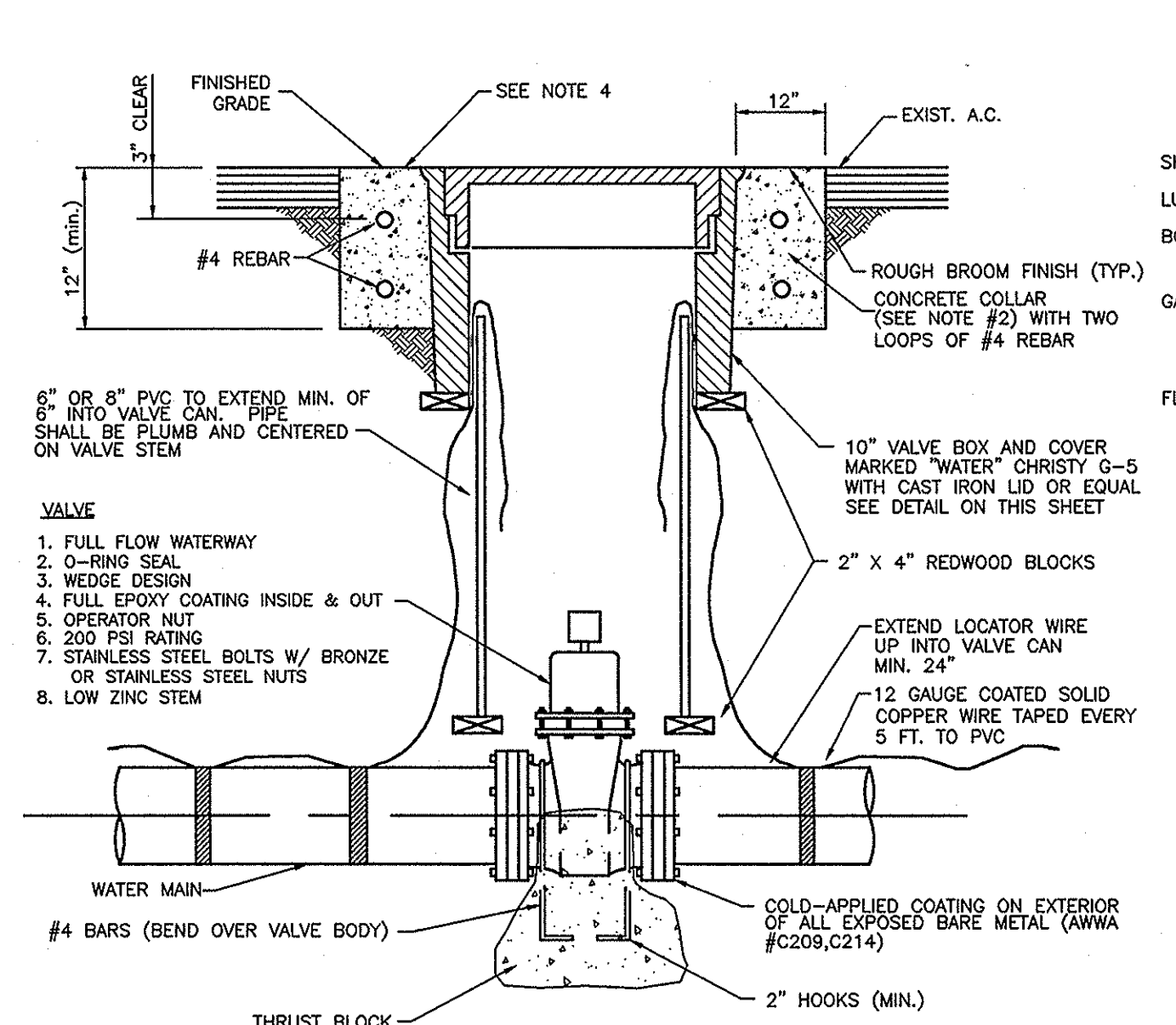


SERVICE SADDLE DETAIL
N.T.S.



- GENERAL NOTES**
1. VALVE BOX MUST BE TRAFFIC RATED. (CHRISTY G-5 BOX OR EQUAL)
 2. MIN. OF 10" INSIDE DIAMETER.
 3. CAST IRON LID MARKED "WATER" FOR WATER LINE APPLICATIONS. CAST IRON LID MARKED "RECLAIMED WATER" OR "RW" WHEN INSTALLED ON A RECLAIMED WATER MAIN. LID SHALL BE MARKED "SS FORCE MAIN" OR "SS FM" WHEN INSTALLED ON A SANITARY SEWER FORCE MAIN.
 4. RISER OF 6" OR 8" PVC EXTENDED IN VALVE CAN MIN. OF 6".
 5. TORQUE BOLTS TO MANUFACTURER'S RECOMMENDATIONS.
 6. ALL NEW VALVE BOXES TO BE SET TO GRADE PER DETAIL ON THIS SHEET. ONLY ONE GRADE RING PER VALVE BOX.

VALVE BOX DETAIL
N.T.S.



- GENERAL NOTES**
1. SEE DETAIL ON THIS SHEET FOR THRUST BLOCK SIZE. (MATERIAL USED FOR THRUST BLOCKING SHALL NOT PREVENT ACCESS TO THE BOLT ASSEMBLY).
 2. CONCRETE SHALL BE 4,000 psi COMPRESSIVE STRENGTH AND WITHSTAND FREEZE/THAW ENVIRONMENTS.
 3. IN ALL AREAS, LIDS SHALL BE SET FLUSH WITH FINISHED GRADE UNLESS OTHERWISE NOTED.
 4. THE CONCRETE COLLAR SHALL BE FLUSH WITH SURROUNDING PAVEMENT. APPLY BLACK COLORANT TO SURFACE OF CONCRETE.
 5. SPLICES IN WIRE SHALL BE CONNECTED BY SOLDER OR WIRE NUTS AND WRAPPED WITH UL LISTED ELECTRICAL TAPE.

VALVE DETAIL
N.T.S.

MATERIAL SPECIFICATIONS

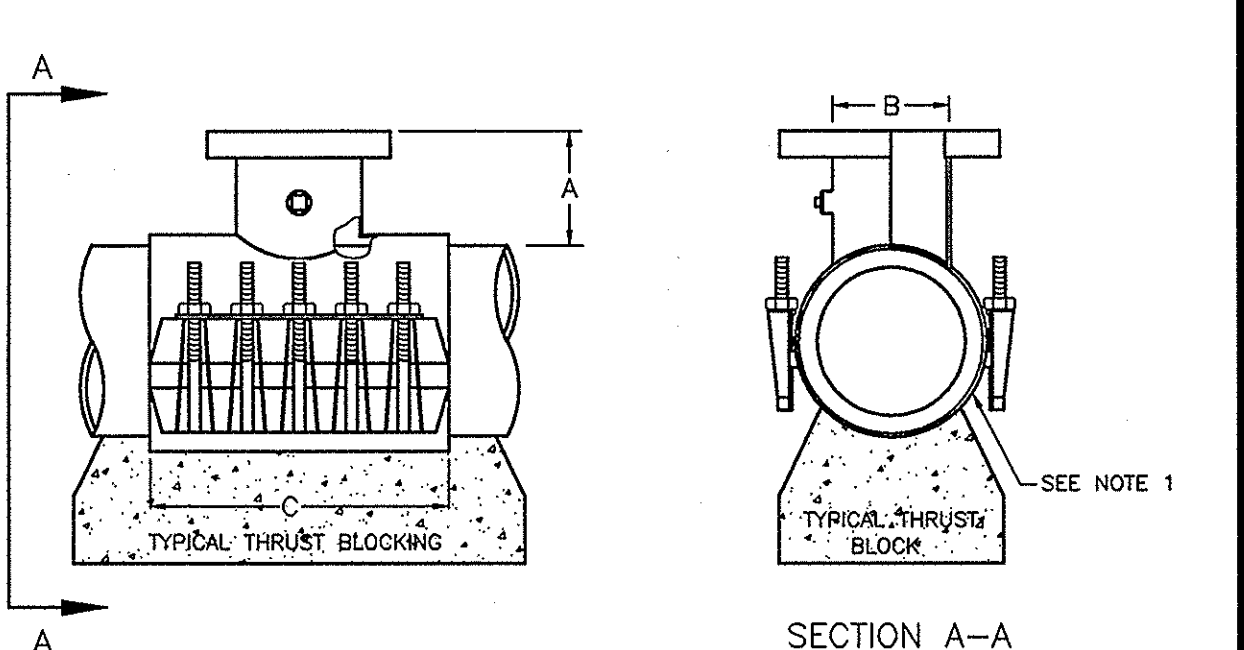
SHELL: 304 Stainless Steel
LUGS: 304 Stainless Steel
BOLTS, WASHERS AND NUTS: NC Rolled Thread 304 Stainless Steel, 5/8" diameter.

NOM. FLANGE	A	B	C	NO. BOLTS
4	5-1/32	16	10	
6*	4-1/2	7-1/32	16	10
8*	4	9-1/32	20	14
10	5-1/2	11-1/32	24	16
12**	6-1/2	13-1/32	30	30

GASKETS: Virgin SBR compounded for water service. ASTM D2000-SOMA 44A67 Full Gasket. 360° Pipe compound 150 PSI working pressure.

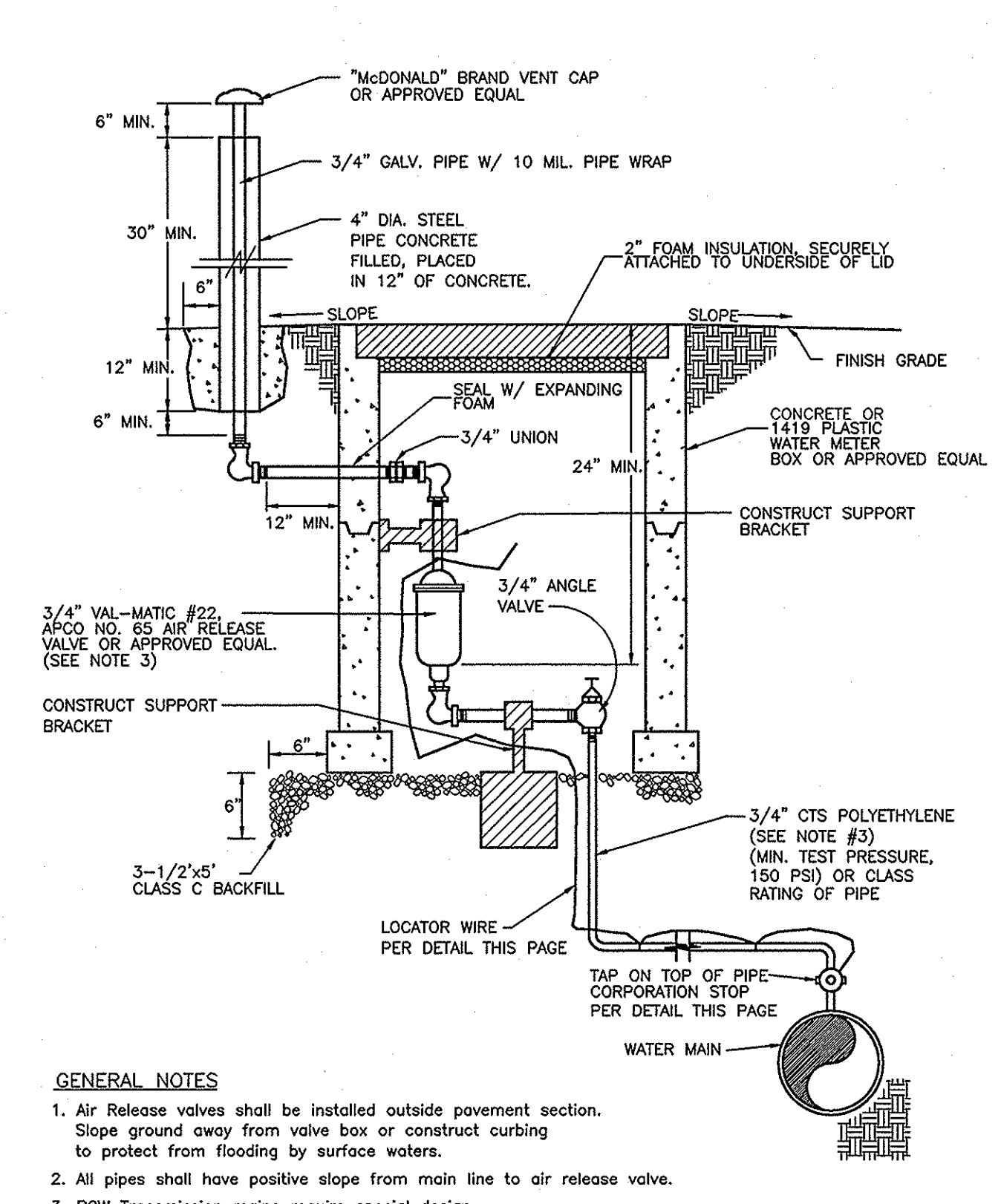
FLANGE: 304 Stainless steel or high tensile ductile (nodular) iron, ASTM A536-80, grade 65-45-12.

*Tapping sleeves in the 24" Nominal Pipe Size range with 6 or 8" flanges are 24" long (C-dimension) and have 24" bolts.
**Tapping sleeves in the 12" & 14" Nominal Pipe Size range w/ 12" flange are 24" long and have 24 bolts.



- GENERAL NOTES**
1. Material used for Thrust Blocking shall not prevent the access to the bolt assembly.
 2. Minimum distance between tops, collars, joints, service tops, etc. shall be 18".
 3. Saddle to be pressure tested to class rating of the pipe prior to tap.

TAPPING SLEEVE DETAIL
N.T.S.



- GENERAL NOTES**
1. Air Release valves shall be installed outside pavement section. Slope ground away from valve box or construct curbing to protect from flooding by surface waters.
 2. All pipes shall have positive slope from main line to air release valve.
 3. RCW Transmission mains require special design.

AIR RELEASE VALVE DETAIL
N.T.S.

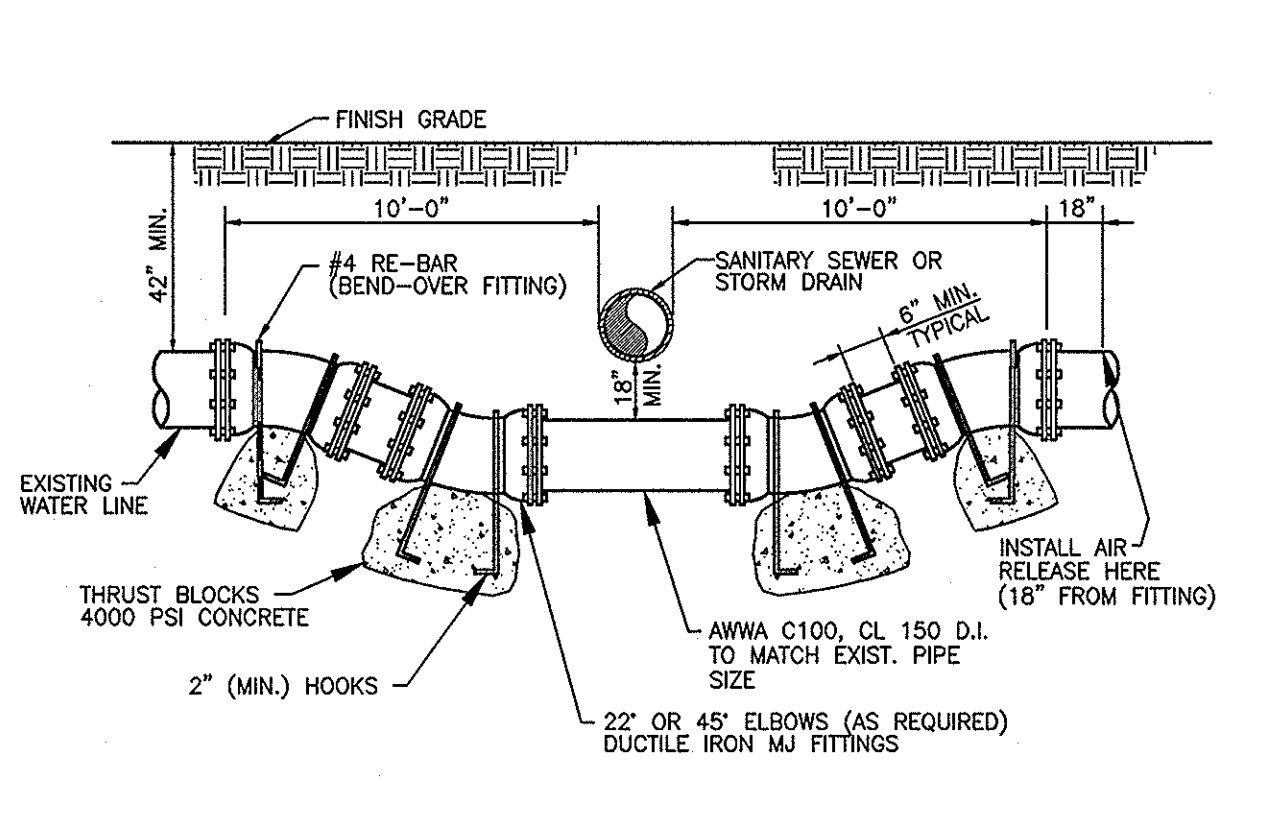
Type of Fitting	90° Bend	45° Bend	11.25° or 22.5° Bend
Typical Installation			
Type of Fitting	Tee or Dead End	Cross w/Plug	Tee w/Plug
Typical Installation			

Thrust Block Bearing Area - Square Feet

Type of Fitting	90° Bend	45° Bend	11.25° or 22.5° Bend	Tee or Dead End	Cross w/Plug	Tee w/Plug
4"	2	1	1	2	2	2
6"	5	3	2	4	5	5
8"	8	5	3	6	8	8
10"	13	7	4	9	13	13
12"	18	10	5	13	18	18
14"	25	13	7	17	25	25
16"	32	17	9	23	32	32

- NOTE:**
1. CONCRETE FOR THRUST BLOCKS SHALL BE 4,000 psi COMPRESSIVE STRENGTH.
 2. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
 3. JOINTS AND FACE OF PLUGS SHALL BE KEPT CLEAR OF CONCRETE.
 4. THRUST BLOCK BEARING AREAS ARE FOR A 150 PSI TEST PRESSURE WITH 2000 PSF BEARING CAPACITY, NOMINAL PIPE DIAMETER, AND A FACTOR OF SAFETY OF 1.5 INSTALLATIONS USING DIFFERENT TEST PRESSURES, AND/OR SOIL TYPES SHALL BE ADJUSTED BY THE DESIGN ENGINEER.

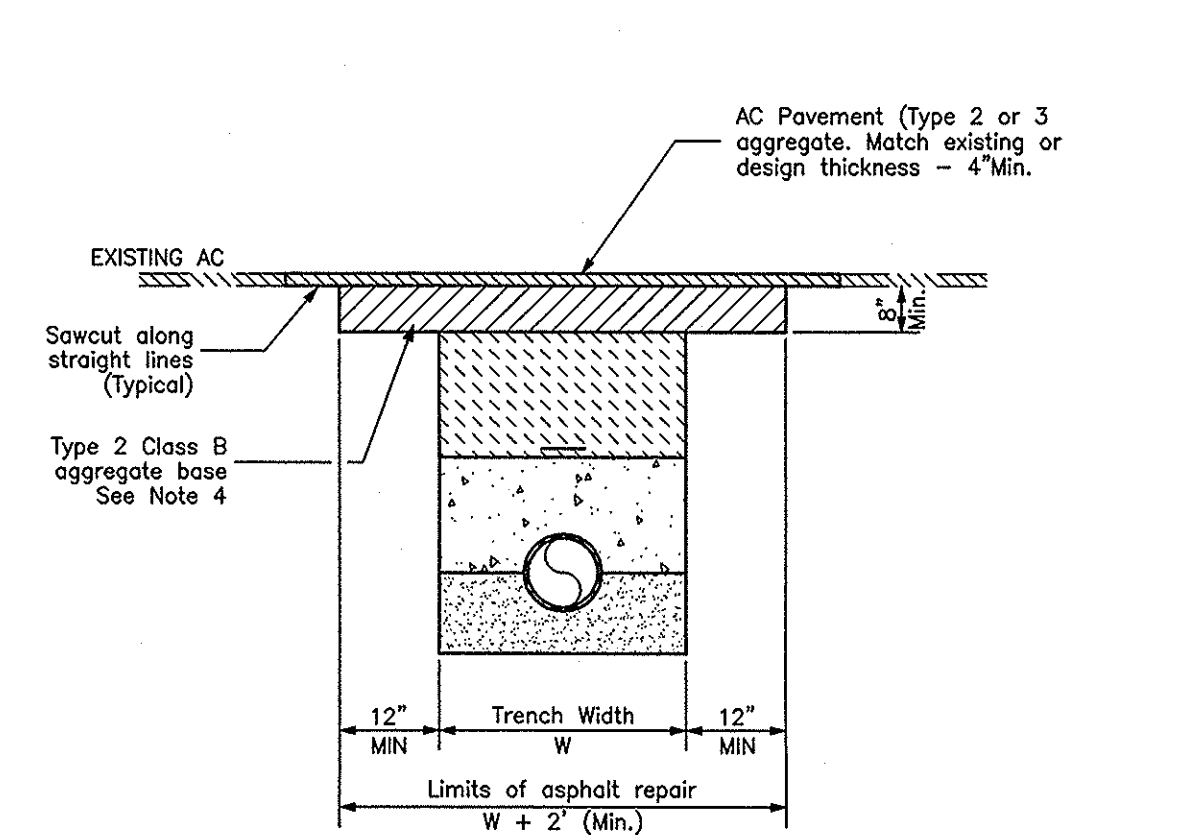
THRUST BLOCK DETAILS
N.T.S.



TYPICAL CROSSING DETAIL
N.T.S.

- GENERAL NOTES**
1. WATER LINES 12" AND LARGER SHALL REQUIRE SPECIAL DESIGN, AND APPROVAL BY BRIDGEPORT PUBLIC UTILITIES DEPARTMENT.
 2. THE ASSEMBLY ABOVE WILL BE INSTALLED USING DUCTILE IRON MECHANICAL JOINT FITTINGS WITH RESTRAINING GLANDS.
 3. ALL BOLTS TO BE TAR COATED.
 4. UPON APPROVAL OF B.P.U.D., THE ABOVE ASSEMBLY MAY BE REPLACED WITH A WELDED STEEL "SPOOL" OF EQUIVALENT DIAMETER, PRIMED AND WRAPPED (10 MILS MIN.), CONNECT TO EXISTING LINES USING MECHANICAL JOINTS. STEEL SPOOL SHALL BE CONSTRUCTED BY A CERTIFIED WELDER AND PRESSURE CHECKED IN ACCORDANCE WITH SPECIFICATIONS. ALL BOLTS TO BE TAR COATED.
 5. CONCRETE FOR THRUST BLOCKS SHALL NOT INTERFERE WITH THE REMOVAL OF BOLTED ASSEMBLIES.
 6. AIR-RELEASE TO BE INSTALLED ON BOTH SIDES OF CROSSING. (18" MIN. FROM ANY FITTING). ONE AIR RELEASE MAY BE USED WITH ONE LINE TO EACH SIDE OF CROSSING.
 7. ROUTING WATER LINE OVER SEWER LINE OR "ROPING" UNDER SEWER LINE REQUIRES APPROVAL BY BRIDGEPORT PUBLIC UTILITY DISTRICT.
 8. FOR PURPOSES OF SEPARATION AND PROTECTION OF THE WATER SUPPLY, RECLAIMED WATER SHALL BE CONSIDERED A SEWER LINE.

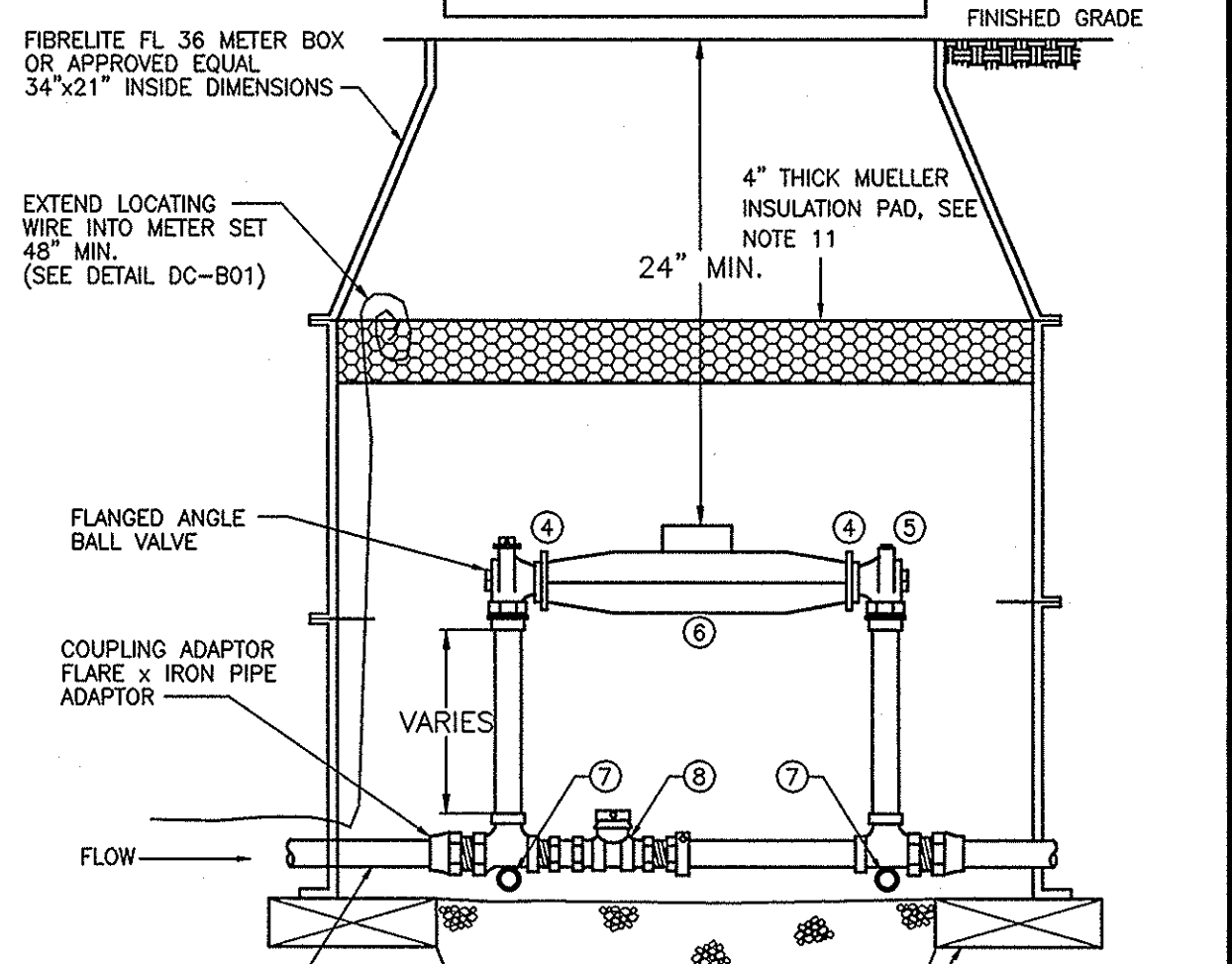
LOWERING WATER MAINS
N.T.S.



PAVEMENT PATCH DETAIL
N.T.S.

- NOTE:**
1. Surface tolerances for AC Pavement repair shall be determined by placing an approved metal straight edge across the repaired section. Surface tolerances shall be measured from the base of the straight edge to the existing pavement or pavement repair section and shall not exceed a vertical tolerance of 0.02" (1/4") Pavement repairs not meeting these tolerances shall be removed and replaced to establish the required tolerance.
 2. Place sand seal on completed trench repair section overlapping coverage 18" minimum onto existing pavement on all sides of the repaired section.
 3. If Roadway has been chip sealed within the past 2 years, repair shall also be chip sealed with minimum 12" overlap onto pavement.
 4. One Sack Slurry Mix shall be used in trenches less than 12" in width.
 5. Asphalt concrete and materials shall conform to the project specifications.
 6. Type 2 Class B Aggregate Base shall conform to the project specifications and be mechanically compacted to 95% maximum dry density.

PAVEMENT PATCH DETAIL
N.T.S.



- NOTES AND KEY PARTS**
1. USE A TRAFFIC RATED LID AND BOX WITH READING LID IN ALL TRAFFIC AREAS.
 2. METER SHALL BE INSTALLED SO AS TO ACHIEVE A WATER TIGHT SEAL.
 3. CUT TWO PIECES OF 1" PIPE 18" LONG AND INSTALL THROUGH THE BRACE EYE SUPPORTS.
 4. SINGLE METER GASKET.
 5. FLANGED ANGLE BALL CHECK VALVE.
 6. WATER METER BLANK.
 7. BRACE EYE SUPPORTS.
 8. BY-PASS BALL VALVE WITH LOCKABLE CAP.
 9. POLYETHYLENE SHUTTING (SIZE AS REQUIRED BY UTILITY). MINIMUM TEST 200 PSI OR CLASS RATING OF PIPE.
 10. A CUSTOMER SHUT OFF VALVE ON THE DOWNSTREAM SIDE OF THE METER MAY BE REQUIRED BY WATER UTILITY. CONTRACTOR TO VERIFY WITH WATER UTILITY.
 11. 4" THICK MUELLER INSULATION PAD IN TWO TIGHT FITTING PIECES TO ALLOW REMOVAL AND REINSTALLATION.

1-1/2" - 2" METER SET
N.T.S.

NO.	DATE	REVISION	BLOCK	BY

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ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

DETAILS

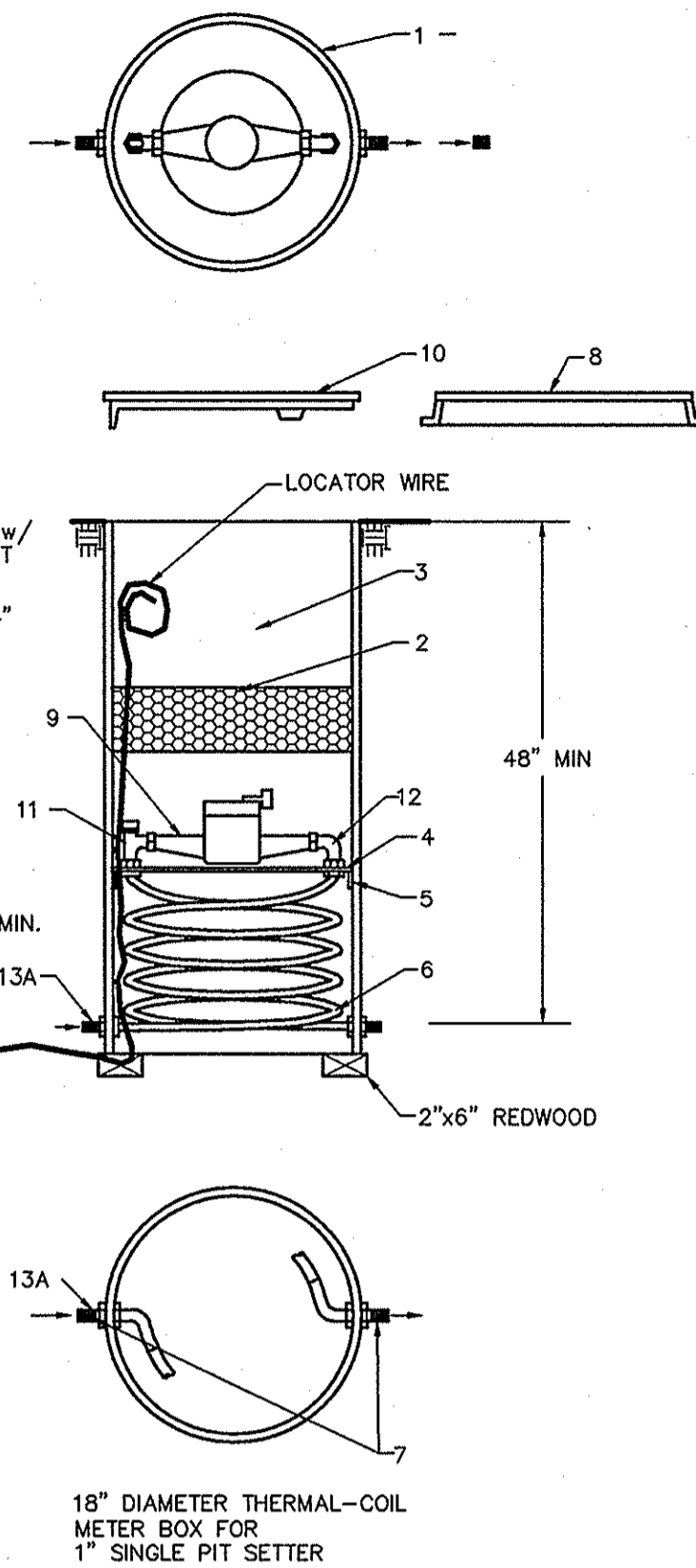
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ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: N.T.S.	SHEET: D1
DATE: 5/12/17	OF: 31 SHEETS

LEGEND

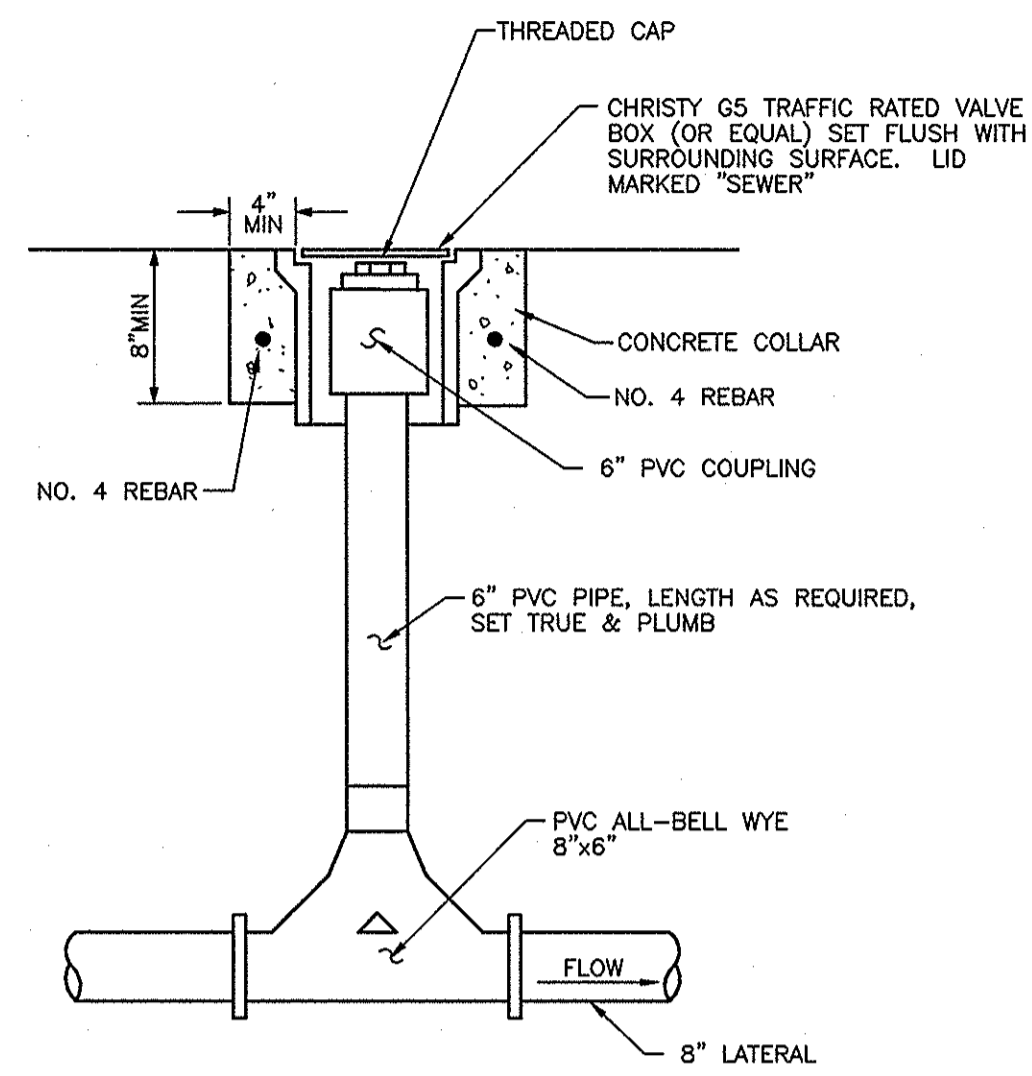
1. PVC BOX MIN. WALL THICKNESS 0.300"
2. 4" INSULATING PAD
3. AIR SPACE
4. PLATFORM
5. PLATFORM SUPPORT
6. POLYBUTYLENE TUBING CLASS 250
7. I.P. THREADS
8. CAST IRON LOCKING LID w/ FRAME FOR PARKING LOT INSTALLATIONS
9. WATER METER, 5/8"x3/4" MUELLER 420 SERIES COMPOSITE METER
10. CAST IRON LOCKING LID
11. MUELLER VALVE OR APPROVED EQUAL (NO. 14285)
12. MUELLER ANGLE CHECK VALVE OR EQUAL
- 13A. INLET LINE TO BE 3/4" MIN.

GENERAL NOTES

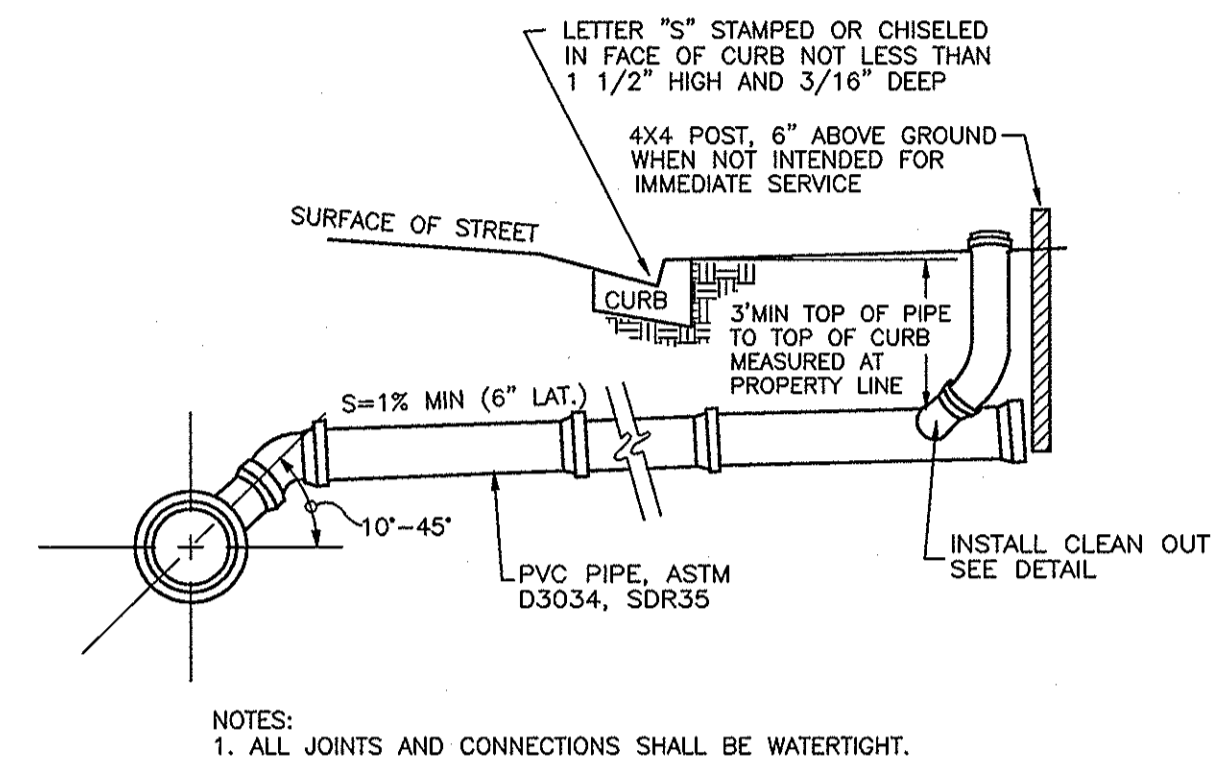
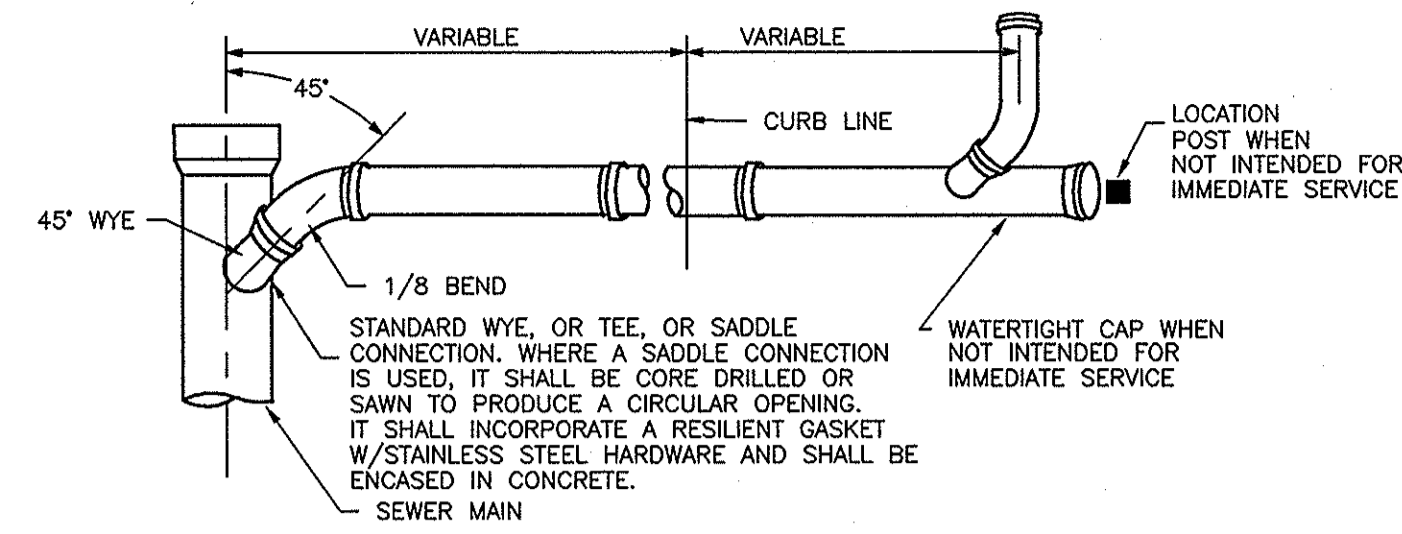
- 1) SERVICE LINE-SIZE AS SHOWN HEREON (1") WITH COUPLING ADAPTOR.



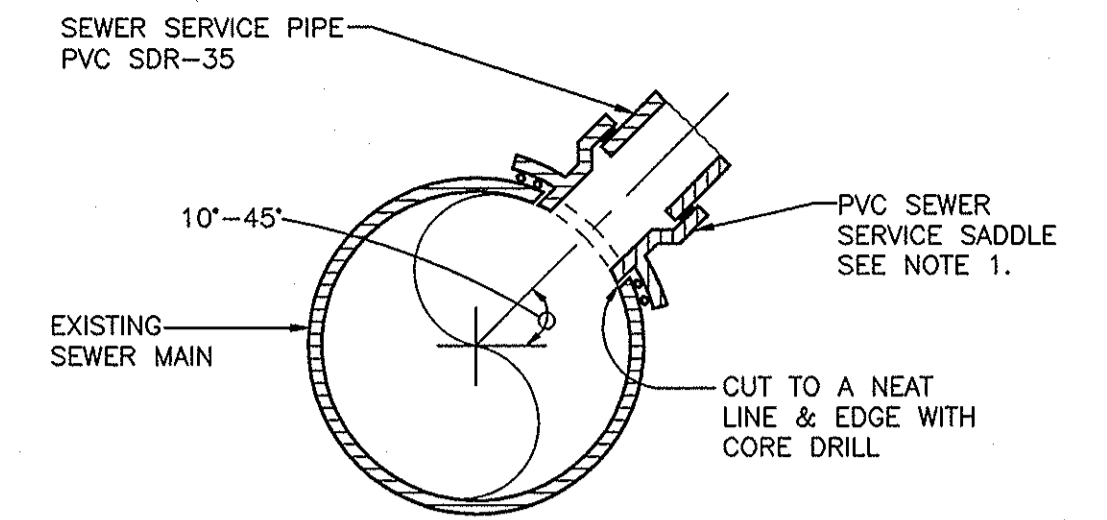
3/4" SINGLE PIT SETTER
NO SCALE



9.5. CLEAN-OUT (TWO WAY)
NO SCALE



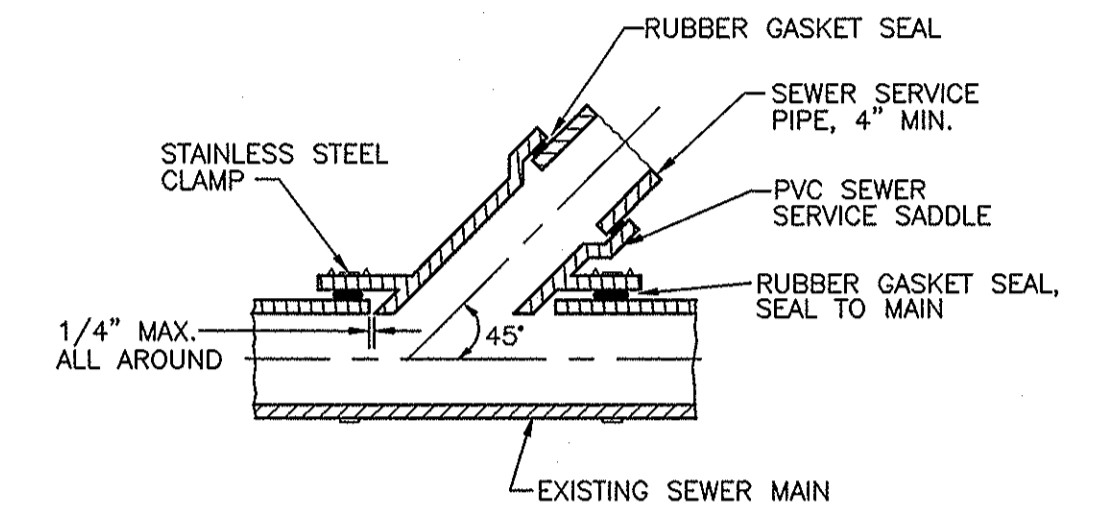
TYPICAL SEWER LATERAL
NO SCALE



NOTE:

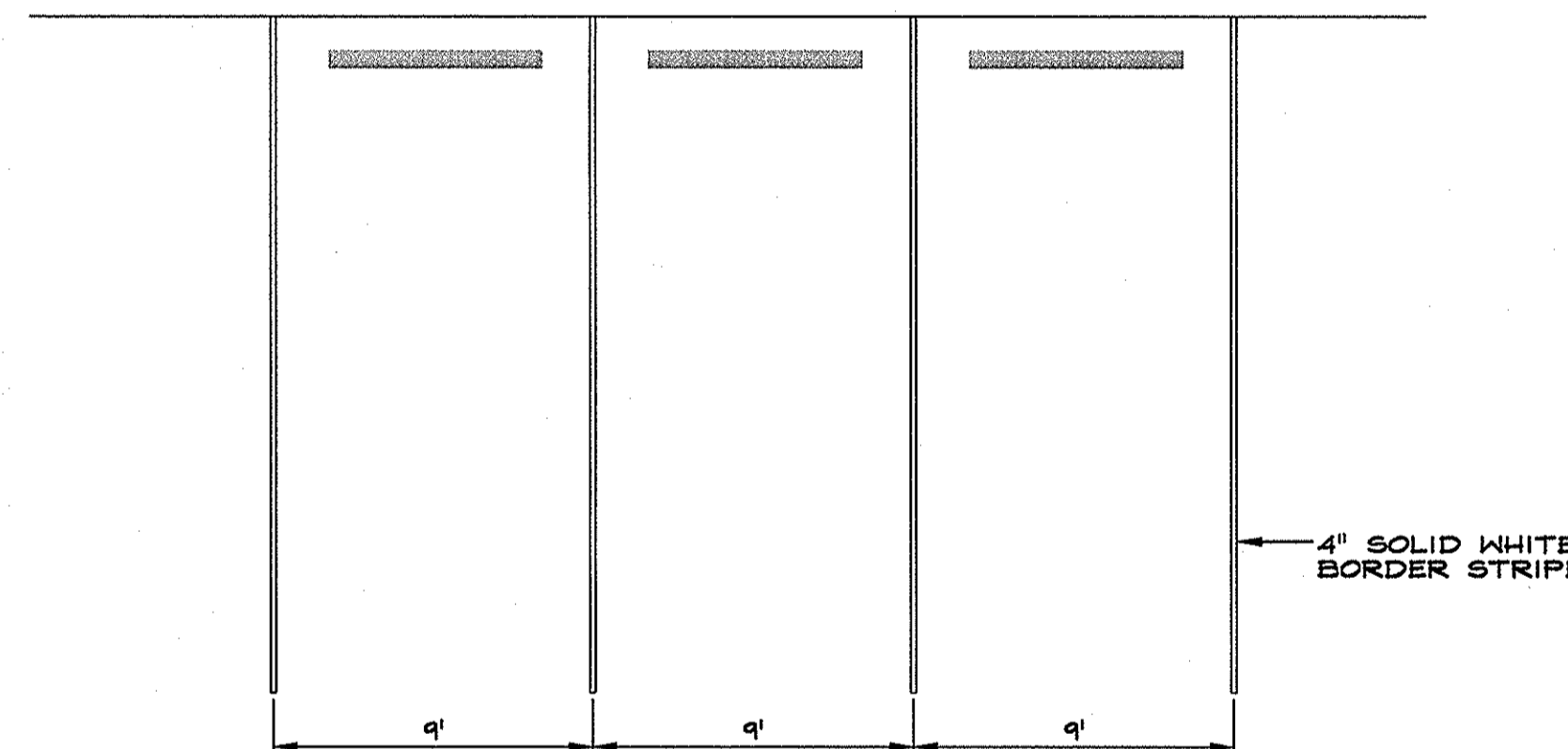
1. ROMAC "CB" SEWER SADDLES OR EQUAL MAY BE USED ON SEWER MAINS OTHER THAN PVC.
2. SEWER SERVICE SADDLE SHALL BE ENCASED IN CONCRETE.

FRONT VIEW



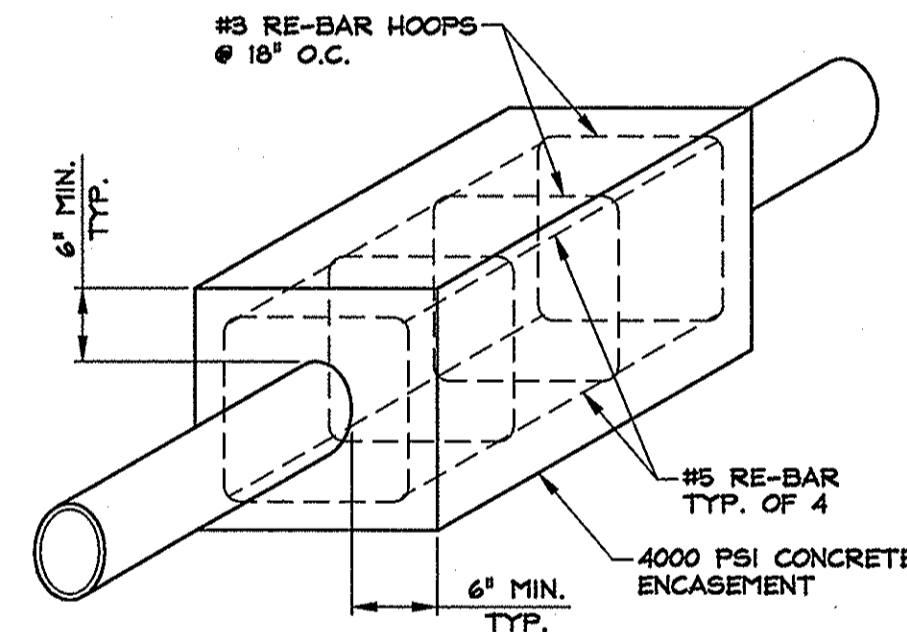
SIDE VIEW

SEWER SERVICE SADDLE
NO SCALE

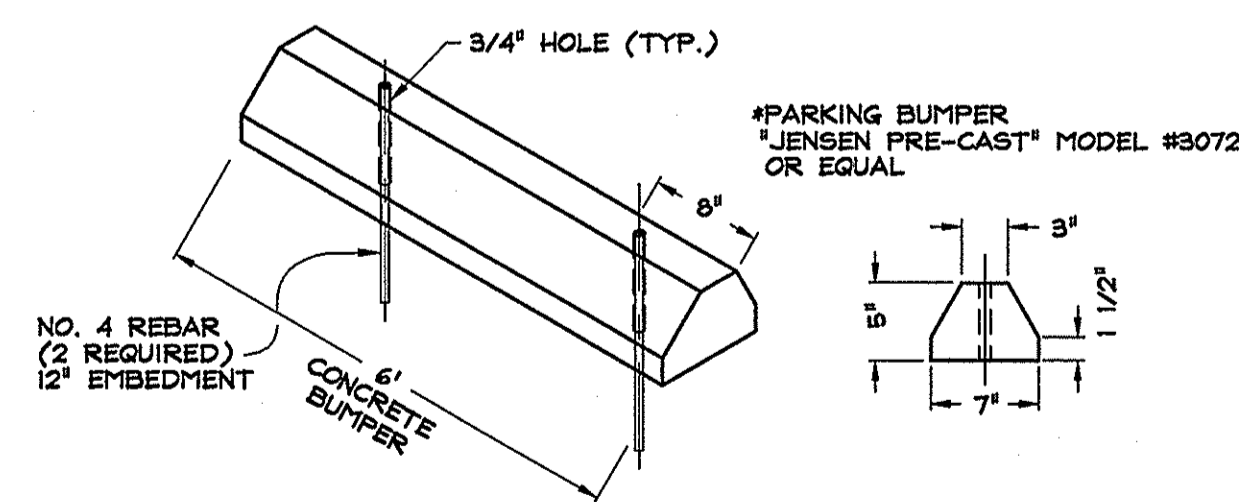


PARKING STALL DETAIL
NO SCALE

- NOTES:**
1. PAVEMENT MARKINGS SHALL BE COLORED AS NOTED.
 2. PAINT SHALL BE READY-MIXED, LEAD-FREE, WATER-BASED & FORMULATED FOR TRAFFIC LANE STRIPING WITH REFLECTIVE GLASS BEADS.
 3. PAINT SHALL MEET REQUIREMENTS OF TT-P-1082B.
 4. REFER TO GRADING PLAN SHEETS FOR SPECIFIC GRADES & SLOPES.



CONCRETE ENCASEMENT DETAIL
NO SCALE



WHEELSTOP
NO SCALE

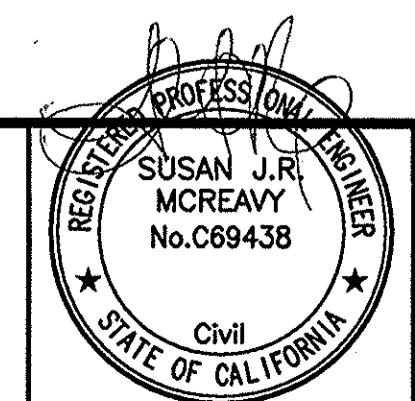
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NO.	DATE	REVISION BLOCK	BY

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1609 ESHERALDA AVENUE / POST OFFICE BOX 2229
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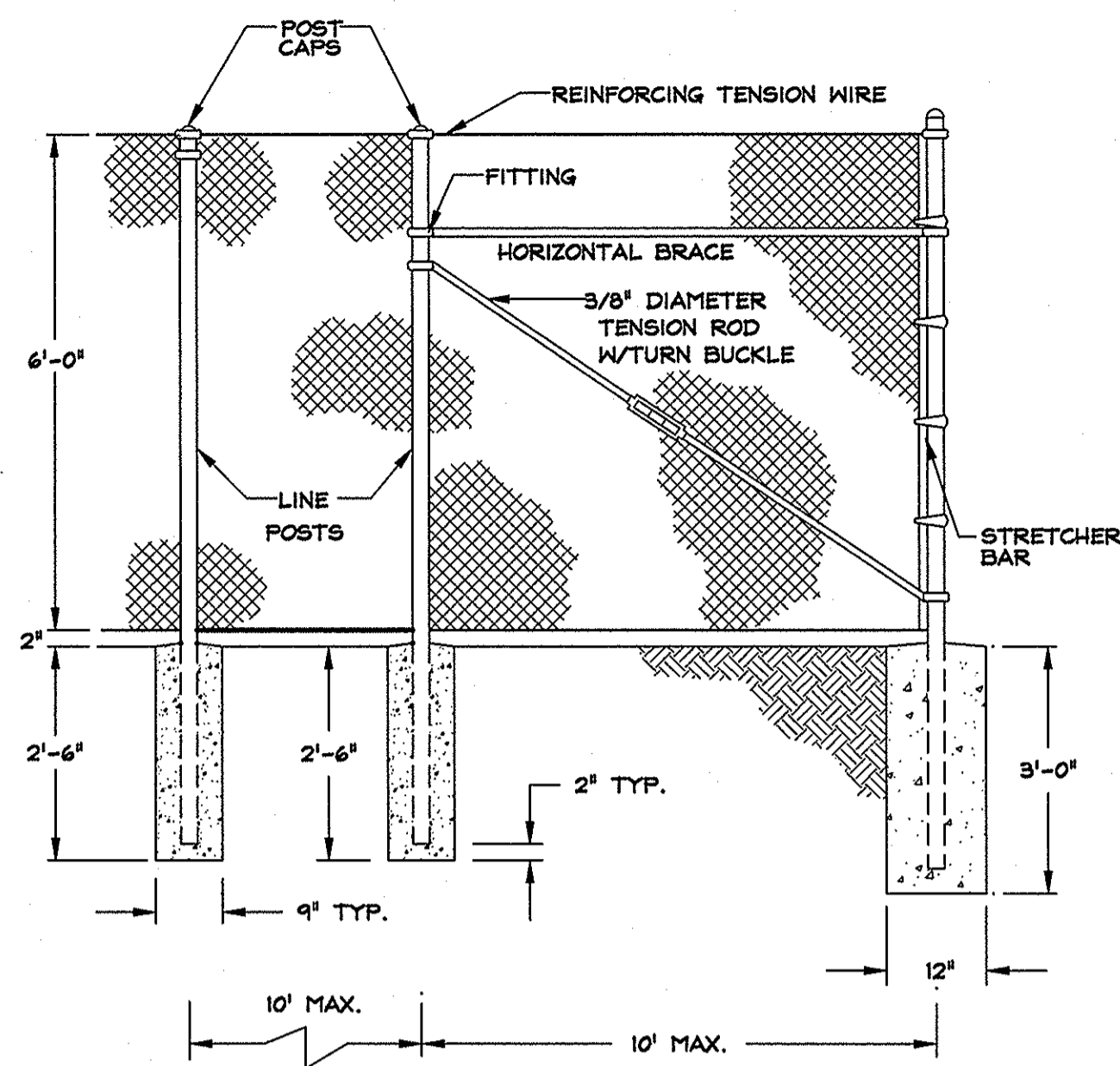
ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

DETAILS



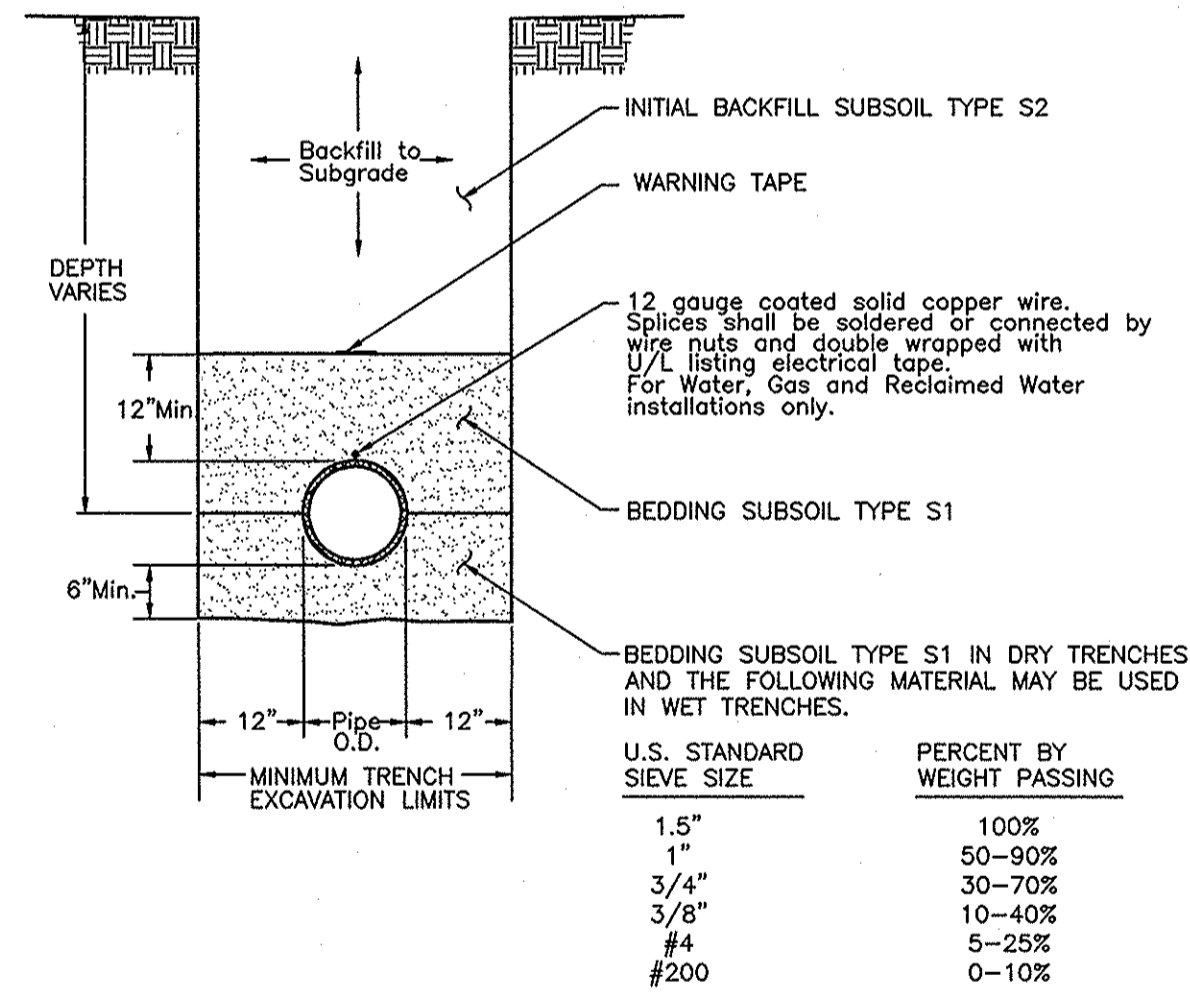
DRAWN: MCR/WAN
ENGINEER: SJRM
SCALE: N.T.S.
DATE: 5/12/17

JOB: 0883-029
DRAWING: SEE PLOT STAMP
SHEET: D2
OF: 31 SHEETS



6' CHAIN LINK FENCE

N.T.S.

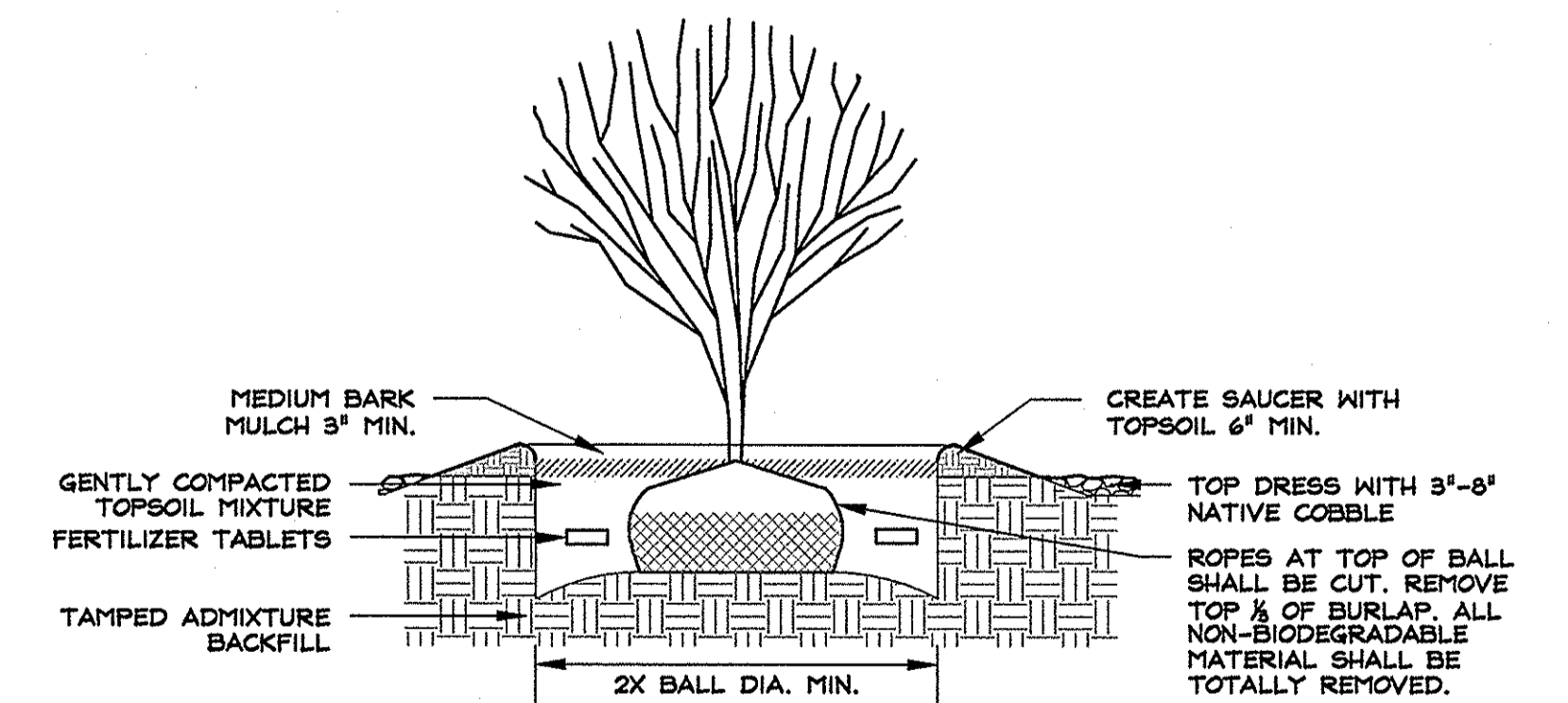


U.S. STANDARD SIEVE SIZE	PERCENT BY WEIGHT PASSING
1.5"	100%
1"	50-90%
3/4"	30-70%
3/8"	10-40%
#4	5-25%
#200	0-10%

- GENERAL NOTES:
- FOR TRENCHES IN ROADWAY SECTION, SEE PAVEMENT PATCH DETAIL.
 - SHORING OR SLOPED CUT SLOPES MAY BE NECESSARY. ALL EXCAVATIONS SHALL CONFORM TO THE MOST RECENT O.S.H.A. REQUIREMENTS.

TYPICAL TRENCH DETAIL

N.T.S.



DECIDUOUS SHRUB AND GRASS PLANTING WITH COBBLE MULCH DETAIL

NOT TO SCALE

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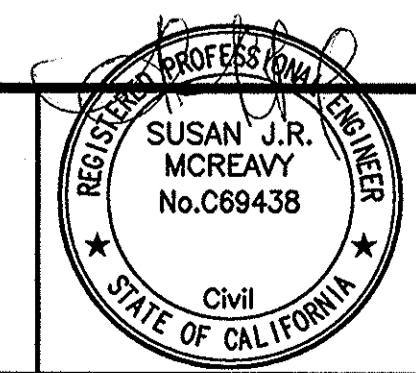
NO.	DATE	REVISION BLOCK	BY

R|O|Anderson

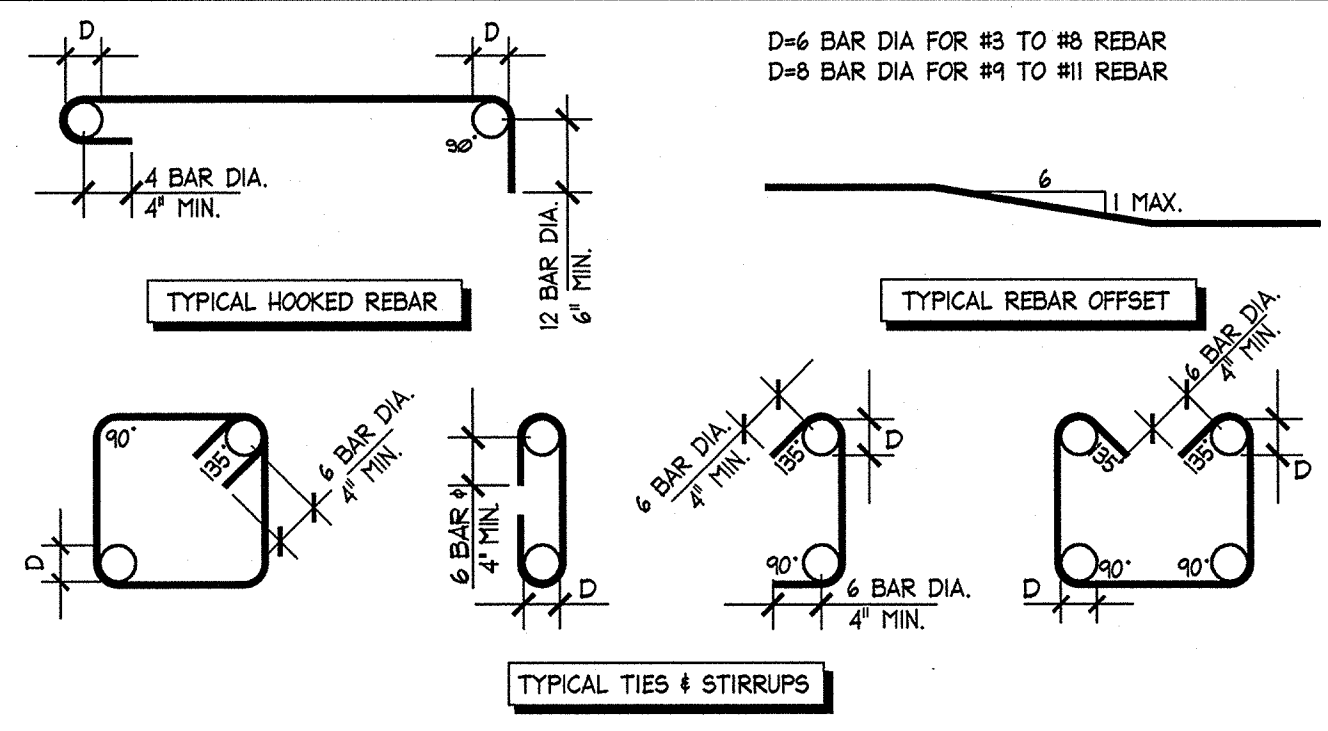
1403 EMERALDA AVENUE / POST OFFICE BOX 2229
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 WEB SITE: WWW.ROANDERSON.COM

**ARSENIC REMOVAL
 BRIDGEPORT PUBLIC UTILITY DISTRICT**

DETAILS



DRAWN: MCR/WAN	JOB: 0883-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: N.T.S.	SHEET: D3
DATE: 5/12/17	OF: 31 SHEETS



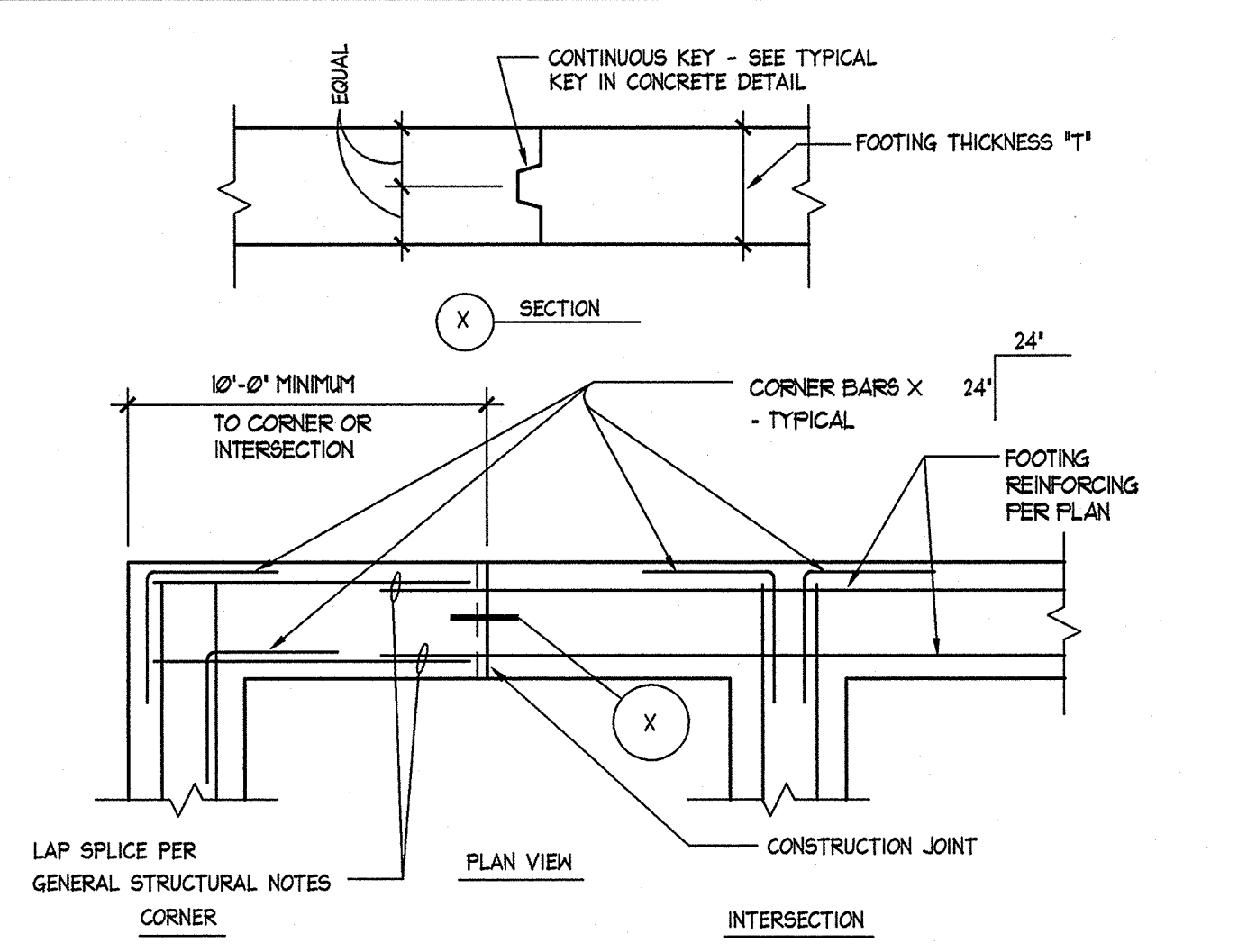
MINIMUM LAP LENGTHS @ REBAR SPLICES (f'_c=3000 PSI MIN.)

SIZE OF REINFORCEMENT	#3	#4	#5	#6	#7	#8	#9	#10	#11
CONCRETE	21"	30"	46"	65"	84"	117"	148"	189"	
CMU-SINGLE CURTAIN OF REINFORCEMENT (SEE NOTE 1)									
TYPICAL	15"	20"	25"	30"	35"	40"	-	-	-
w/ SPLICE @ MIDHEIGHT OR SPAN	23"	30"	38"	45"	53"	60"	-	-	-
CMU-DOUBLE CURTAIN OF REINFORCEMENT (SEE NOTE 2)									
TYPICAL	20"	26"	33"	39"	46"	52"	-	-	-
w/ SPLICE @ MIDHEIGHT OR SPAN	30"	39"	50"	59"	69"	78"	-	-	-

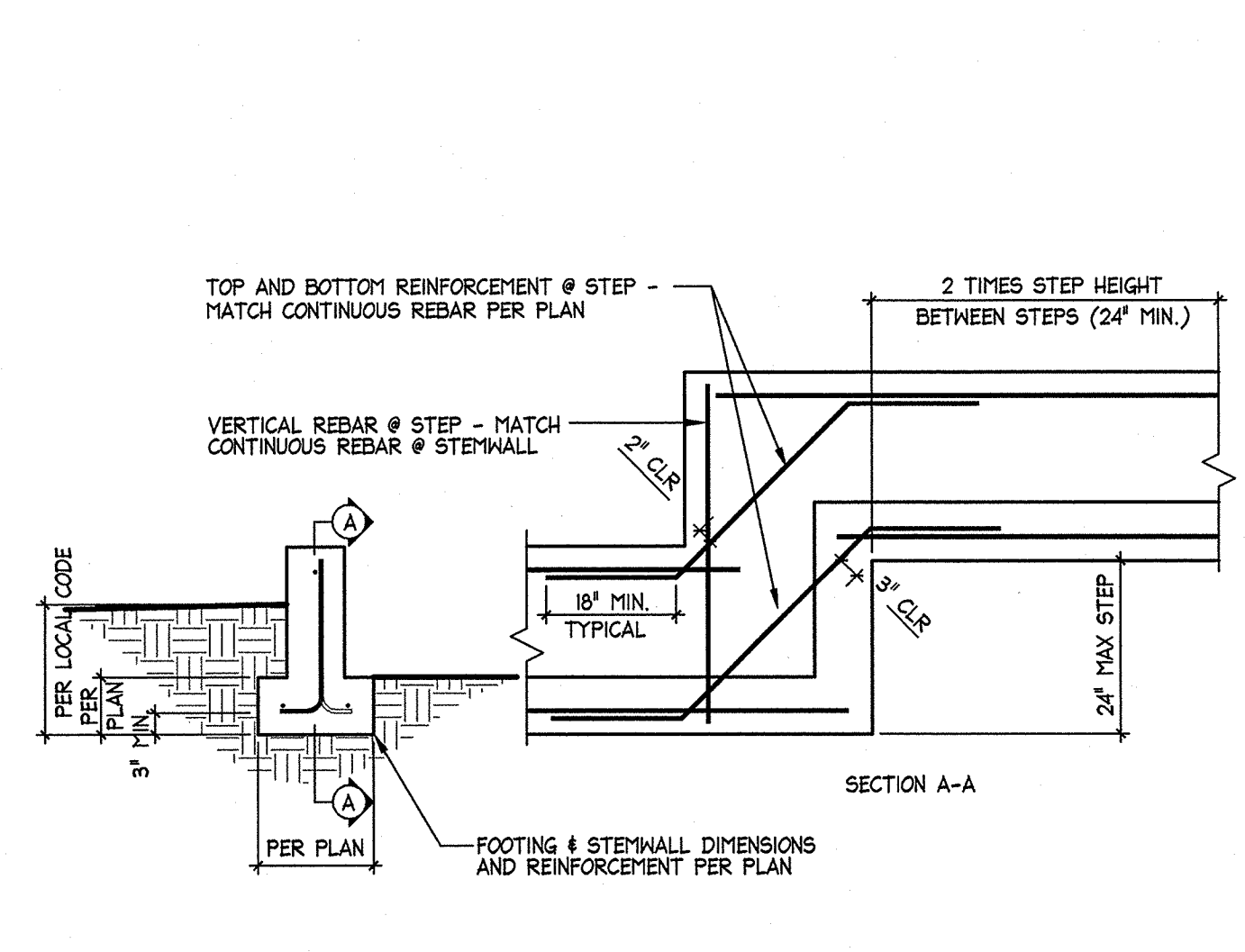
NOTE 1: USE FOR SINGLE CURTAIN OR DEL. CURTAIN REINFORCEMENT WITH SPLICES STAGGERED 24".

NOTE 2: USE FOR (2) OR MORE BARS SPACED 3" OR CLOSER TOGETHER. IF SPLICES ARE STAGGERED USE SINGLE CURTAIN LAP LENGTHS.

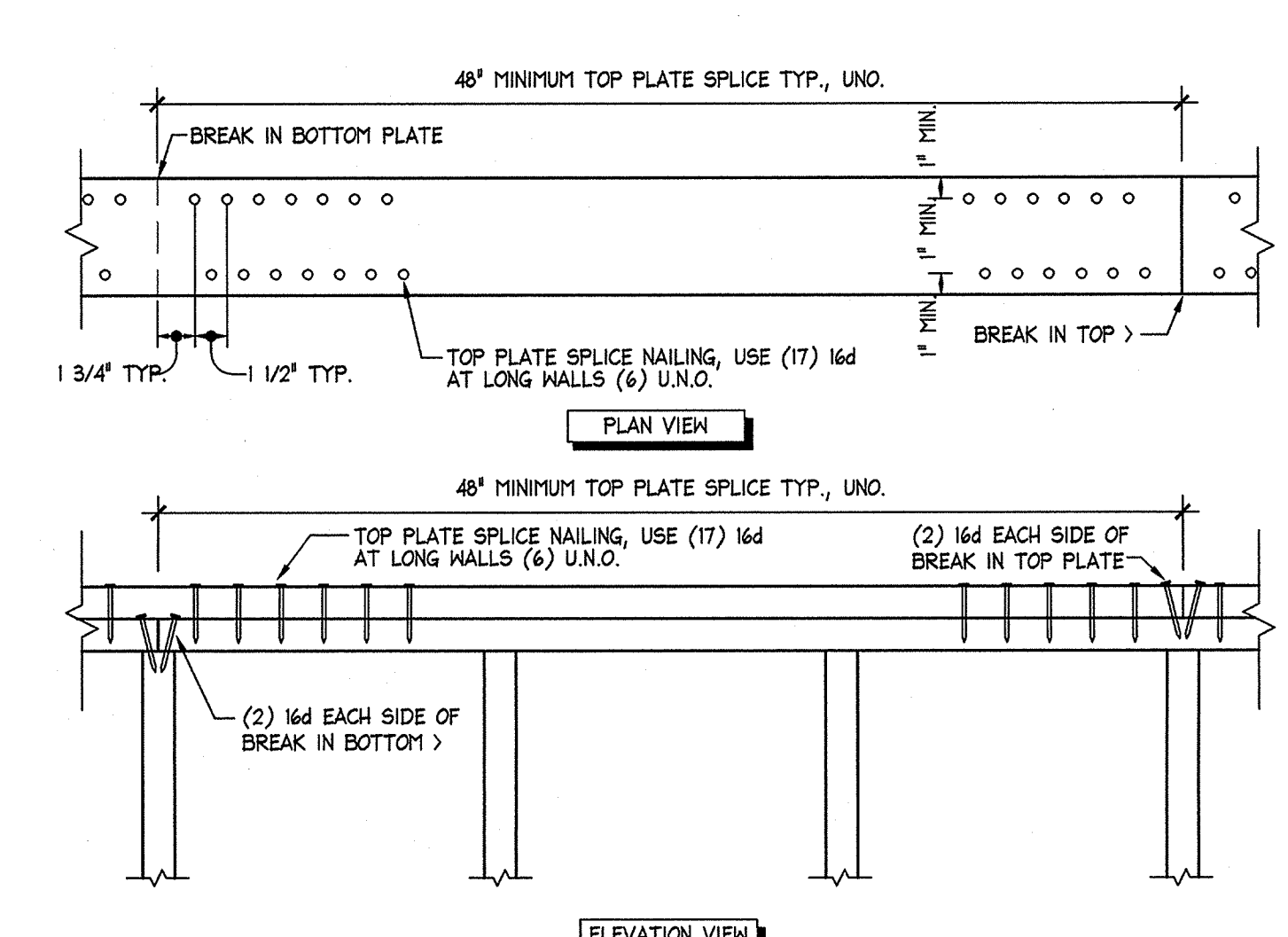
1 REBAR CONFIGURATION AND LAPS
SCALE: 1/2" = 1'-0"



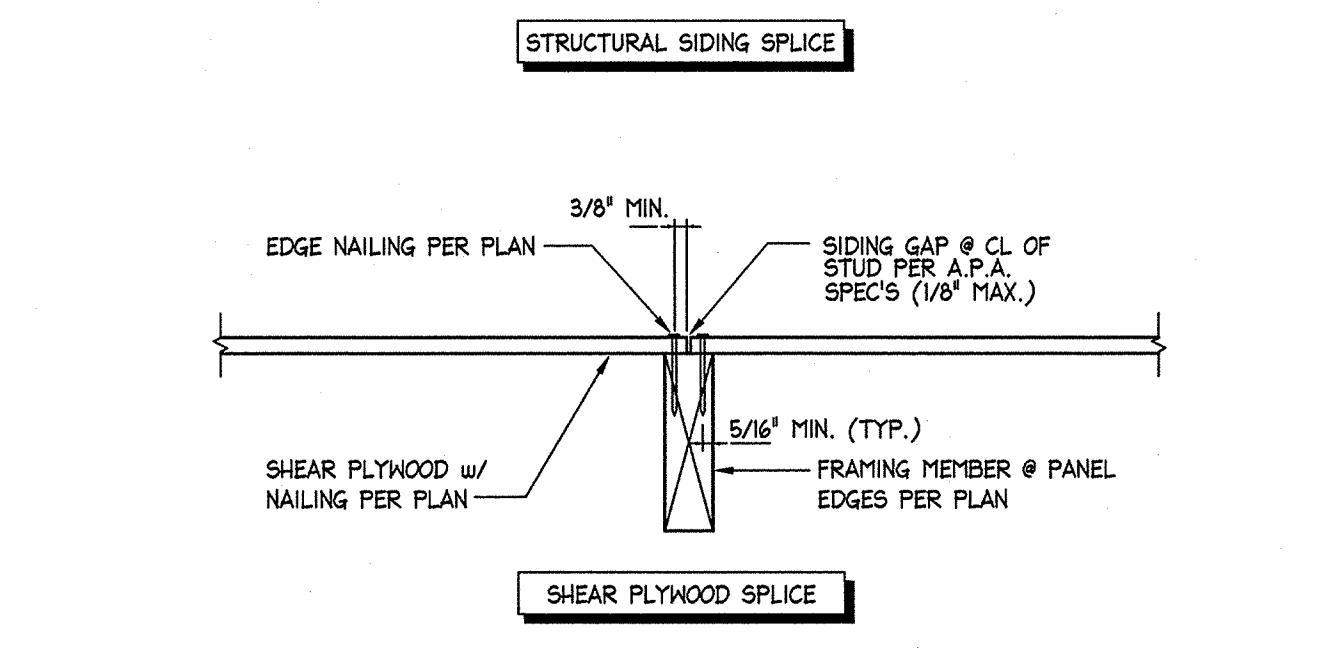
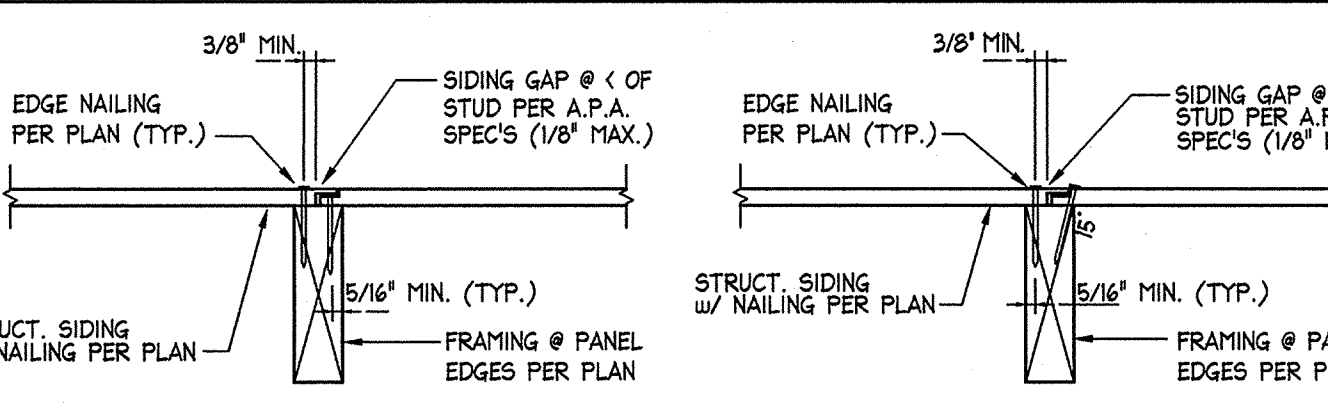
2 TYP. CORNER REINF. AND CONSTRUCTION JOINTS IN CONCRETE FOOTINGS
SCALE: N.T.S.



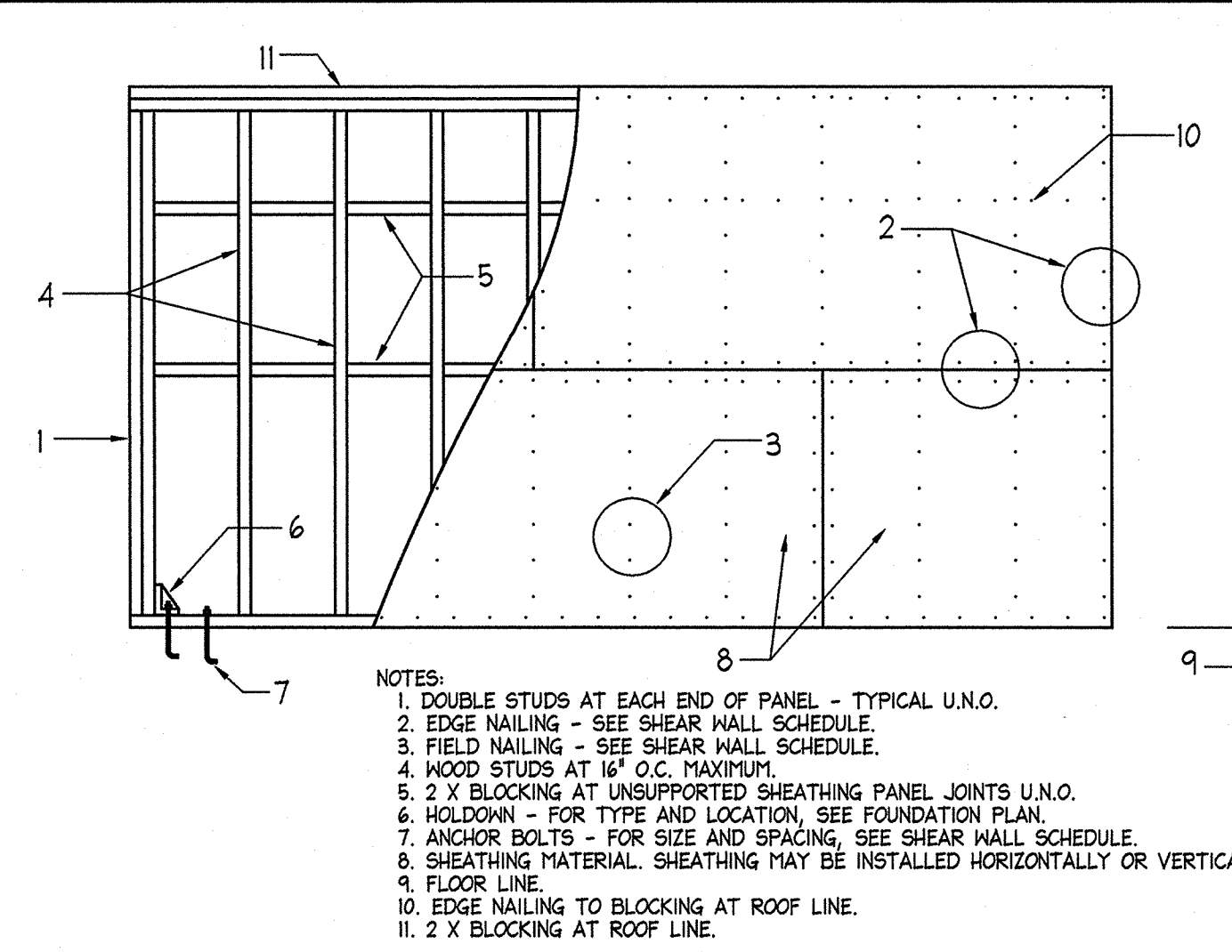
3 TYPICAL STEPPED FOOTING
SCALE: 1/2" = 1'-0"



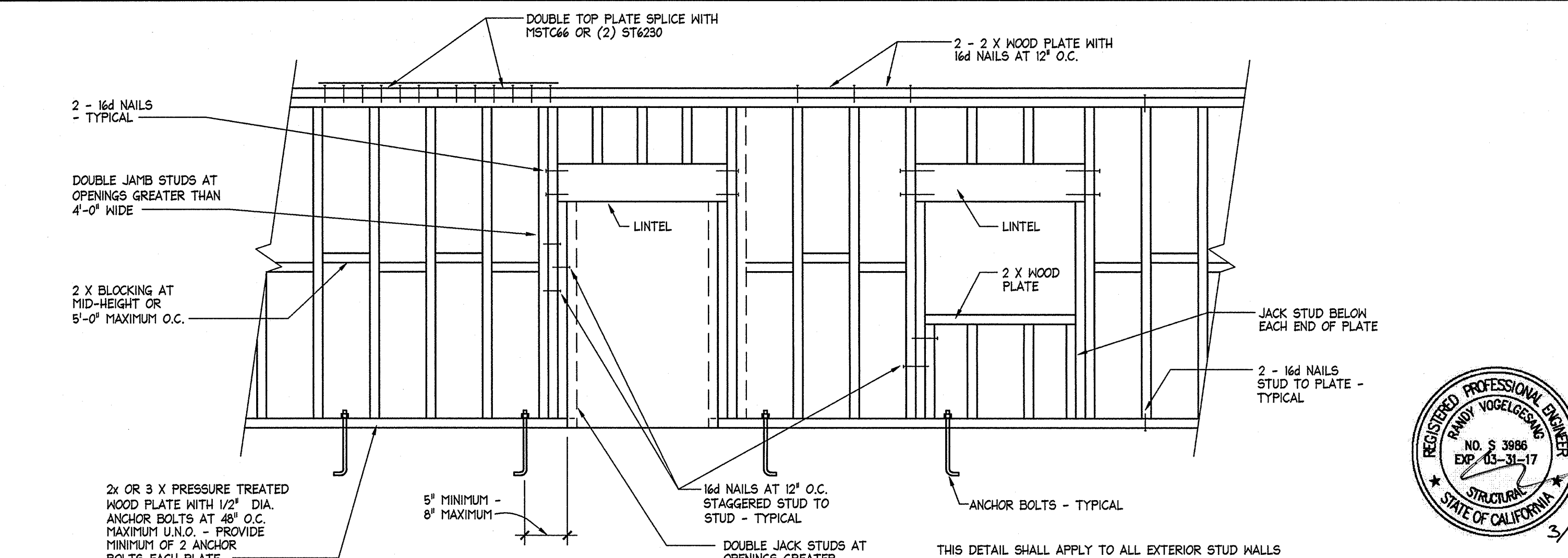
4 TYPICAL TOP PLATE SPLICE
SCALE: 1/2" = 1'-0"



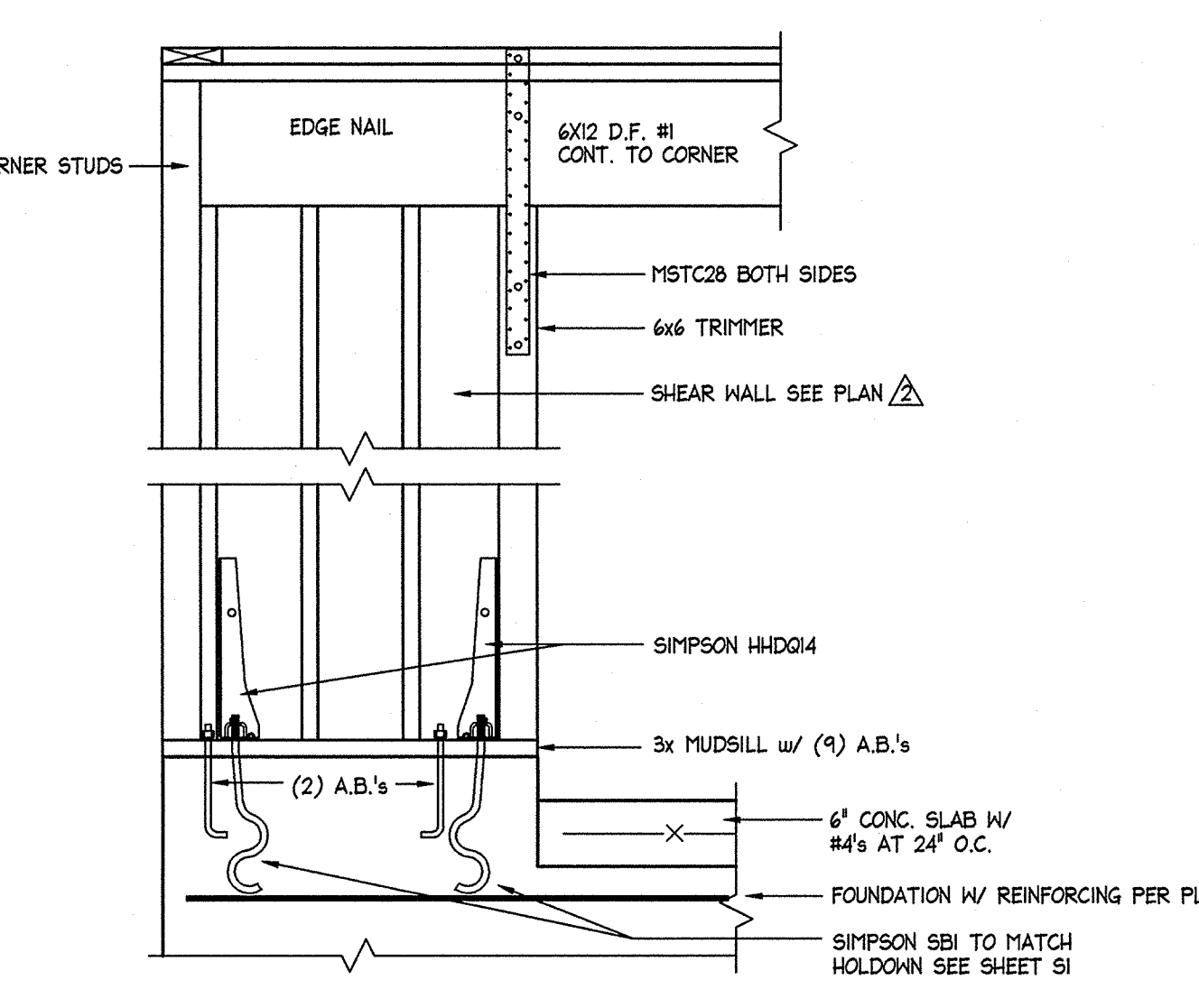
5 TYPICAL SPLICE @ SHEAR PANELS
SCALE: N.T.S.



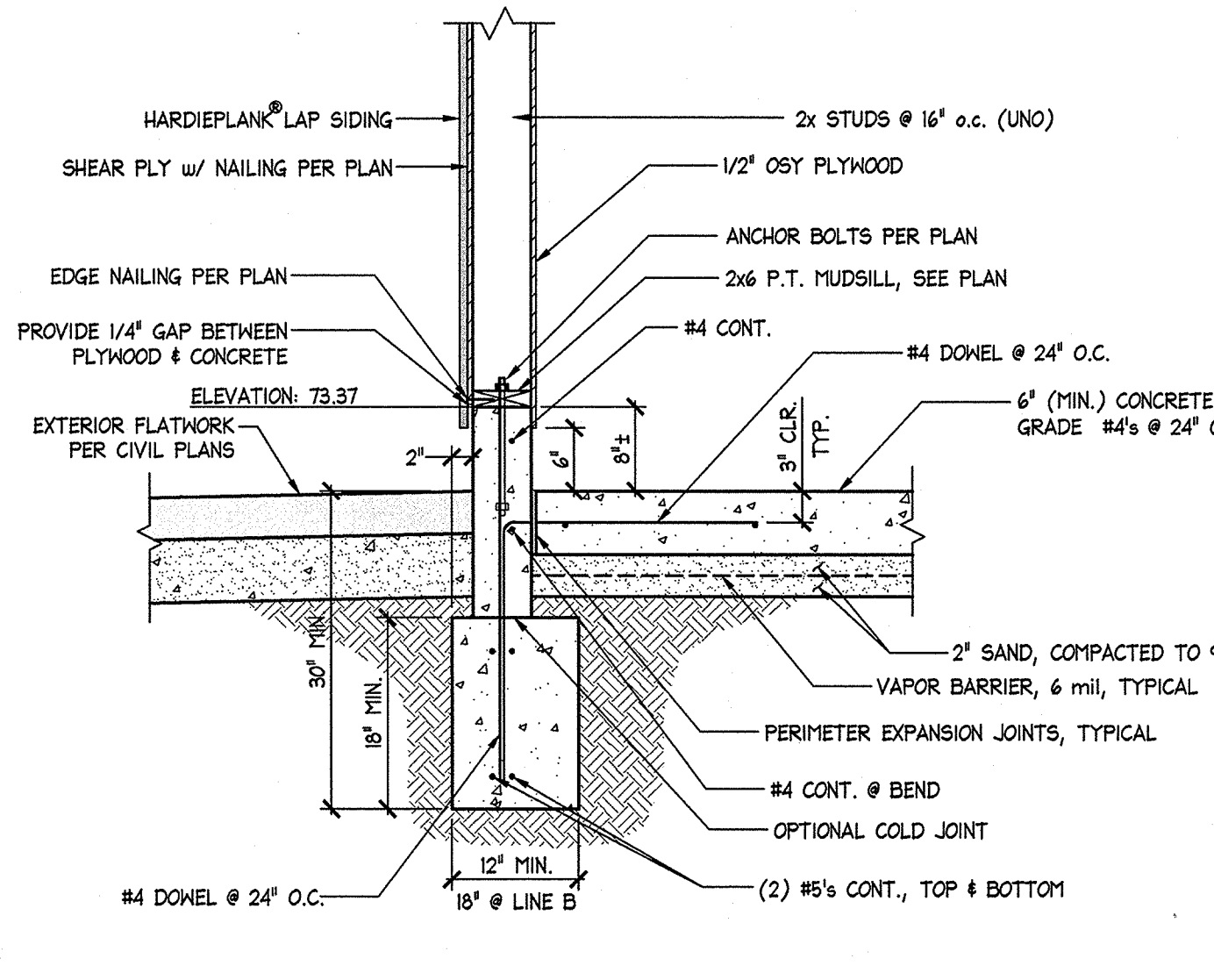
6 EXTERIOR WOOD STUD BRACE WALL ELEVATION (ONE STORY)
SCALE: N.T.S.



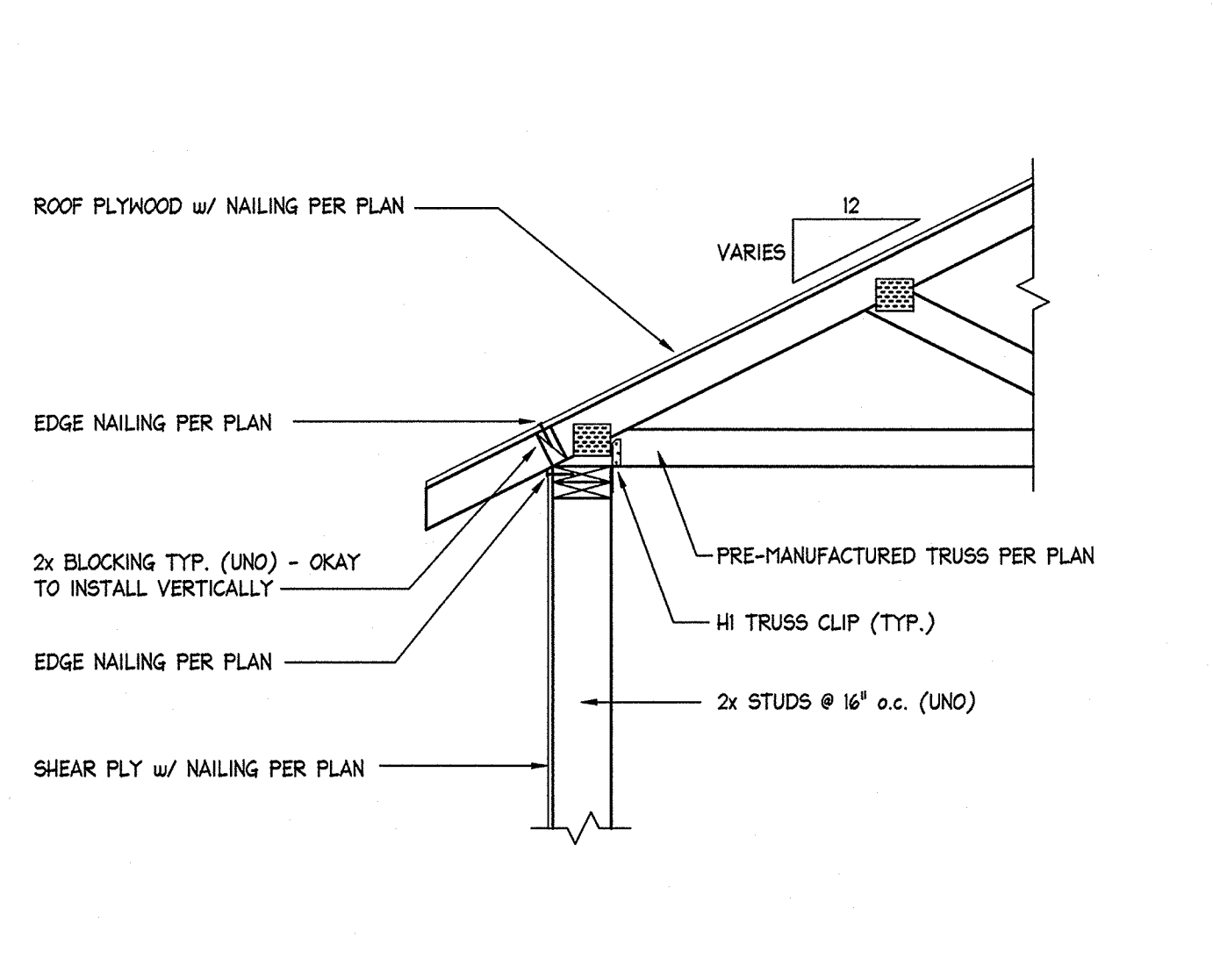
7 TYP. WOOD STUD WALL FRAMING BRACE WALL ELEVATION (ONE STORY)
SCALE: N.T.S.



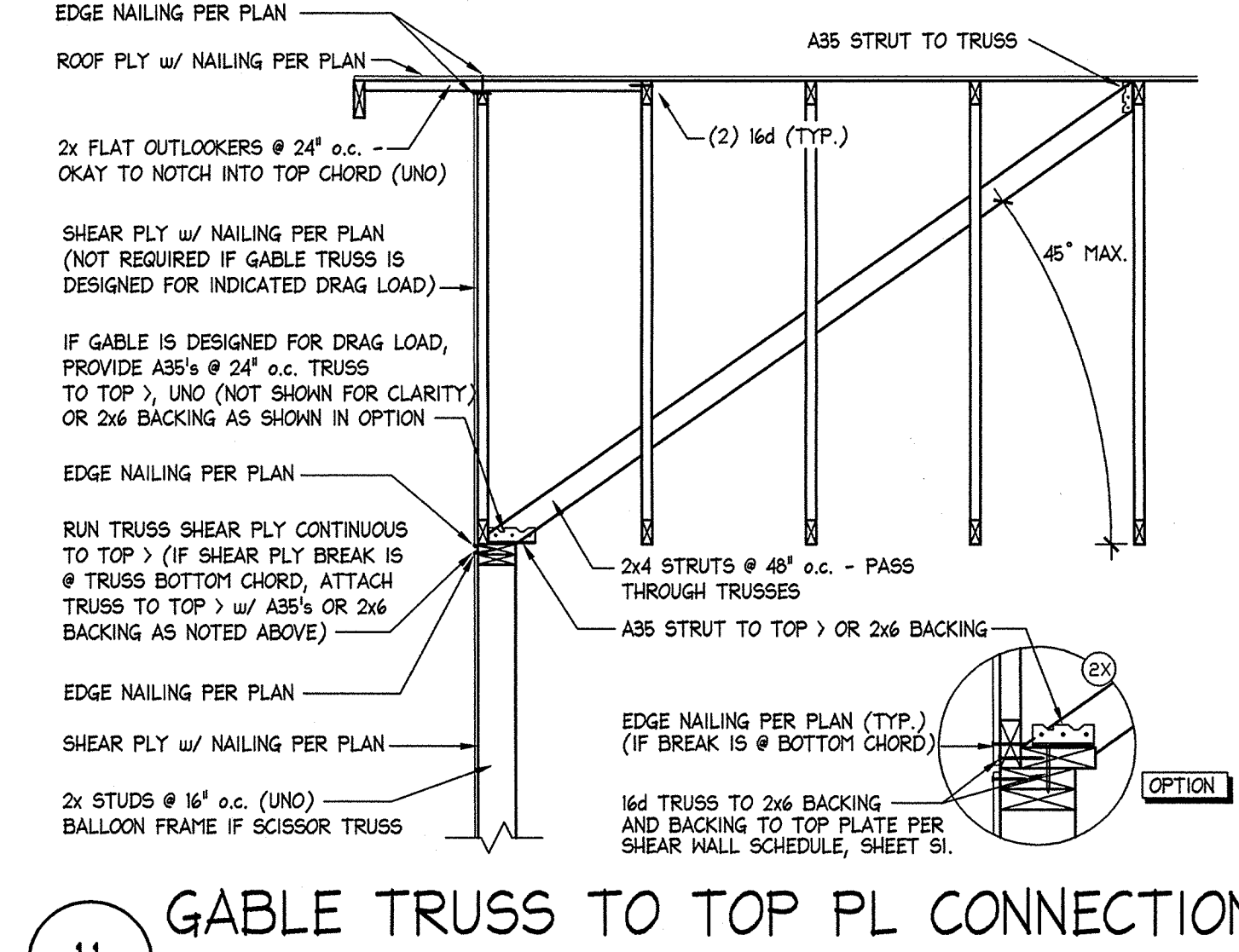
8 HOLD-DOWN & SHEAR AT O.H. DOOR
SCALE: 3/4" = 1'-0"



9 TYPICAL PERIMETER FOOTING @ SLAB
SCALE: 3/4" = 1'-0"



10 TRUSS TO TOP PLATE CONNECTION
SCALE: 3/4" = 1'-0"



11 GABLE TRUSS TO TOP PLATE CONNECTION
SCALE: 1/2" = 1'-0"

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NO.	DATE	REVISION	BLOCK	BY

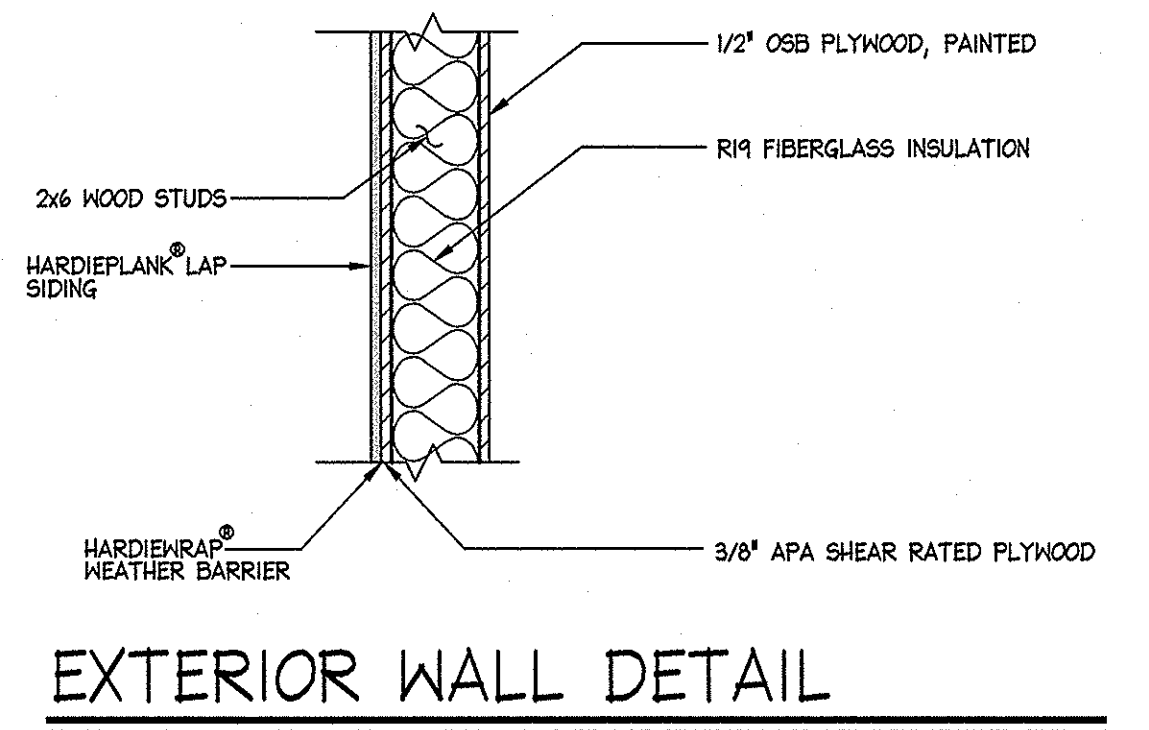
R/O Anderson
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ARSENIC TREATMENT
BRIDGEPORT PUBLIC UTILITY DISTRICT

STRUCTURAL
DETAILS

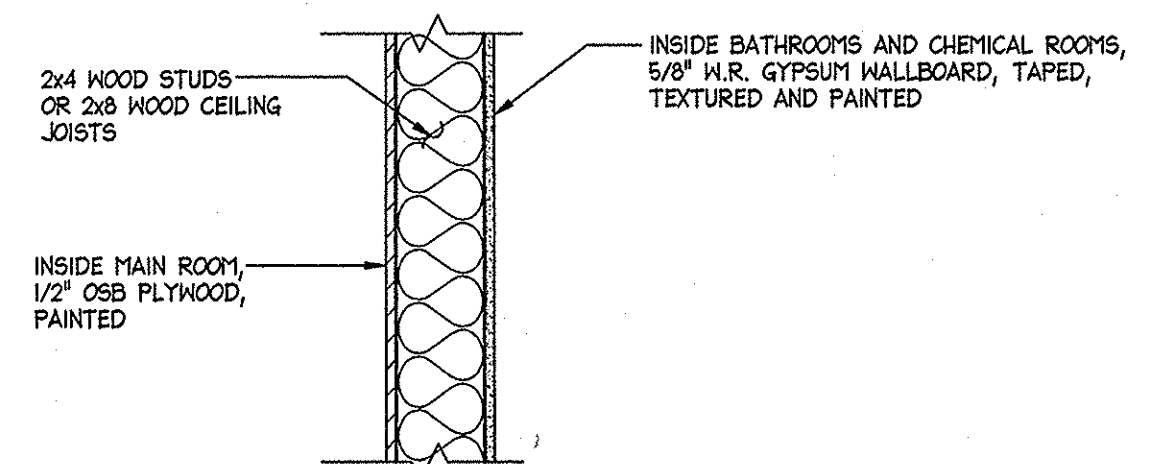
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ENGINEER: SEE PLOT STAMP
SCALE: AS NOTED
DATE: 01/26/16

JOB: 0803-029
DRAWING: SEE PLOT STAMP
SHEET: S2
OF: 29 SHEETS



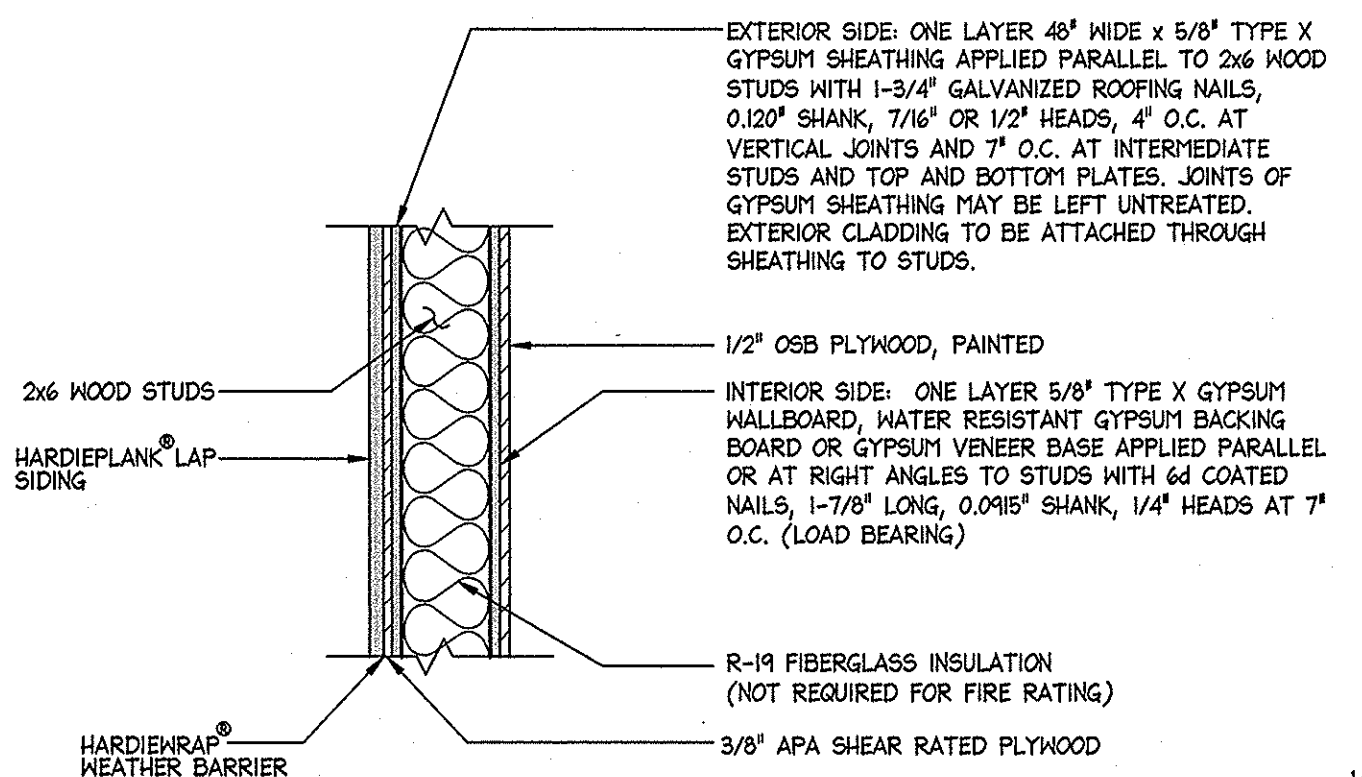
EXTERIOR WALL DETAIL

SCALE: 1" = 1'-0"



INTERIOR WALL & CEILING DETAIL

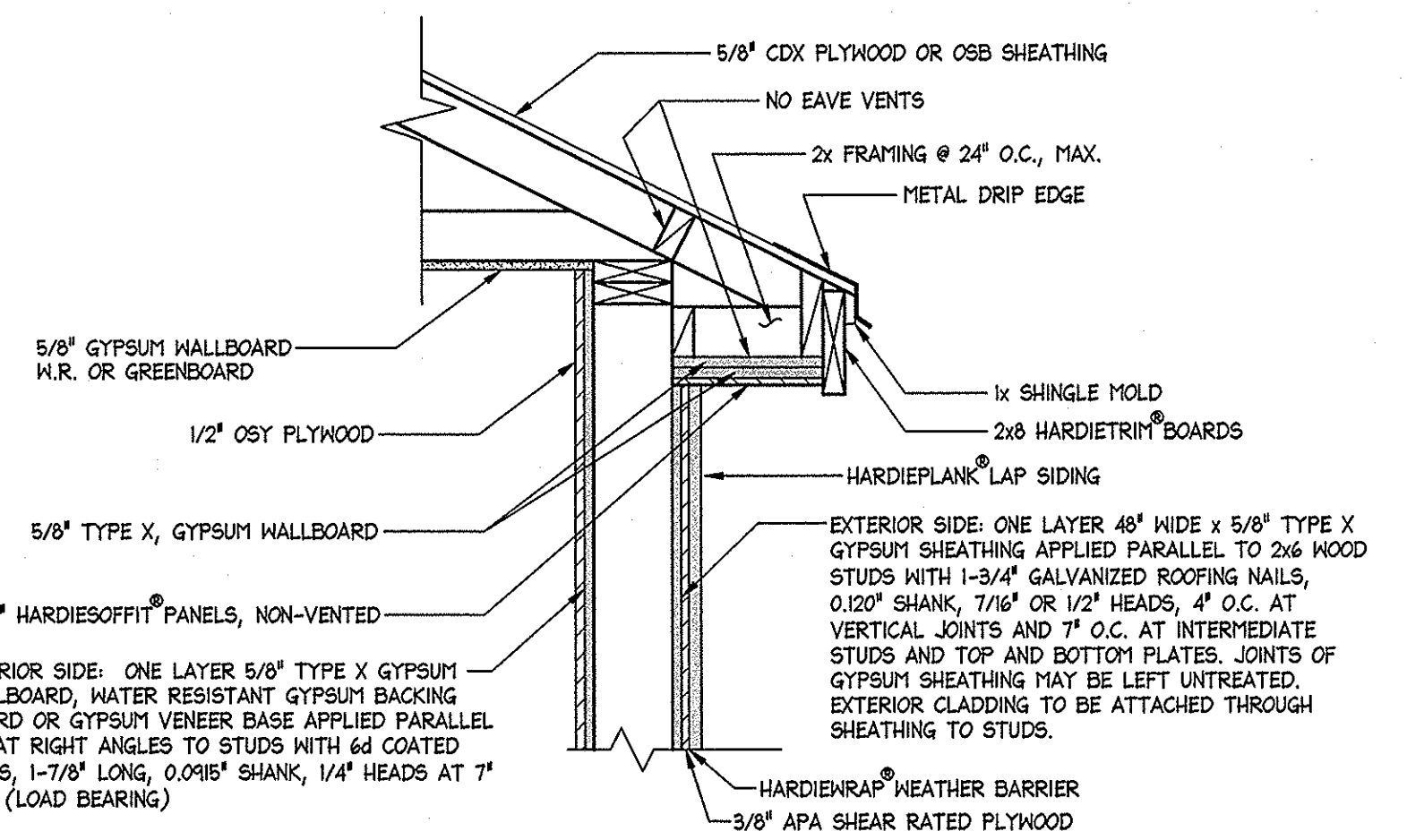
SCALE: 1" = 1'-0"



1-HR EXTERIOR WALL DETAIL

FIREWALL-002

SCALE: 1" = 1'-0"



1-HR EAVE DETAIL

SCALE: 1" = 1'-0"

SCHEDULE:

SYM.	QTY.	H	W	D	DESCRIPTION
1	1	6'-8"	3'-0"	2"	EXTERIOR, METAL, INSULATED, GLAZED, 3/4 HR. FIRE RATED
2	1	12'	10'	-	EXTERIOR, 20 MINUTE (MIN.) FIRE-RATED ROLL-UP w/ AUTOMATIC DOOR OPENER
3	1				WATER CLOSET, COMMERCIAL GRADE, HANDICAP COMPLIANCE
4	1				LAVATORY, COMMERCIAL GRADE, WALL MOUNTED
5	1				EMERGENCY SHOWER/EYEWASH
6	2	6'-8"	3'-0"	2"	INTERIOR, CORROSION RESISTANT, METAL, WITH 1.5 S.F. THROUGH VENT IN LOWER HALF OF DOOR w/ CHEMICAL PLACARD
7	1				4 S.F. LOUVERED AIR INTAKE
8	1				FIRE EXTINGUISHER
9	1				WALL MOUNTED THERMOSTAT WITH HUMIDITY CONTROL THAT ALLOWS 50°F TEMPERATURE SETTING AND CONTROLS PUH2 & EF1
10	2				WOOD SHELVES ABOVE CHEMICAL CONTAINERS FOR FEED PUMPS
11	1	12'	30'		METAL-GLAZED WITH STRUCTURAL SILICONE GLAZING 1/4" (MIN.) LAMINATED ANNEALED GLASS AND INSULATED GLASS UNITS WITH ONE TEMPERED PANE SLIDER WINDOW
12	1	36"	36"	12"	STEEL WALL CABINET w/ SHELVES

GENERAL NOTES:

THE BUILDING WILL BE A H-5 OCCUPANCY GROUP AND TYPE II-B CONSTRUCTION. WORK PERFORMED SHALL COMPLY TO THE FOLLOWING: ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, ORDINANCES, LAWS, REGULATIONS AND PROTECTIVE COVENANTS GOVERNING THE SITE OF WORK. IN CASE OF CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

THE CONTRACTOR/OWNER SHALL BE RESPONSIBLE FOR THE GENERAL SAFETY DURING CONSTRUCTION, AND ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS.

INSTALLATION OF ALL MATERIALS AND FINISHES MUST BE DONE IN STRICT ACCORDANCE WITH THE RELATED MANUFACTURER'S SPECIFICATIONS AND DETAILS.

THE OWNER SHALL SECURE AND PAY FOR THE BUILDING PERMIT AND FOR OTHER PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

ROOFING:
COMMERCIAL GRADE STANDING SEAM METAL ROOF WITH GAFGLAS® MINERAL SURFACED CAP SHEET INSTALL PER MANUFACTURER'S SPECS. AND 2016 CBC SECTION 1507, OVER UNDERLAYMENT PER SECTION 1507.4.5

FLASHING:
ALL JOINTS AND PENETRATIONS AT EXTERIOR WALLS, CEILINGS AND FLOORS SHALL BE FULLY CAULKED AND SEALED.
ROOF FLASHING AT VERTICAL WALL JUNCTIONS BASE AND COUNTER FLASHINGS ARE REQUIRED WHERE ROOFING MATERIAL MEETS WALLS. FORM FLASHING WITH A 4" MIN. TURN-UP AGAINST THE WALL AND FORM HORIZONTAL LEG 6" MIN. AWAY FROM THE WALL. BASE FLASHINGS SHOULD BE FASTENED TO THE SHEATHING TO PREVENT SLIPPAGE. "RAKE" COUNTER FLASHING ALONG WALL AS REQUIRED PER SIDING CONDITION. FLASHING SHALL BE MINIMUM 26 GAUGE GALVANIZED SHEET METAL.

SIDING:
8" HORIZONTAL HARDIEPLANK® LAP SIDING UNDER HZE® CLIMATE ZONE INSTALLED PER MFG. SPECS. AND PER 2016 CBC SECTION 1405 w/ HARDIEWRAP® WEATHER BARRIER. INSTALL SECTION 1404.2 w/ 3/8" P.M. SHEATHING OR EQUIVALENT (SEE SHEAR CALLOUTS)

DOORS:
EXTERIOR MAN DOOR TO BE METAL INSULATED, GLAZED, 3/4 HR. FIRE RATED. ALL DOOR HARDWARE SHALL BE COMMERCIAL GRADE SCHLAGE WITH BRUSHED ALUMINUM FINISH.
MAN DOOR SHALL BE EQUIPPED WITH PUSH-BUTTON COMBINATION LOCKS.
ALL EXTERIOR DOORS SHALL BE KEYPED ALIKE.
EXIT DOOR SHALL NOT REQUIRE MORE THAN ONE OPERATION TO THE GENERAL SAFETY DURING CONSTRUCTION, UNLESS AS EXACT DOOR HARDWARE HAS NOT BEEN SPECIFIED.
EXIT DOOR SHALL BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT PER 2016 CBC.

FIRE SPRINKLER:
UNDER 5,000 SQ. FT. FIRE SPRINKLERS NOT REQUIRED

FRAMING:
ALL CONSTRUCTION TO BE 2x6 WOOD STUD LIGHT FRAME CONSTRUCTION. ALL STUDS TO BE 16" O.C. U.N.O. ON PLANS.

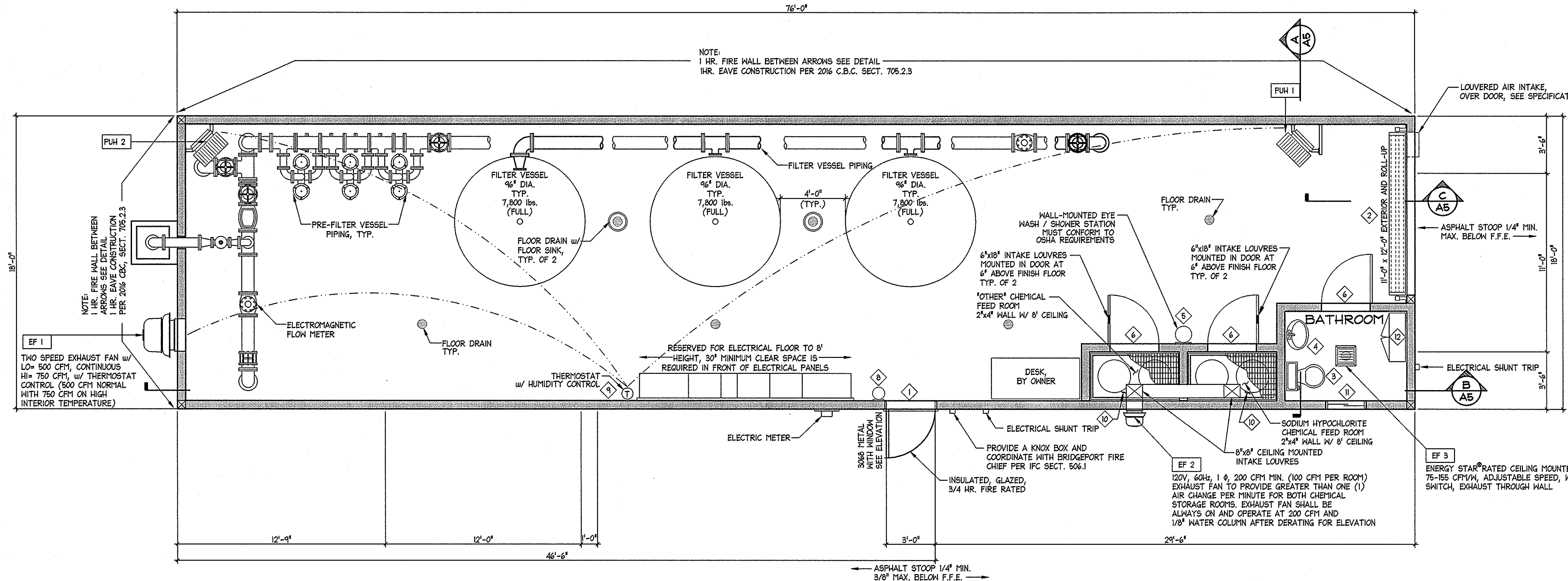
INSULATION:
FIBERGLASS BATT INSULATION SHALL BE INSTALLED THROUGHOUT THE BUILDING ENVELOPE IN ACCORDANCE WITH THE FOLLOWING:
FLAT CEILINGS WITH ATTICS OVER HEATED SPACES R-38
EXTERIOR WALLS AT HEATED SPACES R-19
CONCRETE SLAB TO BE UN-INSULATED

INTERIOR MATERIAL FINISHES:
5/8" GYPSUM WALL BOARD INSTALLED AT INTERIOR SHALL BE TYPE M.R. OR "GREENBOARD" PER 2016 CBC
INTERIOR WALLS AND CEILINGS SHALL BE PRIMED AND PAINTED WITH SEMI-GLOSS LATEX ENAMEL
ALL FINAL INTERIOR FINISH MATERIALS SELECTIONS WILL BE MADE BY OWNER.

CARPENTRY:
CONTRACTOR MUST COORDINATE ALL PLUMBING, MECHANICAL AND ELECTRICAL ROUGH OPENING REQUIREMENTS WITH FRAMING AND FINISHES TO ALLOW FOR PROPER CLEARANCES.

EXTERIOR PLATWORK:
SEE SITE PLAN

MISCELLANEOUS FIRE CODE:
COMBUSTIBLE WASTE MATERIAL CREATING A FIRE HAZARD SHALL NOT BE ALLOWED TO ACCUMULATE IN THE BUILDING CFC SECT. 304.1
VEGETATION SUCH AS NEEDS THAT ARE CAPABLE OF BEING IGNITED SHALL BE CUT DOWN OR REMOVED BY OWNER CFC SECT. 304.1.2
SMOKING SHALL BE PROHIBITED WHERE CONDITIONS MAKE SMOKING A HAZARD AND IN SPACES OF FLAMMABLE OR COMBUSTIBLE MATERIALS CFC SECT. 310.2
OUTSIDE STORAGE OF COMBUSTIBLE MATERIALS SHALL NOT BE LOCATED WITHIN 10 FEET OF A PROPERTY LINE CFC 316.3
POSTS, FENCES, VEHICLES, GROWTH, TRASH, STORAGE OR OTHER MATERIALS SHALL NOT BE PLACED NEAR FIRE HYDRANTS IN A MANNER THAT WOULD PREVENT FIRE HYDRANTS FROM BEING DESCERNIBLE. THE FIRE DEPT. SHALL NOT BE HINDERED FROM IMMEDIATE ACCESS TO FIRE HYDRANTS OR EQUIPMENT CFC SECT. 508.5.4. A 3 FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND FIRE HYDRANTS CFC SECT. 508.5.5



FLOOR PLAN

1,360 SQ. FT. SCALE: 1/4" = 1'-0"

NO.	DATE	REVISION	BLOCK	BY

R|O Anderson

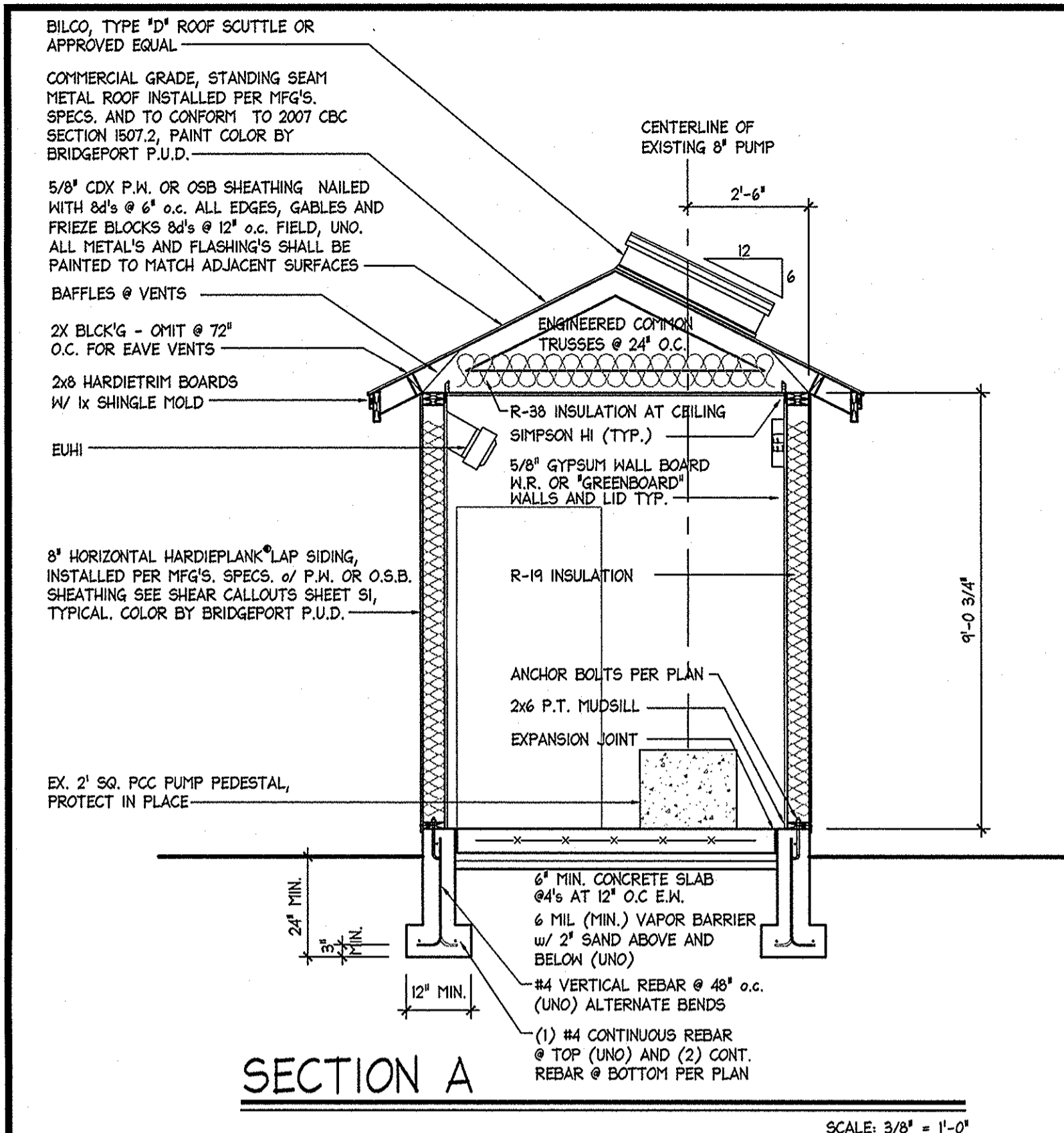
1609 ESHERALDA AVENUE / POST OFFICE BOX 2229
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 WEB SITE: WWW.ROANDERSON.COM

ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

FLOOR PLAN

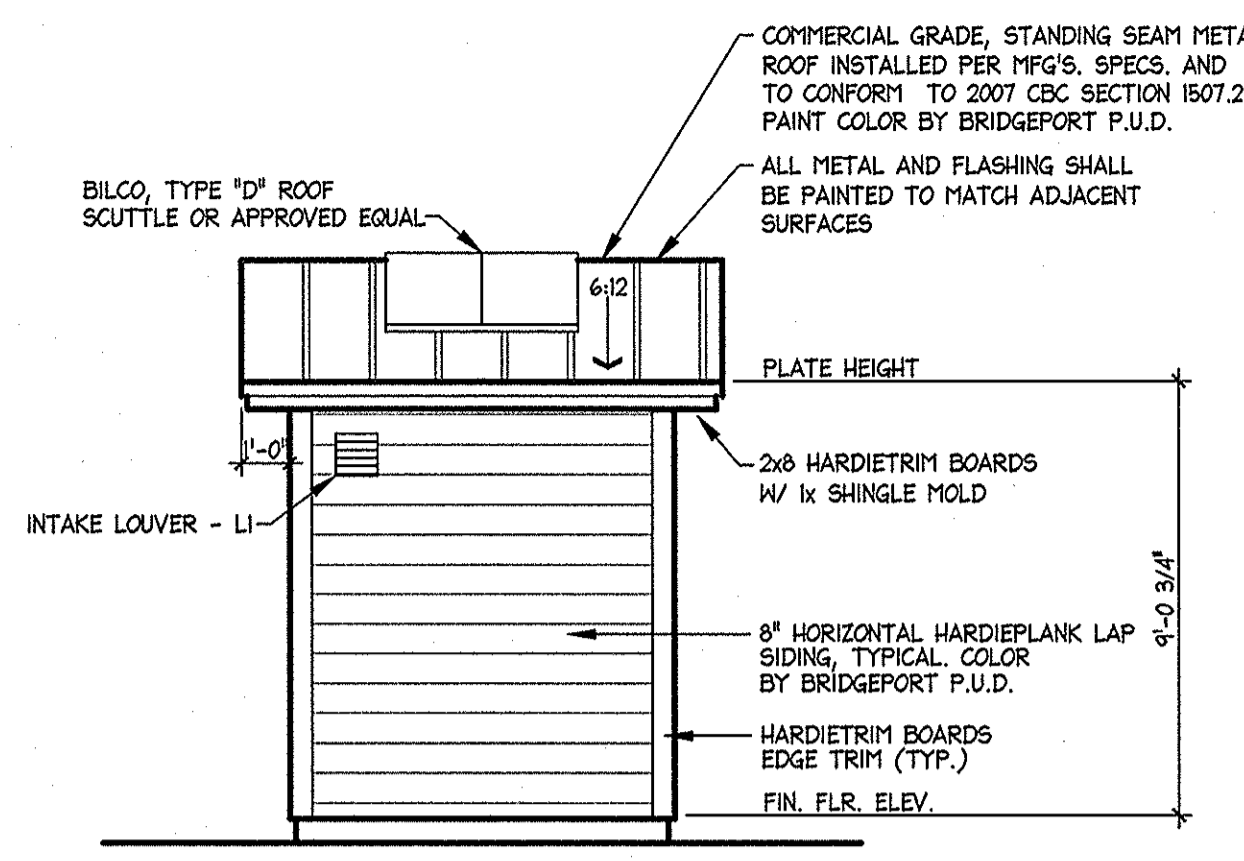


DRAWN: JCR/MAAN	JOB: 0883-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: 1/4" = 1'-0"	SHEET: A1
DATE: 5/12/17	OF: 31 SHEETS



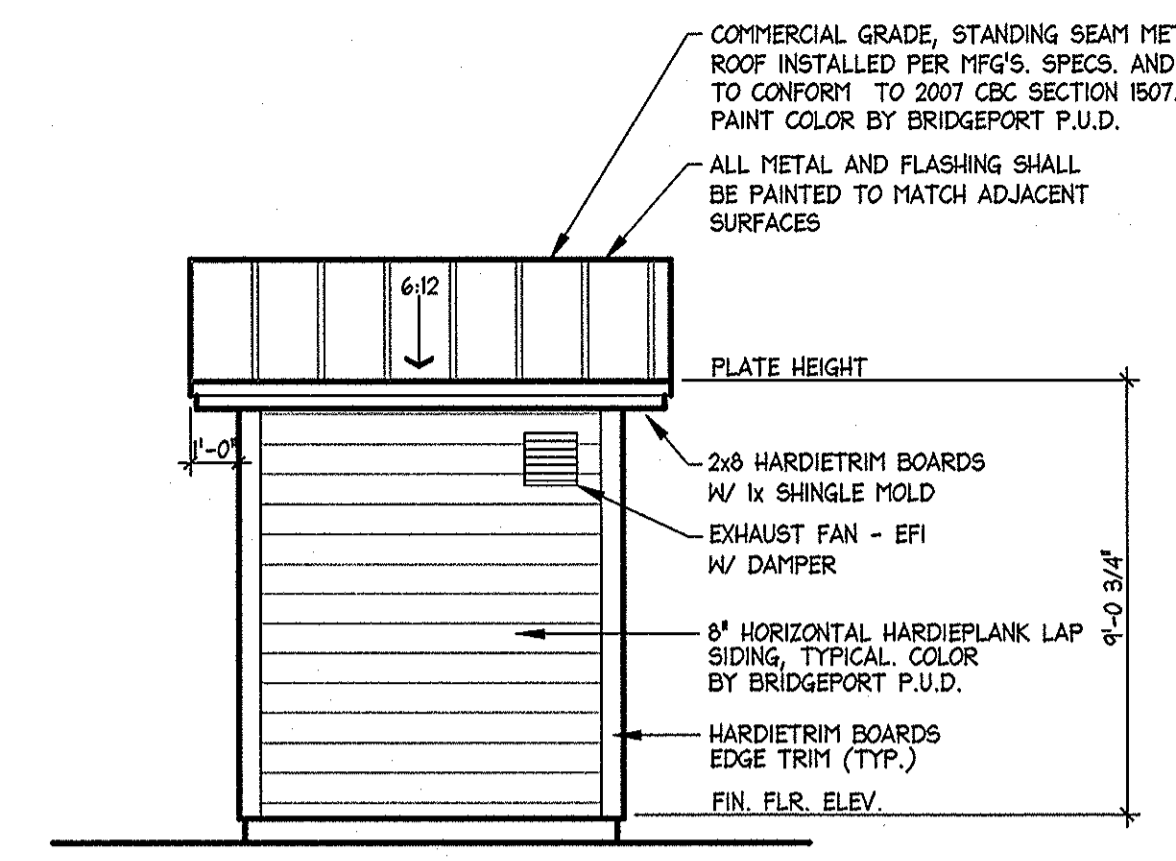
SECTION A

SCALE: 3/8" = 1'-0"



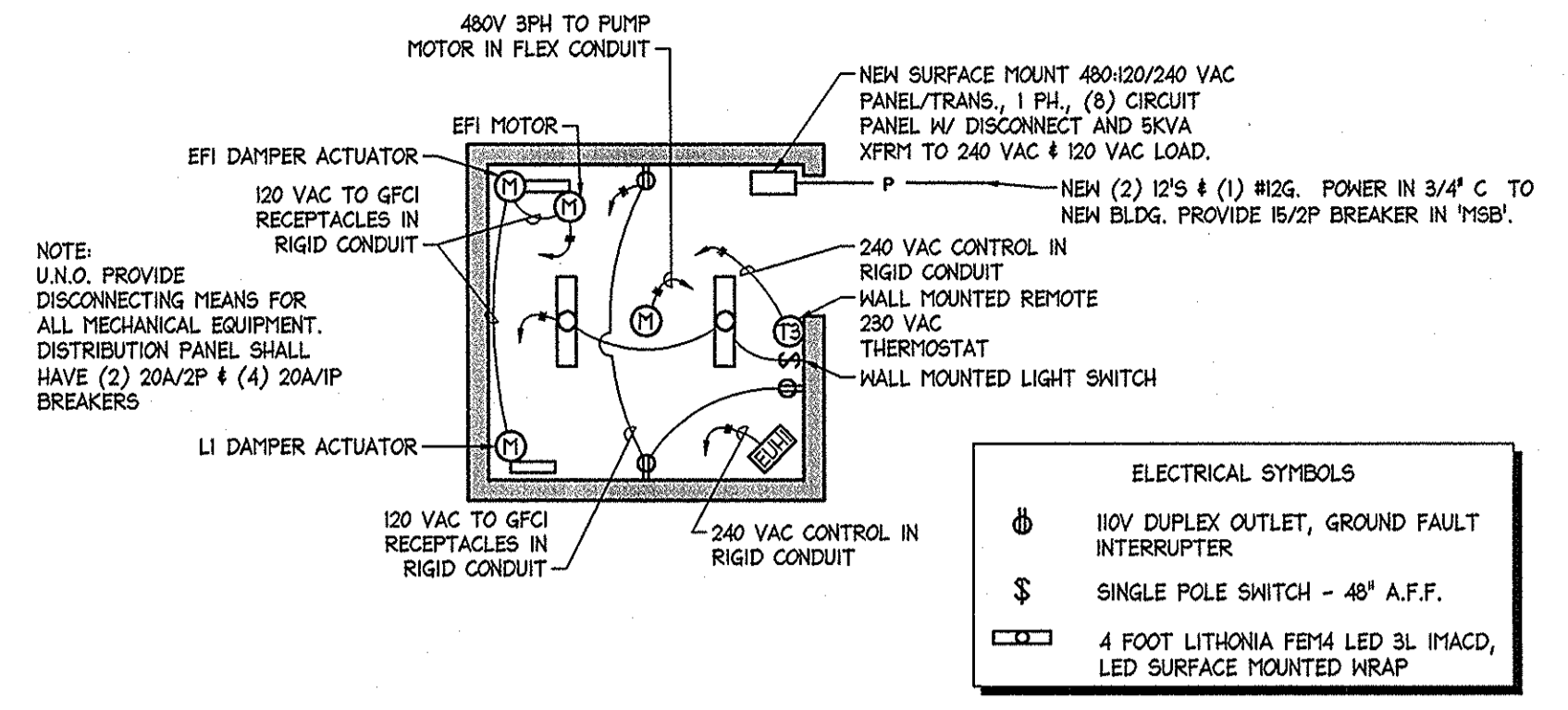
LEFT SIDE ELEVATION

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



RIGHT SIDE ELEVATION

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

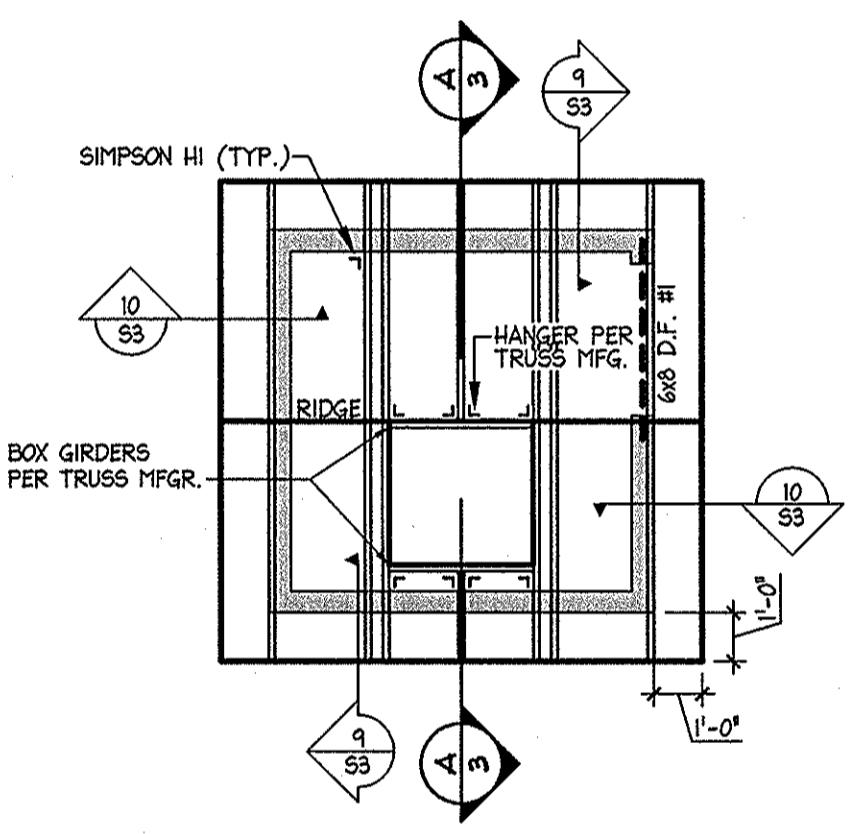


ELECTRICAL PLAN

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

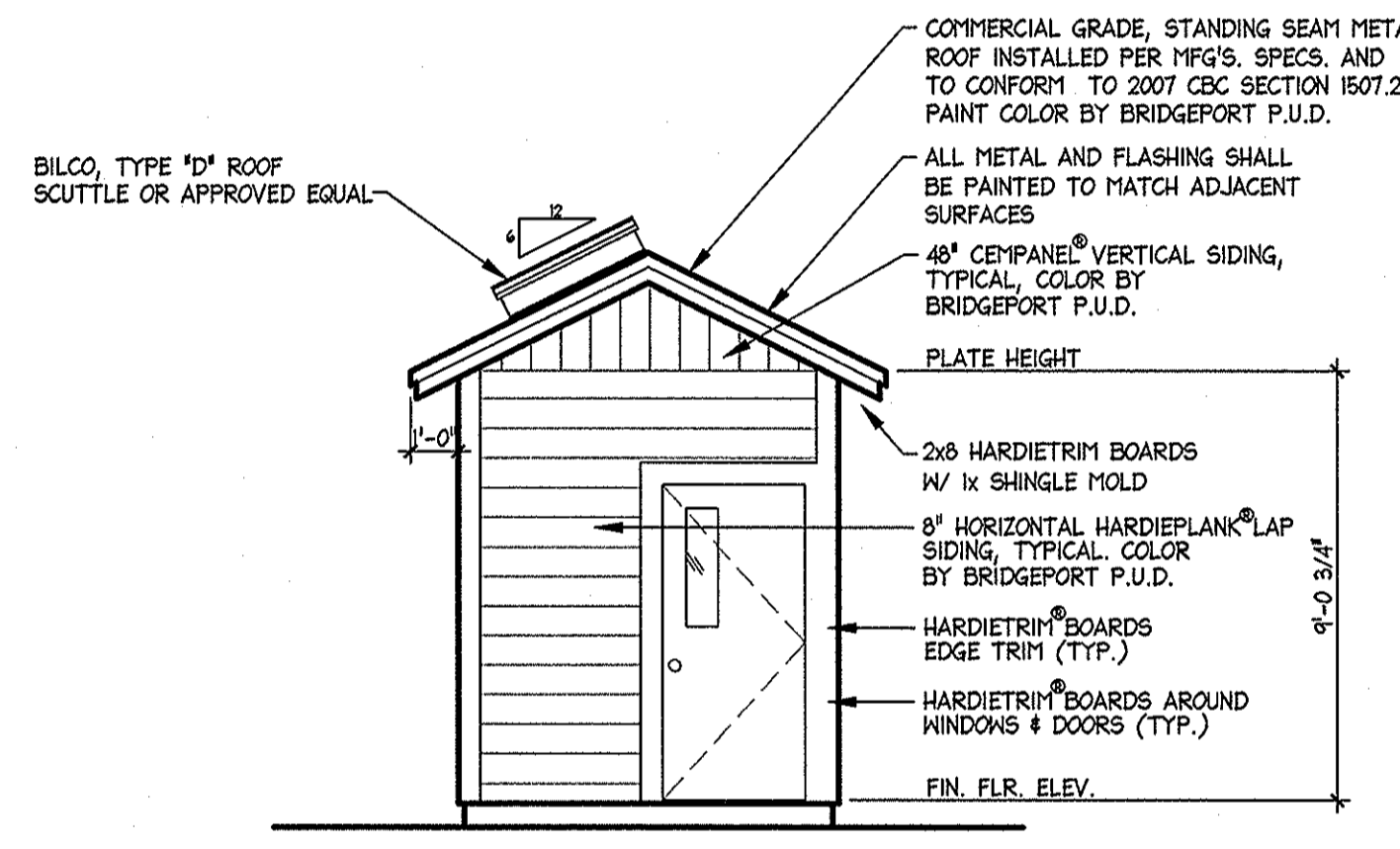
ATTIC VENTILATION
ATTIC VENTILATION PER 2007 CBC SECTION R806 USE GABLE END VENTS, ROOF JACKS, AND EAVE VENTS.

DRAINAGE
PROVIDE DRAINAGE AWAY FROM BUILDING PER SITE PLAN



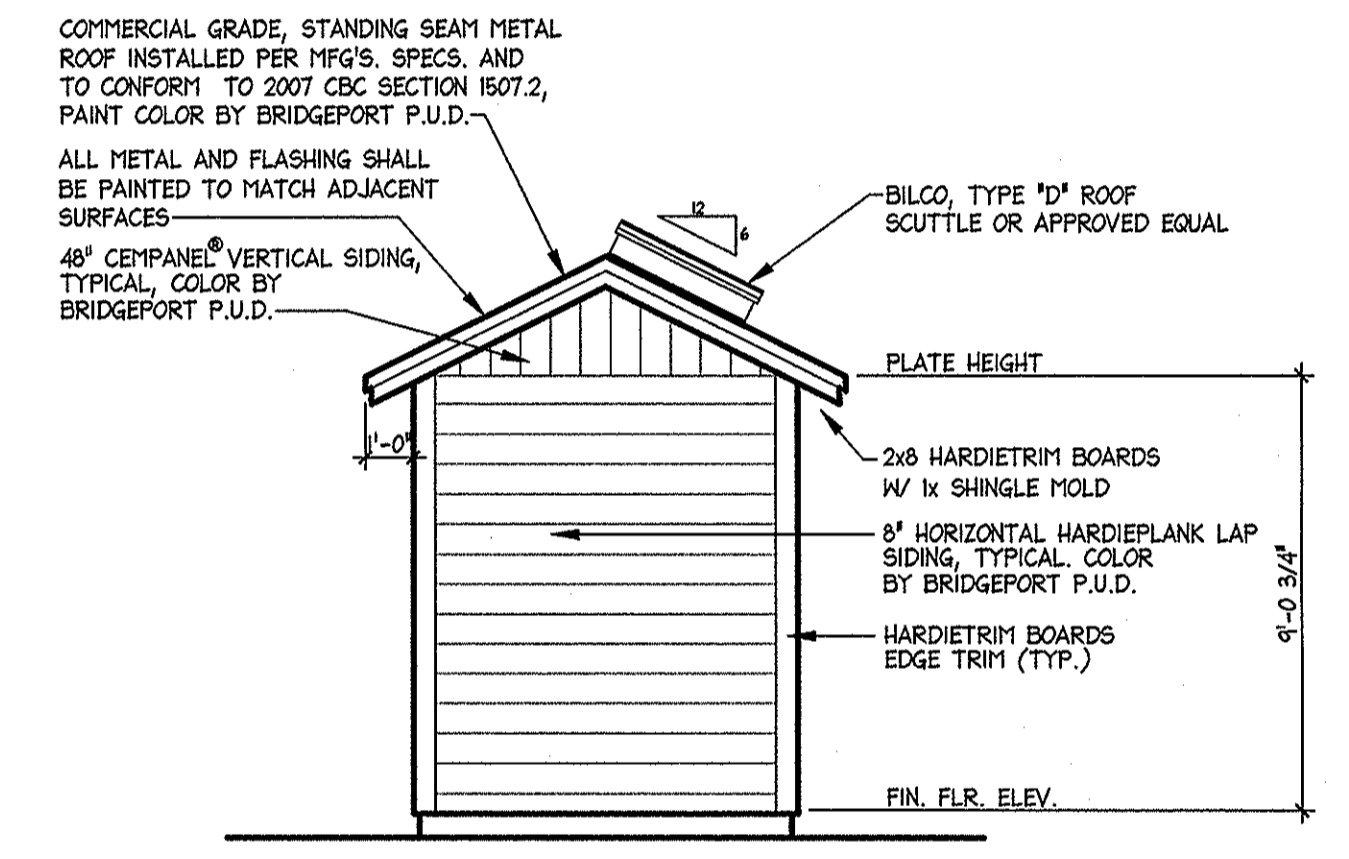
ROOF FRAMING PLAN

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



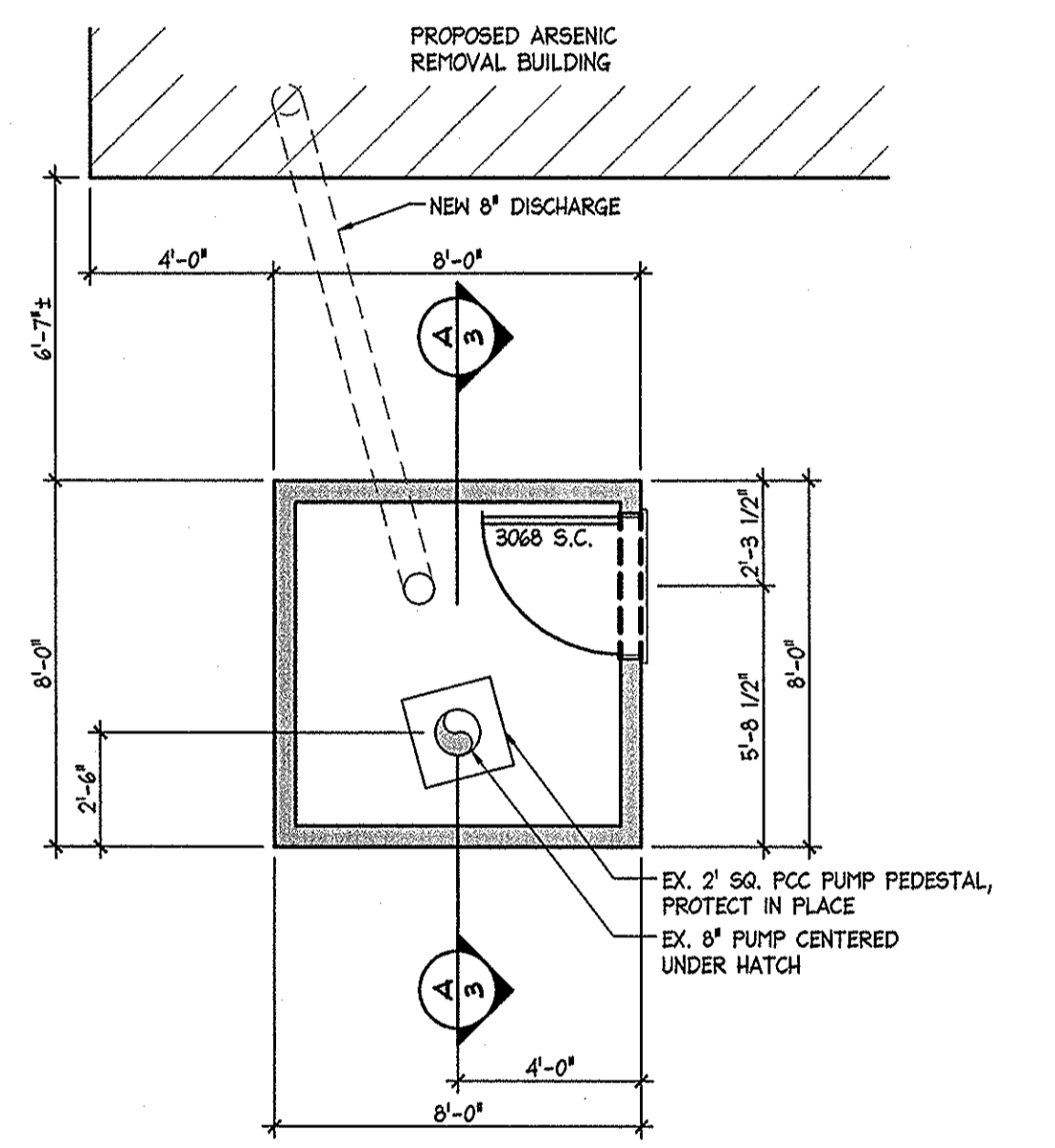
FRONT ELEVATION

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



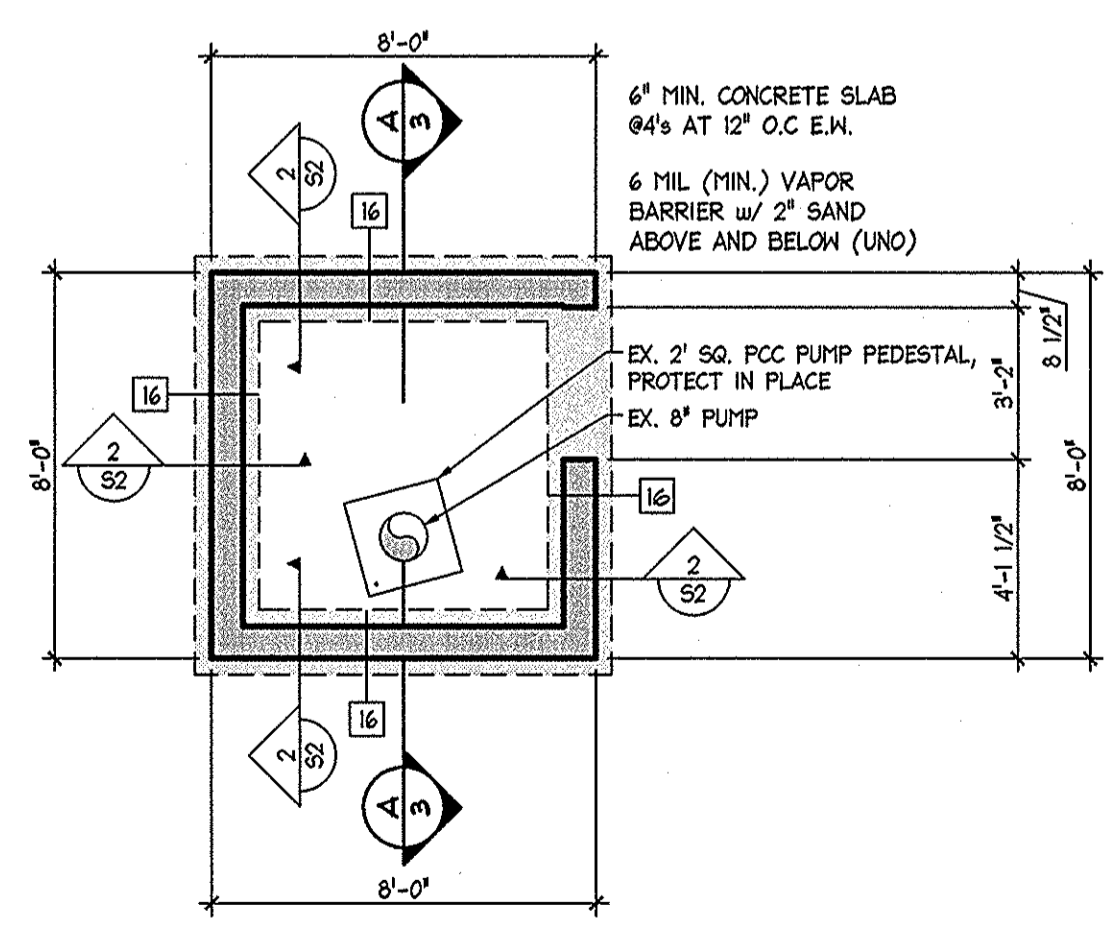
REAR ELEVATION

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



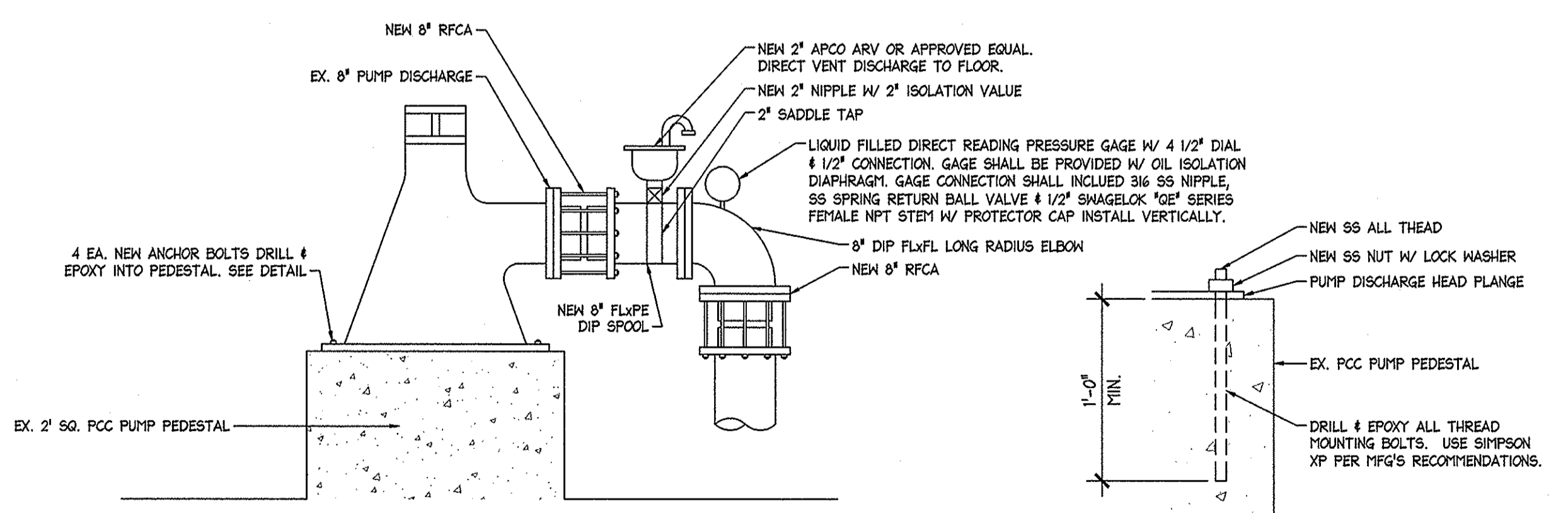
FLOOR PLAN

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



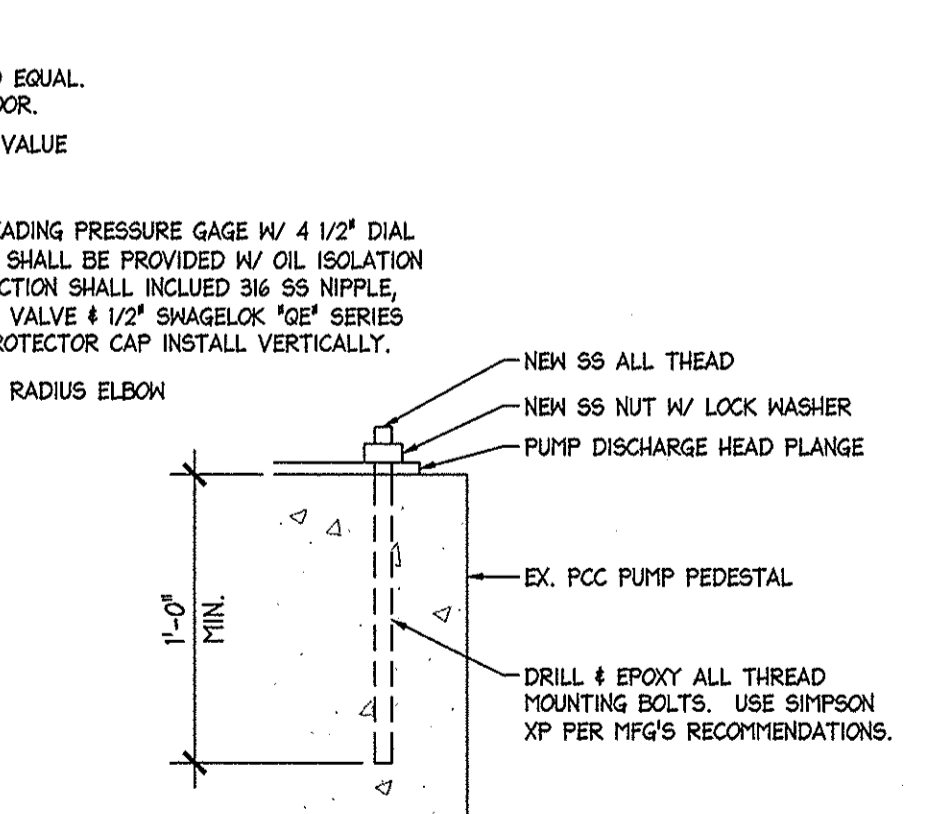
FOUNDATION PLAN

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



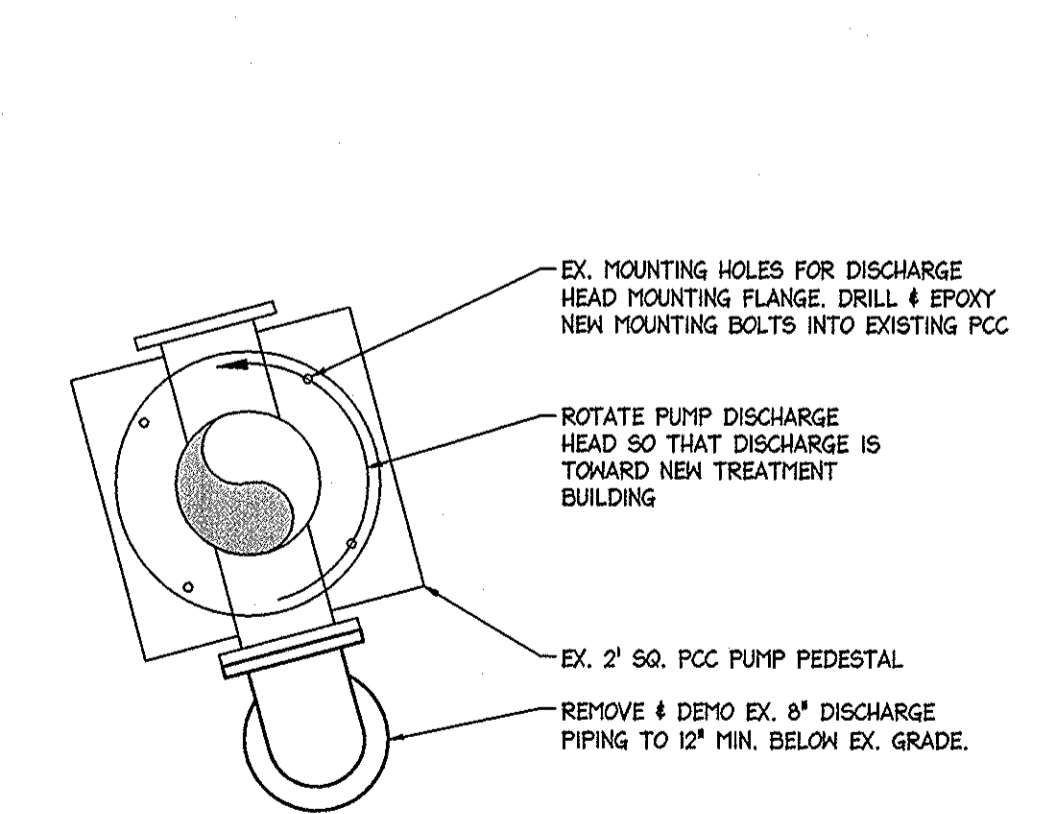
NEW PUMP DISCHARGE DETAIL

SCALE: N.T.S.



NEW ANCHOR BOLT DETAIL

SCALE: N.T.S.



PUMP ROTATION DETAIL

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

NOTE:
THE TWIN LAKES WELL IS CRITICAL INFRASTRUCTURE FOR OWNER & CAN NOT BE TAKEN OFFLINE FOR MORE THAN 3 DAYS, NOR DURING THE WEEK OF FOURTH OF JULY. NOTIFY OWNER OF SHUTDOWN 48 HRS IN ADVANCE. COORDINATE W/ OWNER FOR PREFERRED DATE OF SHUTDOWN. SHUTDOWN MAY NOT TAKE PLACE DURING ANY WEEKEND, HOLIDAY, OR OTHER SPECIAL EVENT DURING WHICH OWNER REQUIRES THE WELL TO BE OPERATIONAL. WELL MUST BE PROTECTED FROM THE ELEMENTS.

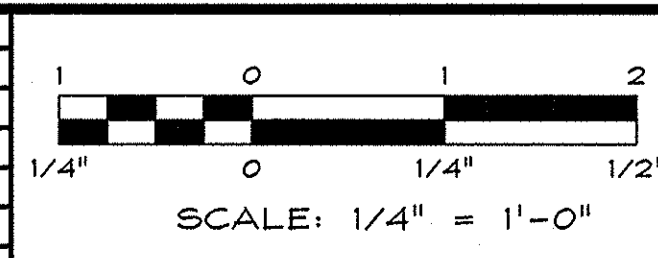
EQUIPMENT SCHEDULE

EFI - EXHAUST FAN 1 BY GREENHECK MODEL SEI-8-440-AV/G/A OR APPROVED EQUAL 100 CFM AT 0.125 IN. WG. PROVIDE W/ OSHA SIDE GUARD, MODEL WD 220 FLUSH EXTERIOR MOUNT BACKDRAFT DAMPER, W/ 230 VAC ACTUATOR. ACTUATOR SHALL ENGAGE WHEN EFI IS ENERGIZED. EFI TO BE CONTROLLED VIA REMOTE CONTROL WALL MOUNTED THERMOSTAT.

EUH1 - ELECTRIC UNIT HEATER BY QMARK, MODEL MUH0321 OR APPROVED EQUAL. 16, 240 VAC, 3 KW (10,200 BTU /HR), 12.5 AMP 240 VAC CONTROL VOLTAGE W/ 21023 UNIVERSAL WALL BRACKER & REMOTE MOUNT THERMOSTAT.

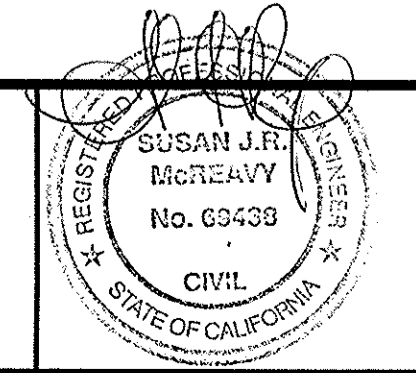
L1 - IN TAKE LOUVER BY GREENHECK MODEL VCD-34 INSULATED LOW LEAKAGE DAMPER OR APPROVED EQUAL. PROVIDE W/ 230 VAC ACTUATOR TO ENGAGE WHEN EFIS IS ENERGIZED. DAMPER SHALL BE PROVIDED W/ FLUSH EXTERIOR MOUNTING.

NO.	DATE	REVISION BLOCK	BY

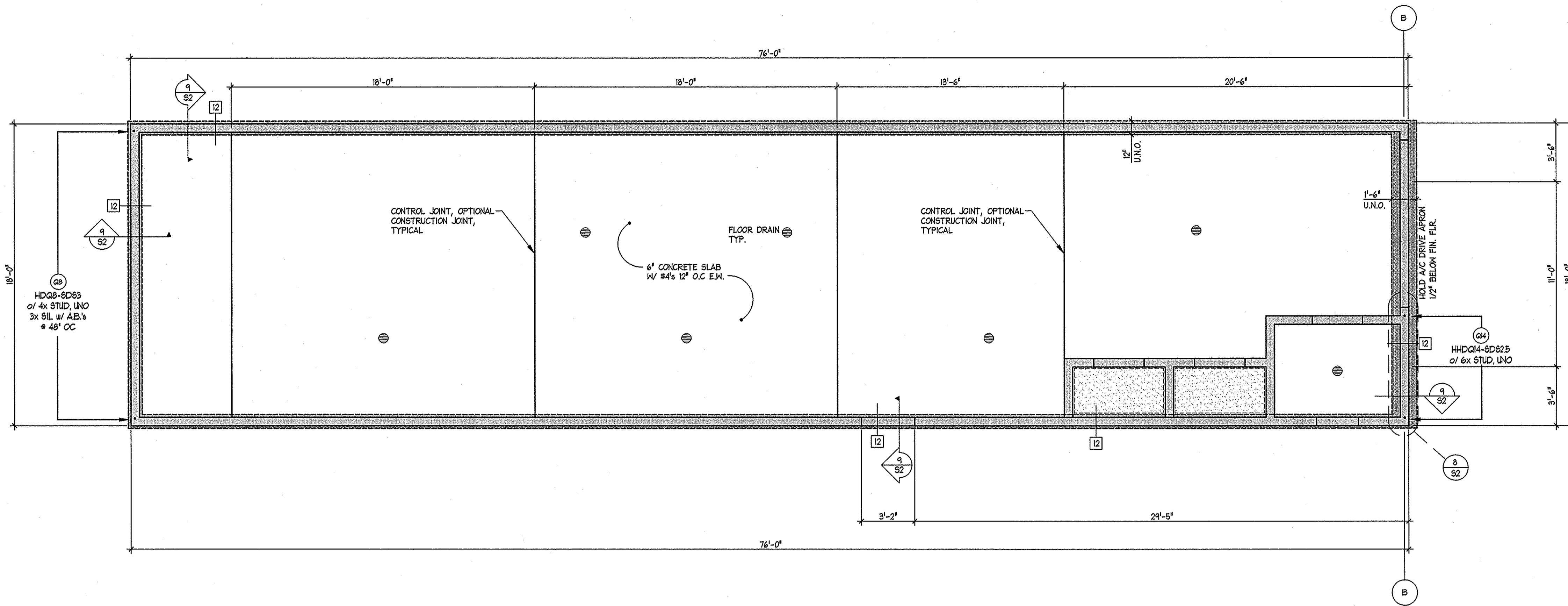


ARSenic REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

TWIN LAKES
WELL HOUSE



DRAWN: JWR/IAN	JOB: 0883-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: 1/4" = 1'-0"	SHEET: A.1.1
DATE: 5/12/17	OF: 31 SHEETS



CONCRETE SLABS:
SEE SHEET C6, GRADING PLAN AND SHEETS S1 & S2, STRUCTURAL PLANS.

ANCHOR BOLTS:
5/8" DIA. x 10" A.B. @ 4'-0" o.c. (UNO). MAX. 2 ANCHOR BOLTS PER BOARD MINIMUM, 12" FROM ENDS MAXIMUM. ANCHOR BOLTS EMBEDDED 7" INTO CONC. MINIMUM. INSTALL 3" x 3" x 1/4" PLATE WASHERS ON EACH ANCHOR BOLT.

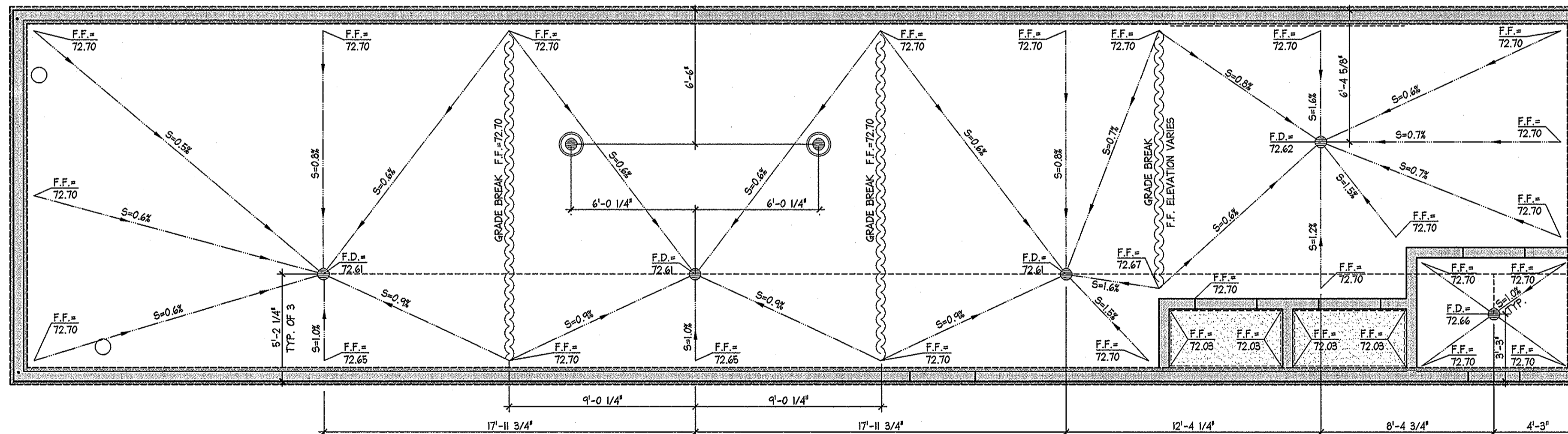
VAPOR BARRIER:
6 MIL. VISQUEEN VAPOR BARRIER (OR EQUIVALENT) LAID ON SAND.

LANDINGS:
PER 2016 CBC SECTION 100.1.5

○ - SYMBOL INDICATES A HOLDDOWN - SEE HOLDDOWN SCHEDULE, SHEET S1.
PROVIDE ANCHOR BOLT TO MATCH HOLDDOWN SPECIFIED - SEE HOLDDOWN SPECIFICATION TABLE, SHEET S1.
□ - SYMBOL INDICATES A FOOTING - SEE FOOTING SCHEDULE, SHEET S1.
○ - SYMBOL INDICATES A PIER - SEE PIER SCHEDULE, SHEET S1.
- CONTRACTOR TO VERIFY HOLDDOWN LOCATIONS AT SHEAR WALLS
- SEE SHEET S2 FOR STANDARD STRUCTURAL DETAILS PER APPLICATION.

FOUNDATION PLAN

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

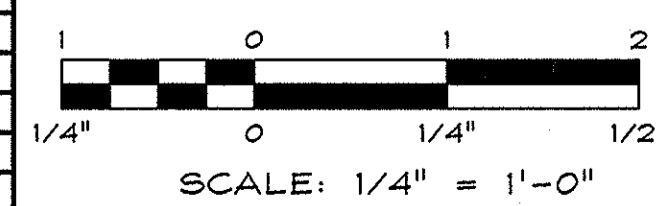


NOTE: MAXIMUM FLOOR SLOPE SHALL BE 2.0% AND MINIMUM FLOOR SLOPE SHALL BE 0.5%

FOUNDATION PLAN - GRADING

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

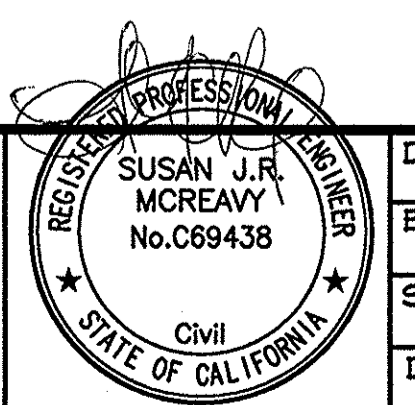
NO.	DATE	REVISION BLOCK	BY



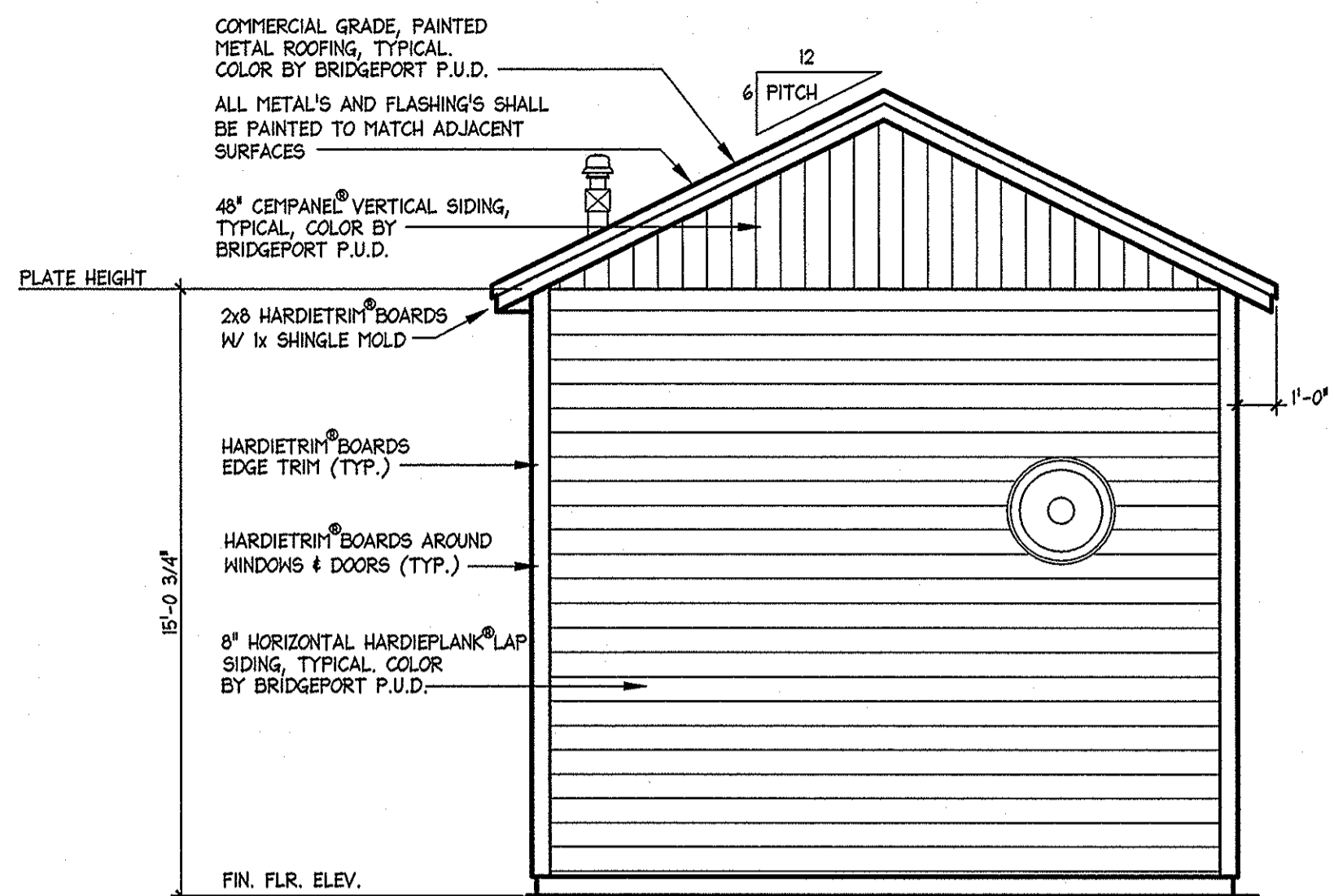
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HINDEN, NEVADA 89423
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**ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT**

FOUNDATION PLAN

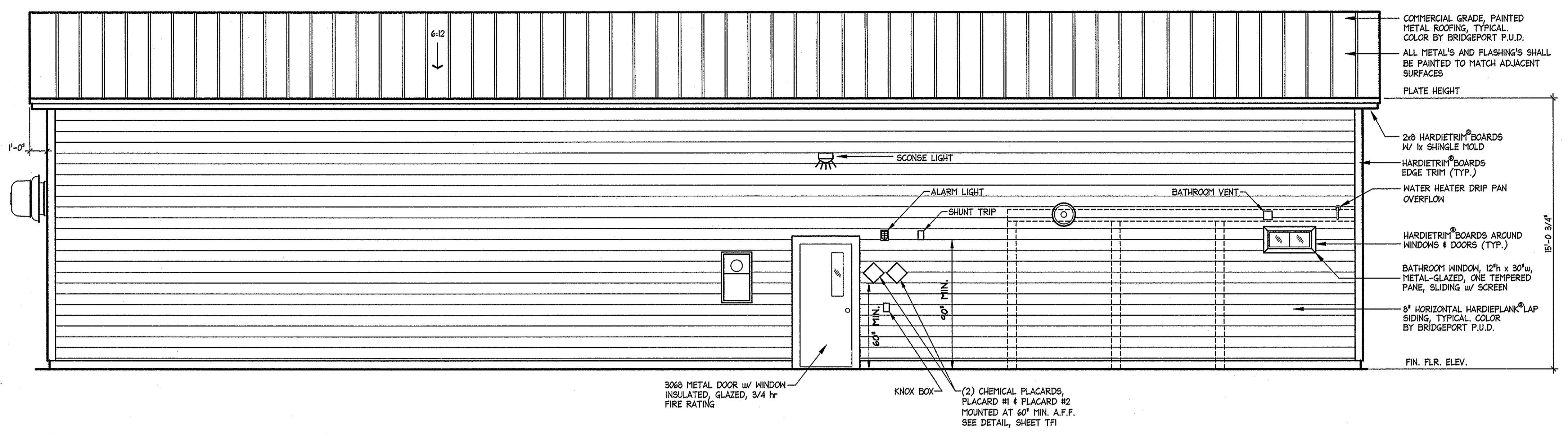


DRAWN: MGR/WAN
ENGINEER: SJRM
SCALE: 1/4" = 1'-0"
DATE: 5/12/17
JOB: 0883-029
DRAWING: SEE PLOT STAMP
SHEET: **A2**
OF: 31 SHEETS



REAR (WEST) ELEVATION

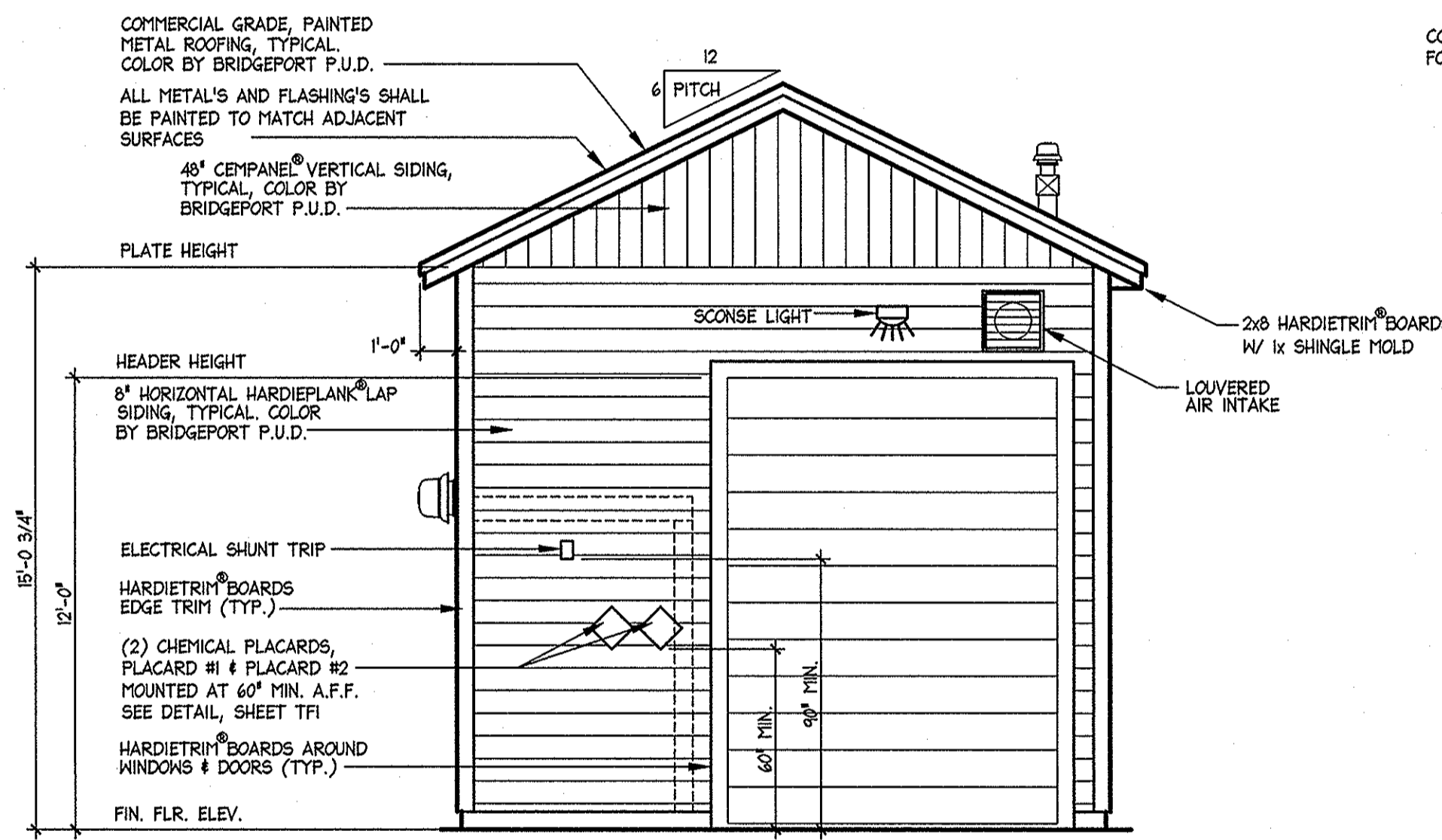
SCALE: 1/4" = 1'-0"



SOUTH SIDE ELEVATION

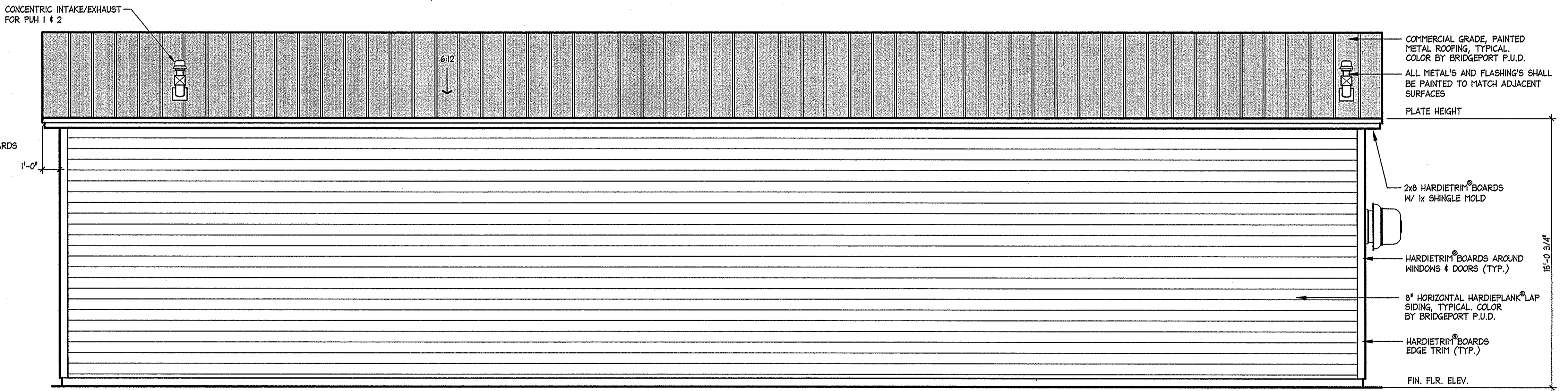
SCALE: 1/4" = 1'-0"

ATTIC VENTILATION
ATTIC VENTILATION PER 2016 CBC SECTION 1203 USE GABLE END VENTS, ROOF JACKS, AND EAVE VENTS.
DRAINAGE
PROVIDE DRAINAGE AWAY FROM BUILDING PER SITE PLAN



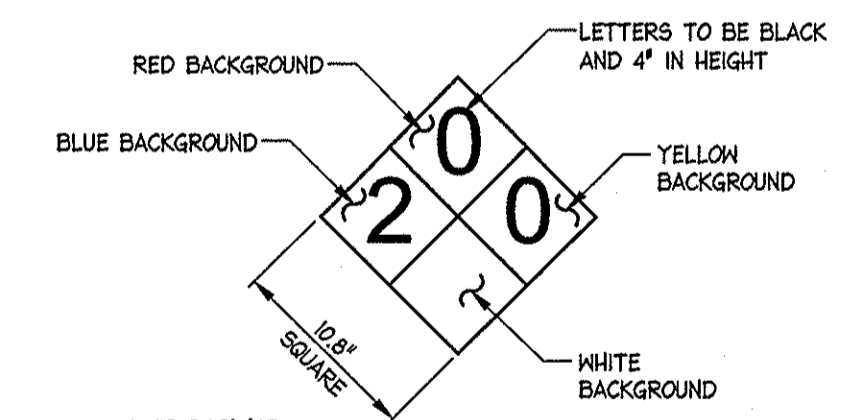
FRONT (EAST) ELEVATION

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



NORTH SIDE ELEVATION

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



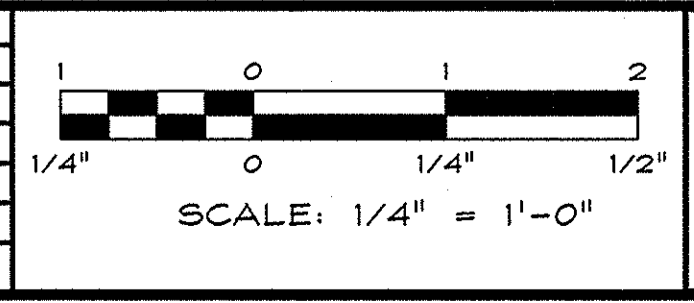
LEGEND:
 ● 2 (Blue - Health)
 ○ (Red - Flammability)
 ○ (Yellow - Instability/Reactivity)
 ○ (White - Blank)
 The bottom square will be blank and white because there are no special conditions for this chemical.

DIAMOND PLACARD DETAIL
SCALE: NTS
PLACARD #1 - FOR SODIUM HYPOCHLORITE
PLACARD #2 - FOR "OTHER" CHEMICAL

NOTE:
 1. MOUNT ONE OF EACH PLACARD AT BOTH OUTSIDE DOORS WITH PLACARD #1 ON THE SODIUM HYPOCHLORITE ROOM DOOR AND PLACARD #2 ON THE "OTHER" CHEMICAL ROOM DOOR, FOR A TOTAL OF SIX (6) PLACARDS.
 2. PLACARD DETAIL SHOWS COLORS AND NUMBERS FOR SODIUM HYPOCHLORITE ONLY, THE PLACARD FOR "OTHER" CHEMICAL, TO BE DETERMINED.

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NO.	DATE	REVISION BLOCK	BY

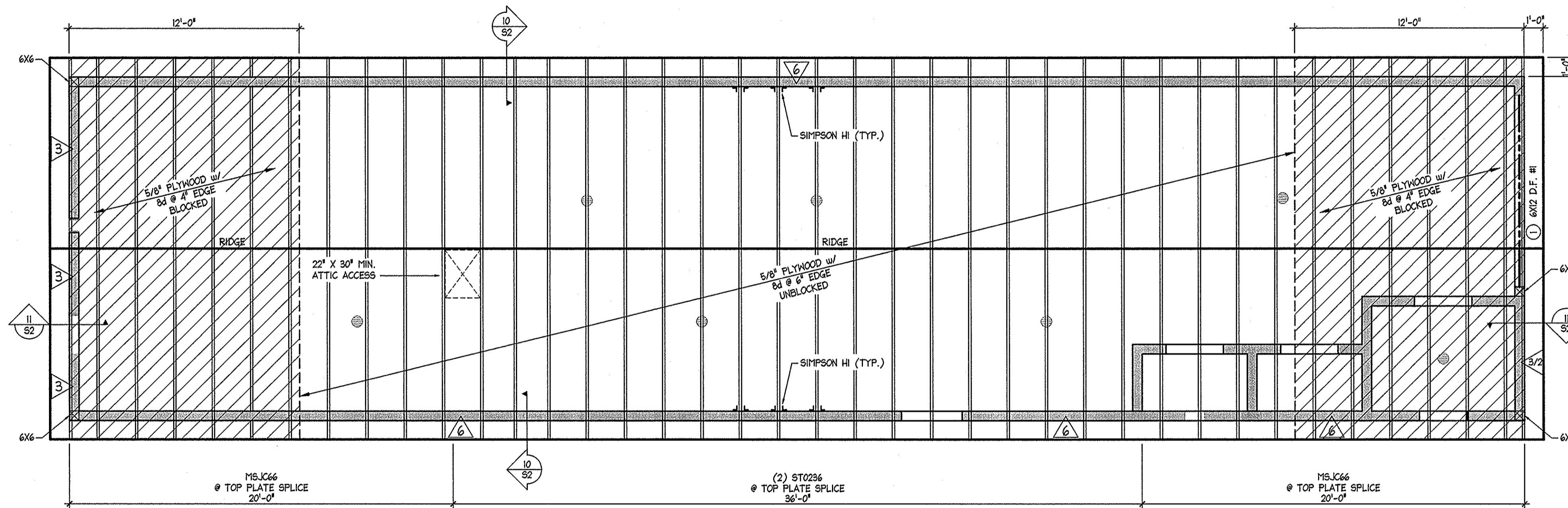


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ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

EXTERIOR ELEVATIONS

DRAWN: MCR/WAN
 ENGINEER: SJRM
 SCALE: 1/4" = 1'-0"
 DATE: 5/12/17
 JOB: 0883-029
 DRAWING: SEE PLOT STAMP
 SHEET: **A3**
 OF: 31 SHEETS



ROOF FRAMING PLAN

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

ATTIC VENTILATION CALCULATIONS:
 1,368 SQ. FT. = 91 SQ. FT. OF REQUIRED VENTILATION
 150

PROVIDED A MINIMUM OF 50% OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3'-0" ABOVE EAVE OR CORNICE VENTS PROVIDE 4.5 SQ. FT. OF VENTILATION AT OR NEAR RIDGE. PROVIDE 4.6 SQ. FT. OF VENTILATION AT EAVE LINE.

ATTIC VENTILATION PER 2016 CBC SECTION R203.2
 NOTE: THE VENTILATING AREA MAY BE 1/300 OF THE AREA OF SPACE VENTILATED PROVIDED A VAPOR RETARDER IN ACCORDANCE WITH ASTM E 98 IS INSTALLED ON THE WARM SIDE OF THE ATTIC INSULATION

ROOFING:
 STANDING SEAM METAL ROOF w/ GAFGLAS® MINERAL SURFACED CAP SHEET INSTALL PER MANUFACTURER'S SPECIFICATIONS AND 2016 CBC SECTION 1507, OVER UNDERLAYMENT PER SECTION 1507.4.5

SHEATHING:
 5/8" CDX PLYWOOD (OR EQUAL) EXPOSURE 1, APA SPAN RATED (40/20), STAGGER JOINTS - NAIL WITH 8d COMMON PER 2016 CBC TABLE 2306.3(1), UNO.

TRUSSES:
 PRE-MANUFACTURED ENGINEERED TRUSSES @ 24" o.c.
 PROVIDE 2x STUD PER TRUSS FLY @ ALL GIRDER BRG. POINTS, U.N.O. DOWN TO HEADER OR SOLE PLATE. SOLID VERTICAL BLOCK AT FLOOR SYSTEM. STACK IN WALL FRAMING IN ALL LEVELS DOWN TO FOUNDATION.

NOTE: SEE TRUSS CALCULATIONS FOR TRUSS DESCRIPTIONS

HEADERS:
 6x6 D.F. #1 (TYPICAL UNLESS OTHERWISE NOTED)

TRIMMERS:
 DOUBLE TRIMMERS AT OPENINGS GREATER THAN 6'-0"
 DOUBLE KING STUDS AT OPENINGS GREATER THAN 8'-0"

METAL CONNECTORS:
 TRUSS HANGERS PER MANUFACTURERS
 SIMPSON HI CLIPS @ ALL TRUSS BEARING POINTS ON PLATES & BEAMS
 SIMPSON HB CLIPS (O/S) @ ALL RAFTER BEARING POINTS ON PLATES & BEAMS
 SIMPSON H6 CLIPS (B/S) @ ALL GIRDER TRUSS BEARING POINTS, UNO.
 SIMPSON FC & GC POST CAPS (AS NOTED)
 SIMPSON ST, MST, & LSTA STRAPS (AS NOTED)

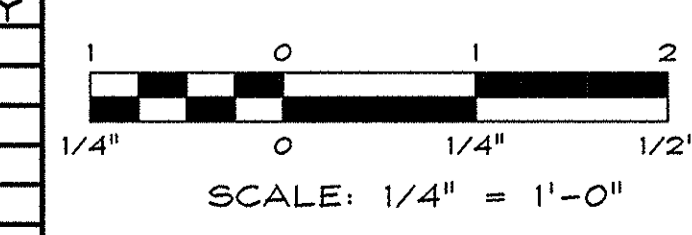
OUTLOOKERS:
 2x4 D.F. #2 OUTLOOKERS AT 24" O.C.

ATTIC ACCESS:
 22"X30" MIN. - PER 2016 CBC 1209.2

STRUCTURAL ENGINEERING NOTES
 - SEE SHEET S2 FOR STANDARD STRUCTURAL DETAILS PER APPLICATION.
 - WHERE POSTS AND MULTIPLE STUDS ARE SPECIFIED, THEY ARE TO BE STACKED IN ALL WALL FRAMING AND SOLID VERTICAL GRAIN BLOCKING SHALL BE PROVIDED AT ALL FLOOR LEVELS DOWN TO THE FOUNDATION OR HEADOUT.
 - CONTRACTOR TO PROVIDE TRUSS CALCS FOR REVIEW AND APPROVAL BY PROJECT ENGINEER. DO NOT CHANGE TRUSS MANUFACTURERS OR TRUSS LAYOUT SHOWN HERE WITHOUT THE APPROVAL OF THIS PROJECT ENGINEER.
 - CONTRACTOR TO VERIFY TRUSS SPANS, DEFLECTIONS, PROFILES, CONNECTIONS, ETC. WITH TRUSS MANUFACTURER PRIOR TO CONSTRUCTION. DO NOT DEVIATE FROM HANGERS SPECIFIED ON PLANS UNLESS VERIFIED BY PROJECT ENGINEER.

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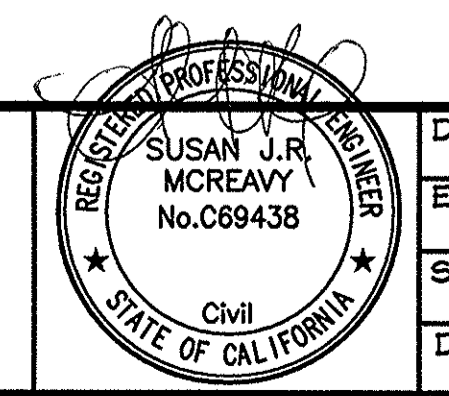
NO.	DATE	REVISION BLOCK	BY



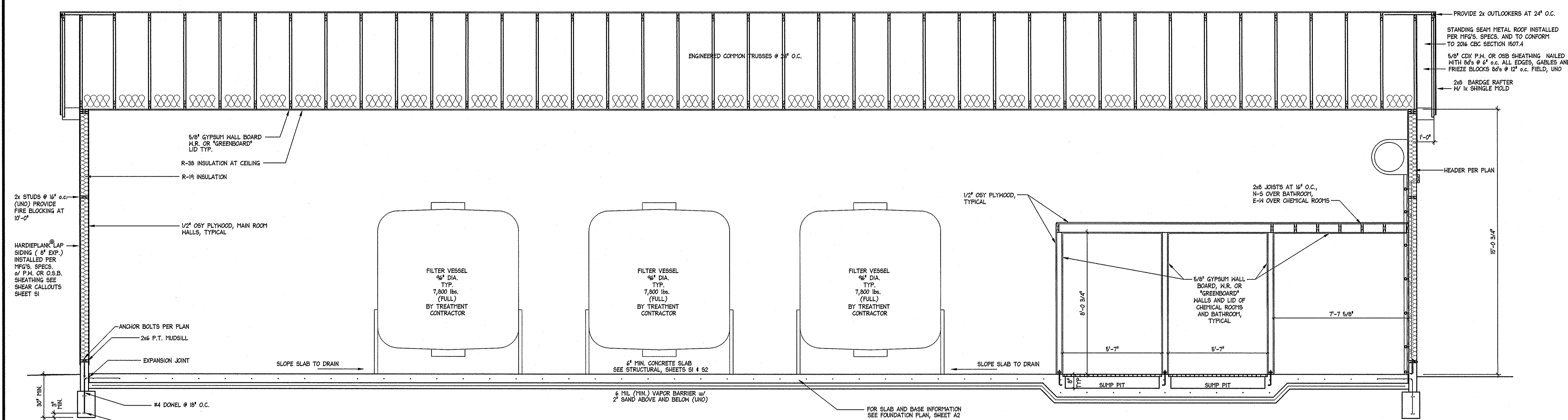
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 WEB SITE: WWW.ROANDERSON.COM

ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

ROOF FRAMING PLAN

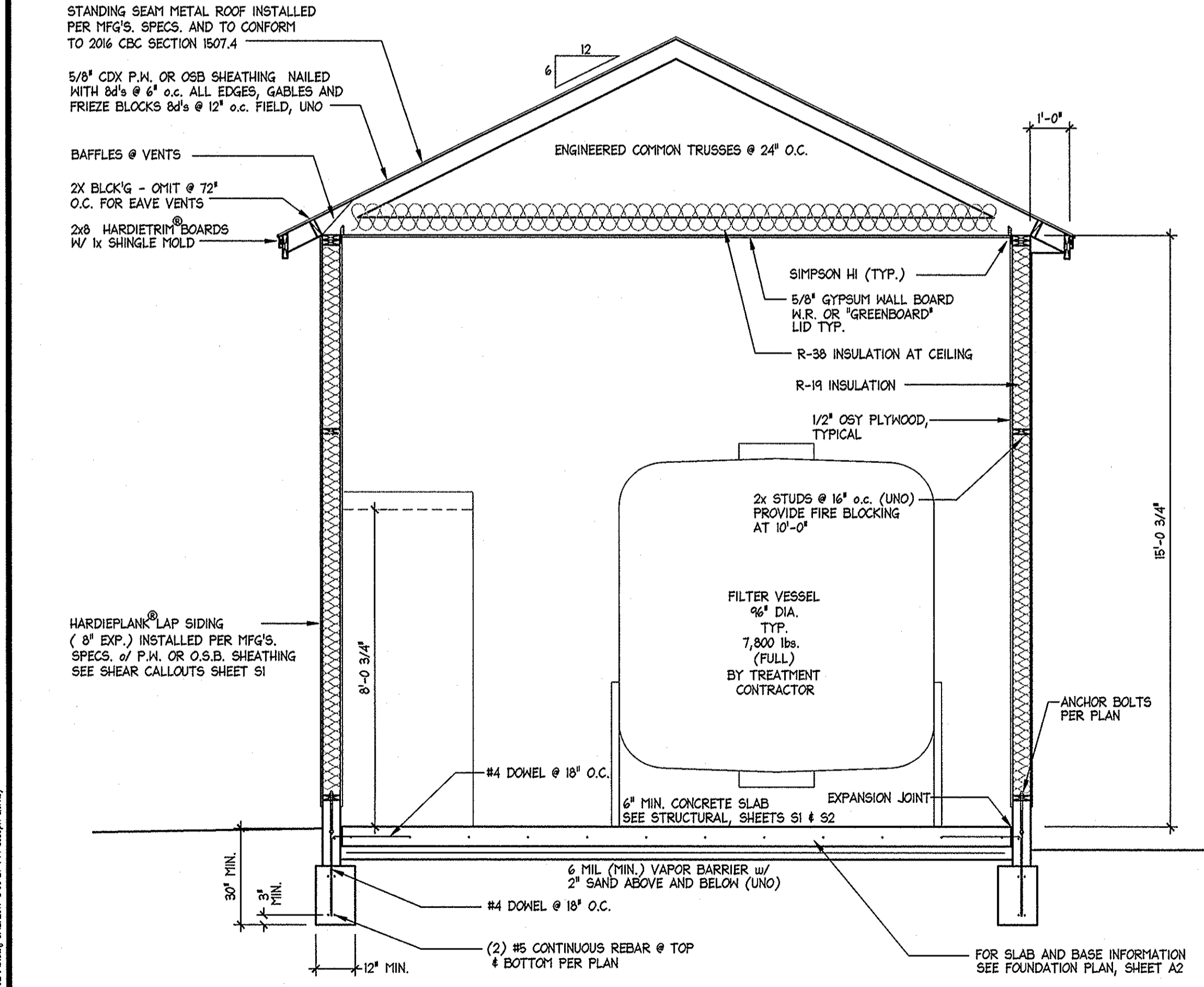


DRAWN: MCR/WAN	JOB: 0883-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: 1/4" = 1'-0"	SHEET: A4
DATE: 5/12/17	OF: 31 SHEETS



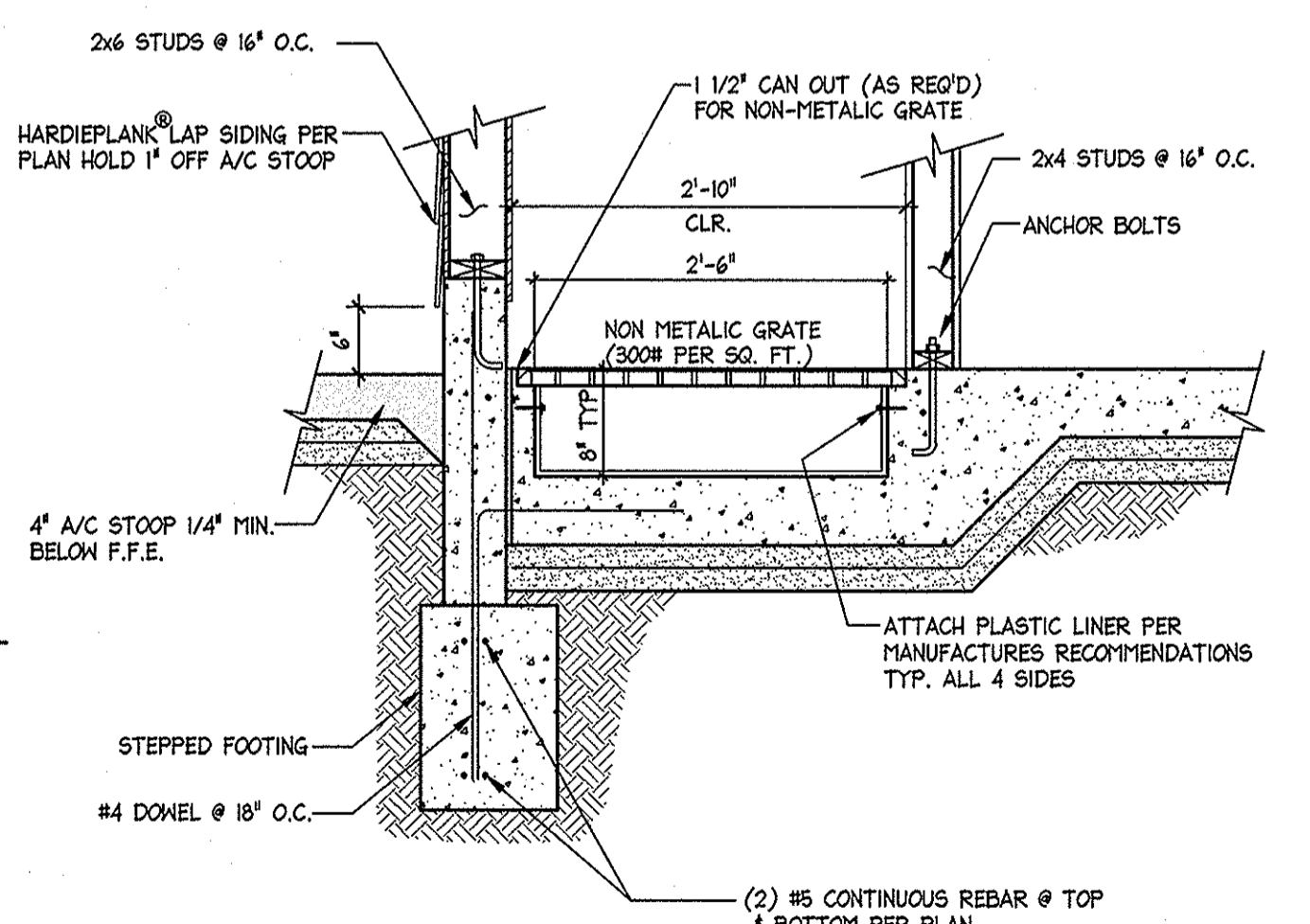
SECTION B

SCALE: 3/8" = 1'-0"



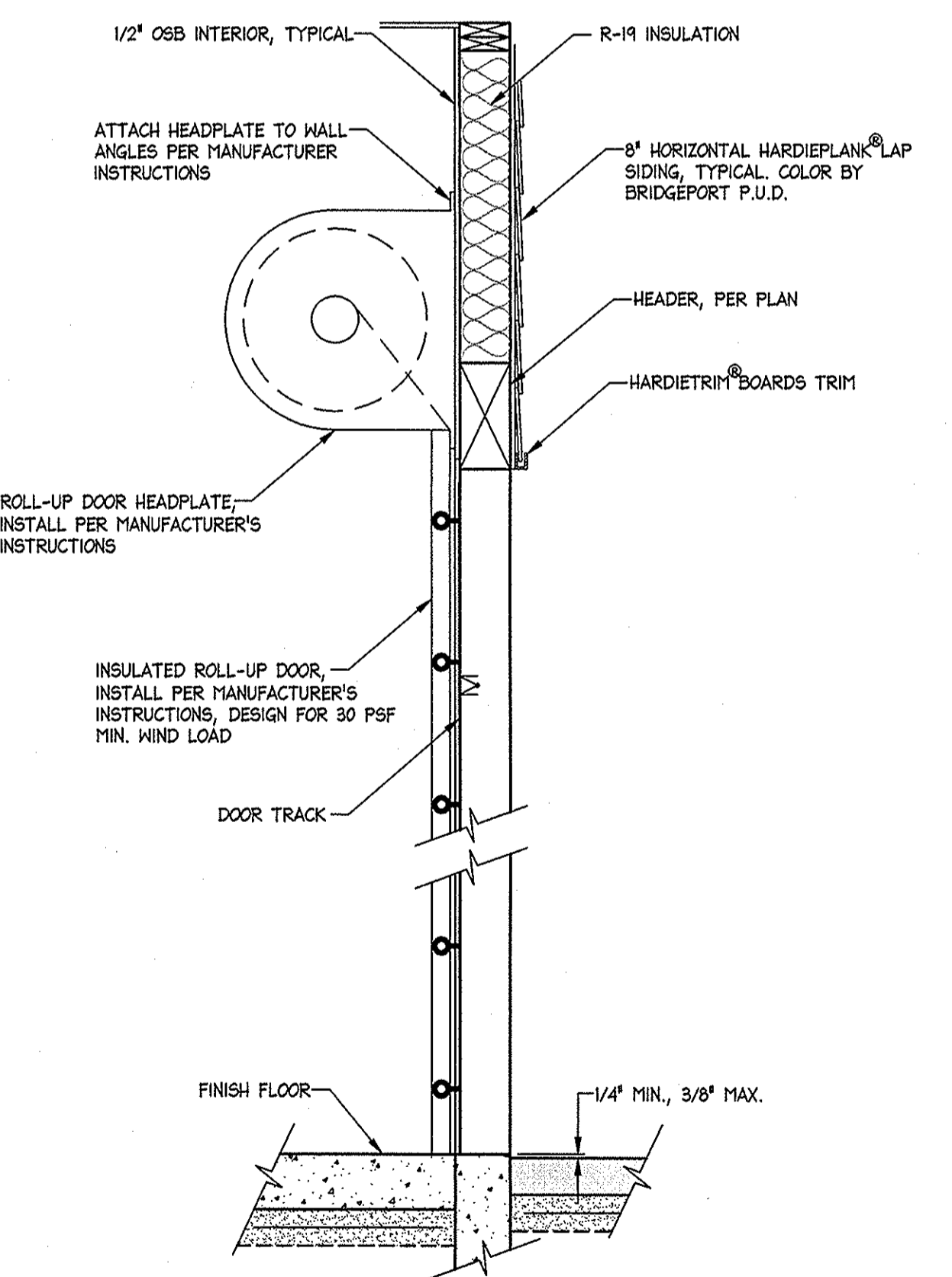
SECTION A

SCALE: 3/8" = 1'-0"



DETAIL AT SUMP

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

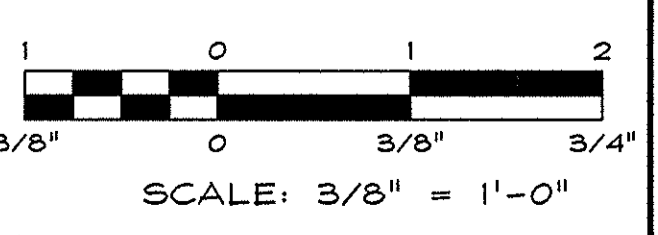


SECTION C

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

- ROOFING:**
COMMERCIAL GRADE STANDING SEAM METAL ROOF WITH GAUGLAS® MINERAL SURFACED CAP SHEET INSTALL PER MANUFACTURER'S SPECS. AND 2016 CBC SECTION 1507.4, OVER UNDERLAYMENT PER SECTION 1507.4.5
- SHEATHING:**
5/8" CDX PLYWOOD (OR EQUAL) EXPOSURE 1, APA SPAN RATED (40/20). STAGGER JOINTS - NAIL WITH 8d @ 6" o.c. ALL EDGES, GABLE ENDS, AND FRIEZE BLOCKS. 8d @ 12" o.c. FIELD
- TRUSSES:**
PRE-MANUFACTURED ENGINEERED TRUSSES @ 24" o.c.
PROVIDE 2x STUD PER TRUSS PLY @ ALL GIRDER BRG. POINTS @ PLATES. U.N.O.
NOTE: SEE TRUSS CALCULATIONS FOR TRUSS DESCRIPTIONS
- FILL SECTIONS:**
RIDGE 2x6 DF #2 OR BETTER
RAFTERS 2x6 DF #2
VALLEY KICKER 2x6 DF #2
- HEADERS:**
6x8 D.F. #1 (TYPICAL UNLESS OTHERWISE NOTED)
- TRIMMERS:**
DOUBLE TRIMMERS AT OPENINGS GREATER THAN 6'-0"
DOUBLE KING STUDS AT OPENINGS GREATER THAN 8'-0"
- SIDING:**
HARDIEPLANK® LAP SIDING (8" EXP.) INSTALLED PER MFG'S SPECS. AND PER 2016 CBC SECTION 1405.16
- CONCRETE SLABS:**
PROVIDE 6" CONCRETE SLAB ON GRADE WITH #4'S AT 24" o.c. E.I.H. PREPARE GRADE WITH 4" OF SAND & GRAVEL AGGREGATE BASE COMPACTED TO 95% OF RELATIVE COMPACTION.
PROVIDE A PERIMETER & INTERIOR EXPANSION JOINTS AS REQUIRED, AND PROVIDE CONTROL JOINTS ON AN INCREMENTAL BASIS.
- EXTERIOR FLATWORK:**
SEE SITE PLAN
- SILLS & PADS:**
2x PRESSURE TREATED LUMBER (TYP.)
- ANCHOR BOLTS:**
5/8" DIA. x 10" A.B. @ 4'-0" o.c. (UNO). MAX. 2 ANCHOR BOLTS PER BOARD MINIMUM, 12" FROM ENDS MAXIMUM. ANCHOR BOLTS EMBEDDED 7" INTO CONC. MINIMUM. INSTALL 3" x 3" x 1/4" PLATE WASHERS ON EACH ANCHOR BOLT.
- VAPOR BARRIER:**
6 MIL. VISQUEEN VAPOR BARRIER (OR EQUIVALENT) LAID ON SAND.
- LANDINGS:**
PER 2016 CBC SECTION 1001.15
- METAL CONNECTORS:**
ALL HANGERS SPECIFIED ARE SIMPSON STRONG TIE OR EQUIVALENT.

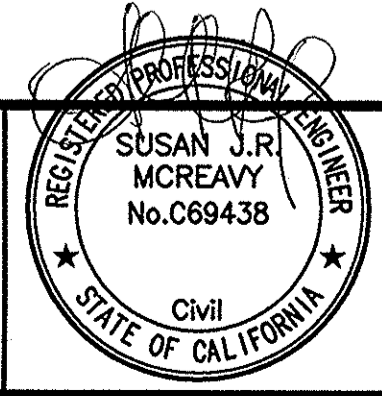
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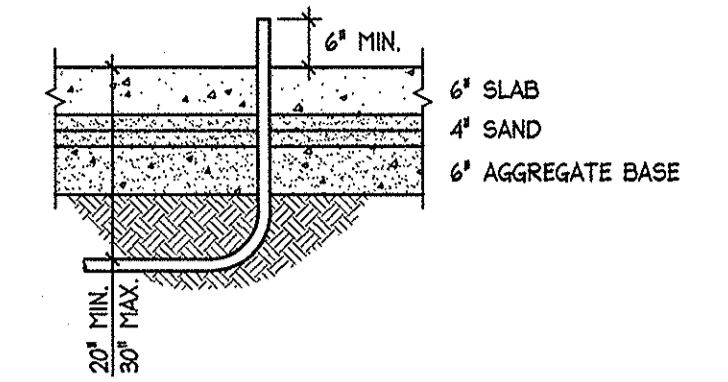
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ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

SECTIONS

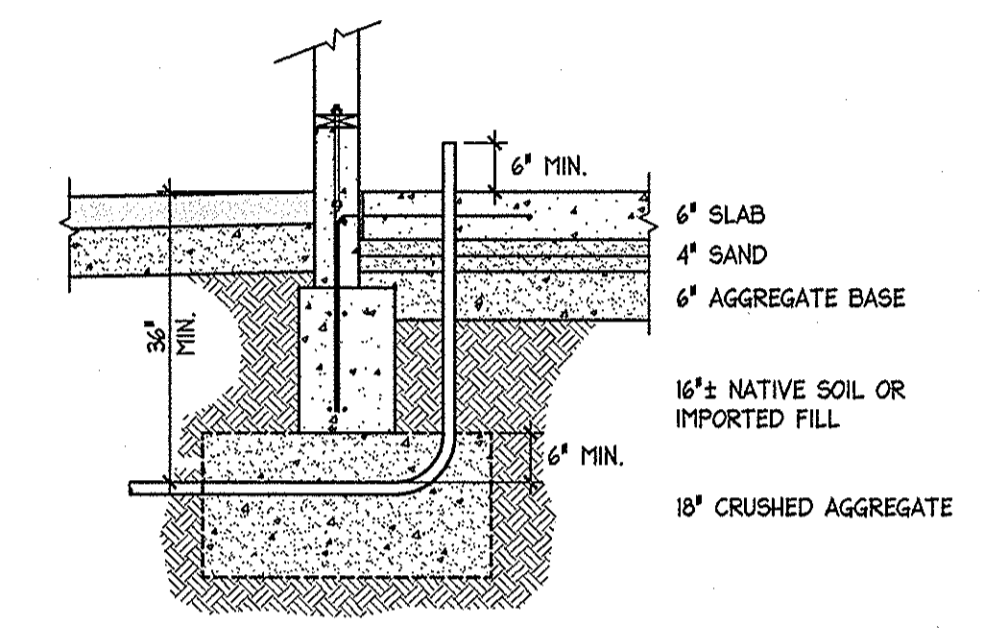


DRAWN: MCR/WAN	JOB: 0883-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: AS NOTED	SHEET: A5
DATE: 5/12/17	OF: 31 SHEETS



CONDUITS UNDER SLABS ONLY

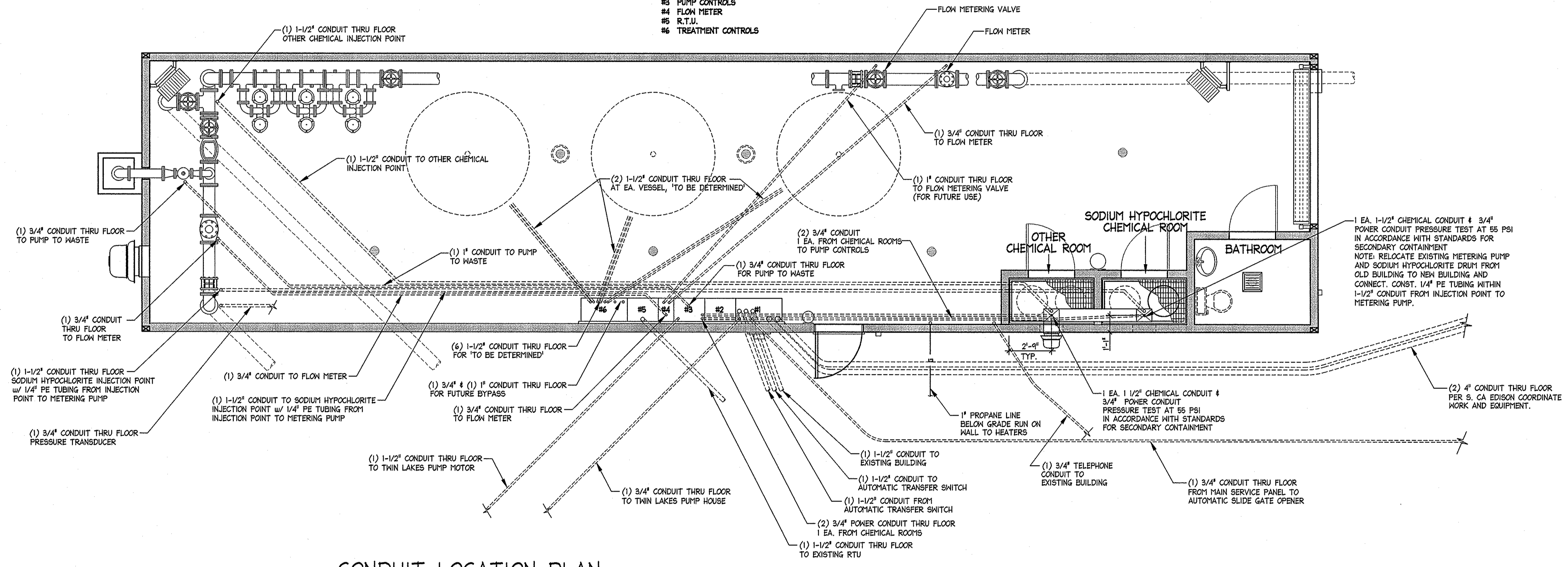
SCALE: 3/8" = 1'-0"



CONDUITS UNDER SLAB & FOOTING

SCALE: 3/8" = 1'-0"

- ELECTRICAL CABINET DESIGNATIONS:**
- #1 LOAD CENTER
 - #2 TRANSFORMER
 - #3 PUMP CONTROLS
 - #4 FLOW METER
 - #5 R.T.U.
 - #6 TREATMENT CONTROLS

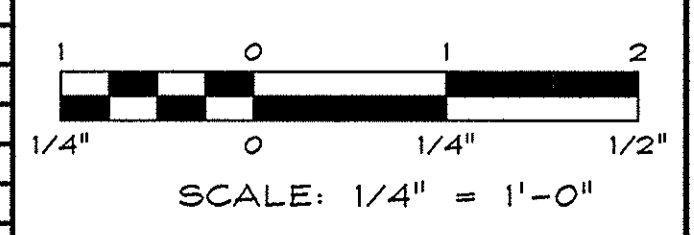


CONDUIT LOCATION PLAN

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

NOTE:
VERIFY ALL CONDUIT LOCATIONS WITH
ENGINEER AND ELECTRICAL DRAWINGS
BEFORE INSTALLATION

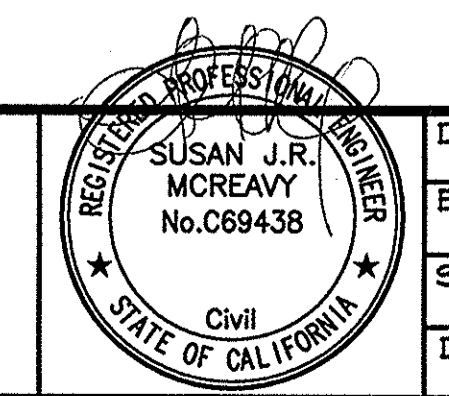
NO.	DATE	REVISION BLOCK	BY



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**ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT**

**CONDUIT PLAN
UNDER SLAB**



DRAWN: MCR/WAN	JOB: 0883-029
ENGINEER: SJRM	DRAWING: SEE PLOT STAMP
SCALE: 1/4" = 1'-0"	SHEET: A6
DATE: 5/12/17	OF: 31 SHEETS

ELECTRICAL SYMBOL LIST

ELECTRICAL ABBREVIATIONS

- CONDUIT RUN IN OR ON CEILING OR WALL
- CONDUIT RUN IN OR UNDER FLOOR OR UNDERGROUND
- HASH MARKS INDICATE NUMBER OF #12 AWG CONDUCTORS IN CONDUIT. NO MARKS INDICATE 2 #12'S. DOES NOT INCLUDE GROUND WIRE. IF NON-METALLIC CONDUIT ADD GROUND PER NEC.
- LA-1 HOMERUN TO PANEL WITH PANEL AND CIRCUIT INDICATED
- L-(2,4) HOMERUN TO PANEL WITH CIRCUIT NUMBER IN BRACKETS INDICATING MULTI-POLE BREAKER.
- RACEWAY UP
- RACEWAY DOWN
- FLEX CONDUIT TO LAY-IN FIXTURE IN CEILING
- ON HA-6 "ON" INDICATES CIRCUITING IS SPLIT AT DIFFERENT LOCATIONS
- FLUORESCENT FIXTURE - SURFACE OR PENDANT MOUNT
- FLUORESCENT FIXTURE - LAY-IN
- FLUORESCENT FIXTURE - RECESSED
- FLUORESCENT FIXTURE - STRIP LIGHT
- FLUORESCENT FIXTURE - WITH 90 MINUTUE BATTERY PACK. NL INDICATES NIGHT LIGHT ON UNSWITCHED CIRCUIT
- CAN FIXTURE - CEILING, PENDANT OR WALL MOUNTED
- CAN FIXTURE - RECESSED
- EXIT LIGHT - WITH OR WITHOUT DIRECTIONAL ARROWS AS INDICATED (SHADED PORTION INDICATES ILLUMINATED SURFACE) - ON UNSWITCHED CIRCUIT
- TRACK LIGHT
- BOLLARD
- EMERGENCY BATTERY UNIT ON UNSWITCHED CIRCUIT
- FLOOD LIGHT
- SINGLE POLE SWITCH +48" AFF
- FRACTIONAL HORSEPOWER MOTOR MANUAL STARTER
- MOMENTARY CONTACT SWITCH +48" AFF
- AUTOMATIC WALL SWITCHES, GREENGATE #ONW-D-1001-MV-N, +48" AFF
- DUAL LEVEL AUTOMATIC WALL SWITCHES, GREENGATE #ONW-P-1001-DMV-W +48" AFF
- MANUAL DIMMER SWITCH, +48" AFF
- AUTOMATIC TIMER SWITCH, + 48 AFF
- MOTION DETECTOR
- PHOTOCELL SENSOR
- MOTOR SYMBOL - HORSEPOWER AS INDICATED
- DISCONNECT SWITCH (30A/3P UNLESS INDICATED ON DWGS) "F" INDICATES FUSES PER MANUFACTURERS NAMEPLATE RATING
- MAGNETIC MOTOR STARTER (SIZE AS INDICATED ON DRAWINGS)
- COMBINATION STARTER / FUSED DISCONNECT SWITCH (SIZE AS INDICATED ON DRAWINGS - FUSES SIZED PER MANUFACTURER'S NAMEPLATE RATING)
- 120V DUPLEX CONVENIENCE RECEPTACLE +18" AFF
- JUNCTION BOX AS REQUIRED BY NATIONAL ELECTRIC CODE
- AUXILIARY SYSTEM TERMINAL CABINET
- PRECAST CONCRETE PULLBOX (SIZE AS INDICATED)
- REMOTE METER ENCLOSURE +6'-0" AFG TO CENTERLINE
- JUNCTION BOX AS REQUIRED BY NATIONAL ELECTRIC CODE

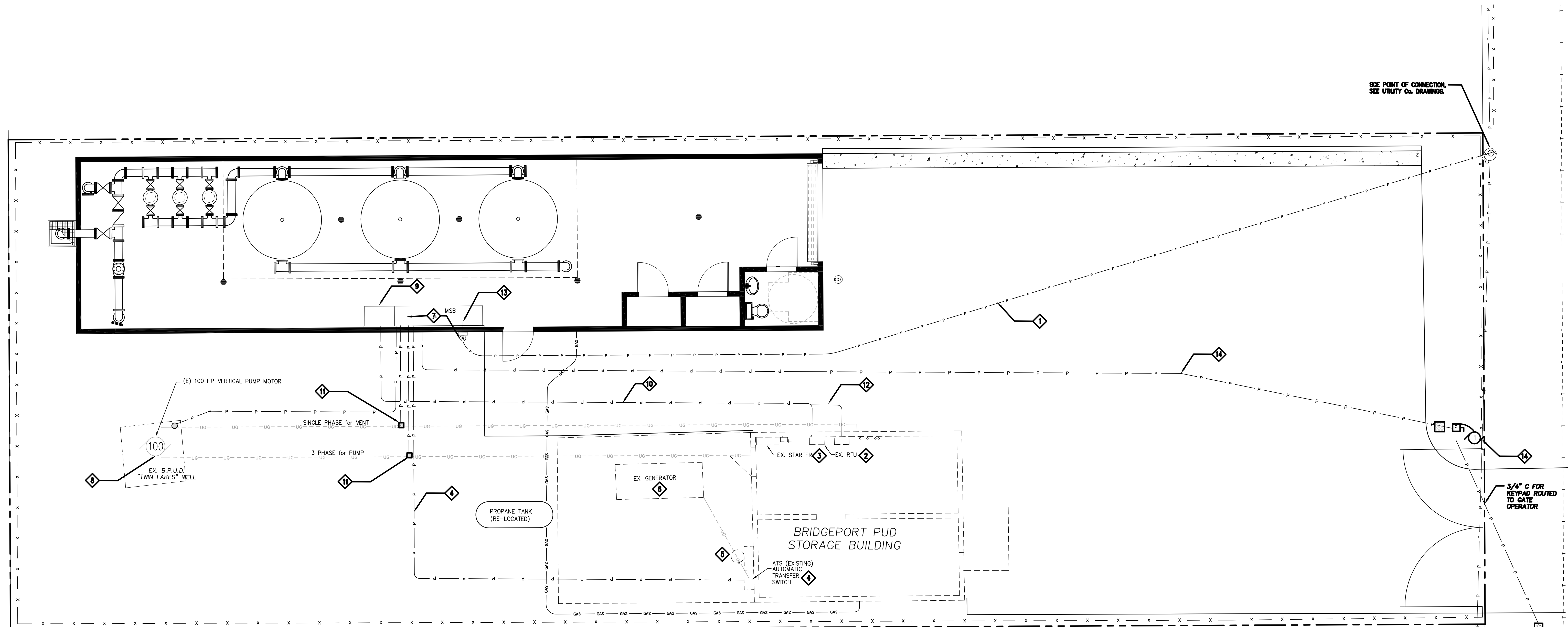
- ELECTRICAL PANELBOARD - SURFACE MOUNTED
- ELECTRICAL PANELBOARD - FLUSH MOUNTED
- SERVICE OR DISTRIBUTION EQUIPMENT
- TRANSFORMER
- AUXILIARY SYSTEM TERMINAL CABINET
- REMOTE METER ENCLOSURE +6'-0" AFG TO CENTERLINE
- FIRE SMOKE DAMPER
- COMBINATION CO2/SMOKE DETECTOR
- SMOKE DOOR CLOSURE - (HOLD OPEN DEVICE)
- EMERGENCY SHUNT TRIP DISCONNECT
- SHEET NOTE
- LIGHT FIXTURE DESIGNATION & WATTAGE. SEE FIXTURE SCHEDULE
- MECHANICAL EQUIPMENT DESIGNATION.
- FEEDER - SIZE AS INDICATED ON SINGLE LINE DIAGRAM
- DETAIL DESIGNATION - "B" INDICATES DETAIL # ON SHEET E3.1
- ROOM NUMBER
- POWER POLE
- ENTRY KEYPAD
- FLOW METER
- LEVEL TRANSDUCER
- MOISTURE SENSOR
- PRESSURE TRANSDUCER

* NOTE: ALL MOUNTING HEIGHTS AS INDICATED UNLESS NOTED OTHERWISE.
ALL SYMBOLS MAY NOT BE USED ON PROJECTS.

- 1PH SINGLE-PHASE
- 1P SINGLE POLE
- 2/C TWO-CONDUCTOR
- 3/C THREE-CONDUCTOR
- 3PH THREE-PHASE
- 4/C FOUR-CONDUCTOR
- 4W FOUR-WIRE
- A/C UNIT AIR CONDITIONING UNIT
- A/E ARCHITECT/ENGINEER
- AAP ALARM ANNUNCIATOR PANEL
- AC ALTERNATING CURRENT OR ARMORED CABLE
- ACC ACCESSIBLE
- ADDL ADDITIONAL
- ADJ ADJACENT, ADJOINING
- ADO AUTOMATIC DOOR OPENER
- AF AMPERE FRAME OR AMP FUSE
- AFC ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AH AMPERE HOUR
- AHJ AUTHORITY HAVING JURISDICTION
- AIC AMPERE INTERRUPTING CAPACITY
- ALT ALTERNATE
- AMB OR A AMBIENT
- AMP AMPERE
- ARCH ARCHITECT
- ASC AMPS SHORT CIRCUIT
- AT AMPERE TRIP
- ATS AUTOMATIC TRANSFER SWITCH
- AUTO AUTOMATIC
- AV AUDIO VISUAL
- BAT BATTERY
- BC BARE COPPER
- BD BOARD
- BFF BELOW FINISH FLOOR
- BIL BASIC INSULATION LEVEL
- BLDG BUILDING
- BPIP BOILER PLANT INSTRUMENTATION PANEL
- BRKR BREAKER
- BYP BY PASS
- C CONDUIT
- CAB CABINET
- CALC CALCULATE
- CAP CAPACITY
- CAT CATALOG
- CATV COMMUNITY ANTENNA TELEVISION
- CCR CONTROL CONTACTOR
- CCTV CLOSED CIRCUIT TELEVISION
- cd CANDELA
- CD CONSTRUCTION DOCUMENTS
- CF CONTRACTOR FURNISHED
- CF/CI CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
- CT CURRENT TRANSFORMER
- CTV CABLE TELEVISION
- CU COPPER
- CU FT CUBIC FEET
- CUR CURRENT
- DB DECIBEL OR DIRECT BURIAL
- DC DIRECT CURRENT
- DCS DISTRIBUTED CONTROL SYSTEM
- DEG C DEGREES CELSIUS
- DEG F DEGREES FAHRENHEIT
- DEMO DEMOLITION
- DIAG DIAGRAM
- DISC DISCONNECT
- DISTR DISTRIBUTION
- DISTR PNL DISTRIBUTION PANEL
- DMR SW DIMMER SWITCH
- DN DOWN
- DPDT DOUBLE POLE, DOUBLE THROW
- DPST DOUBLE POLE, SINGLE THROW
- DRSW DOOR SWITCH
- DS DISCONNECT SWITCH
- DWG DRAWING

- (E) EXISTING
- CF/OI CONTRACTOR FURNISHED/OWNER INSTALLED
- CFE CONTRACTOR FURNISHED EQUIPMENT
- CKT CIRCUIT
- CKT BRKR CIRCUIT BREAKER
- CLF CURRENT LIMITING FUSE
- COAX COAX CABLE
- COMM COMMUNICATION
- COMPMT COMPARTMENT
- CONC CONCRETE
- CONT CONTINUE
- CONTR CONTRACTOR
- COORD COORDINATE
- CPT CONTROL POWER TRANSFORMER
- EC EMPTY CONDUIT
- EG EQUIPMENT GROUND
- EL ELEVATION
- ELEC ELECTRIC OR ELECTRICAL
- ELEV ELEVATOR
- EMCP EMERGENCY MONITORING CONTROL PANEL
- EMER EMERGENCY
- EMI ELECTROMAGNETIC INTERFERENCE
- EMT ELECTRICAL METALLIC TUBING
- ENCL ENCLOSURE
- EPO EMERGENCY POWER OFF
- EPRF EXPLOSION PROOF
- ESMT EASEMENT
- EWV ELECTRIC WATER COOLER
- EWK ELECTRIC WATER HEATER
- EXIST EXISTING
- FA FIRE ALARM
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FABL FIRE ALARM BELL
- FABX FIRE ALARM BOX
- FACP FIRE ALARM CONTROL PANEL
- FC FOOTCANDLE
- FI FILM ILLUMINATOR
- FIXT FIXTURE
- FLA FULL LOAD AMPS
- FLEX FLEXIBLE METALLIC CONDUIT
- FLT FLOODLIGHT
- FLUOR FLUORESCENT
- FLUOR FIX FLUORESCENT FIXTURE
- FOUTT TELEPHONE FLOOR OUTLET
- FP FIRE PROTECTION
- FT FEET OR FOOT
- FU SW FUSED SWITCH
- FVNR FULL VOLTAGE NON-REVERSING
- FVR FULL VOLTAGE REVERSING
- G OR GND GROUND OR GENERATOR
- GEN GENERATOR
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- GTB GROUND TERMINAL BOX
- HID HIGH INTENSITY DISCHARGE
- HOA HAND-OFF-AUTOMATIC
- HP HORSEPOWER
- HT HEIGHT
- HZ HERTZ
- IESNA ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
- IMC INTERMEDIATE METAL CONDUIT
- INCAND INCANDESCENT
- IR INFRARED
- IWH INSTANTANEOUS WATER HEATER
- J-BOX JUNCTION BOX
- KV KILOVOLT
- KVA KILOVOLT AMPERE
- KVAH KILOVOLT AMPERE PER HOUR
- KVAR KILOVOLT AMPERE REACTIVE
- KW KILOWATT
- KWH KILOWATT HOUR
- KWHM KILOWATT HOUR METER
- LED LIGHT EMITTING DIODE
- LF LINEAR FEET (FOOT)
- LM LUMEN
- LP LIGHT POLE
- LPS LOW PRESSURE SODIUM
- LRA LOCKED ROTOR AMPS
- LTCP LOCAL TEMPERATURE CONTROL PANEL
- LT LIGHT
- LTG LIGHTING
- LTG PNL LIGHTING PANEL
- LTNG LIGHTNING
- LV LOW VOLTAGE

- MAX MAXIMUM
- MC METAL-CLAD
- MCA MINIMUM CIRCUIT AMPS
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MDP MAIN DISTRIBUTION PANEL
- MECH MECHANICAL
- MG MOTOR GENERATOR
- MH MANHOLE
- MIN MINIMUM
- MOCPP MAXIMUM OVERCURRENT PROTECTION
- MLO MAIN LUGS ONLY
- MT MOUNT
- MTD MOUNTED
- MTG MOUNTING
- MTS MANUAL TRANSFER SWITCH
- MV MEDIUM VOLTAGE
- NA NOT APPLICABLE
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NEUT OR N NEUTRAL
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NIC NOT IN CONTRACT
- NO NORMALLY OPEN
- NS NO SCALE
- NTS NOT TO SCALE
- OC ON CENTER
- OD OUTSIDE DIAMETER
- OL OVERLOAD
- P POLE
- PA PUBLIC ADDRESS
- PB PANELBOARD, PULL BOX, OR PUSHBUTTON
- PBPU PREFABRICATED BEDSIDE PATIENT UNIT
- PCB POLYCHLORINATED BIPHENYL
- PEC PHOTOELECTRIC CELL
- PED PEDESTAL
- PEND PENDANT
- PF POWER FACTOR
- PH PHASE
- PNL PANEL
- POD POWER OPERATED DAMPER
- PT POTENTIAL TRANSFORMER
- PTRV POWER TYPE ROOF VENTILATION
- PVC POLYVINYL CHLORIDE (PLASTIC)
- PWR POWER
- (RR) REMOVE AND RELOCATE
- RCP REFLECTED CEILING PLAN
- REC RECESSED
- RECPD RECEPTACLE
- RGS RIGID GALVANIZED STEEL
- RM ROOM
- RMS ROOT MEAN SQUARE
- REQD REQUIRED
- SCC SHORT CIRCUIT CAPACITY
- SES SERVICE ENTRANCE SECTION
- SD SMOKE DETECTOR
- SF SQUARE FOOT (FEET)
- SHT SHEET
- SI INTERNATIONAL SYSTEM OF UNITS
- SPEC SPECIFICATION
- SPST SINGLE POLE, SINGLE THROW
- SURF SURFACE
- SW SWITCH
- SWBD SWITCHBOARD
- SWGR SWITCHGEAR
- B.P.U.D. BRIDGEPORT PUBLIC UTILITIES DISTRICT
- TP TWISTED PAIR
- TPS TWISTED PAIR SHIELDED
- TTB TELEPHONE TERMINAL BOARD
- TYP TYPICAL
- UGND UNDERGROUND
- UL UNDERWRITERS LABORATORY
- UON UNLESS OTHERWISE NOTED
- UPS UNINTERRUPTIBLE POWER SUPPLY
- UTIL UTILITY
- V VOLT
- VA VOLT AMPERE
- VAR VOLT AMPERE REACTIVE
- VFD VARIABLE FREQUENCY DRIVE
- VOLT VOLTAGE
- W WATT
- WP WEATHERPROOF
- XFER TRANSFER
- XFMR TRANSFORMER

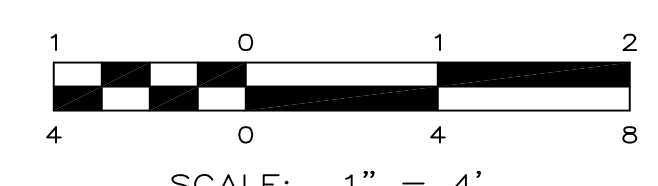


GENERAL NOTES:

1. SEE SHEET E-4 FOR TRENCH DETAILS, UNLESS NOTED OTHERWISE OR FOR UTILITY WORK.
2. SEE UTILITY WORK ORDER DRAWINGS FOR ADDITIONAL INFORMATION.
3. COORDINATE WITH CIVIL PLANS FOR EXACT EQUIPMENT LOCATIONS.

SHEET NOTES: (THIS SHEET ONLY)

- 1 NEW SECONDARY (2) 4" CONDUIT AND TRENCH CONNECTED AND ROUTED TO NEW WATER TREATMENT BUILDING, PER LATEST SOUTHERN CALIFORNIA EDISON STANDARDS AND QUALITY.
- 2 (E) SERIES 900 RTU TO REMAIN.
- 3 (E) MOTOR STARTER AND CONTROLS FOR TWIN LAKES WELL TO BE REMOVED AND SALVAGED TO OWNER.
- 4 (E) ATS, ASSOCIATED GENERATOR DISPLAY AND CONTROLS TO REMAIN, ROUTE NEW LINE/LOAD SIDE CONDUCTORS TO NEW BUILDING, SEE SINGLE LINE E4.
- 5 (E) SERVICE METER TO BE REMOVED.
- 6 (E) GENERATOR TO REMAIN, PERFORM LOAD TESTING WITH ON-SITE LOADS. PROVIDE MANUFACTURER REPRESENTATIVE, MANPOWER, TRAVEL AND FUEL FOR A MINIMUM 4 HOUR START-UP AND TEST INCLUDING SCADA NOTIFICATIONS AND PERIPHERAL CONNECTIVITY. PROVIDE LOAD TEST DATA TO OWNER FOR REVIEW.
- 7 NEW METER PER SCE REQUIREMENTS AND 225A, 120/208V POWER DISTRIBUTION MCC, SEE E4. PROVIDE MIN. 4" THICK HOUSEKEEPING PAD.
- 8 (E) WELL CASING BONDING CONDUCTOR TO BE INTERCEPTED AND BONDED TO NEW SERVICE GROUNDING SYSTEM.
- 9 NEW TREATMENT SYSTEM MASTER PANEL.
- 10 NEW 1" C SPARE.
- 11 NEW 2" C FOR WELL PUMP AND 3/4" C FOR VENT SEE SINGLE E4 FOR CONDUCTOR SIZES. INTERCEPT (E) FEED TO PUMP AND VENT WITH N9 BOX, CLEAN AND SWAB EXISTING CONDUIT, PULL AND TERMINATE NEW CONDUCTORS FOR PUMP AND VENT.
- 12 REFEED EXISTING PANEL IN STORAGE BUILDING POWERING LIGHTING, HEAT, ETC. SEE SINGLE LINE FOR SIZES.
- 13 ROUTE CONDUIT THROUGH WALL INTO MSB, SEE SINGLE LINE FOR DETAILS.
- 14 NEW 3/4" C FOR AUTOMATIC GATE OPERATOR, CONNECT PER MANUFACTURER'S REQUIREMENTS AND PROVIDE DISCONNECTING MEANS, SEE SINGLE LINE FOR SIZES.



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ARSENIC REMOVAL

BRIDGEPORT PUBLIC UTILITY DISTRICT

**SITE PLAN
 ELECTRICAL**

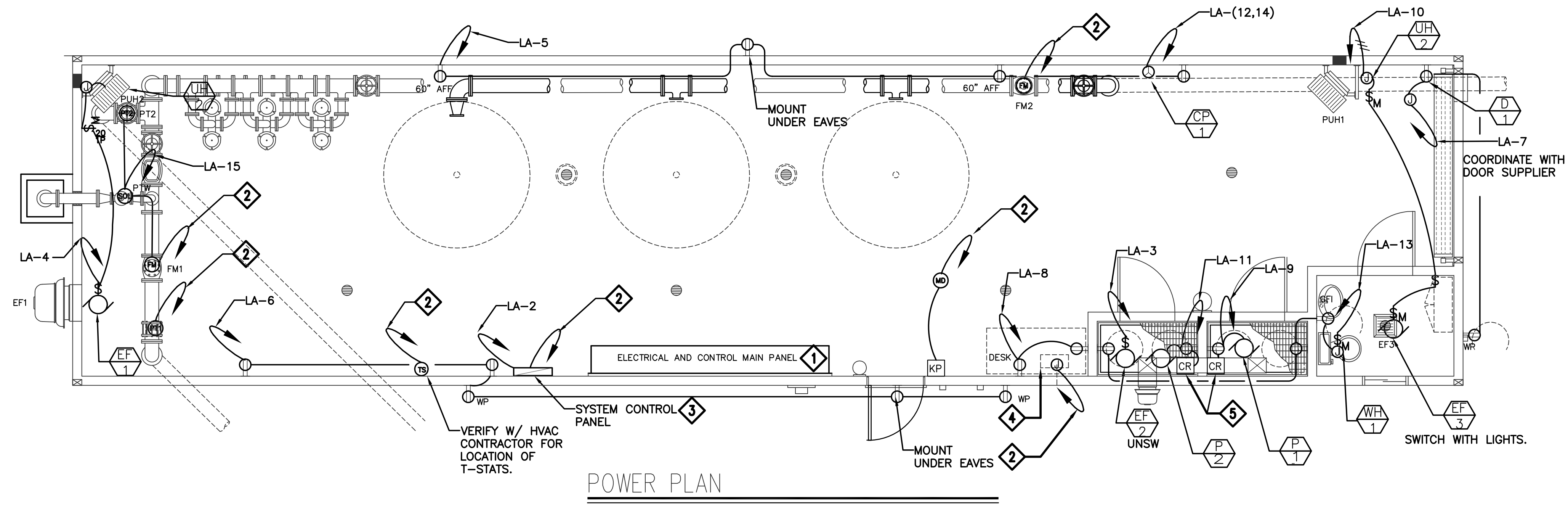


DRAWN: TLF
 ENGINEER: KCH
 SCALE: 1" = 4'
 DATE: 02/08/16

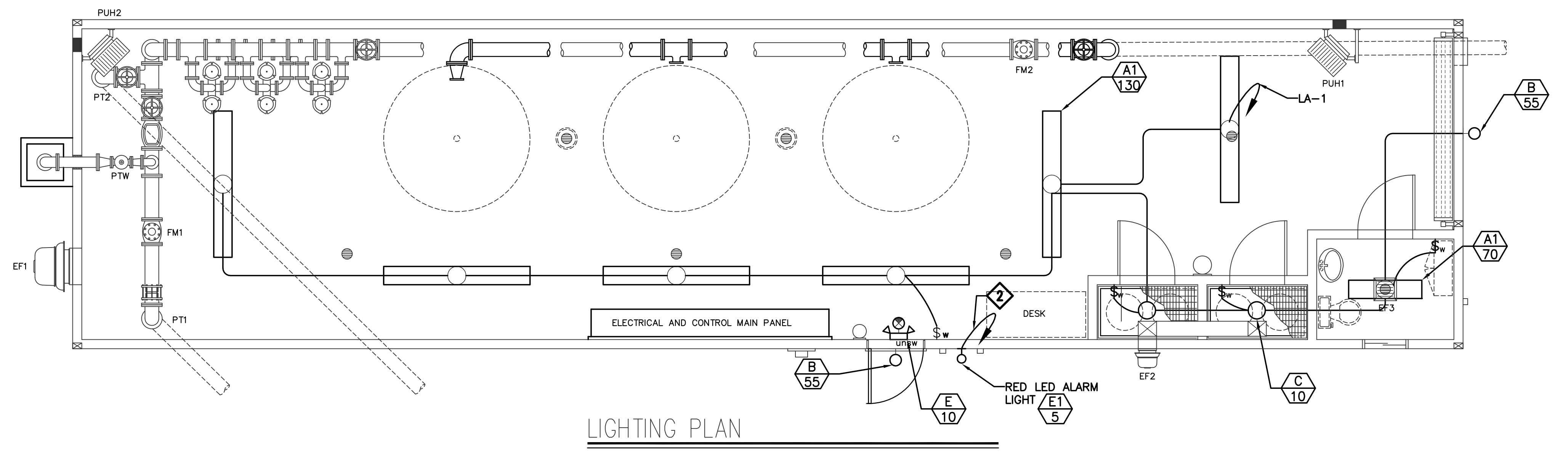
JOB: 883-023
 DRAWING: SEE PLOT STAMP
 SHEET: **E-2**
 OF: 28 SHEETS

SHEET NOTES: (THIS SHEET ONLY)

- 1 NEW MCC "MSB" PROVIDE HOUSEKEEPING PAD AND STRUCTURAL BRACING PER MANUFACTURERS RECOMMENDATIONS.
- 2 ROUTE VIA RTU/CONTROLS PROVIDE WIRING PER MANUFACTURING REQUIREMENTS.
- 3 WATER TREATMENT SYSTEM CONTROL PANEL, F.B.O.
- 4 PROVIDE A INTOUCH STANDARD PANEL PC 19" PRELOADED WITH LATEST WONDERWARE SOFTWARE. CONNECT TO PLC PER MANUFACTURERS REQUIREMENTS.
- 5 PROVIDE 120v CONTROL RELAY INTERLOCKED AND ENERGIZED WITH PUMP MOTOR.

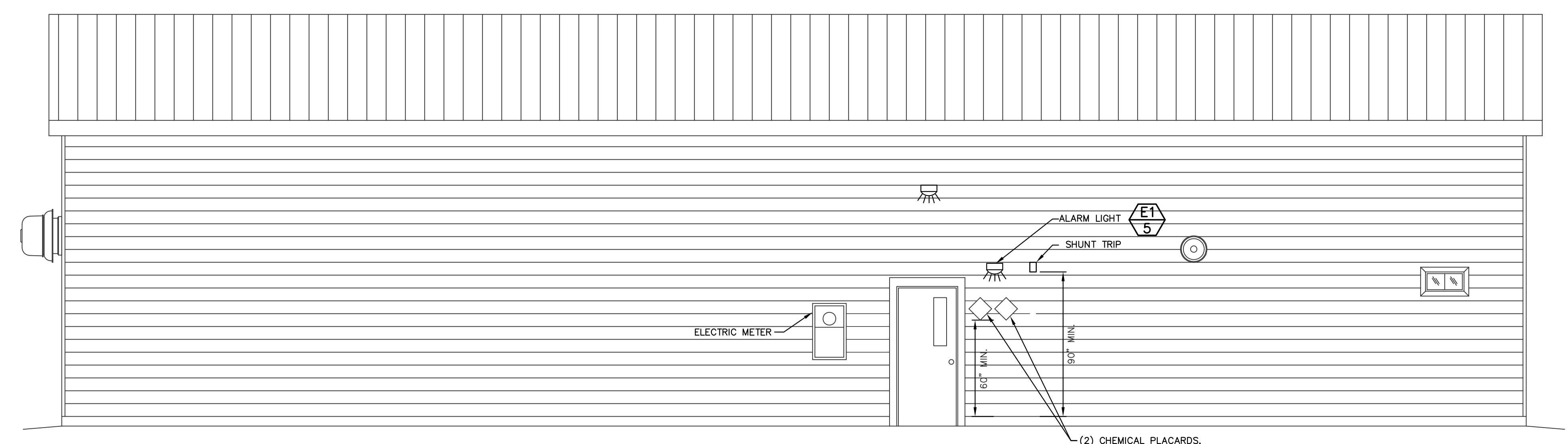


POWER PLAN

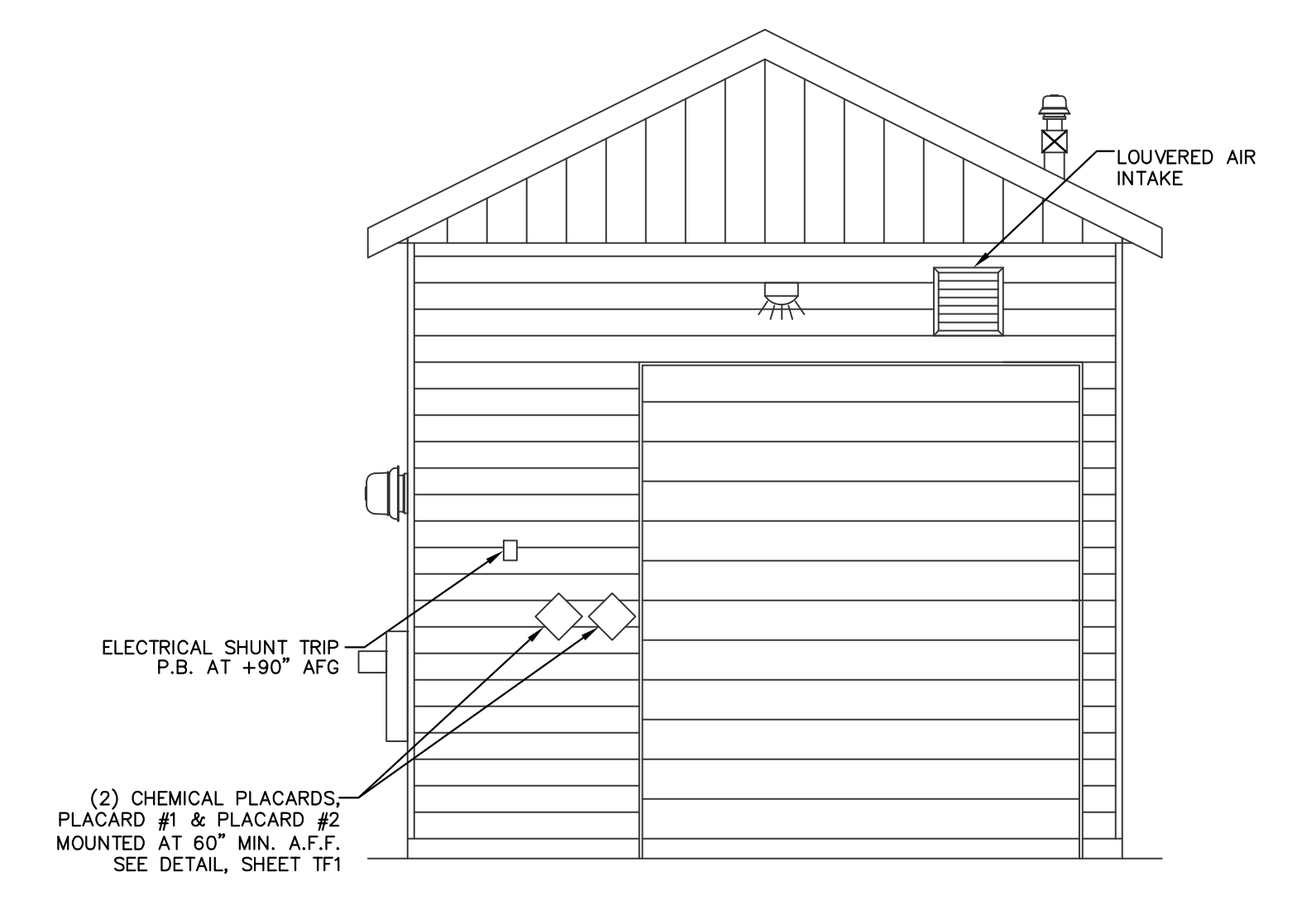


LIGHTING PLAN

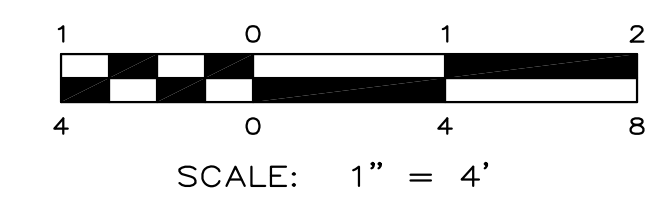
LIGHT FIXTURE SCHEDULE			
TYPE	SYMBOL	DESCRIPTION & MANUFACTURER	LAMPS
A/70	○	4-FOOT LED SURFACE MOUNT WRAP LITHONIA FEM4 LED 3L IMACD	LED
A1/130	○	4-FOOT LED SURFACE MOUNT WRAP LITHONIA FEM4 LED 3L IMACD	LED
B/55	⊙	BUILDING MOUNTED EXTERIOR WALL PACK LITHONIA WST-50S-MD-MVOLT-PC	LED
C/10	○	HUBBELL, KILLARK, MBL SERIES COMPACT, LED, 120V, GLOBE & GAURD, CEILING MOUNT, 3/4" BASE, MBL4530X2GLG.	LED
E/10	⊙	LITHONIA, EMERGENCY LIGHT, TITAN ELT50 H1212, TD, (2) 12W 12V SEAL-BEAM HALOGENS. LAMP,	MR 16(2)
E1/5	⊙	EDWARDS SIGNALING 48 XBRM RED, STEADY ON.	MR 16(2)



SOUTH ELEVATION

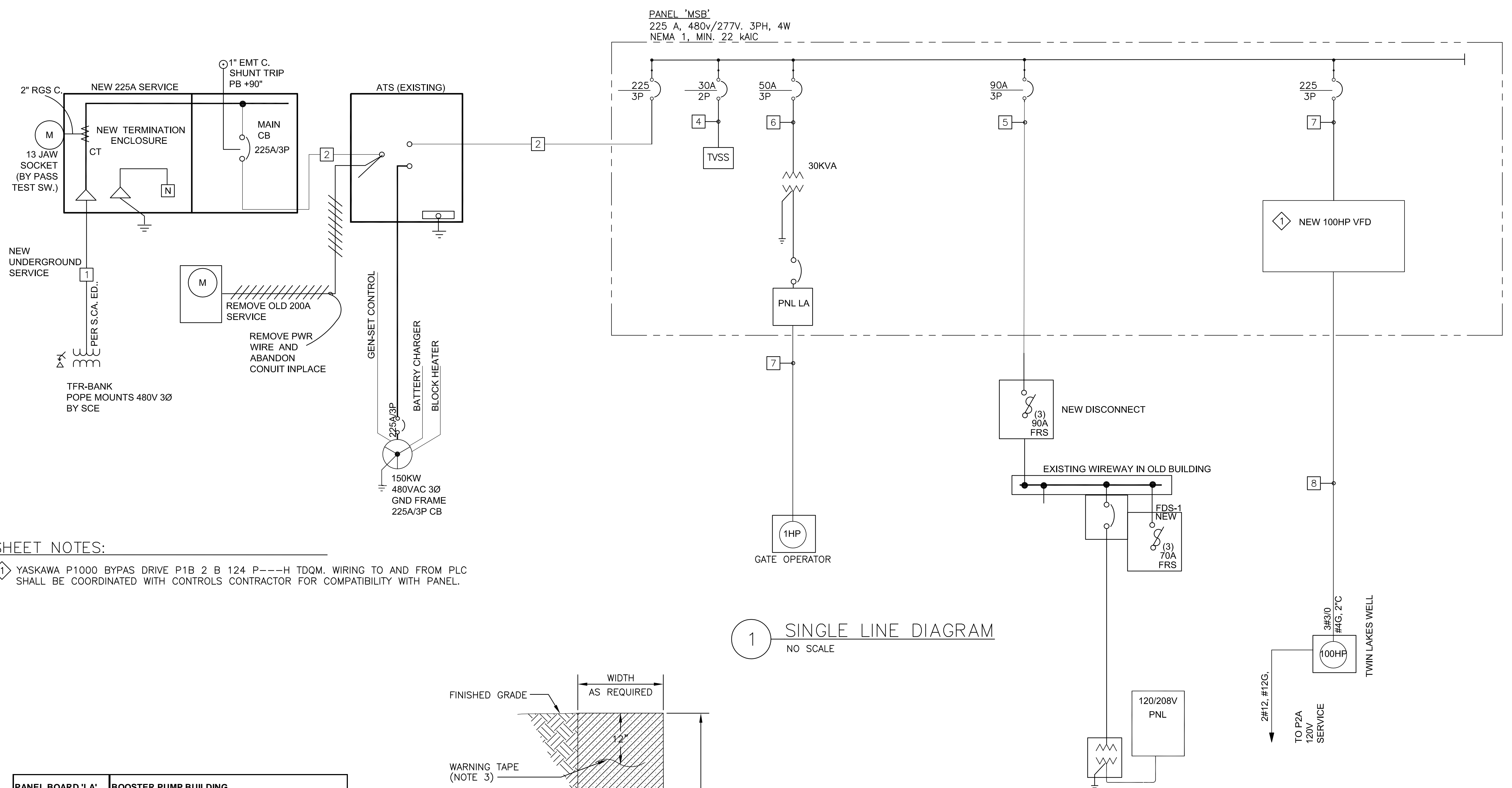


EAST ELEVATION



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 DINTER <small>ENGINEERING, CONSTRUCTION, AIRFIELD ELECTRICAL MECHANICAL</small> Web: dinter.com J-4502	385 Gentry Way Reno, NV 89502 Ph: 775.826.4044 Fax: 775.826.4190	 R Anderson <small>1603 ESMERALDA AVENUE / POST OFFICE BOX 2229 MINDEN, NEVADA 89423 PHONE: (775) 782-2322 / FAX: (775) 782-7084 WEB SITE: WWW.ROANDERSON.COM</small>	ARSENIC REMOVAL BRIDGEPORT PUBLIC UTILITY DISTRICT	ELECTRICAL PLAN	 DRAWN: TLF ENGINEER: KBM SCALE: 1" = 4' DATE: 02/08/16	JOB: 883-029 DRAWING: SEE PLOT STAMP SHEET: E-3 OF: 28 SHEETS
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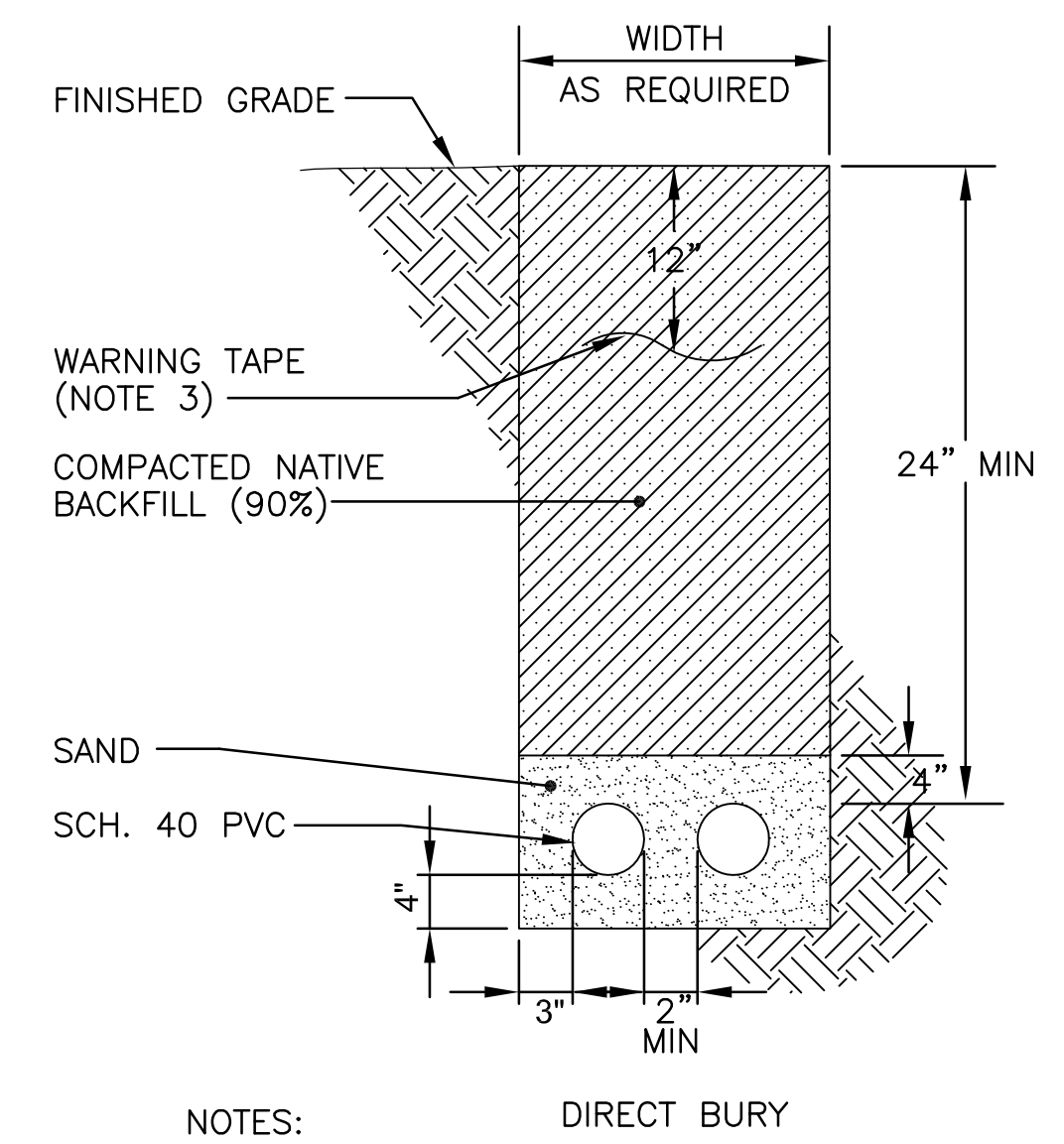


SHEET NOTES:

- ① YASKAWA P1000 BYPASS DRIVE P1B 2 B 124 P---H TDQM. WIRING TO AND FROM PLC SHALL BE COORDINATED WITH CONTROLS CONTRACTOR FOR COMPATIBILITY WITH PANEL.

① SINGLE LINE DIAGRAM
NO SCALE

PANEL BOARD 'LA'		BOOSTER PUMP BUILDING	
DIRECTORY	LOAD BKR CIR	CIR BKR LOAD	DIRECTORY
LIGHTING	400 20/1	1 A 2	600 TREATMENT CONTROLS
EF-2	600	3 B 4	1000 EF-1 & UH-2
RECEPTACLES	600	5 C 6	1440 RECEPTACLES
ROLL UP DOOR	600	7 A 8	200 INTOUCH AND RECEPT
P-1	750	9 B 10	1200 UH-1 & EF-3
P-2	750	11 C 12	1662 CP-1
WH-1	1250	13 A 14	1662 CP-1
SOLENOID	500 20/1	15 B 16	800 Gate Operator
SPARE	500 20/1	17 C 18	100 CONTROL POWER
SPARE	100 20/1	19 A 20	0 SPARE
SPARE	0	21 B 22	0 SPARE
SPARE	0	23 C 24	0 SPARE
SPARE	0	25 A 26	0 SPARE
SPARE	0	27 B 28	0 SPARE
SPARE	0	29 C 30	0 SPARE
SPARE	0	31 A 32	0 SPARE
SPARE	0	33 B 34	0 SPARE
SPARE	0	35 C 36	0 SPARE
SPARE	0	37 A 38	0 SPARE
SPARE	0	39 B 40	0 SPARE
SPARE	0	41 C 42	0 SPARE
CONNECTED LOAD		14714 VA (41 A)	OTHER NOTES:
A= 4812 VA		40 A	120/208V., 3PH, 4W
B= 4850 VA		40 A	150 AMP MCB, 10KAIC
C= 5052 VA		42 A	200 AMP BUS



- NOTES:**
- SEE PLANS FOR REQUIRED DUCT SECTIONS.
 - PROVIDE PULL WIRES IN ALL (NEW) UNUSED CONDUITS. PLUG ENDS IN HANDHOLES.
 - WARNING TAPE REQUIRED WHEN DUCTS ARE INSTALLED IN AREAS NOT BELOW FULL STRENGTH PAVEMENT.

② TYPICAL TRENCH SECTION
NTS

FEEDER SCHEDULE				
NO.	FROM	TO	CONDUIT & WIRE THWN U.N.O.	CU/AL
1	O.H. POLE	'METER MAIN'	BY SCE	X
2	'METER MAIN' 'MSB'	'ATS' 'ATS'	(4) 4/0 & 1#6G. - 1-1/2" C	X
3	'ATS'	GENSET	(4) 4/0 & 1#6G. - 1-1/2" C	X
4	'MSB'	TVSS	PER MANUFACTURER	X
5	'MSB'	'EXISTING BLDG'	(4) #4 & 1#8G. - 1-1/2" C	X
6	MSB	XFMR	(3) #8 & 1# 10G. - 1" C	X
7	PNL 'LA'	GATE OPERATOR	(2) #8 & 1# 10G. - 1" C	X
8	MSB	(E) TWIN LAKES WELL	(3) 4/0 & 1# 4G. - 2" C	X

NO.	DATE

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ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

ELECTRICAL SCHEMATIC AND DETAILS



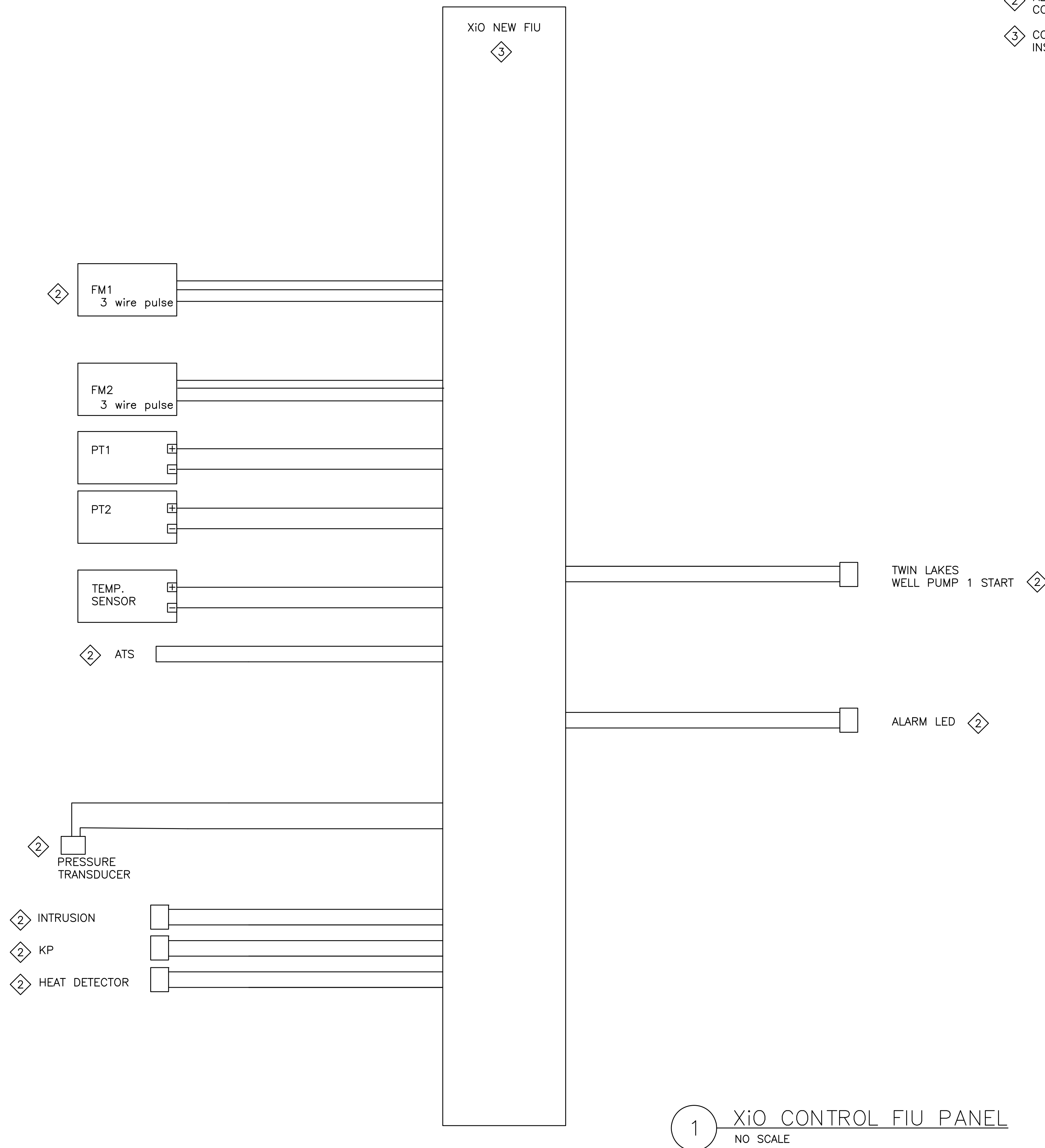
DRAWN:	TLF	JOB:	O883-023
ENGINEER:	KCH	DRAWING:	140157-E4C
SCALE:	NTS	SHEET:	E-4
DATE:	02/08/16	OF:	28 SHEETS

SHEET NOTES:

- ① NOT USED.
- ② ALL WIRING TO AND FROM INSTRUMENTATION DEVICES DRIVES, SENSORS ETC. SHALL BE COORDINATED WITH XIO FOR COMPATIBILITY WITH FIU, TYPICAL.
- ③ CONTROL PANEL XIO FIU TO BE PROVIDED, PROGRAMMED AND COMMISSIONED BY XIO, INSTALLED BY ELECTRICAL CONTRACTOR.

GENERAL NOTES:

- 1. PROGRAMMING, TESTING AND TRAINING FOR CONTROL SYSTEMS WORK TO BE PERFORMED BY XIO.
- 2. REFER TO SEQUENCE OF OPERATION IN SPEC. SECTION. CONTRACTOR TO INCLUDE ALL I&C COMPONENTS FOR A COMPLETE OPERATING SYSTEM INTEGRATING WITH XIO SYSTEM.
- 3. ALL INSTRUMENT CABLEING TO BE SHIELDED UNLESS NOTED OTHERWISE.



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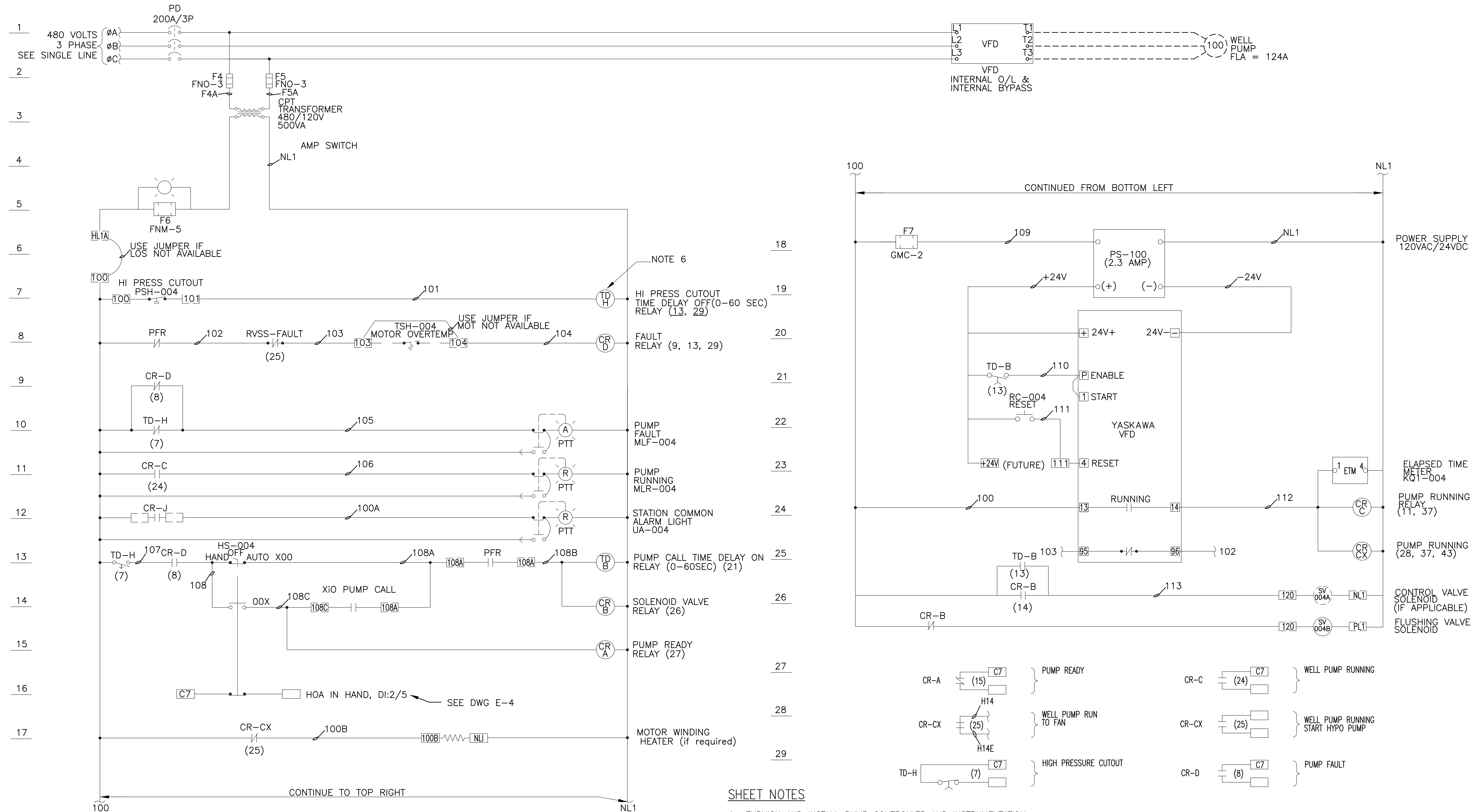
ARSENIC REMOVAL

BRIDGEPORT PUBLIC UTILITY DISTRICT

I&C SCHEMATIC



DRAWN: TLF	JOB: 0883-023
ENGINEER: KCH	DRAWING: 140157-E4C
SCALE: NTS	SHEET: E-5
DATE: 02/08/16	OF: 28 SHEETS



1 TWIN LAKES PUMP CONTROLLER DIAGRAM
SCALE: NO SCALE

SHEET NOTES

1. FURNISH AND INSTALL PUMP CONTROLLER AND INSTRUMENTATION.
2. FURNISH AND INSTALL FLOW SENSOR, PRESSURE SWITCH AND PRESSURE TRANSDUCER. ALL RACEWAY IS TO BE PROVIDED BY ELECTRICAL CONTRACTOR AND/OR PUMP FURNISHING CONTRACTOR.
3. INTERCONNECT ALL PUMP CONTROLS SIGNALS TO XiO PUMP CONTROLLER.
4. PROGRAM SYSTEM TO OPERATE CONCURRENTLY WITH EXISTING WATER FACILITY COMPONENTS.

NO.	DATE	REVISION BLOCK	BY

DINTER
ENGINEERING CONFIDENCE
ELECTRICAL MECHANICAL
Web: dinter.com
J-4502

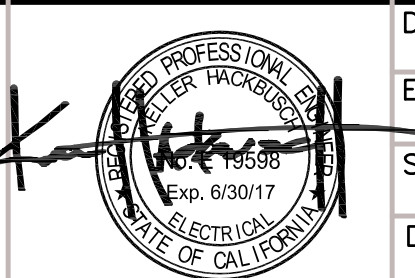
385 Gentry Way
Reno, NV 89502
Ph: 775.826.4044
Fax: 775.826.4190

R/O Anderson

1603 ESMERALDA AVENUE / POST OFFICE BOX 2229
MIDCIN, NEVADA 89423
PHONE: (775) 782-2322 / FAX: (775) 782-7084
WEB SITE: WWW.ROANDERSON.COM

ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

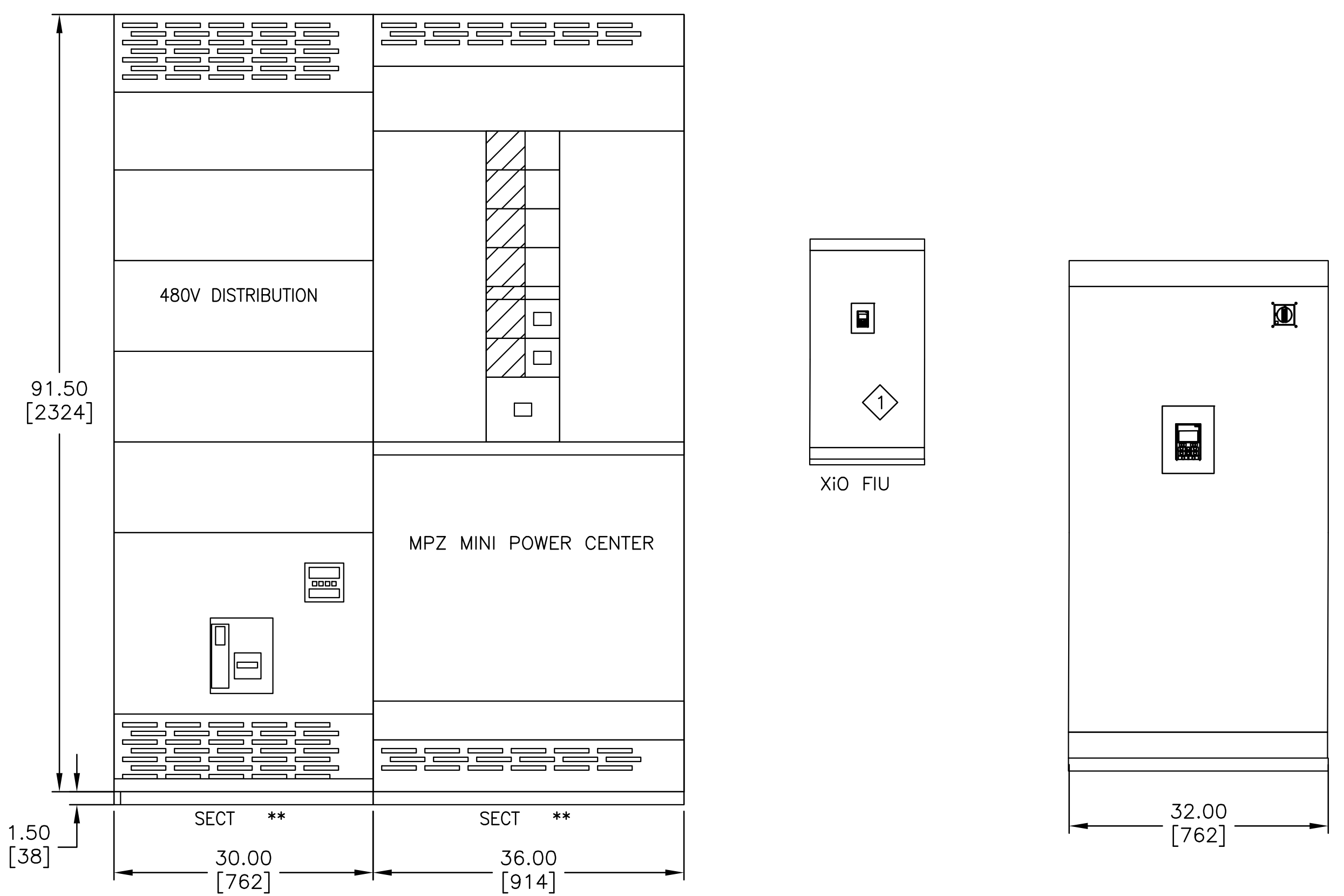
PUMP CONTROL SCHEMATIC



DRAWN: TLF	JOB: 0883-023
ENGINEER: KCH	DRAWING: 140157-E4C
SCALE: NTS	SHEET: E-6
DATE: 02/08/16	OF: 28 SHEETS

SHEET NOTES:

- 1 FURNISHED BY XIO INSTALLED BY ELECTRICAL CONTRACTOR. ALL WIRING TO AND FROM INSTRUMENTATION DEVICES DRIVES, SENSORS ETC. SHALL BE COORDINATED WITH XIO FOR COMPATIBILITY WITH FIU.



1 MAIN SWITCHBOARD AND EQUIPMENT ELEVATION
SCALE: N.T.S.

P:\6500-0509\6500-0509-01\140157-E4.dwg 4/20/2017 2:46:58 PM Kevin B. Merrow

NO.	DATE	REVISION BLOCK	BY

DINTER
ENGINEERING CONFIDENCE
Airfield Electrical Mechanical
Web: dinter.com
J-4502

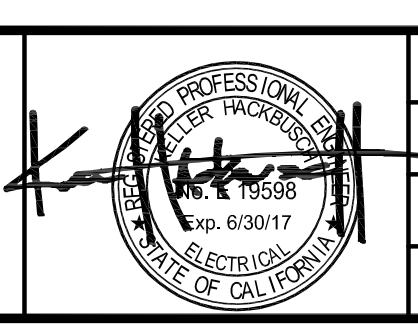
385 Gentry Way
Reno, NV 89502
Ph: 775.826.4044
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ROAnderson

1603 EMERALDA AVENUE / POST OFFICE BOX 2229
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PHONE: (775) 782-2322 / FAX: (775) 782-7084
WEB SITE: WWW.ROANDERSON.COM

ARSENIC REMOVAL
BRIDGEPORT PUBLIC UTILITY DISTRICT

DETAILS
MSB ELEVATION



DRAWN: TLF	JOB: 0883-023
ENGINEER: KCH	DRAWING: 140157-E4C
SCALE: NTS	SHEET: E-7
DATE: 02/08/16	OF: X SHEETS