

# CHLORINATION BUILDING

## MPWMD SANTA MARGARITA ASR FACILITY 1910 GENERAL JIM MOORE BLVD., SEASIDE, CA

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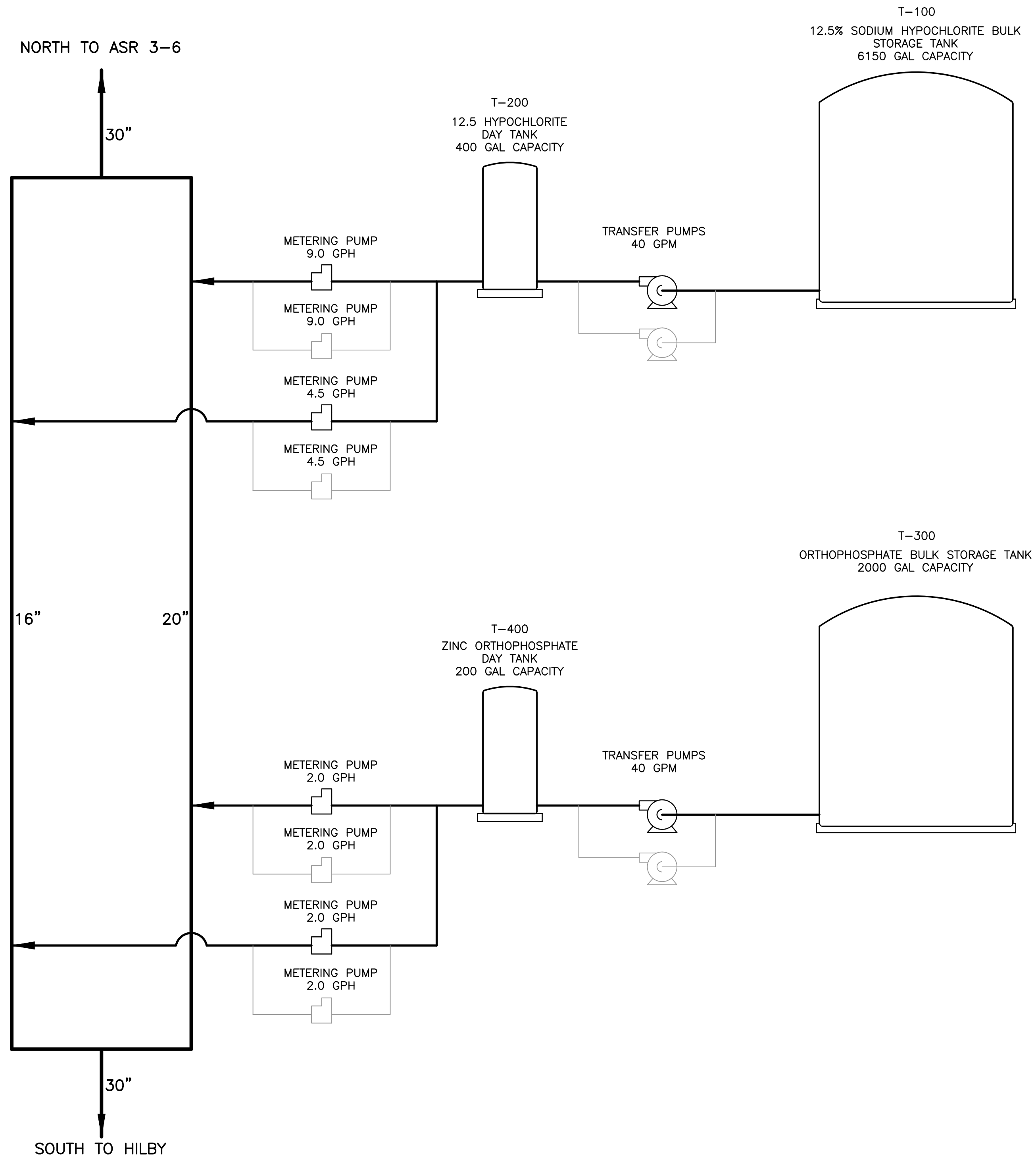
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ABBREVIATIONS		LEGEND		SYMBOLS		PROJECT TEAM		PROJECT INFORMATION		SHEET INDEX	
<p>&amp; @ CENTERLINE</p> <p>Ø DIAMETER OR ROUND PERPENDICULAR PROPERTY LINE</p> <p>± POINT OR NUMBER</p> <p>A.B. ANCHOR BOLT</p> <p>A.B.S. ACRYLONITRILE BUTADIENE</p> <p>ABV. ABOVE</p> <p>A.A. ASPHALTIC CONCRETE</p> <p>A.C. AIR CONDITIONING</p> <p>ACOUS. ACOUSTICAL</p> <p>ADJ. ADJUSTABLE</p> <p>A.F.F. ABOVE FINISH FLOOR</p> <p>AGGR. AGGREGATE</p> <p>ALUM. ALUMINIUM</p> <p>ANOD. ANODIZED</p> <p>A.P.A. AMERICAN PLYWOOD ASSOCIATION</p> <p>APPROX. APPROXIMATE</p> <p>ARCH. ARCHITECTURAL</p> <p>A.S. ADJUSTABLE SHELF</p> <p>BD. BOARD</p> <p>BIT. BITUMINOUS</p> <p>BLDG. BUILDING</p> <p>BLK. BLOCK</p> <p>BLKG. BLOCKING</p> <p>BM. BENCH MARK</p> <p>BOT. BOTTOM</p> <p>BRG. BEARING</p> <p>BTWN. BETWEEN</p> <p>B.U.R. BUILDUP ROOFING</p> <p>B.W. BOTH WAYS</p> <p>CAB. CABINET</p> <p>C.B. CATCH BASIN</p> <p>CBC. CALIFORNIA BUILDING CODE</p> <p>CEM. CEMENT</p> <p>CEIL. CEILING</p> <p>CFCL. CONTRACTOR FURNISHED CONTRACTOR INSTALLED</p> <p>C.F. CURB/FEET</p> <p>C.I. CAST IRON</p> <p>C.J. CONTROL JOINT</p> <p>C.L. CLOSET</p> <p>CLG. CEILING</p> <p>CLGK. CALKING</p> <p>C.M.U. CONCRETE MASONRY UNIT</p> <p>COL. COLUMN</p> <p>COMP. COMPOSITION</p> <p>CONC. CONCRETE</p> <p>CONN. CONNECTION</p> <p>CONSTR. CONSTRUCTION</p> <p>CONT. CONTINUOUS</p> <p>COR. CORRUGATED</p> <p>C.O.T.G. CLEAN-OUT TO GRADE</p> <p>CSMT. CASEMENT</p> <p>CSWK. CERAMIC TILE</p> <p>C.T. COUNTER</p> <p>C.TSK. COUNTERSINK</p> <p>C.Y. CUBIC YARD</p> <p>D.C. DOUBLE CONTAINMENT</p> <p>DEPT. DEPARTMENT</p> <p>DET. DETAIL</p> <p>DBL. DRINKING FOUNTAIN</p> <p>DOUGL. DOUGLAS FIR</p> <p>D.G. DECOMPOSED GRANITE</p> <p>D.H. DOUBLE HUNG</p> <p>DIAG. DIAGONAL</p> <p>DIA. DIAMETER</p> <p>DIMEN. DIMENSION</p> <p>DISP. DISPENSER/DISPOSER</p> <p>DN. DOWN</p> <p>DR. DOOR</p> <p>DRAWING</p> <p>D.S.B. DBL STRENGTH B GRADE (GLASS)</p> <p>D.S. DOWNSPOUT</p> <p>DWR. DRAWER</p> <p>D.W. DISH WASHER</p> <p>E. EAST</p> <p>EA. EACH</p> <p>E.J. EXPANSION JOINT</p> <p>ELEV. ELEVATION</p> <p>ELEC. ELECTRICAL</p> <p>EMER. EMERGENCY</p> <p>ENCL. ENCLOSURE</p> <p>EQUIP. EQUIPMENT</p> <p>EW.C. ELECTRIC WATER COOLER</p> <p>EXIST. EXISTING</p> <p>EXP. EXPOSED/EXPANSION</p> <p>EXT. EXTERIOR</p> <p>F.A. FIRE ALARM</p> <p>FAST. FASTENER</p> <p>F.A. FLAT BAR</p> <p>FEC. FIRE EXTINGUISHER CABINET</p> <p>F.F. FINISH FLOOR</p> <p>F.G. FINISH GRADE</p> <p>FND. FOUNDATION</p> <p>FIRE. FIRE EXTINGUISHER</p> <p>FIBERGLASS</p> <p>FIN. FINISHED</p> <p>F.H.M.S. FLATHEAD MECHANICAL SCREW</p> <p>F.H.W.S. FLATHEAD WOOD SCREW</p> <p>FLASH. FLASHING</p> <p>FLR. FLOORING</p> <p>FLUOR. FLUORESCENT</p> <p>F.O.B. FACE OF BLOCK</p> <p>F.O.C. FACE OF CONCRETE</p> <p>F.O.F. FACE OF FINISH</p> <p>F.O.M. FACE OF MASONRY</p> <p>F.O.S. FACE OF STUD</p> <p>FIREPL. FIREPLACE</p> <p>F.R.P. FIBERGLASS REINF. PANEL</p> <p>F.T. FULL SIZE</p> <p>FOOTRE. FOOTREST</p> <p>FTG. FOOTING</p> <p>FURR. FURRING(ING)</p> <p>FUT. FUTURE</p> <p>GA. GAUGE/GAGE</p> <p>GALV. GALVANIZED</p> <p>GRAB BAR</p> <p>G.I. GALVANIZED IRON</p> <p>G.L. GLASS/LAZING</p> <p>G.L.B. GLUE-LAM BEAM</p> <p>GR. GRADE(ING)</p> <p>G.W.B. GYPSUM WALLBOARD</p> <p>H.B. HOSE BIB</p> <p>HBD. HARDBOARD</p> <p>H.A. HOLLOW CORE</p> <p>HDR. HEADER</p> <p>HDWR. HARDWARE</p> <p>H.M. HOLLOW METAL</p> <p>HORIZ. HORIZONTAL</p> <p>H.S. HEAVY SHEET</p> <p>HT. HEIGHT</p> <p>HTG. HEATING</p> <p>H.W. HOT WATER</p> <p>HWD. HARDWOOD</p> <p>HVAC. HEATING/VENTILATING/AIR CONDITIONING</p> <p>I.C.C. INTERNATIONAL CODE COUNCIL</p> <p>ID. INSIDE DIAMETER</p> <p>INCL. INCLUDE(D) (ING)</p> <p>INSUL. INSULATE(D) (ING)</p> <p>INT. INTERIOR</p> <p>INV. INVERT</p> <p>JAN. JANITOR</p> <p>J.H. JOIST HANGER</p> <p>JT. JOINT</p> <p>KIT. KITCHEN</p> <p>L. LENGTH</p> <p>LAM. LAMINATE</p> <p>LAV. LAVATORY</p> <p>LAG BOLT</p> <p>LOC. LOCATE(ION)</p> <p>L.V.L. LAMINATED VENEER LUMBER</p> <p>L.W. LIGHTWEIGHT</p> <p>MAS. MASONRY</p> <p>MAT. MATERIAL(S)</p> <p>MAX. MAXIMUM</p> <p>M.B. MACHINE BOLT</p> <p>M.C. MACHINE CABINET</p> <p>M.H. MAN HOLE</p> <p>MECH. MECHANICAL</p> <p>MEMB. MEMBRANE</p> <p>MEZZ. MEZZANINE</p> <p>MFR. MANUFACTURE(ER)</p> <p>MIN. MINIMUM</p> <p>MIR. MIRROR</p> <p>MISC. MISCELLANEOUS</p> <p>M.LDG. MOLDING/MOULDING</p> <p>M.I.W. MALLEABLE IRON WASHER</p> <p>M.O. MASONRY OPENING</p> <p>M.T.D. MOUNTED</p> <p>MET. METAL</p> <p>MULL. MULLION</p> <p>N. NORTH</p> <p>(N) NEW</p> <p>NAT. NATURAL</p> <p>N.I.C. NOT IN CONTRACT</p> <p>NOM. NOMINAL</p> <p>N.T.S. NOT TO SCALE</p> <p>O. OVER</p> <p>OBS. OBSOLETE</p> <p>O.C. ON CENTER(S)</p> <p>O.D. OUTSIDE DIAMETER</p> <p>OFF. OFFICE</p> <p>O.F.C. OWNER FURNISHED CONTRACTOR INSTALLED</p> <p>O.F.O. OWNER FURNISHED CONTRACTOR INSTALLED</p> <p>O.H. OVER HANG</p> <p>O.H.M.S. OVALHEAD MACHINE SCREW</p> <p>O.H.W.S. OVALHEAD WOOD SCREW</p> <p>OPNG. OPENING</p> <p>OPP. OPPOSITE</p> <p>P.A.F. POWDER ACTUATED FASTENER</p> <p>PANIC BAR</p> <p>PART. TB.D. PARTICLE BOARD</p> <p>PCF. POUNDS PER CUBIC FOOT</p> <p>P.D. POWDER DRIVEN</p> <p>P.G. PAINT GRADE</p> <p>PERF. PERFORATE</p> <p>PLF. POUNDS PER LINEAR FOOT</p> <p>PLAS. LAM. PLASTIC LAMINATE</p> <p>PLAS. PLASTER</p> <p>PLYWD. PLYWOOD</p> <p>PR. PAIR</p> <p>PSF. POUNDS PER SQUARE FOOT</p> <p>PSI. POUNDS PER SQUARE INCH</p> <p>PART. PARTITION</p> <p>P.T. DISP. PAPER TOWEL DISPENSER</p> <p>P.V.C. P.VINYL CHLORIDE</p> <p>R. RISER</p> <p>R.A. RETURN AIR</p> <p>RAD. RADIUS</p> <p>R.D. ROOF DRAIN</p> <p>REG. REGISTER</p> <p>REF. REFRIGERATOR</p> <p>REINF. REINFORCED</p> <p>REQD. REQUIREMENT</p> <p>RESIL. RESILIENT</p> <p>RESURF. RESURFACED</p> <p>R.H.M.S. ROUNDHEAD MACHINE SCREW</p> <p>R.H.W.S. ROOM</p> <p>RM. ROOM</p> <p>R.O.W. ROUGH OPENING</p> <p>RIGHT OF WAY</p> <p>R.S. RESAWN</p> <p>RUB. RUBBER</p> <p>RWD. REDWOOD</p> <p>R.W.L. RAIN WATER LEADER</p> <p>S. SOUTH</p> <p>SOLID BLOCKING</p> <p>S.C. SOLID CORE</p> <p>SCHED. SCHEDULE</p> <p>S.A. STORM DRAIN</p> <p>SECT. SECTION</p> <p>SECTV. SECTION</p> <p>S.F. SQUARE FOOT</p> <p>SH. SHOWER</p> <p>SHR. SHEET</p> <p>SHT. SHEATHING</p> <p>S.M. STAINLESS STEEL</p> <p>S.S.D. SEE STRUCTURAL DRAWINGS</p> <p>S.M. SHEET METAL</p> <p>S.M.S. SHEET METAL SCREW</p> <p>SPEC. SPECIFICATION</p> <p>SQ. SQUARE</p> <p>STD. STANDARD</p> <p>STAG. STAGGERED</p> <p>STOR. STORAGE</p> <p>STRUC. STRUCTURAL</p> <p>SUSP. SUSPENDED</p> <p>SYM. SYMMETRY(CAL)</p> <p>SYS. SYSTEM</p> <p>T. TREAD</p> <p>T.B. TOWEL BAR</p> <p>TO BE DETERMINED</p> <p>TOP OF CURB</p> <p>TEL. TELEPHONE</p> <p>TEMP. TEMPERED</p> <p>T.E.N. TYPICAL EDGE NAILING</p> <p>T &amp; G. TONGUE &amp; GROOVE</p> <p>THRESH. THRESHOLD</p> <p>T.J.I. TRUSS JOIST INTERNATIONAL</p> <p>T.O.P. TOP OF PAVEMENT</p> <p>T.P.H. TOILET PAPER HOLDER</p> <p>T.Q. TOP OF WALL</p> <p>T.W. TYPICAL</p> <p>U.I.L. UNDERWRITER'S LABORATORY</p> <p>U.N.O. UNLESS NOTED OTHERWISE</p> <p>U.O.N. UNLESS OTHERWISE NOTED</p> <p>URNAL. URINAL</p> <p>V.I.F. VERIFY IN FIELD</p> <p>W. WEST/WIDTH/WIDE</p> <p>W. WITH</p> <p>W.C. WATER CLOSET</p> <p>WOOD</p> <p>WDW. WINDOW</p> <p>WH. WATER HEATER</p> <p>W.I. WOODWORK INSTITUTE</p> <p>W.P. WATERPROOF(ING)</p> <p>W.R. WATER RESISTANT</p> <p>W.S. WOOD SCREW</p> <p>W.SCT. WAINSCOT</p> <p>WT. WEIGHT</p> <p>W.W.M. WELDED WIRE MESH</p>	<p>FLASHING (FLOORING)</p> <p>FLUORESCENT FLOOR</p> <p>FACE OF BLOCK</p> <p>FACE OF CONCRETE</p> <p>FACE OF FINISH</p> <p>FACE OF MASONRY</p> <p>FACE OF STUD</p> <p>FIREPLACE</p> <p>FIBERGLASS REINF. PANEL</p> <p>FULL SIZE</p> <p>FOOTREST</p> <p>FOOTING</p> <p>FURRING(ING)</p> <p>FUTURE</p> <p>GAUGE/GAGE</p> <p>GALVANIZED GRAB BAR</p> <p>GALVANIZED IRON</p> <p>GLASS/LAZING</p> <p>GLUE-LAM BEAM</p> <p>GRADE(ING)</p> <p>GYPSUM WALLBOARD</p> <p>HOSE BIB</p> <p>HARDBOARD</p> <p>HOLLOW CORE</p> <p>HEADER</p> <p>HARDWARE</p> <p>HOLLOW METAL</p> <p>HORIZONTAL</p> <p>HEAVY SHEET</p> <p>HEIGHT</p> <p>HEATING</p> <p>HOT WATER</p> <p>HARDWOOD</p> <p>HEATING/VENTILATING/AIR CONDITIONING</p> <p>INTERNATIONAL CODE COUNCIL</p> <p>INSIDE DIAMETER</p> <p>INCLUDE(D) (ING)</p> <p>INSULATE(D) (ING)</p> <p>INTERIOR</p> <p>INVERT</p> <p>JANITOR</p> <p>JOIST HANGER</p> <p>JOINT</p> <p>KITCHEN</p> <p>LENGTH</p> <p>LAMINATE</p> <p>LAVATORY</p> <p>LAG BOLT</p> <p>LOCATE(ION)</p> <p>LAMINATED VENEER LUMBER</p> <p>LIGHTWEIGHT</p> <p>MASONRY</p> <p>MATERIAL(S)</p> <p>MAXIMUM</p> <p>MACHINE BOLT</p> <p>MACHINE CABINET</p> <p>MAN HOLE</p> <p>MECHANICAL</p> <p>MEMBRANE</p> <p>MEZZANINE</p> <p>MANUFACTURE(ER)</p> <p>MINIMUM</p> <p>MIRROR</p> <p>MISCELLANEOUS</p> <p>MOLDING/MOULDING</p> <p>MALLEABLE IRON WASHER</p> <p>MASONRY OPENING</p> <p>MOUNTED</p> <p>METAL</p> <p>MULLION</p> <p>NORTH</p> <p>NEW</p> <p>NATURAL</p> <p>NOT IN CONTRACT</p> <p>NOMINAL</p> <p>NOT TO SCALE</p> <p>OVER</p> <p>OBSOLETE</p> <p>ON CENTER(S)</p> <p>OUTSIDE DIAMETER</p> <p>OFFICE</p> <p>OWNER FURNISHED CONTRACTOR INSTALLED</p> <p>OWNER FURNISHED CONTRACTOR INSTALLED</p> <p>OVER HANG</p> <p>OVALHEAD MACHINE SCREW</p> <p>OVALHEAD WOOD SCREW</p> <p>OPENING</p> <p>OPPOSITE</p> <p>POWDER ACTUATED FASTENER</p> <p>PANIC BAR</p> <p>PART. 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CONCRETE</p> <p>(E) STUD WALL</p> <p>(N) STUD WALL</p> <p>(E) STUD WALL TO BE REMOVED</p> <p>SOUND INSULATED STUD WALL</p> <p>METAL</p> <p>WOOD FINISH</p> <p>WOOD FRAMING CONTINUOUS MEMBER</p> <p>WOOD BLOCKING</p> <p>PLYWOOD</p> <p>GYPSUM WALLBOARD</p> <p>A.C. PAVING</p>	<p>DOOR SYMBOL</p> <p>WINDOW SYMBOL</p> <p>KEY TAG</p> <p>DEMOLITION TAG</p> <p>MATCH LINE</p> <p>WORK POINT, DATUM POINT OR CONTROL</p> <p>VERTICAL OR HORIZONTAL DIAPHRAGM KEY</p> <p>SECTION IDENTIFICATION SHEET WHERE SECTION IS DRAWN</p> <p>DETAIL IDENTIFICATION SHEET WHERE DETAIL IS DRAWN</p> <p>FINISH GRADE (SPOT) ELEVATION SURFACE</p> <p>EXISTING GRADE (SPOT) ELEVATION SURFACE</p> <p>PROPERTY LINE</p> <p>REVISION</p>	<p><b>OWNER</b> MONTEREY PENINSULA WATER MANAGEMENT DISTRICT 5 Harris Court Monterey, CA 93940</p> <p><b>PROJECT ENGINEER</b> PUEBLO WATER RESOURCES, INC. 4478 Market Street, Suite 705 Ventura, CA 93003 ph: (805) 620-2238 Email: stanner@pueblo-water.com Contact: Steve Tanner</p> <p><b>CIVIL / CHEM RM. MECH.</b> MAC DESIGN ASSOCIATES 1933 Cliff Drive, Suite E Santa Barbara, CA 93109 ph: (805) 957-4748 Email: fhammadi@macdesignsb.com Contact: Fred Hammadi</p> <p><b>ARCHITECT</b> WALD, RUHNKE &amp; DOST ARCHITECTS, LLP 2340 GARDEN ROAD, SUITE 100 MONTEREY, CA 93940 ph: (831) 649-4642 Email: louub@wrarch.com Contact: Lou Bartlett</p> <p><b>STRUCTURAL</b> HOWARD CARTER AND ASSOCIATES, INC. 9600 BLUE LARKSPUR LN, STE. 202 MONTEREY, CA 93940 ph: (831) 373-3119 Email: hc93940@redsoft.com Contact: Cesar Garcia</p> <p><b>MECHANICAL HVAC</b> AG Mechanical Engineers, Inc. 629 State St., Suite 210 Santa Barbara, CA 93101 ph: (805) 966-8044 ext 201 Email: wayne@agmeinc.com Contact: Wayne Adams</p> <p><b>ELECTRICAL / P &amp; ID</b> Kiyoi Engineering, Inc. 5266 Hollister Ave., #117 Santa Barbara, CA 93111 ph: (805) 681-0980 Emails: rkiyoi@kiyoieng.com ; wstone@kiyoieng.com Contact: Robert Kiyoi ; Wynn Stone</p>	<p><b>APPLICABLE BUILDING CODES &amp; STANDARDS</b> 2016 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. 2016 CALIFORNIA RESIDENTIAL CODE (CRC), PART 2.5, TITLE 24 C.C.R. 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R. 2016 CALIFORNIA HISTORICAL BUILDING CODE (CHC), PART 8, TITLE 24 C.C.R. 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R. 2016 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R. 2016 CALIFORNIA GREEN STANDARDS CODE (CALGreen), PART 11, TITLE 24 C.C.R. 2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS</p> <p><b>PARTIAL LIST OF APPLICABLE STATE STANDARDS</b> NFPA 13, AUTOMATIC SPRINKLER SYSTEMS, (CA AMENDED) 2016 EDITION NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, (CA AMENDED) 2016 EDITION</p>	<p><b>SHT. # SHEET TITLE (72)</b></p> <p><b>GENERAL (5)</b> G1 COVER SHEET G2 CHEMICAL DOSING SUMMARY G3 SEASONAL FLOW PATTERN G4 PROCESS FLOW DIAGRAM G5 PROCESS FLOW DIAGRAM</p> <p><b>CIVIL (15)</b> C1 GENERAL INFORMATION C2 SITE PLAN C3 FINAL GRADING PLAN C4 FINAL GRADING PLAN C5 CHEMICAL LOADING RACK DETAILS C6 SITE DETAILS C7 UTILITY AND PIPING PLAN C8 UTILITY AND PIPING PLAN C9 16" AND 30" TRANSMISSION LINE MODIFICATIONS C10 PIPING DETAILS C11 PIPING DETAILS C12 PERIMETER FENCE PLAN AND DETAILS C13 ENERGY DISSIPATOR AND SUMP DETAILS C14 UTILITY WATER PIPING AND DETAILS C15 EROSION CONTROL</p> <p><b>CHEMICAL ROOM MECHANICAL (8)</b> M1A CHEMICAL ROOM 101 (HYPOCHLOTITE) M1B CHEMICAL ROOM 102 (PO4) M2A CHEMICAL ROOM 101 DETAILS M2B CHEMICAL ROOM 102 DETAILS M3 TYPICAL CHEMICAL ROOM GRATING PLAN M4 CHEMICAL ROOM PIPING DETAILS M5 CHEMICAL ROOM PIPING DETAILS M6 ANALYZER ROOM PIPING DETAILS</p> <p><b>ARCHITECTURAL (13)</b> A101 PARTIAL SITE PLAN A111 SITE DETAILS A201 FLOOR PLAN A211 FLOOR PLAN A230 ROOF PLAN A301 SCHEDULES A401 EXTERIOR ELEVATIONS A411 CONCEPTUAL RENDERINGS A421 CONCEPTUAL RENDERINGS A701 BUILDING SECTION A702 BUILDING SECTION A801 DETAILS A802 DETAILS A803 DETAILS</p> <p><b>STRUCTURAL (5)</b> S1.0 GENERAL NOTES AND TYPICAL DETAILS S2.0 FOUNDATION AND FRAMING PLAN S3.0 BUILDING SECTIONS AND CMU DETAILS S4.0 FOUNDATION AND FRAMING DETAILS S4.1 FOUNDATION AND FRAMING DETAILS</p> <p><b>MECHANICAL HVAC (4)</b> HV1.0 MECHANICAL COVER SHEET HV1.1 MECHANICAL DETAILS HV2.0 MECHANICAL FLOOR PLAN HV2.1 MECHANICAL ROOF PLAN</p> <p><b>ELECTRICAL (12)</b> E-1 SYMBOLS AND NOTES E-2 ONE LINE DIAGRAM E-3 MAIN FEEDER ELECTRICAL PLAN E-4 SOUTH SIDE ELECTRICAL PLAN E-5 NORTH &amp; EAST SIDE ELECTRICAL PLAN E-6 BUILDING ELECTRICAL PLAN E-7 ROOF ELECTRICAL PLAN E-8 GROUNDING, INDOOR LIGHTING &amp; INDOOR MECHANICAL ELECTRICAL PLAN E-9 DETAILS - 1 E-10 DETAILS - 2 E-11 CONTROL ELEMENTARY SCHEMATICS - 1 E-12 CONTROL ELEMENTARY SCHEMATICS - 1</p> <p><b>P &amp; ID (10)</b> I-1 LEGEND AND SYMBOLS I-2 DISTRIBUTION PIPING &amp; INSTRUMENT DIAGRAM I-3 OUTSIDE PUMP &amp; COMPRESSED AIR PIPING &amp; INSTRUMENT DIAGRAM I-4 SODIUM HYPOCHLORITE CHEMICAL STORAGE &amp; TRANSFER PIPING &amp; INSTRUMENT DIAGRAM I-5 SODIUM HYPOCHLORITE CHEMICAL METERING SYSTEM PIPING &amp; INSTRUMENT DIAGRAM I-6 ANALYZERS PIPING &amp; INSTRUMENT DIAGRAM I-7 ZINC ORTHOPHOSPHATE CHEMICAL STORAGE &amp; TRANSFER PIPING &amp; INSTRUMENT DIAGRAM I-8 ZINC ORTHOPHOSPHATE CHEMICAL METERING SYSTEM PIPING &amp; INSTRUMENT DIAGRAM I-9 FUTURE CHEMICAL STORAGE AND TRANSFER PIPING AND INSTRUMENT DIAGRAM I-10 FUTURE CHEMICAL METERING SYSTEM PIPING &amp; INSTRUMENT DIAGRAM</p>						
<p><b>LOCATION MAP</b></p>						<p><b>JOB NO.:</b> 18014.2</p> <p><b>PRINT DATE:</b> 8.2.2019</p> <p><b>PLOT DATE:</b> 8.2.2019</p> <p><b>CHECKED BY:</b> -</p> <p><b>SET ISSUED:</b> -</p> <p><b>80% DESIGN REVIEW</b> 5/17/19 <b>100% DESIGN REVIEW</b> 6/25/19</p> <p><b>ISSUED FOR BID</b> 8/5/19</p> <p><b>SHEET NAME:</b> -</p> <p><b>COVER SHEET</b></p> <p><b>SHEET NO.:</b> G1</p> <p><b>FILE NAME:</b> 18014.2.001</p>					

MPWMD SANTA MARGARITA ASR FACILITY  
CHLORINATION BUILDING  
1910 GENERAL JIM MOORE BLVD.  
SEASIDE, CA



FLOW SCHEMATIC  
NTS

12.5% Sodium Hypochlorite Dosing Chart

Facility Flow (MGD)	3.3	4.3	6.6	8.6	9.8	12.9
16" Flow (gpm)	2300	3000	0	0	2300	3000
20" Flow (gpm)	0	0	4600	6000	4600	6000
12.5% Hypo feed @ 1.5 mg/L (GPH)	1.4	1.9	2.9	3.8	4.3	5.6
12.5% Hypo feed @ 3.0 mg/L (GPH)	2.9	3.8	5.8	7.5	8.6	11.3
12.5% Hypo feed @ 4.5 mg/L (GPH)	4.3	5.6	8.6	11.3	12.9	16.9

29% Orthophosphate (Carus 4500) Dosing Chart

Facility Flow (MGD)	3.3	4.3	6.6	8.6	9.8	12.9
16" Flow (gpm)	2300	3000	0	0	2300	3000
20" Flow (gpm)	0	0	4600	6000	4600	6000
Orthophosphate feed @ 1.5 mg/L (GPH)	0.54	0.71	1.1	1.4	1.6	2.1
Orthophosphate feed @ 2.5 mg/L (GPH)	0.90	1.2	1.8	2.3	2.7	3.5



DATE SIGNED \_\_\_\_\_

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REV	DATE	BY	DESCRIPTION
08-05-19			ISSUED FOR BID

SCALE:  
HOR. N/A  
VER. N/A

WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED SPT  
DRAWN TLA/FH  
CHECKED SPT

**MAC Design Associates**  
CIVIL ENGINEERING \* LAND PLANNING \* BRIDGE DESIGN  
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

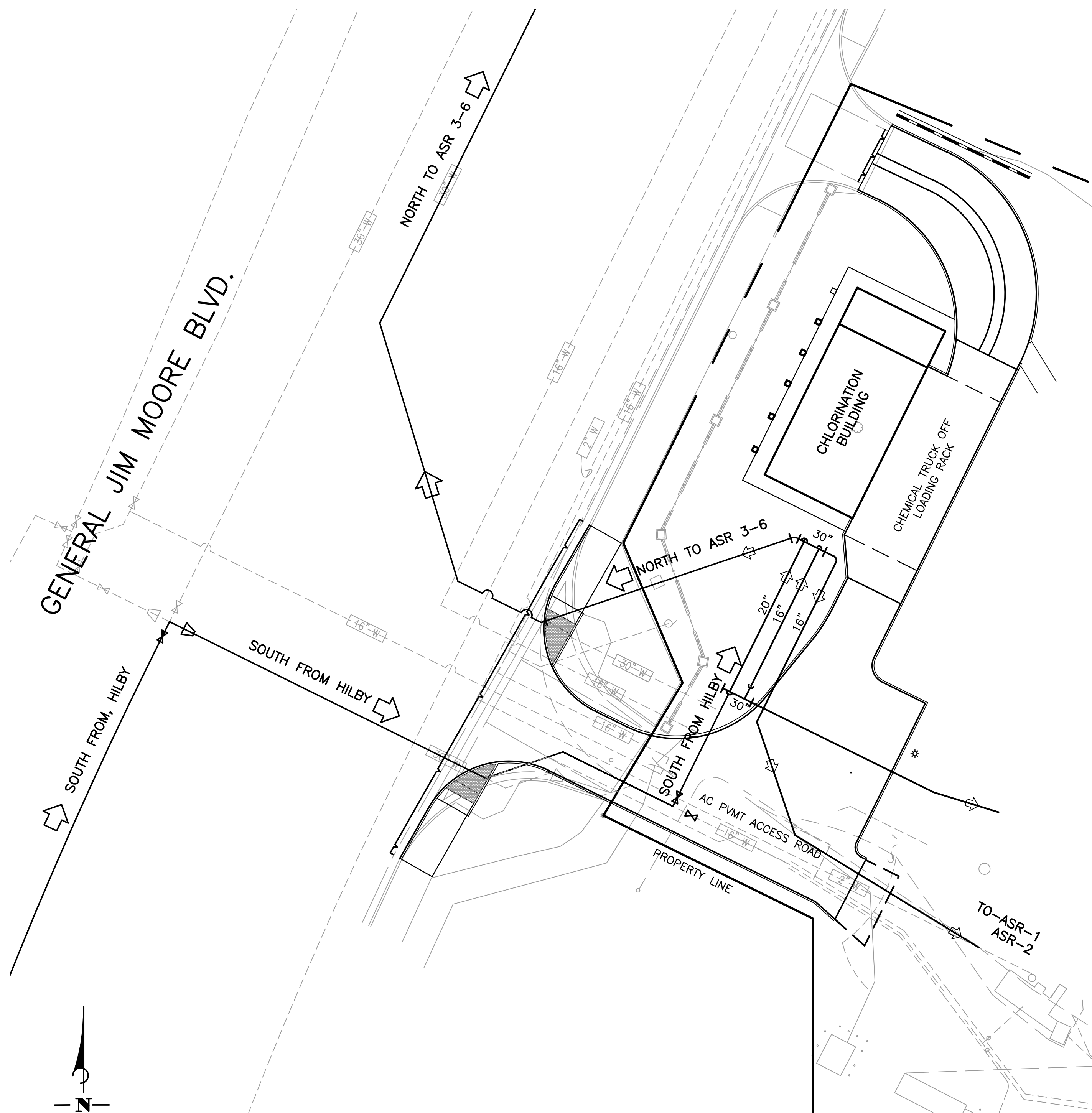


**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**CHEMICAL DOSING SUMMARY**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

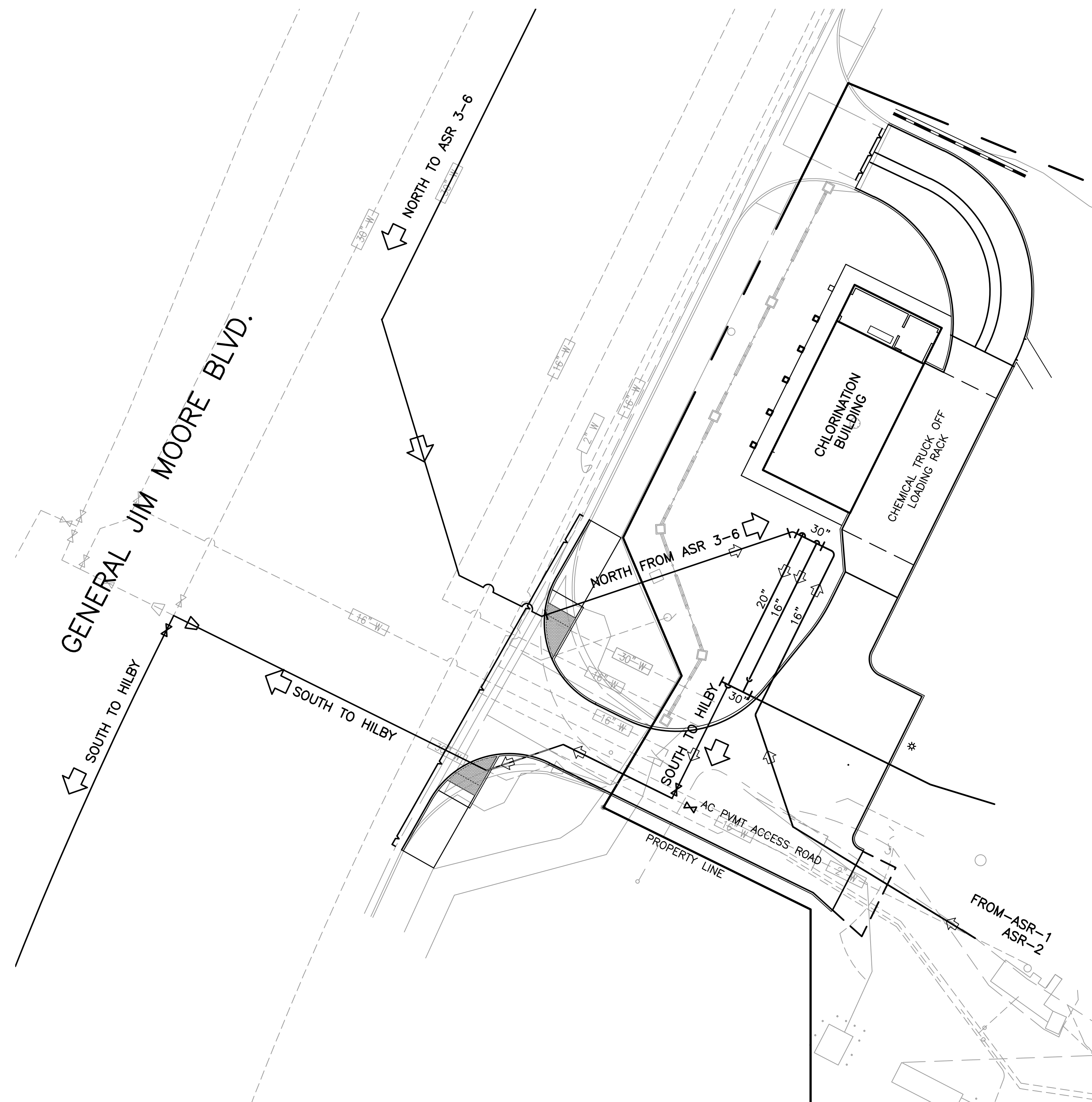
PROJECT NO.  
W.O. 0451

G2



INJECTION PERIOD DECEMBER-MAY

SCALE: 1"=20'

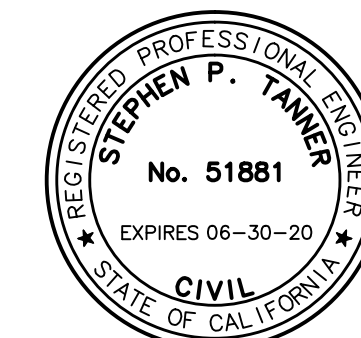


RECOVERY PERIOD JULY-NOVEMBER

SCALE: 1"=20'

LEGEND

- CHLORINATED WATER \_\_\_\_\_
- RAW UNCHLORINATED/DECHLORINATED WATER \_\_\_\_\_

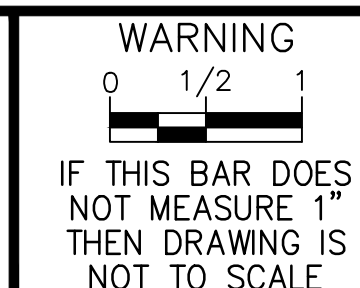


DATE SIGNED \_\_\_\_\_

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1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

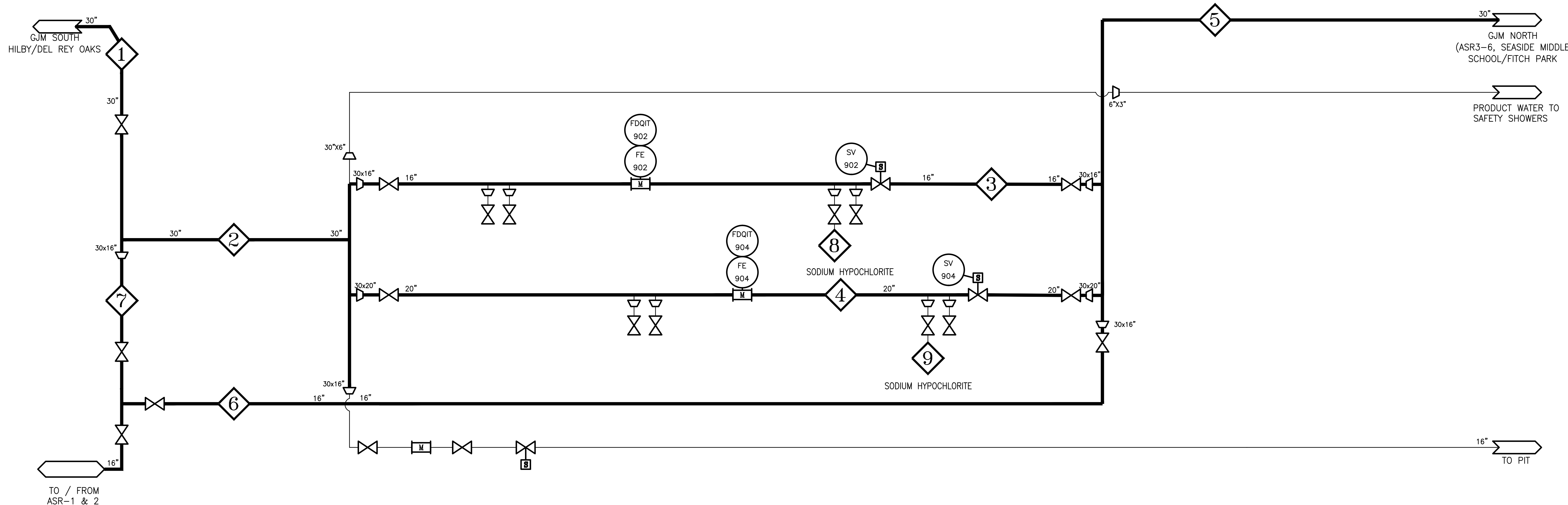


**Pueblo Water Resources**  
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Ventura, CA 93003  
(805) 644-0470

**SEASONAL FLOW PATTERN**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

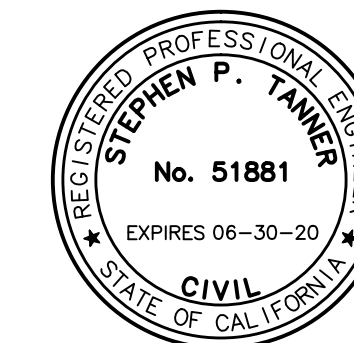
PROJECT NO.  
W.O. 0451  
**G3**

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**CASE 1: AECOM 9.8 MGD WELL PRODUCTION; NO CHLORINATION @ FITCH PARK**

CASE	INJECTION (DEC/MAY)									PRODUCTION: SM ONLY									PRODUCTION: SM + SMS									PRODUCTION: SM + SMS + FP									CASE
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	
FLOW, MGD	12.9	8.6	3.3	5.3	8.6	0.0	4.3			3.3	3.3	3.3	0.0	0.0	3.3	0.0			6.6	6.6	0.0	6.6	3.3	3.3	0.0			9.8	9.8	3.3	6.6	6.6	3.3	0.0			FLOW, MGD
FLOW, GPMx100	90.0	60.0	23.0	37.0	60.0	0.0	30.0			23.0	23.0	23.0	0.0	0.0	23.0	0.0			46.0	46.0	0.0	46.0	23.0	23.0	0.0			68.0	68.0	23.0	46.0	46.0	23.0	0.0			FLOW, GPM x 100
VELOCITY, FT/SEC.	4.4	2.9	4.3	4.3	2.9	0.0	5.5			1.1	1.1	4.1	0.0	0.0	4.1	0.0			2.2	2.2	0.0	5.1	1.1	4.1	0.0			3.3	3.3	4.1	5.1	2.2	4.1	0.0			VELOCITY, FT/SEC.
NAOCL FEED, GPH								0.0	0.0							2.8	0.0								2.8	5.7							2.8	5.7	NAOCL FEED, GPH		
NAOCL FEED, GPD								0	0							69	0								69	138							69	138	NAOCL FEED, GPD		
NAOCL FEED, mg/L								0.0	0.0							3.0	0.0								0.0	3.0							3.0	3.0	NAOCL FEED, mg/L		
CL RESIDUAL, mg/L	1.5	1.5	1.5	1.5	1.5	0.0	1.5			1.5	1.5	1.5	0.0	0.0	0.0			1.5	1.5		1.5	0.0	0.0			1.5	1.5	1.5	1.5	0.0	0.0			CL RESIDUAL, mg/L			



DATE SIGNED \_\_\_\_\_

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08-05-19			ISSUED FOR BID
D 5/17/2019		SPT	60% DESIGN REVIEW

SCALE:  
HOR. 1"=1"  
VER. 1"=1"

**WARNING**  
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DESIGNED SPT  
DRAWN WNS  
CHECKED SPT

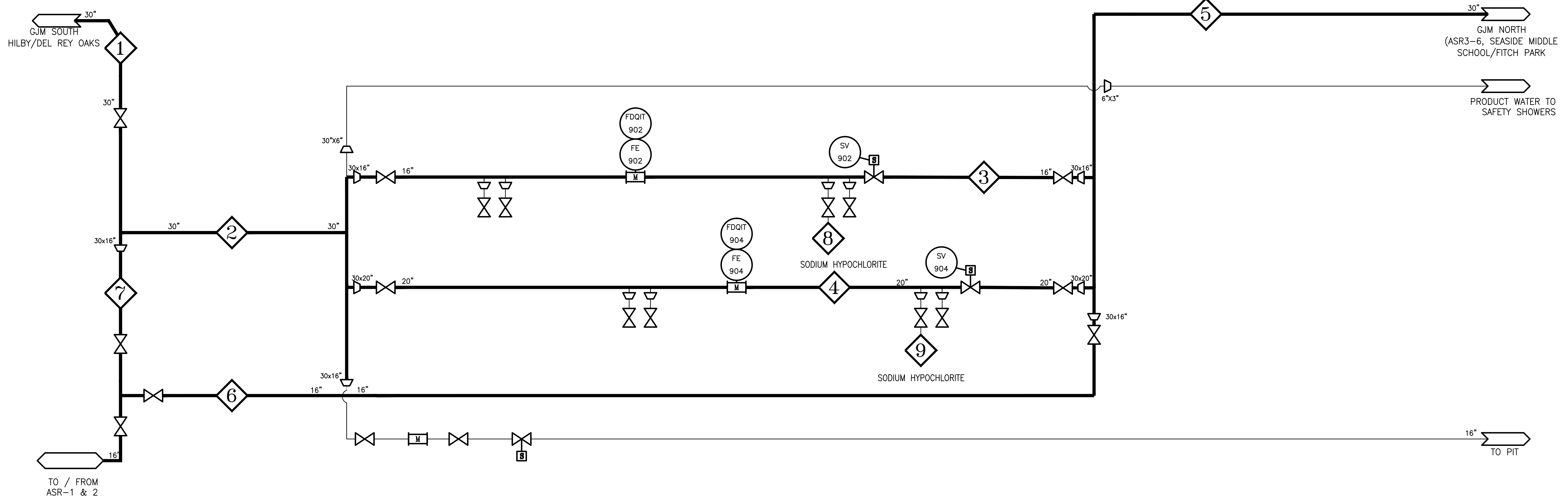


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**PROCESS FLOW DIAGRAM**  
SANTA MARGARITA ASR FACILITY CHLORINATION STATION  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**G4**



**MAXIMUM CASE 12.9 MGD ( 3,000 GPM / WELL; NO CHLORINATION @ FITCH PARK)**

CASE	INJECTION (DEC/MAY)									PRODUCTION: SM ONLY									PRODUCTION:SM+SMS									PRODUCTION:SM+SMS+FP									CASE
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8	9	
FLOW, MGD	12.9	8.6	3.3	5.3	8.6	0.0	4.3			4.3	4.3	4.3	0.0	0.0	4.3	0.0			8.6	8.6	0.0	8.6	4.3	4.3	0.0			12.9	12.9	4.3	8.6	8.6	4.3	0.0			FLOW, MGD
FLOW, GPMx100	90.0	60.0	23.0	37.0	60.0	0.0	30.0			30.0	30.0	30.0	0.0	0.0	30.0	0.0			60.0	60.0	0.0	60.0	30.0	30.0	0.0			90.0	90.0	30.0	60.0	60.0	30.0	0.0			FLOW, GPM x 100
VELOCITY, FT/SEC.	4.4	2.9	4.3	4.3	2.9	0.0	5.5			1.5	1.5	5.5	0.0	0.0	5.5	0.0			2.9	2.9	0.0	6.8	1.5	5.5	0.0			4.4	4.4	5.5	6.8	2.9	5.5	0.0			VELOCITY, FT/SEC.
NAOCL FEED, GPH								0.0	0.0							3.8	0.0									0.0	7.5							3.8	7.5	NAOCL FEED, GPH	
NAOCL FEED, GPD								0	0							90	0									0	180							90	180	NAOCL FEED, GPD	
NAOCL FEED, mg/L								0.0	0.0							3.0	0.0									0.0	3.0							3.0	3.0	NAOCL FEED, mg/L	
CL RESIDUAL, mg/L	1.5	1.5	1.5	1.5	1.5	0.0	1.5			1.5	1.5	1.5	0.0	0.0	0.0	0.0			1.5	1.5	0.0	1.5	0.0	0.0	0.0			1.5	1.5	1.5	1.5	0.0	0.0	0.0			CL RESIDUAL, mg/L



DATE SIGNED \_\_\_\_\_

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REV	DATE	BY	DESCRIPTION
D	08-05-19	SPT	ISSUED FOR BID
	5/17/2019	SPT	60% DESIGN REVIEW

SCALE:  
HOR. 1"=1"  
VER. 1"=1"

**WARNING**  
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DESIGNED SPT  
DRAWN WNS  
CHECKED SPT



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**PROCESS FLOW DIAGRAM**  
SANTA MARGARITA ASR FACILITY CHLORINATION STATION  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**G5**

## GENERAL NOTES

- ALL STATIONING & DISTANCES INDICATED ON THE DRAWINGS ARE BASED ON HORIZONTAL MEASUREMENTS IN FEET.
- THE CONTRACTOR SHALL NOTIFY THE MPWMD AND CALIFORNIA AMERICAN WATER REPRESENTATIVES AT LEAST 2 WORKING DAYS IN ADVANCE OF ANY WORK WHICH WILL REQUIRE THE INSPECTION SERVICES.
- "OWNER" SHALL MEAN THE MONTEREY PENINSULA WATER MANAGEMENT DISTRICT (MPWMD), 5 HARRIS COURT BUILDING G, MONTEREY, CA. 94940. MPWMD SHALL REFER TO MPWMD OR MPWMD REPRESENTATIVE. "UTILITY" SHALL MEAN CALIFORNIA AMERICAN WATER COMPANY. "ENGINEER" IS THE MPWMD PROJECT ENGINEER, PUEBLO WATER RESOURCES.
- AT LEAST 2 WORKING DAYS PRIOR TO ANY EXCAVATION WORK THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 1-800-642-2444 FOR LOCATING AND MARKING UNDERGROUND UTILITIES IN THE AREAS OF WORK.
- THE EXISTING UTILITIES SHOWN AND INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY, AND ARE BASED ON AVAILABLE UTILITY INFORMATION PROVIDED BY THE UTILITY OWNER AND SELECTED FIELD LOCATING. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR VERIFICATION OF EXISTING UNDERGROUND UTILITIES, WHETHER INDICATED OR NOT ON THE DRAWINGS, PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL PROTECT ALL EXISTING OR NEWLY PLACED UTILITY STRUCTURES AND LINES FROM DAMAGE OR DISRUPTION OF SERVICE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE NECESSARY TEMPORARY UTILITY SERVICES AND SHALL RESTORE PERMANENT UTILITY SERVICES DISRUPTED BY CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITY LINES AT LEAST ONE WORKING DAY AHEAD OF PIPE LAYING OPERATION TO VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES. ANY CONFLICTS WILL BE RESOLVED BY THE MPWMD REPRESENTATIVE PRIOR TO PIPE INSTALLATION. IF ANY UNDERGROUND UTILITIES ARE DISCOVERED, THE CONTRACTOR SHALL SUBMIT ACCURATE STAMPED, SIGNED AND DATED DOCUMENTS DESCRIBING THE QUANTITY, SIZE, LOCATION, DEPTH, AND TYPE OF MATERIAL OF FOUND BURIED UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING FOR THE PRESENCE OF CONTAMINATED SOIL AND/OR GROUNDWATER DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE MPWMD REPRESENTATIVE IF ANY SUSPECT MATERIALS ARE ENCOUNTERED. CONTACT SHALL BE MADE IMMEDIATELY BY TELEPHONE, WITH WRITTEN NOTIFICATION WITHIN 3 WORKING DAYS.
- ALL TRENCHING OPERATIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 8 (CAL/OSHA).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE ON OR OFF THE PROJECT SITE AS A RESULT OF CONSTRUCTION ACTIVITIES INCLUDING THE LACK OF DUST CONTROL AND TRAFFIC CONTROL.
- UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL CERTIFY THAT ALL WORK WAS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. VARIATIONS SHALL BE DECLARED AND PRESENTED TO THE MPWMD IN WRITING UPON COMPLETION OF CONSTRUCTION, IN THE FORM OF MARKED UP PLANS SHOWING ALL CHANGES.
- THE ENGINEER AND/OR THE MPWMD REPRESENTATIVE WILL NOT DIRECTLY CONTROL THE PHYSICAL ACTIVITIES OF THE CONTRACTOR OR ANY SUBCONTRACTORS. CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL VERIFY WORK IN FIELD AND SHALL SATISFY HIMSELF AS TO THE ACCURACY BETWEEN WORK SET FORTH ON THESE PLANS AND THE WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE MPWMD REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE PROJECT ENGINEER FOR APPROVAL AND SHALL COORDINATE ALL WORK TO ALLOW VEHICLE ACCESS TO RESIDENCES AND/OR BUSINESSES NEAR THE PROJECT AREA. EXCEPT WHEN A LANE CLOSURE IS IN EFFECT IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN, NO VEHICLES, EQUIPMENT OR MACHINERY ARE ALLOWED TO PARK ON THE SHOULDER OF GENERAL JIM MOORE BOULEVARD AT ANY TIME.
- ANY AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO ORIGINAL CONDITIONS AND HYDROSEEDING SO AS TO RESTORE NATURAL GROWTH, THIS INCLUDES ALL CUT OR FILL SLOPES. HYDROSEED MUST BE NATIVE MIX IN ACCORDANCE WITH REQUIREMENTS ON THE FORMER FORT ORD. A LAYER OF CRETIPIED WEED FREE MULCH, WEED FREE RICE, STERILE BARLEY STRAW, OR OTHER SIMILAR FUNCTIONING PRODUCT SHALL BE INSTALLED FOR EROSION CONTROL. CLEARED DELETERIOUS MATERIAL MUST BE WOODCHIPPED AND USED ON THE SITE AS MULCH.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TEMPORARY CONSTRUCTION WATER APPLICATION FOR WATER USE AND METERING FROM MARINA COAST WATER DISTRICT PHONE NUMBER IS (831) 384-6131.
- CONSTRUCTION SHALL COMPLY WITH THE STANDARD PLANS AND STANDARD SPECIFICATIONS OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, STATE OF CALIFORNIA LATEST EDITION, AND THE LATEST EDITION OF THE CITY OF SEASIDE STANDARD DETAILS AS NOTED ON THE CONSTRUCTION PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COPIES OF SAID DOCUMENTS AND SHALL HAVE THEM AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- WATER LINES, VALVES, AND WATER APPURTENANCES SHALL CONFORM TO THE LATEST STANDARD SPECIFICATIONS AND STANDARD PLANS OF THE CALIFORNIA AMERICAN WATER COMPANY.
- ALL CONCRETE, REGARDLESS OF USE, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
- ALL EARTHWORK AND FOUNDATION CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE GEOTECHNICAL INVESTIGATION. CONTACT THE GEOTECHNICAL ENGINEER AT LEAST 48 HOURS PRIOR TO REQUESTING ON-SITE OBSERVATION OR TESTING SERVICES.
- THE CONTRACTOR'S WORK SHALL CONFORM TO THE CITY OF SEASIDE'S ORDINANCE REGARDING MUNITIONS & EXPLOSIVES OF CONCERN (MEC).
- ELECTRICAL AND/OR COMMUNICATIONS CONDUITS SHALL BE NONMETALLIC SCHEDULE 40 P.V.C. PLASTIC RATED 90° C WITH GLUE ON P.V.C. COUPLINGS AND FACTORY MADE ELBOWS AND SWEEPS: CARLON "PLUS40".
- CONTRACTOR SHALL ENSURE THAT SITE SECURITY IS MAINTAINED THROUGHOUT CONSTRUCTION, AT A LEVEL EQUAL TO OR GREATER THAN PRECONSTRUCTION SITE CONDITIONS. SITE SECURITY SHALL INCLUDE TEMPORARY FENCING, GATES, AND ANY OTHER MEANS NEEDED TO PREVENT UNAUTHORIZED ACCESS TO SITE AT ALL TIMES, WHETHER DURING ACTIVE CONSTRUCTION OR IDLE/NON-WORKING HOURS. CONTRACTOR'S RESPONSIBILITY FOR MAINTAINING EFFECTIVE SITE SECURITY SHALL COMMENCE ON THE DAY OF NOTICE TO PROCEED THROUGH NOTICE OF COMPLETION.

**THE CONTRACTOR'S WORK SHALL CONFORM TO THE CITY OF SEASIDE'S ORDINANCE REGARDING MUNITIONS & EXPLOSIVES OF CONCERN (MEC), FORT ORD REUSE AUTHORITY RIGHT OF ENTRY, AND THE ASR ENVIRONMENTAL MITIGATION AND REPORTING PROGRAM**

UNAUTHORIZED CHANGES & USES CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

08-05-19	ISSUED FOR BIB		
REV	DATE	BY	DESCRIPTION

SCALE:  
HOR. N/A  
VER. N/A

WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED MAC  
DRAWN FH/TLA  
CHECKED SPT

**MAC Design Associates**  
CIVIL ENGINEERING \* LAND PLANNING \* BRIDGE DESIGN  
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

**PUEBLO**  
water resources

**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**GENERAL INFORMATION**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO.  
W.O. 0451

C1

## GRADING AND PAVING NOTES

- ALL WORK SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
  - PROJECT PLANS AND SPECIFICATIONS
  - STANDARD SPECIFICATIONS AND STANDARD DETAILS, LATEST EDITION OF THE CITY OF SEASIDE.
  - APPLICABLE SECTIONS OF THE CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION.
  - APPLICABLE SWPPP, NOI, AND NPDES REQUIREMENTS FOR THE PROJECT.
  - FORT ORD REUSE AUTHORITY RIGHT OF ENTRY, CITY OF SEASIDE DIGGING AND EXCAVATING ON THE FORMER FORT ORD PERMIT
  - AQUIFER STORAGE AND RECOVERY MITIGATION MONITORING PLAN
- CONTRACTOR SHALL NOTIFY MPWMD, CAL-AM, & THE CITY OF SEASIDE AT LEAST TWO (2) WORKING DAYS BEFORE STARTING GRADING WORK.
- WORK SHALL CONSIST OF ALL EARTHWORK RELATED TO THE SITE: ALL CLEARING, GRUBBING, STRIPPING, ROUGH GRADING, PREPARATION OF FOUNDATION AND MATERIALS FOR RECEIVING FILLS, EXCAVATION, IMPORT AND/OR EXPORT OF FILL, PROCESSING, PLACEMENT AND COMPACTION OF FILL MATERIALS, PLACEMENT OF SUBSURFACE DRAINS, PLACEMENT OF AGGREGATE BASE MATERIAL, ASPHALT CONCRETE (AC) AND/OR PORTLAND CEMENT CONCRETE (PCC) PAVING, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING AND PAVING TO CONFORM TO THE LINES, GRADES AND SLOPES, AS SHOWN ON THESE PLANS.
- SITE CONDITIONS: THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE AND NOTE ALL CONDITIONS AS TO THE CHARACTER AND EXTENT OF WORK INVOLVED.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS OR CERTIFICATES AS REQUIRED BY THE CITY.
- ALL EARTHWORK SHALL BE CONSTRUCTED PER THE GRADING SPECIFICATIONS IN THE GEOTECHNICAL REPORT. DUE TO NEIGHBOR CONCERNS, VIBRATORY COMPACTION EQUIPMENT MAY NOT BE USED ON THE SITE.
- BACKFILL FOR UNDERGROUND UTILITIES PLACED ON THE SITE SHALL CONSIST OF CLEAN SAND MATERIAL (MINIMUM S.E. = 30) TO A MINIMUM OF 12 INCHES OVER THE CONDUIT, UNLESS SHOWN OTHERWISE ON THE PLAN. BACKFILL FOR UNDERGROUND UTILITIES PLACED IN EXISTING STREETS SHALL CONSIST OF CLEAN, SAND MATERIAL (MINIMUM S.E. = 30) AND MEETING THE REQUIREMENTS OF SECTION 19-3.06C(1) FOR THE FULL TRENCH DEPTH TO THE PAVEMENT SUBGRADE, UNLESS SHOWN OTHERWISE ON THE PLAN. A SAMPLE SHALL BE SUBMITTED FOUR (4) DAYS BEFORE INTENDED USE, FOR REVIEW BY THE ENGINEER. AS APPROVED BY THE ENGINEER SITE SAND MAY BE USED AS BACKFILL FOR UTILITIES. BACKFILL TO A MINIMUM RELATIVE COMPACTION OF 90% OR 95% DEPENDING UPON THE LOCATION AND BASED UPON THE ASTM TEST DESIGNATIONS D1557, D1556 AND D2992. THE ENGINEER WILL DETERMINE THE LOCATIONS WHERE 95% COMPACTION IS REQUIRED.
- AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION, THE CONTRACTOR'S SUBCONTRACTORS ARE OPERATING EQUIPMENT ON THE SITE, SHALL PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE BY WATERING AND/OR TREATING THE SITE OF THE WORK IN SUCH A MANNER THAT WILL CONFINE DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE DONE BY THE DUST FROM HIS OR HER SUBCONTRACTOR'S ACTIVITIES IN PERFORMING THE WORK UNDER THIS CONTRACT. THE PRICES FOR THE VARIOUS ITEMS OF WORK SHALL COVER THIS DUST CONTROL.
- ALL AGGREGATE SUBBASE AND AGGREGATE BASE MATERIAL AND THE HANDLING AND PLACEMENT THEREOF, SHALL BE IN CONFORMANCE WITH CALTRANS STANDARD SPECIFICATIONS. AGGREGATE SUBBASE SHALL BE CLASS 1. AGGREGATE BASE SHALL BE CLASS 2. (RECLAIMED MATERIAL IS NOT APPROVED FOR USE IN THE CITY). COMPACT TO A MINIMUM OF 95% RELATIVE COMPACTION.
- A PRIME COAT OF LIQUID ASPHALT, GRADE MC-70, CONFORMING TO CALTRANS STANDARD SPECIFICATIONS, MAY BE APPLIED AT THE APPROXIMATE TOTAL RATE OF 0.25+ GALLONS PER SQUARE YARD TO THE SURFACE OF AGGREGATE BASE PRIOR TO PLACEMENT OF ASPHALT CONCRETE, IF THERE IS TO BE DELAY IN PLACING THE ASPHALT CONCRETE PAVEMENT.
- ASPHALT CONCRETE (AC) SHALL CONSIST OF A MIXTURE OF SAND, MINERAL AGGREGATE, AND LIQUID ASPHALT, DESIGNATED AS CALTRANS STANDARD SPECIFICATIONS, TYPE B, 1/2" MAXIMUM, MEDIUM GRADING. MIXED IN SUCH PROPORTIONS THAT THE PERCENTAGE BY WEIGHT WILL BE WITHIN:
 

SIEVE SIZES	OPERATING RANGE (% PASSING)
3/4"	100%
1/2"	95%
3/8"	80-95%
NO.4	59-66%
NO.8	43-49%
NO.30	22-27%
NO.200	5-8%

PLUS PAVING ASPHALT, VISCOSITY GRADE AR4000 AT 5 TO 6-1/2% OF THE COMBINED DRY AGGREGATES.

ACTUAL MIX DESIGN SHALL BE SUBMITTED TO THE OWNER'S CIVIL ENGINEER FOR APPROVAL AT LEAST 10 WORKING DAYS PRIOR TO STARTING ANY PAVING WORK.
- PAINT BINDER OF ASPHALT EMULSION, GRADE CRS-1, CONFORMING TO CALTRANS STANDARD SPECIFICATIONS, SHALL BE APPLIED TO EXISTING ASPHALT CONCRETE SURFACES AND VERTICAL CONCRETE SURFACES TO RECEIVE ASPHALT CONCRETE.
- MATERIALS AND INSTALLATION OF PORTLAND CEMENT CONCRETE CURB, GUTTER AND SIDEWALK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CALTRANS STANDARD SPECIFICATIONS AND THE CITY STANDARD SPECIFICATIONS AND DETAILS.
- EXISTING A.C. SURFACE SHALL BE SAW CUT TO A NEAT STRAIGHT LINE PARALLEL WITH THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. WHEN TRENCHING THROUGH CURB, GUTTER AND SIDEWALK, A SAW CUT WILL BE USED. WHERE EXISTING PAVEMENT IS TRENCHED, REPLACE WITH 4" THICK HMA-3/4" MEDIUM MIX OVER 12" THICK A.B. OR MATCH EXISTING SECTION, WHICHEVER IS GREATER. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RECOMPACTED AND RESPALED PRIOR TO REPAVING. CONFORM SHALL BE MINIMUM WIDTH OF 2'. TRENCH SECTION AND PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH CITY OF SEASIDE STANDARD S-601. STRIPING AND ROAD MARKERS THAT HAVE BEEN REMOVED SHALL BE REPLACED PER CITY STANDARDS.
- ALL VALVE BOXES AND MANHOLES TO BE SET FLUSH WITH FINISHED GRADE, UNLESS OTHERWISE NOTED.
- APPROVAL OF THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE, IS REQUIRED ON COMPLETED WORK PRIOR TO (A) PLACING OF ANY CONCRETE, (B) PLACING OF AGGREGATE BASE, (C) PLACING OF ASPHALTIC CONCRETE, (D) BACK FILLING TRENCHES FOR PIPE. WORK DONE WITHOUT SUCH APPROVAL, SHALL BE AT THE CONTRACTOR'S RISK. SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER. REVIEW MAY INCLUDE SURVEY OF SUBBASE, BASE, AND AC/PCC FINISHED GRADE TO VERIFY GRADES.

GRADING TOLERANCES SHALL BE AS FOLLOWS:

AREA	TOLERANCE
CURB & GUTTER	0.01 FEET
PAVEMENT	0.02 FEET
BASE OR SUBBASE	0.05 FEET

- PRIOR TO PERFORMING THE FINAL GRADING AND SUB-GRADE COMPACTION FOR THE PAVED AREAS, THE CONTRACTOR SHALL REVIEW THE PROPOSED GRADES WITH THE MPWMD'S ENGINEER AND COMPLY WITH HIS REQUESTS FOR ANY MINOR GRADE CHANGES.
- NOT USED
- PAVEMENT MARKERS SHALL CONFORM TO SECTION 85 OF THE CALTRANS STANDARD SPECIFICATIONS AND THE SUPPLEMENTARY CONDITIONS.
- ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO IN THE SPECIAL PROVISIONS. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REPLACED UNDER OBSERVATION.
- QUALITY ASSURANCE: FIELD OBSERVATION AND TESTING OF THE EARTHWORK CONSTRUCTION SHALL BE COORDINATED BY THE OWNER'S CIVIL ENGINEER. EARTHWORK THAT IN THE OPINION OF THE ENGINEER, DOES NOT CONFORM TO THE PLANS, SHALL BE REMOVED AND REPLACED OR REWORKED UNTIL, IN THE OPINION OF THE ENGINEER, SATISFACTORY EARTHWORK CONSTRUCTION HAS BEEN OBTAINED. REWORKING, OR REMOVAL AND REPLACEMENT OF EARTHWORK CONSTRUCTION AS DISCUSSED IN THIS PARAGRAPH SHALL BE AT THE SOLE EXPENSE OF THE CONTRACTOR.
- CAPE SEAL SHALL BE INSTALLED PER CAL TRANS SPECIFICATIONS FOR "DOUBLE SEAL COAT" PER SECTION 37-1.

## GENERAL WATER FACILITIES NOTES

- CONTRACTOR REPRESENTATIVE. CONTRACTOR SHALL ASSIGN AND PROVIDE UTILITY WITH THE NAME AND CONTACT INFORMATION OF A REPRESENTATIVE (JOB FOREMAN) AT THE JOB SITE WHERE THE WORK WILL BE PERFORMED ON UTILITY FACILITIES. CONTRACTOR'S REPRESENTATIVE IS REQUIRED TO ATTEND ANY PRE-CONSTRUCTION WALK-THROUGH MEETINGS. CONTRACTOR REPRESENTATIVE IS REQUIRED TO BE ON THE JOBSITE DURING ALL PHASES OF WORK, INCLUDING INSPECTIONS, AND CONTRACTOR SHALL NOT REPLACE THE REPRESENTATIVE WITHOUT PRIOR APPROVAL FROM MPWMD.
- IDENTIFICATION OF BURIED UTILITIES. BEFORE ANY WORK ON UNDERGROUND FACILITIES, CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) OR IDENTIFYING ANY BURIED UTILITIES NEAR THE WORK AREA. USA (PHONE 1-800-642-2444) MUST BE GIVEN A 48 HOUR ADVANCE NOTICE. MPWMD IS ONLY RESPONSIBLE FOR MARKING THOSE WATER FACILITIES OWNED BY MPWMD AND SHALL NOT BE RESPONSIBLE FOR MARKING NEW FACILITIES UNTIL MPWMD ACCEPTS OWNERSHIP. ANY CALLS TO THE MPWMD REGARDING SUCH FACILITIES WILL BE FORWARDED TO THE CONTRACTOR. ANY DAMAGES TO WATER FACILITIES TO BE OWNED BY MPWMD MUST BE REPORTED TO MPWMD IMMEDIATELY AND MPWMD MUST BE ALLOWED TO INSPECT THE APPROVED REPAIRS OR REPLACEMENTS.
- INSPECTION NOTICES. WHEN APPLICABLE, CONTRACTOR SHALL GIVE UTILITY AND CITY OF SEASIDE INSPECTORS 48 HOURS NOTICE (MINIMUM) BEFORE SCHEDULING ANY MEETING OR STARTING CONSTRUCTION, AND 24 HOURS NOTICE (MINIMUM) FOR INSPECTION.
- VERIFICATION OF DATA AND INFORMATION PROVIDED BY UTILITY. NOTICE IS HEREBY GIVEN TO THE CONTRACTOR THAT MPWMD HAS MADE ALL REASONABLE EFFORTS TO IDENTIFY THE TYPES, LOCATIONS, SIZES AND DEPTHS OF EXISTING OR PLANNED UNDERGROUND OR ABOVEGROUND UTILITIES, STRUCTURES, ROADS, PIPELINES, HARD ROCK, STRATA, TOPOGRAPHY, ETC. SUCH ITEMS, WHEN DEPICTED ON THE PLANS, HAVE BEEN OBTAINED FROM SOURCES OF VARYING RELIABILITY. THEREFORE, MPWMD AND ASSOCIATED COMPANIES CANNOT ASSUME RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF SAID INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING FACILITIES BY POT-HOULING ALL PROXIMATE WATER LINES TO CONFIRM SIZE, DEPTH AND MATERIAL TYPE OF EXISTING FACILITIES. IN CASE OF CONFLICT/S, CONTRACTOR SHALL BRING THE MATTER TO THE ATTENTION OF UTILITY FOR RESOLUTION BEFORE CONTINUING WORK.
- SURVEYING AND LOCATING. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED SURVEYING AND STAKING, SHOWING THE LOCATION AND GRADES FOR WORK ON THE WATER SYSTEM. CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND MAINTAINING ALL SURVEY MONUMENTS AND STAKING WHETHER EXISTING OR DISCOVERED DURING CONSTRUCTION.
- JOB SITE SAFETY. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY CURRENTLY APPLICABLE SAFETY LAW OF ANY JURISDICTIONAL AGENCY. CONTRACTOR IS ALSO RESPONSIBLE FOR PROJECT SITE SAFETY AND FOR PUBLIC SAFETY INCLUDING TRAFFIC CONTROL, 24-HOURS PER DAY FOR ALL DAYS FROM THE NOTICE TO PROCEED THROUGH THE NOTICE OF COMPLETION.
- PIPE AND FITTINGS. PIPING 12-INCH DIAMETER AND SMALLER SHALL BE AWMA C-900 CLASS 150 OR 200 PVC, UNLESS OTHERWISE NOTED (CLASS 200 PIPE IS REQUIRED WHEN WATER MAIN IS NEAR SEWERS). ALL FITTINGS SHALL BE DUCTILE IRON WITH CEMENT LINED INSIDE AND BITUMINOUS COATED OUTSIDE, WHICH SHALL BE PAINTED WITH POLYGUARD #14 MASTIC. CONTRACTOR SHALL PROVIDE PIPE AND FITTING MATERIALS SUBMITTAL TO MPWMD FOR APPROVAL BEFORE BEGINNING WORK.
- FLANGED FITTINGS. ALL FLANGED FITTINGS SHALL BE BOLTED TOGETHER WITH ZINC COATED STEEL NUTS AND BOLTS, GRADE 5 OR BETTER.
- MECHANICAL JOINTS. USE EBAA MECHANICAL JOINT MEGA-LUGS ON ALL MECHANICAL JOINT FITTINGS.
- CONCRETE THRUST BLOCKS. THRUST BLOCKS SHALL BE INSTALLED WHERE PIPE DEFLECTIONS EXCEED 4 DEGREES PER COUPLING/FITTINGS, AS SPECIFIED BY PIPE MANUFACTURER. USE EBAA MECHANICAL JOINT MEGA-LUGS ON ALL MECHANICAL JOINT FITTINGS. USE EBAA SERIES 1600 PIPE RESTRAINTS IN LIEU OF CONC. THRUST BLOCKS. UTILITY ENGINEER TO ADVISE CONTRACTOR OF REQUIRED LENGTH OF PIPE TO BE RESTRAINED. CONCRETE THRUST BLOCKS TO BE USED IF RESTRAINTS CANNOT BE UTILIZED.
- RETURNING PROPERTY TO ORIGINAL CONDITION. CONTRACTOR SHALL PHOTOGRAPH OR VIDEOTAPE JOB SITE AREA TO DOCUMENT EXISTING CONDITIONS BEFORE BEGINNING WORK TO MINIMIZE UNDUE CLAIMS. CONTRACTOR IS RESPONSIBLE TO RETURN ALL PROPERTY TO ORIGINAL OR BETTER CONDITION, INCLUDING TRAFFIC MARKINGS. ALL CLAIMS SHALL BE BORNE AND RESOLVED BY CONTRACTOR OR MPWMD SHALL ADDRESS SAID CLAIM AND MAY DEDUCT ANY COSTS FROM FINAL PAYMENT/RETENTION. A COPY OF THE CLAIM DOCUMENTS SHALL BE SUBMITTED TO MPWMD WITHIN 48 HOURS AFTER RECEIVING ANY SUCH CLAIMS.

## LEGEND

--- 16"W ---	EXIST. WATER LINE	BLDG	BUILDING
□ EV	EXIST. ELECT. VAULT	C.L.	CENTERLINE
○	EXIST. WATER VALVE	CONT	CONTINUOUS
—○—	EXIST. FENCE LINE	CTR	CENTER
—○—	PROPERTY LINE	CMP	CORRIGATED METAL PIPE
—X—X—X—X—	PROPOSED FENCE	CMU	CEMENT MORTAR UNIT
—X—X—X—X—	PROPOSED RETAINING WALL	DIA.	DIAMETER
		DET	DETAIL
		ELEV	ELEVATION
		FLG	FLANGE
		STL	STEEL
		SHT	SHEET
		TF	TOP OF FOOTING
		TW	TOP OF WALL
		TYP	TYPICAL
		W	WATER



DATE SIGNED \_\_\_\_\_

# EARTHWORK

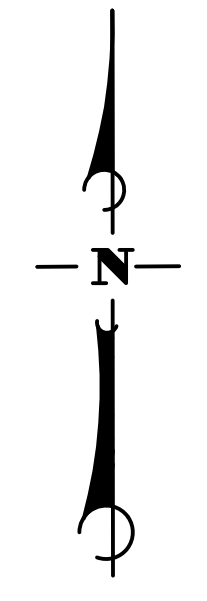
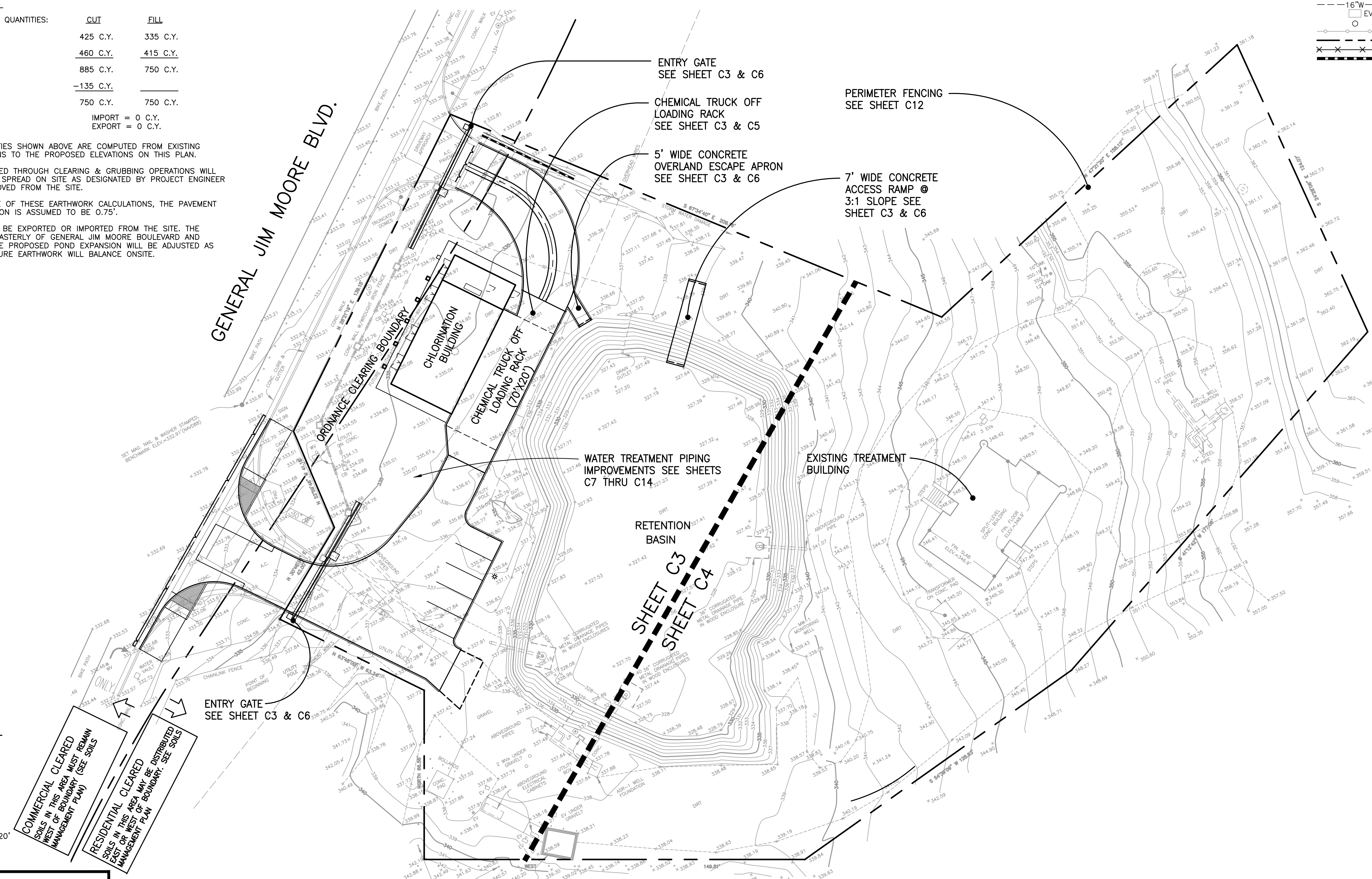
ESTIMATED EARTHWORK QUANTITIES:	CUT	FILL
SITE GRADING	425 C.Y.	335 C.Y.
TRENCH GRADING	460 C.Y.	415 C.Y.
SUBTOTAL	885 C.Y.	750 C.Y.
SHRINKAGE @ 15%	-135 C.Y.	
TOTAL	750 C.Y.	750 C.Y.

IMPORT = 0 C.Y.  
EXPORT = 0 C.Y.

- ESTIMATED QUANTITIES SHOWN ABOVE ARE COMPUTED FROM EXISTING GROUND ELEVATIONS TO THE PROPOSED ELEVATIONS ON THIS PLAN.
- MATERIAL GENERATED THROUGH CLEARING & GRUBBING OPERATIONS WILL BE MULCHED AND SPREAD ON SITE AS DESIGNATED BY PROJECT ENGINEER AND NOT BE REMOVED FROM THE SITE.
- FOR THE PURPOSE OF THESE EARTHWORK CALCULATIONS, THE PAVEMENT STRUCTURAL SECTION IS ASSUMED TO BE 0.75".
- NO MATERIAL WILL BE EXPORTED OR IMPORTED FROM THE SITE. THE BERMS LOCATED EASTERLY OF GENERAL JIM MOORE BOULEVARD AND NORTHERLY OF THE PROPOSED POND EXPANSION WILL BE ADJUSTED AS REQUIRED TO ENSURE EARTHWORK WILL BALANCE ONSITE.

### LEGEND

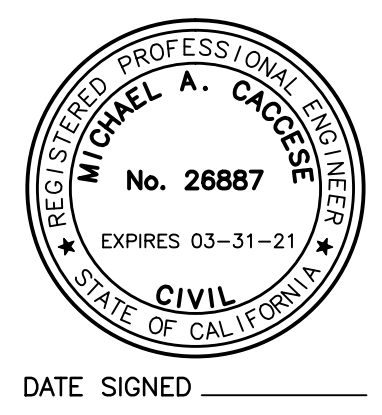
---	16"W	EXIST. WATER LINE
○	EV	EXIST. ELECT. VAULT
○		EXIST. WATER VALVE
---		EXIST. FENCE LINE
---		PROPERTY LINE
---		PROPOSED FENCE
---		PROPOSED RETAINING WALL
BLDG		BUILDING
C.L.		CENTERLINE
CONT		CONTINUOUS
CTR		CENTER
CMU		CORRUGATED METAL PIPE
DIA.		CEMENT MORTOR UNIT
DET		DIAMETER
ELEV		ELEVATION
FLG		FLANGE
STL		STEEL
SHT		SHEET
TF		TOP OF FOOTING
TW		TOP OF WALL
TYP		TYPICAL
W		WATER



COMMERCIAL CLEARED SOILS IN THIS AREA MUST REMAIN WEST OF BOUNDARY (SEE SOILS MANAGEMENT PLAN)

RESIDENTIAL CLEARED SOILS IN THIS AREA MAY BE DISTRIBUTED EAST OR WEST OF BOUNDARY (SEE SOILS MANAGEMENT PLAN)

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04/12/19 08:50:21 AM PDT 0451FGBLDC.DWG

REV	DATE	BY	DESCRIPTION
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SCALE:	HOR. 1"=20'
VER. N/A	

WARNING  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	MAC
DRAWN	TLA/FH
CHECKED	SPT

**MAC Design Associates**  
CIVIL ENGINEERING • LAND PLANNING • BRIDGE DESIGN  
1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748

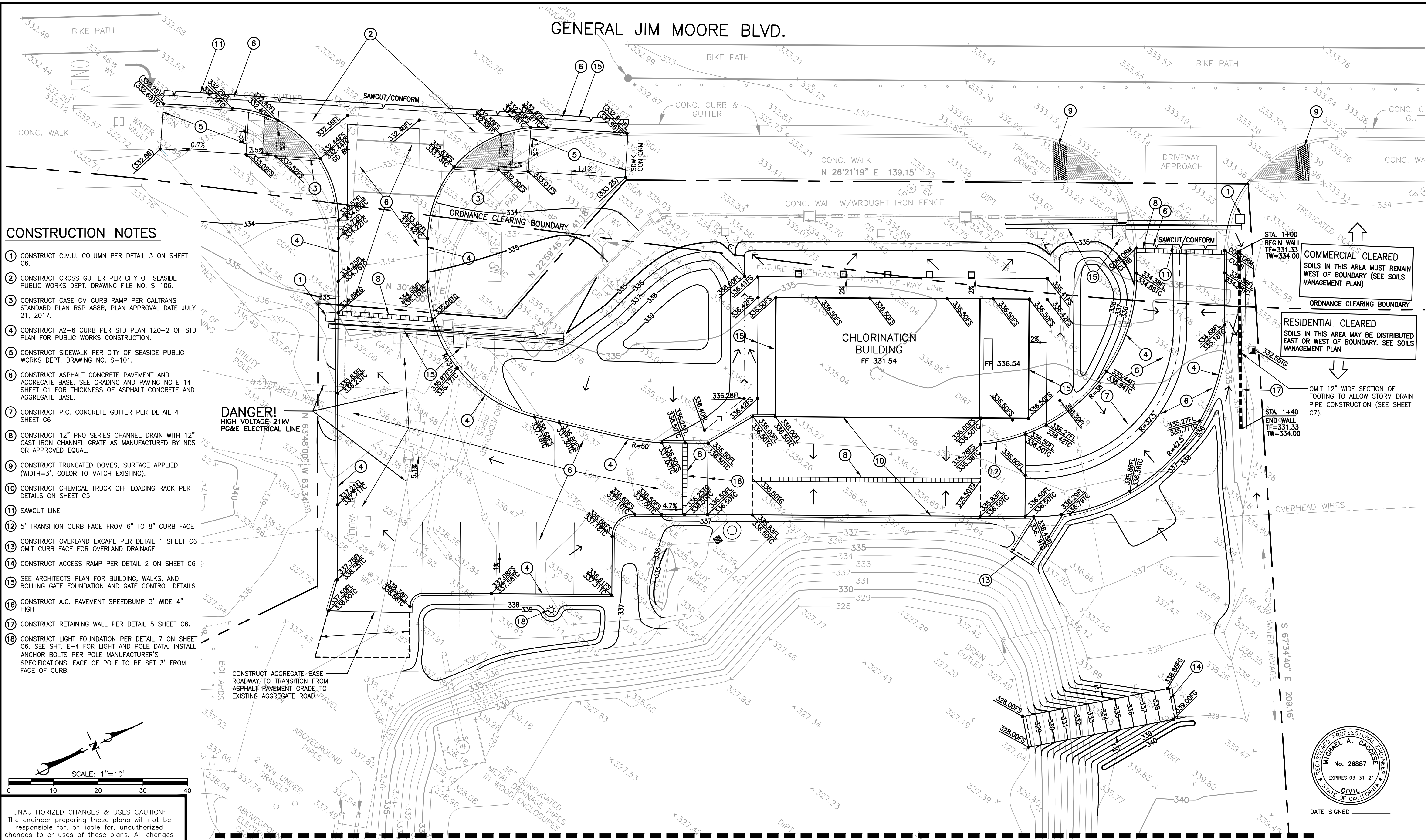


**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**SITE PLAN**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451  
**C2**

GENERAL JIM MOORE BLVD.



CONSTRUCTION NOTES

- 1 CONSTRUCT C.M.U. COLUMN PER DETAIL 3 ON SHEET C6.
- 2 CONSTRUCT CROSS GUTTER PER CITY OF SEASIDE PUBLIC WORKS DEPT. DRAWING FILE NO. S-106.
- 3 CONSTRUCT CASE CM CURB RAMP PER CALTRANS STANDARD PLAN RSP A88B, PLAN APPROVAL DATE JULY 21, 2017.
- 4 CONSTRUCT A2-6 CURB PER STD PLAN 120-2 OF STD PLAN FOR PUBLIC WORKS CONSTRUCTION.
- 5 CONSTRUCT SIDEWALK PER CITY OF SEASIDE PUBLIC WORKS DEPT. DRAWING NO. S-101.
- 6 CONSTRUCT ASPHALT CONCRETE PAVEMENT AND AGGREGATE BASE. SEE GRADING AND PAVING NOTE 14 SHEET C1 FOR THICKNESS OF ASPHALT CONCRETE AND AGGREGATE BASE.
- 7 CONSTRUCT P.C. CONCRETE GUTTER PER DETAIL 4 SHEET C6
- 8 CONSTRUCT 12" PRO SERIES CHANNEL DRAIN WITH 12" CAST IRON CHANNEL GRATE AS MANUFACTURED BY NDS OR APPROVED EQUAL.
- 9 CONSTRUCT TRUNCATED DOMES, SURFACE APPLIED (WIDTH=3', COLOR TO MATCH EXISTING).
- 10 CONSTRUCT CHEMICAL TRUCK OFF LOADING RACK PER DETAILS ON SHEET C5
- 11 SAWCUT LINE
- 12 5' TRANSITION CURB FACE FROM 6" TO 8" CURB FACE
- 13 CONSTRUCT OVERLAND EXCAPE PER DETAIL 1 SHEET C6 OMIT CURB FACE FOR OVERLAND DRAINAGE
- 14 CONSTRUCT ACCESS RAMP PER DETAIL 2 ON SHEET C6
- 15 SEE ARCHITECTS PLAN FOR BUILDING, WALKS, AND ROLLING GATE FOUNDATION AND GATE CONTROL DETAILS
- 16 CONSTRUCT A.C. PAVEMENT SPEEDBUMP 3' WIDE 4" HIGH
- 17 CONSTRUCT RETAINING WALL PER DETAIL 5 SHEET C6.
- 18 CONSTRUCT LIGHT FOUNDATION PER DETAIL 7 ON SHEET C6. SEE SHT. E-4 FOR LIGHT AND POLE DATA. INSTALL ANCHOR BOLTS PER POLE MANUFACTURER'S SPECIFICATIONS. FACE OF POLE TO BE SET 3' FROM FACE OF CURB.

**DANGER!**  
HIGH VOLTAGE 21KV  
PG&E ELECTRICAL LINE

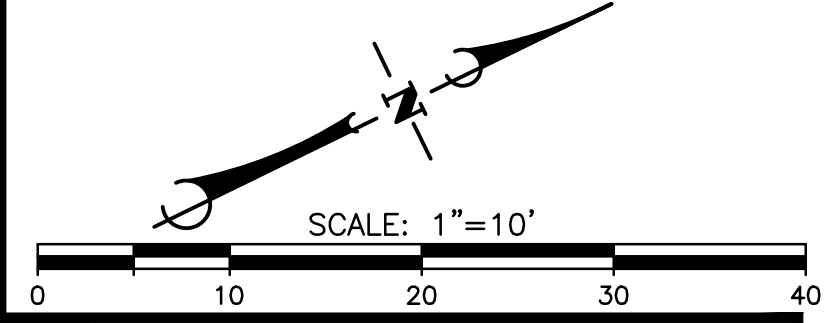
**COMMERCIAL CLEARED**  
SOILS IN THIS AREA MUST REMAIN WEST OF BOUNDARY (SEE SOILS MANAGEMENT PLAN)

**RESIDENTIAL CLEARED**  
SOILS IN THIS AREA MAY BE DISTRIBUTED EAST OR WEST OF BOUNDARY. SEE SOILS MANAGEMENT PLAN

OMIT 12" WIDE SECTION OF FOOTING TO ALLOW STORM DRAIN PIPE CONSTRUCTION (SEE SHEET C7).

STA. 1+40 BEGIN WALL  
TF=331.33  
TW=334.00

STA. 1+40 END WALL  
TF=331.33  
TW=334.00



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SCALE:  
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VER. 1"=N/A

**WARNING**  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED MAC  
DRAWN TLA/FH  
CHECKED SPT

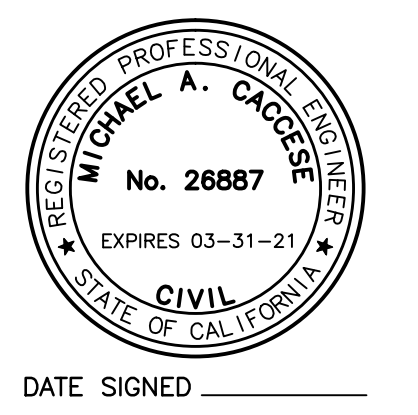
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1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748



**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**FINAL GRADING PLAN**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

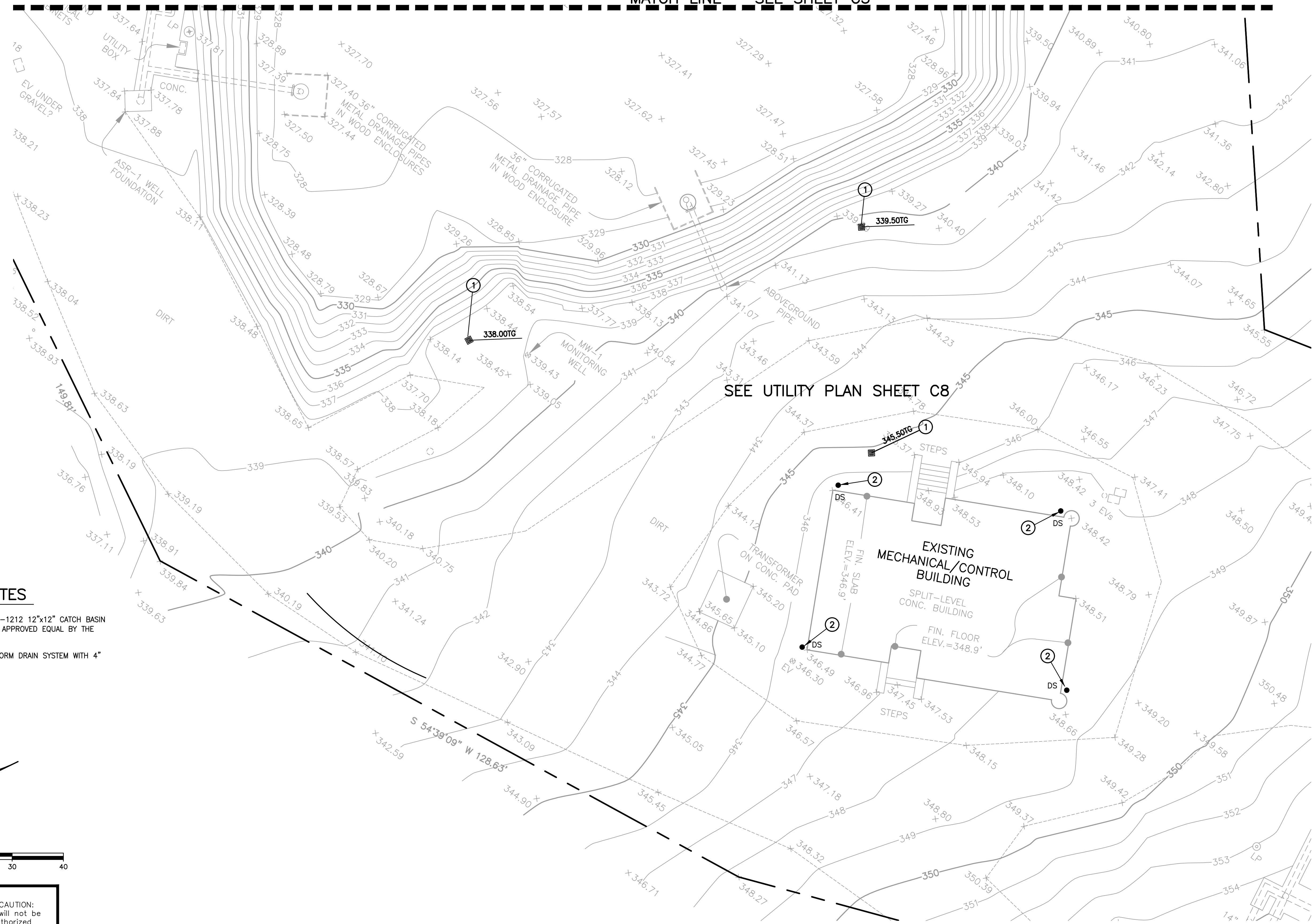
PROJECT NO. W.O. 0451  
**C3**



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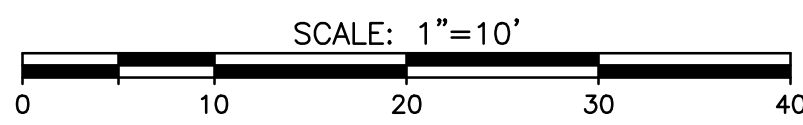
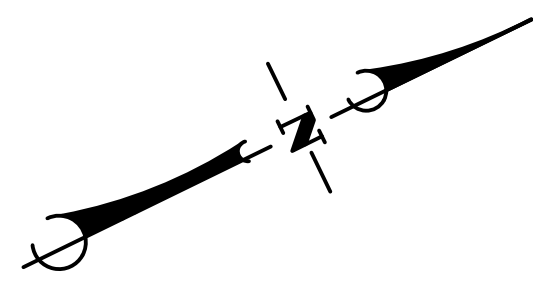
MATCH LINE – SEE SHEET C3



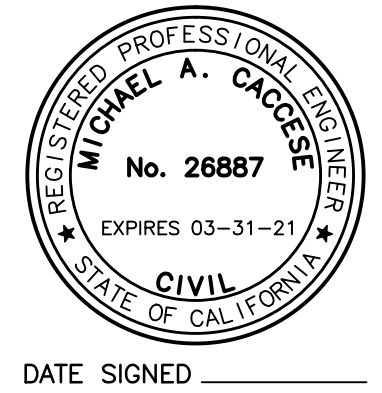
SEE UTILITY PLAN SHEET C8

**CONSTRUCTION NOTES**

- ① CONSTRUCT BROOKS PRODUCT CB-1212 12"x12" CATCH BASIN WITH GRATE (ADA COMPLIANT) OR APPROVED EQUAL BY THE OWNER.
- ② CONNECT DOWNSPOUT TO SITE STORM DRAIN SYSTEM WITH 4" P.V.C. PIPE.



UNAUTHORIZED CHANGES & USES CAUTION:  
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08-05-19			ISSUED FOR BIB

SCALE:  
HOR. 1"=10'  
VER. 1"=N/A

WARNING  
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED MAC  
DRAWN TLA/FH  
CHECKED SPT

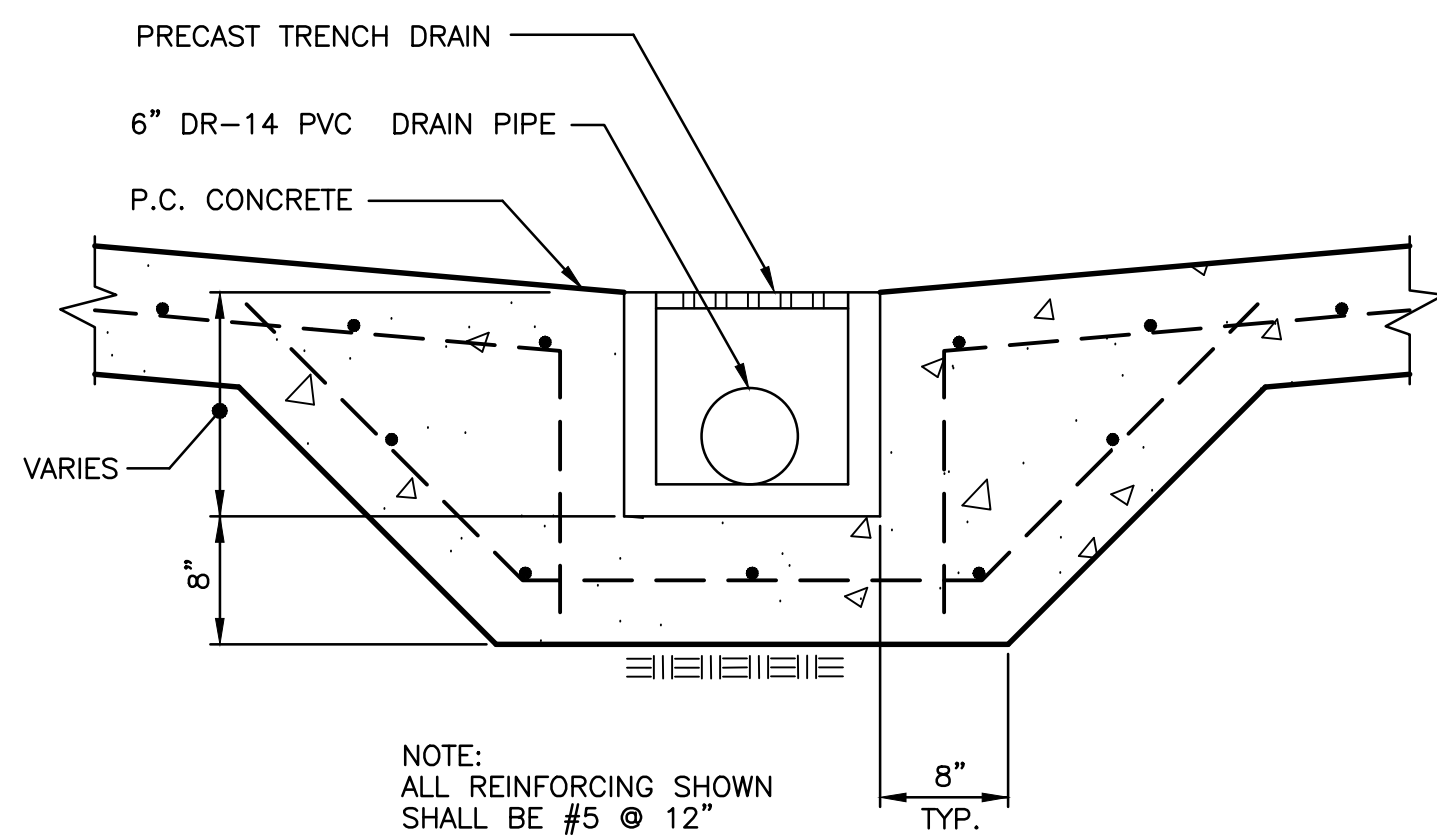
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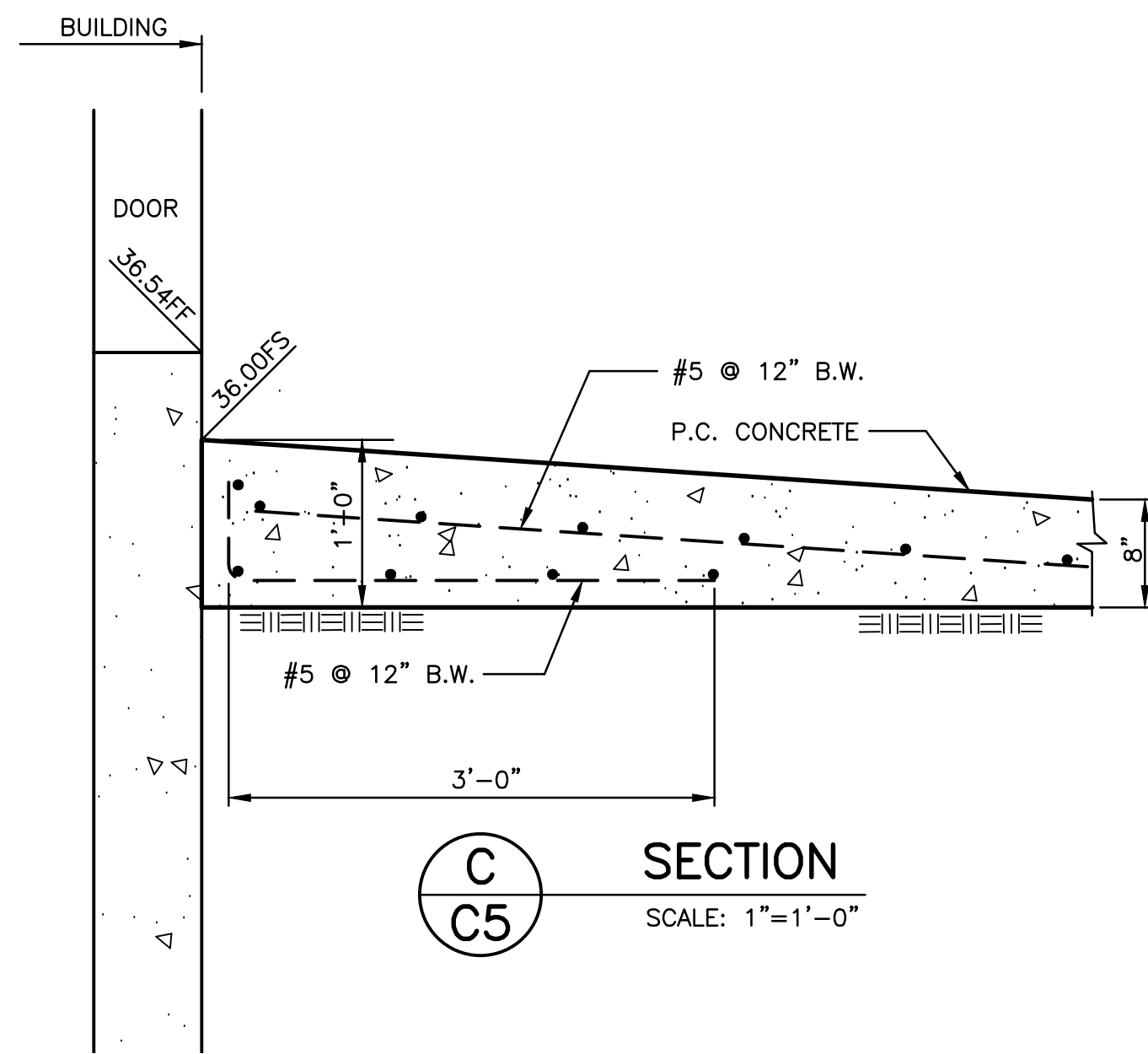
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**FINAL GRADING PLAN**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

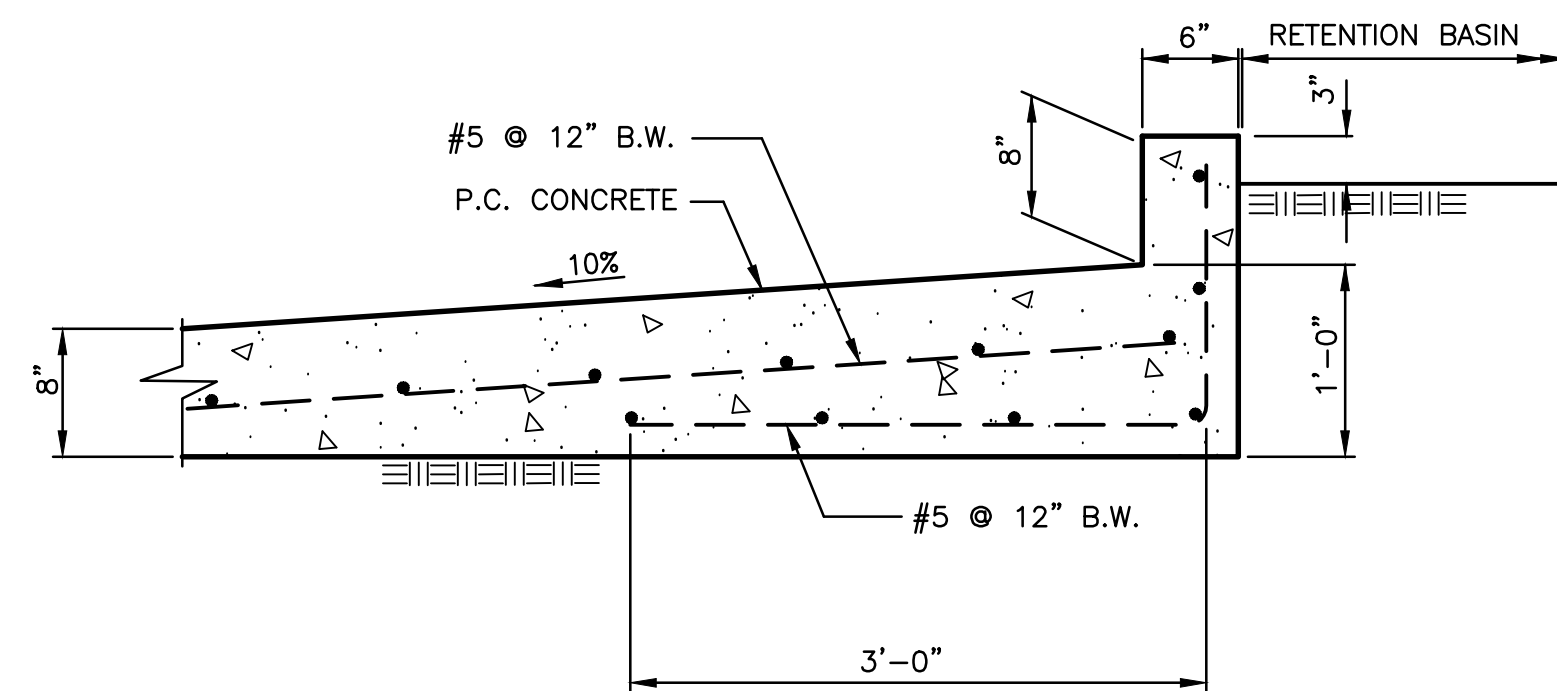
PROJECT NO.  
W.O. 0451  
**C4**



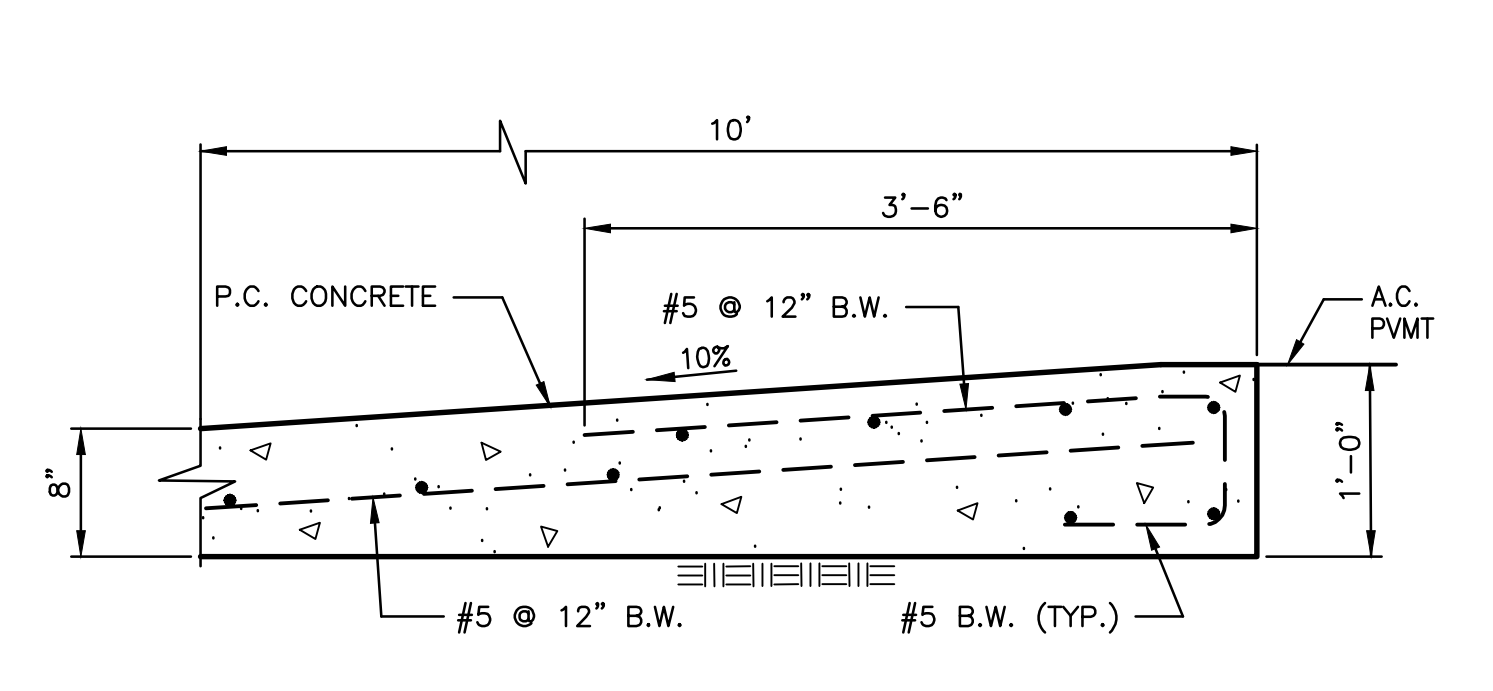
**B**  
**C5** SECTION  
SCALE: 1"=1'-0"



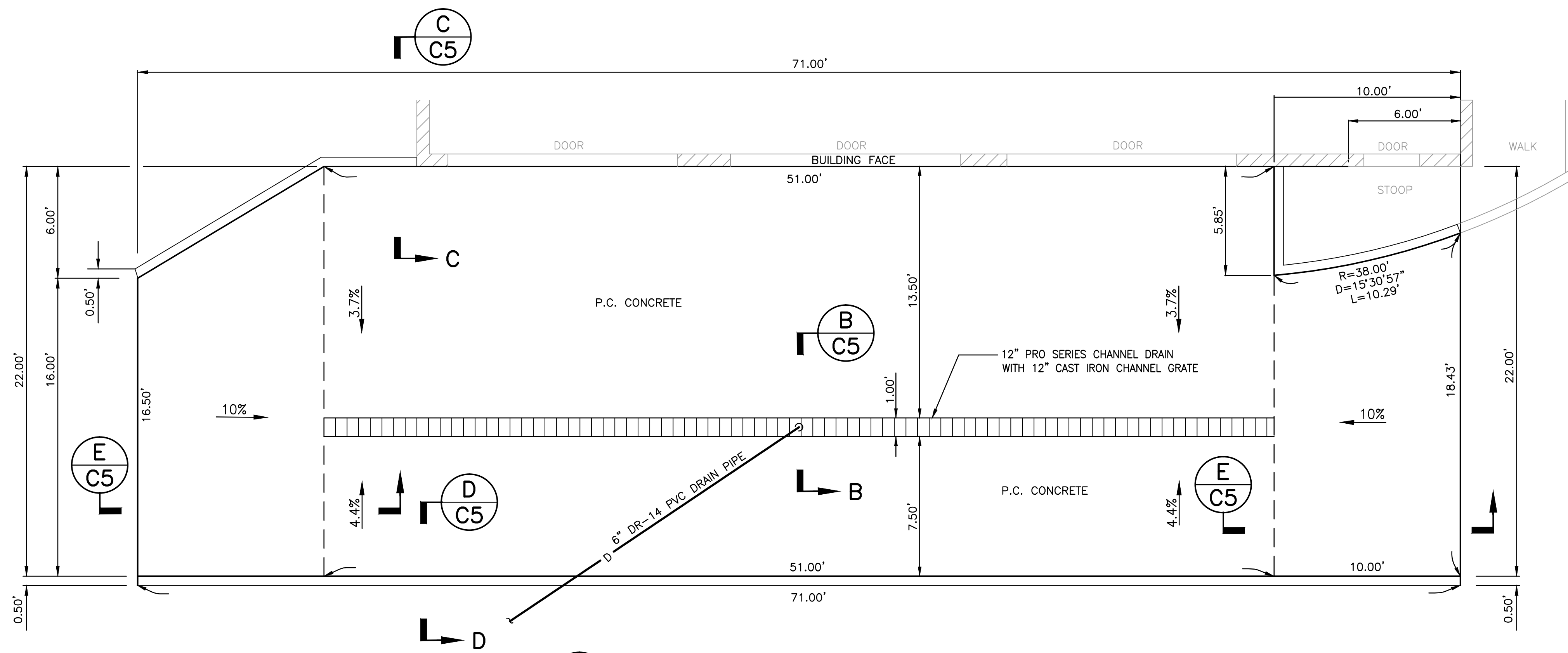
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**C5** SECTION  
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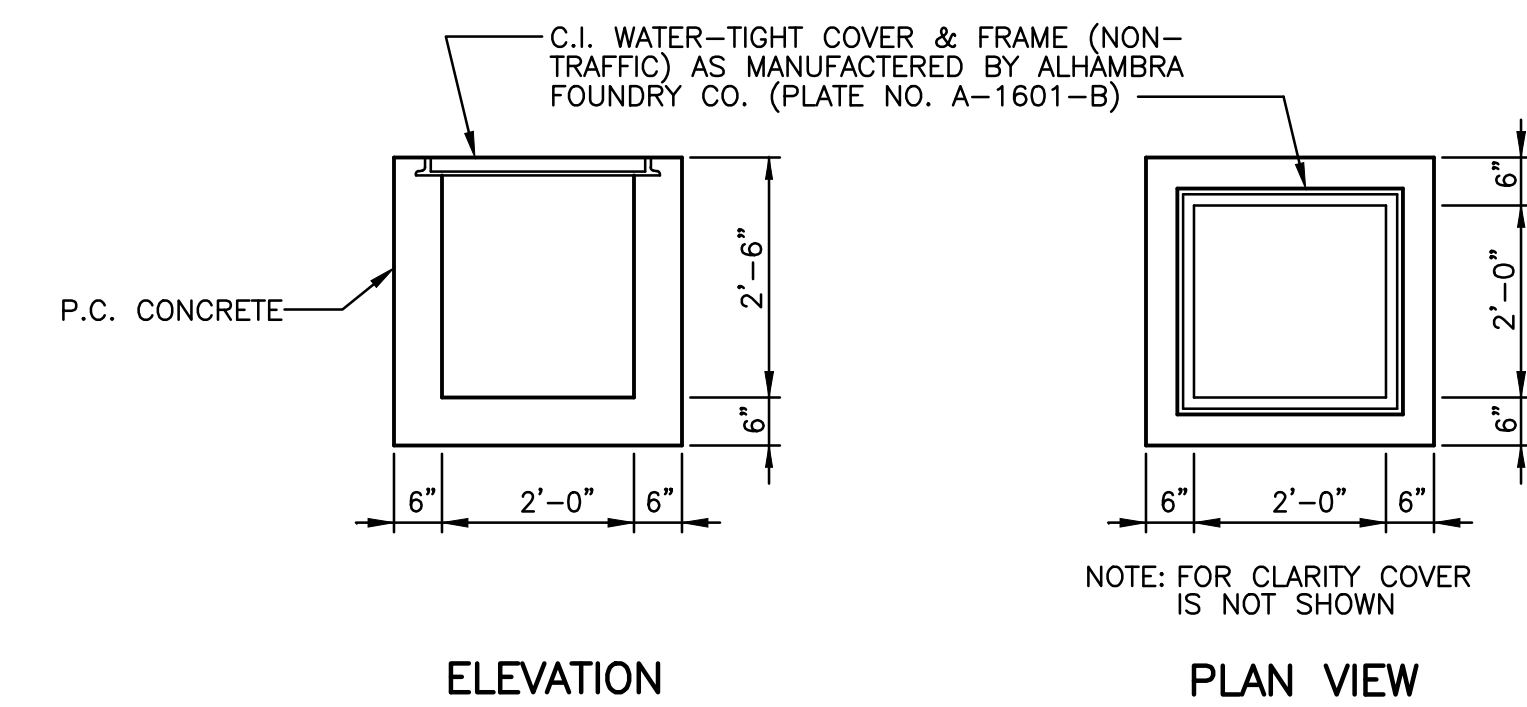
**D**  
**C5** SECTION  
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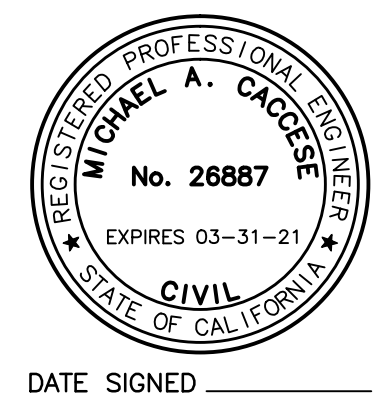
**E**  
**C5** SECTION  
SCALE: 1"=1'-0"



**1**  
**C5** CHEMICAL TRUCK OFF LOADING RACK DETAIL  
SCALE: 1"=4'



**F**  
**C5** WATERTIGHT STRUCTURE  
NO SCALE



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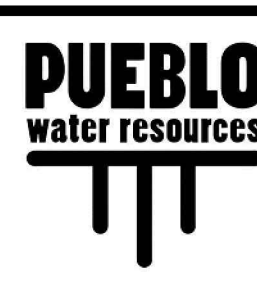
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VER. N/A

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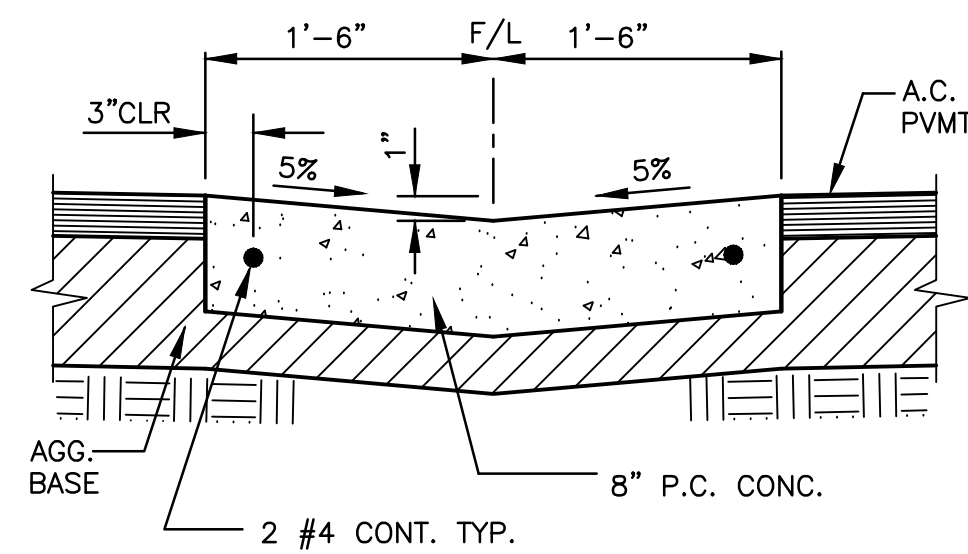
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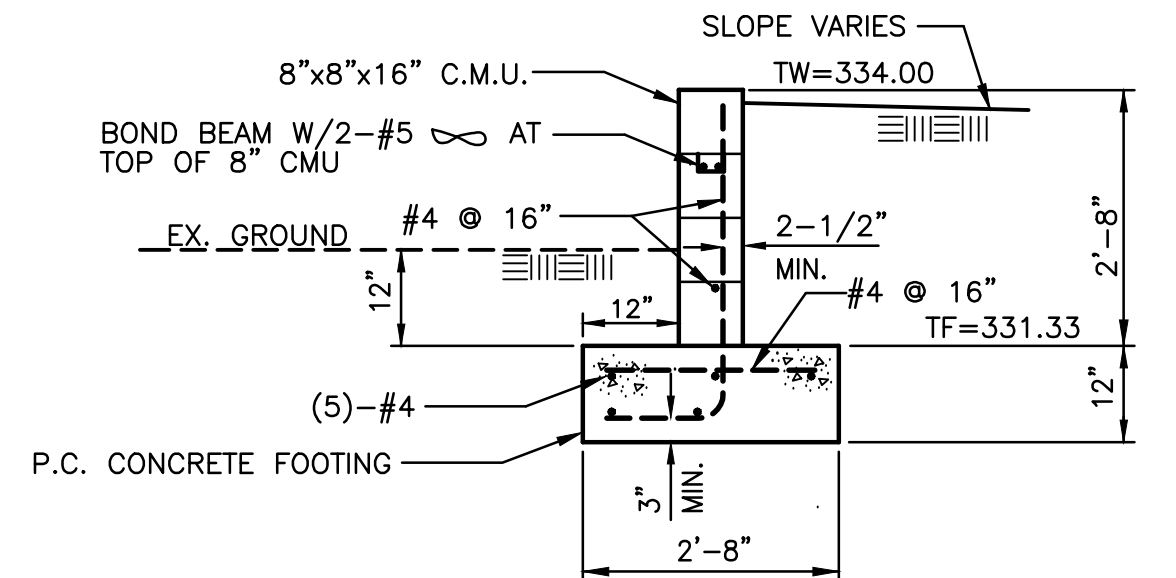
**Pueblo Water Resources**  
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(805) 644-0470

**CHEMICAL LOADING RACK DETAILS**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

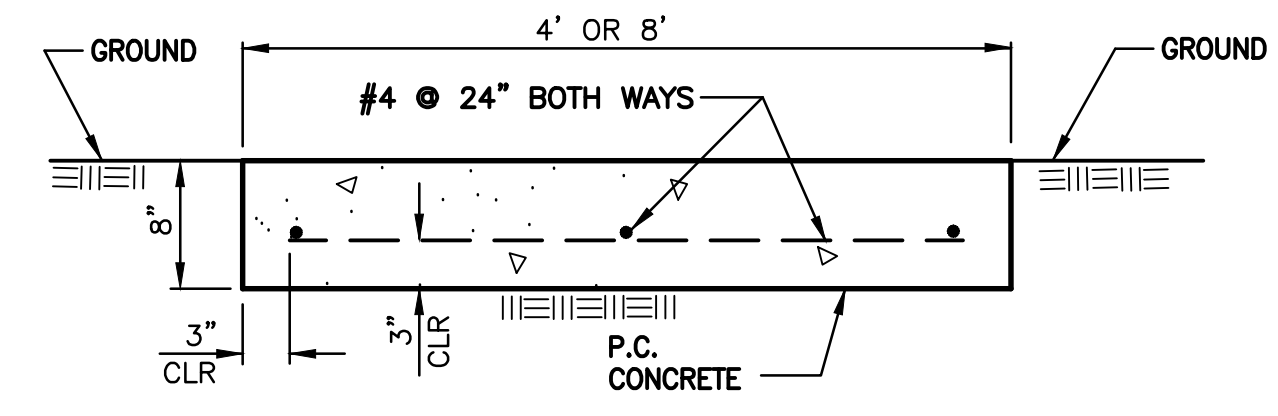
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**C5**



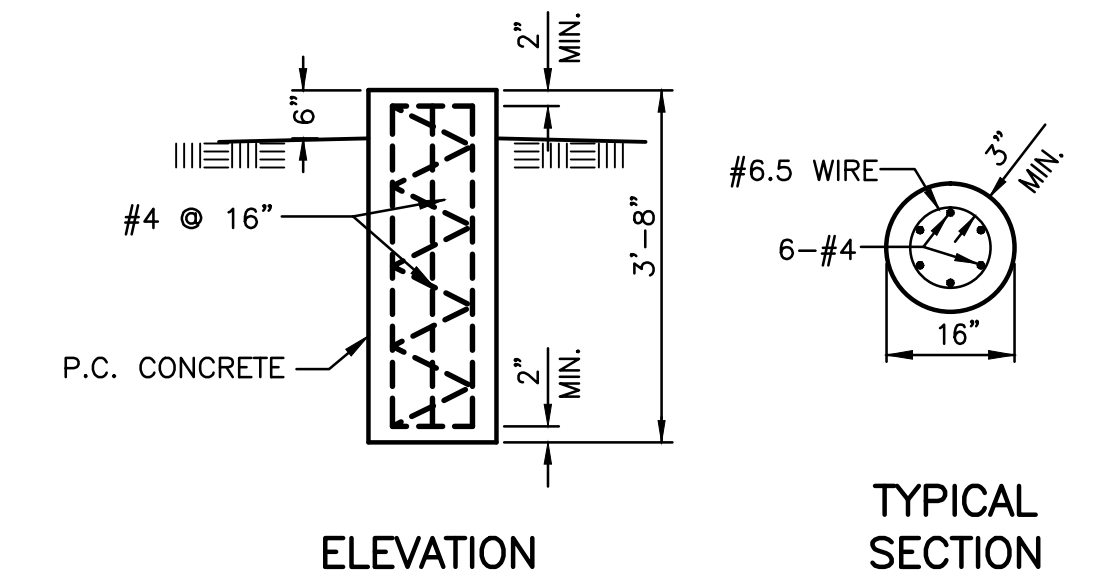
**4 CONCRETE RIBBON GUTTER**  
C6 NO SCALE



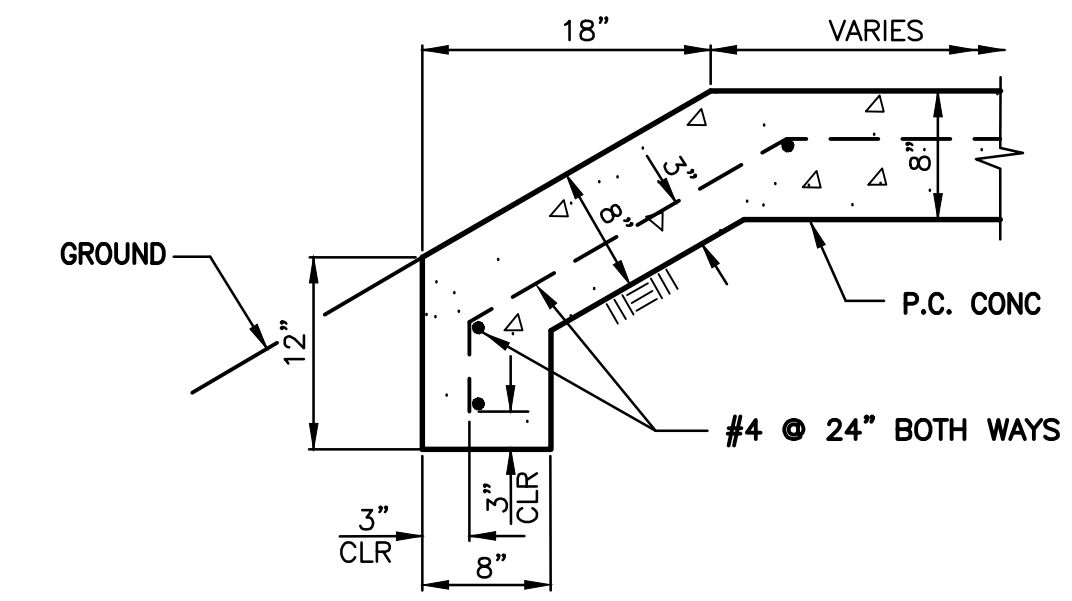
**5 RETAINING WALL DETAIL**  
C6 NO SCALE



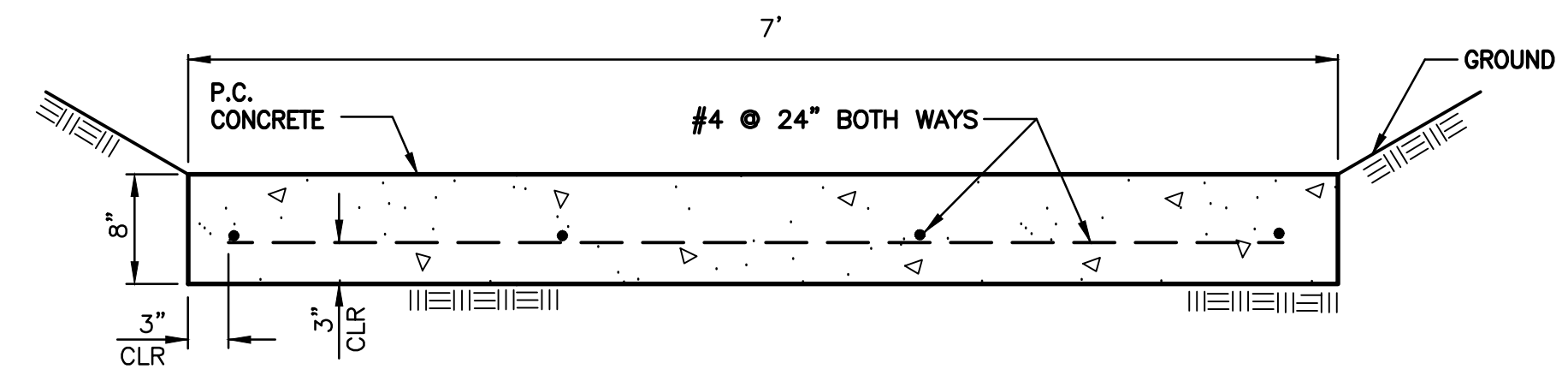
**6 4'X8' COMPRESSOR PAD**  
C6 SCALE: 1"=1'-0"



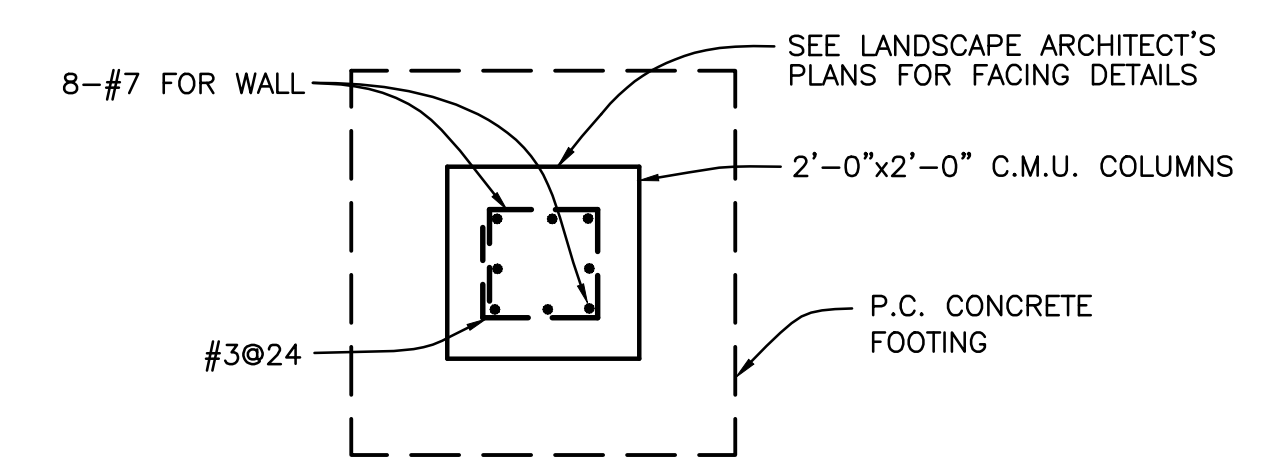
**7 LIGHT FOUNDATION**  
C6 NO SCALE



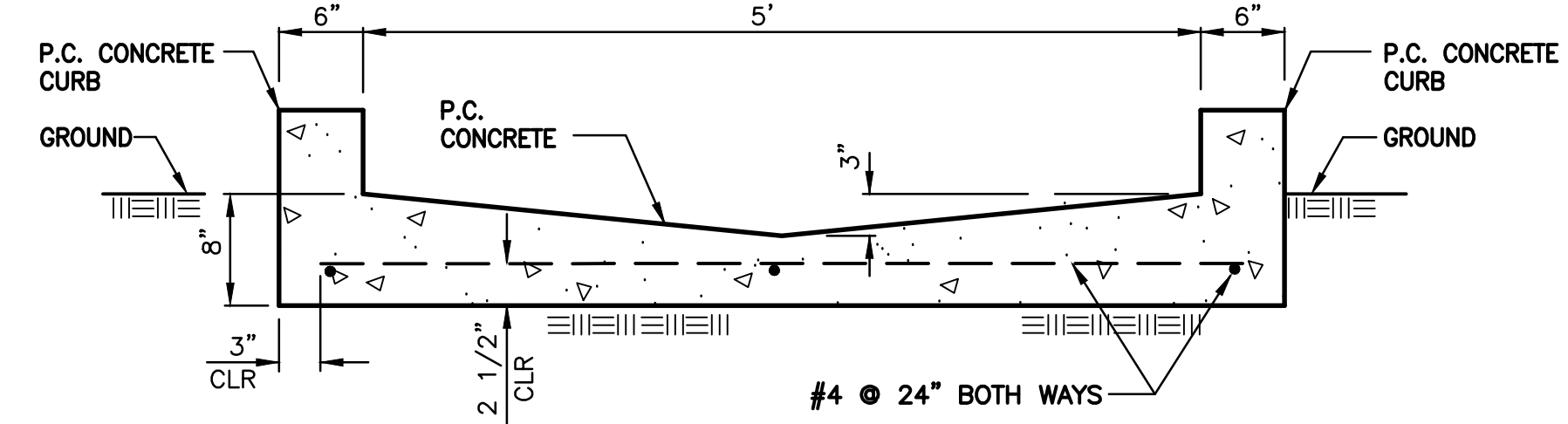
SECTION B-B



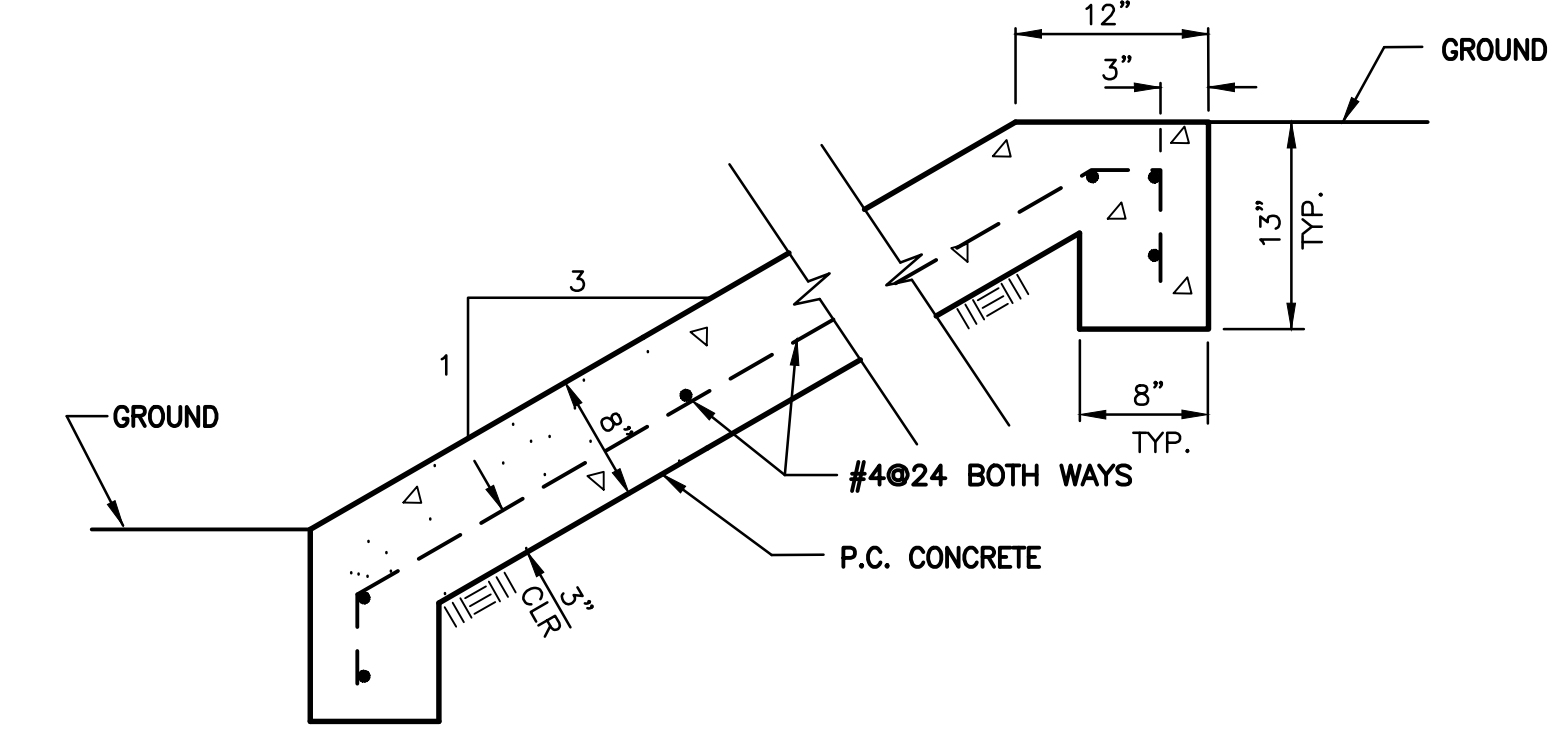
SECTION D-D



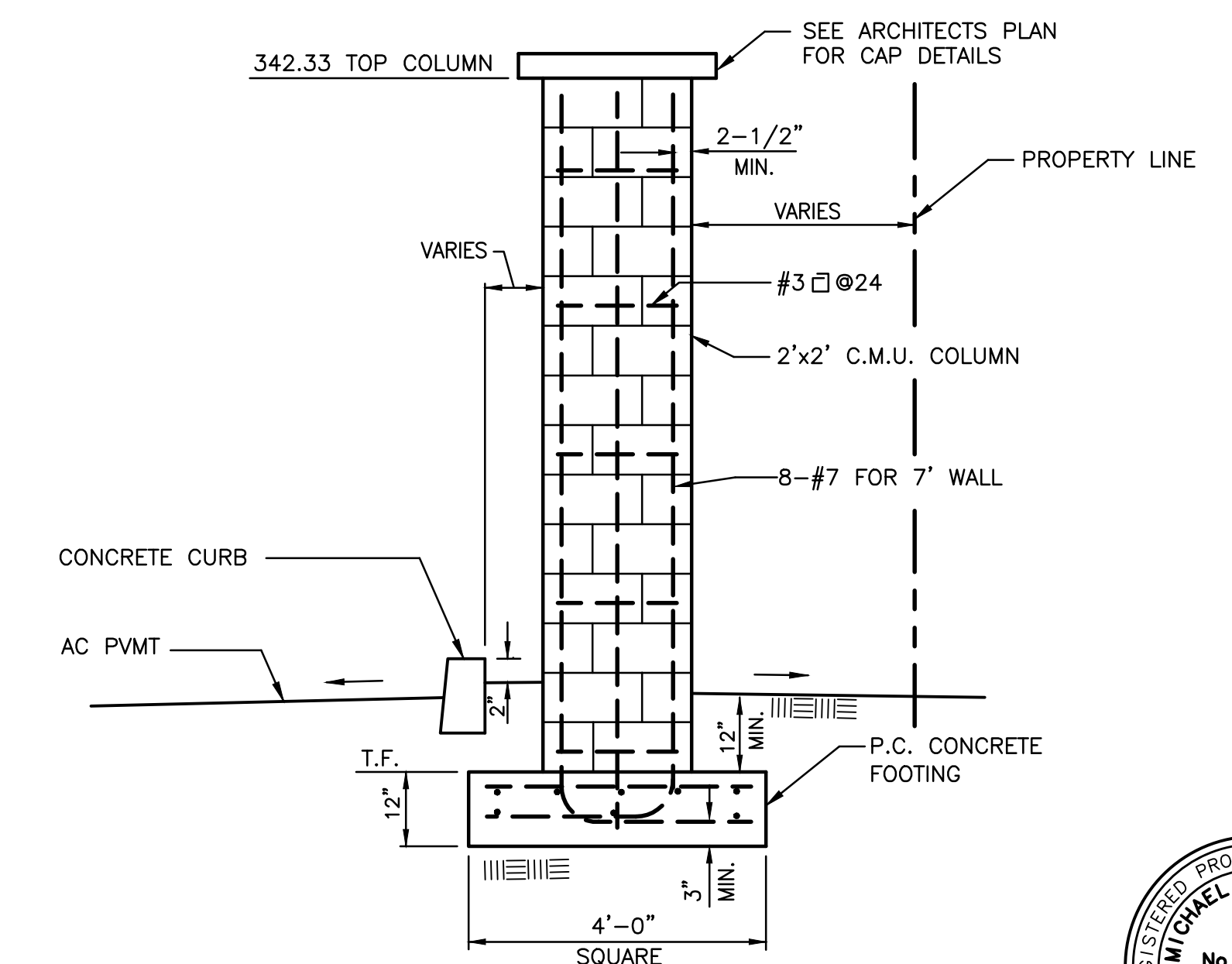
**COLUMN TYPICAL SECTION**  
SCALE: 1" = 2'-0"



SECTION A-A



SECTION C-C

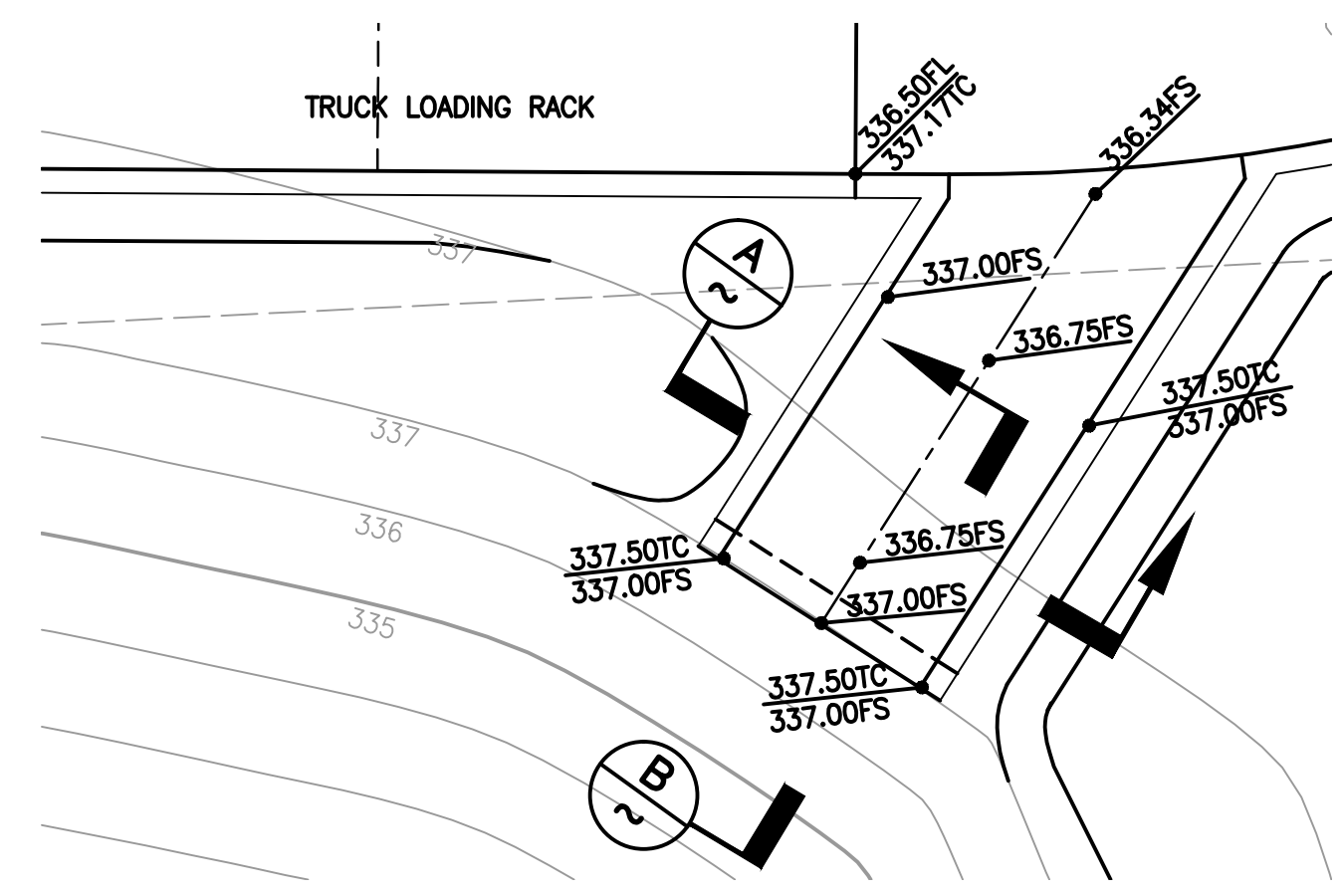


**3 COLUMN DETAIL**  
C6 SCALE: 1" = 2'-0"

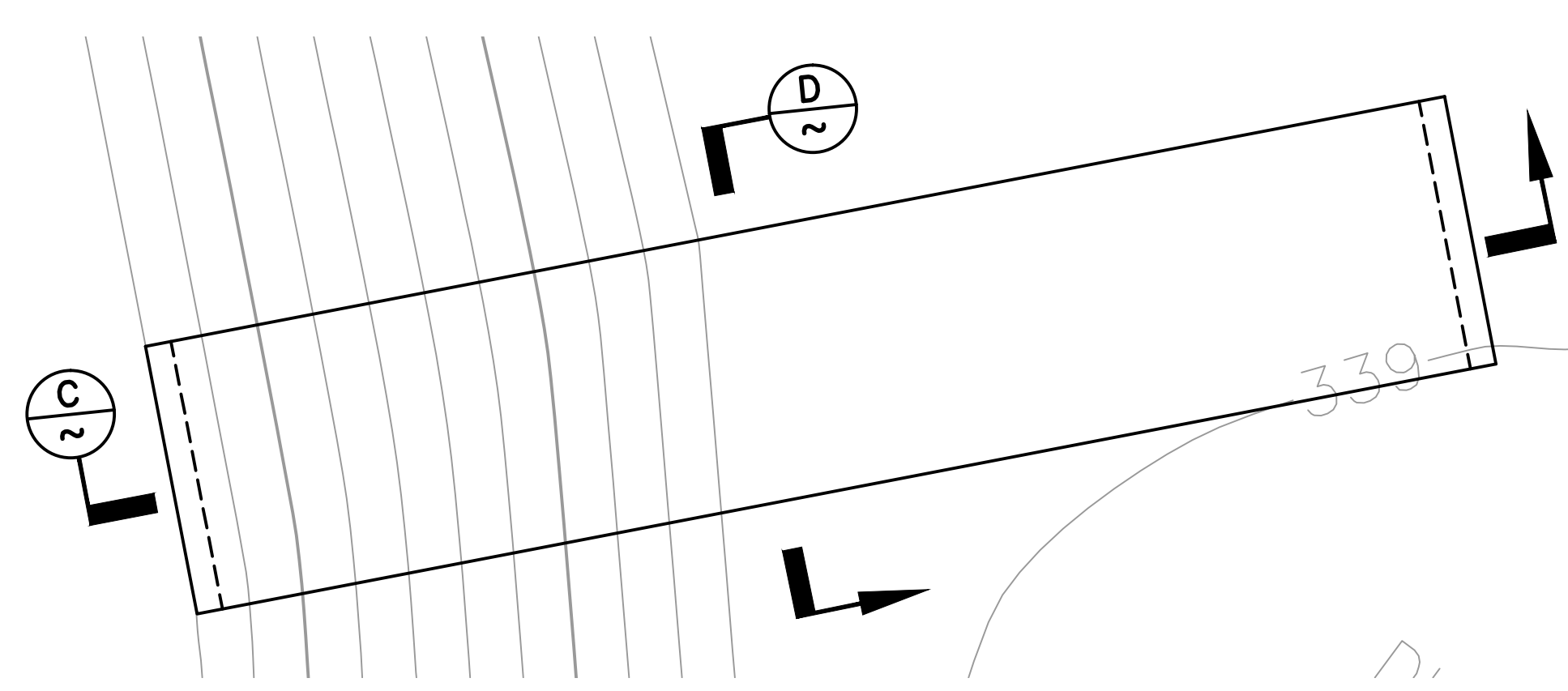
- NOTES:
- HORIZONTAL REINFORCEMENT FOR COLUMN IS NOT SHOWN. SEE COLUMN TYPICAL SECTION THIS SHEET FOR DETAILS
  - SEE ARCHITECTS PLAN FOR PLASTER COATING AND FINISH DETAILS



DATE SIGNED \_\_\_\_\_



**1 OVERLAND ESCAPE APRON DETAILS**  
C6 SCALE: 1"=4'-0"



**2 ACCESS RAMP DETAILS**  
C6 SCALE: 1"=4'-0"

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SCALE:  
HOR. N/A  
VER. N/A

WARNING  
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DESIGNED: MAC  
DRAWN: TLA/FH  
CHECKED: SPT

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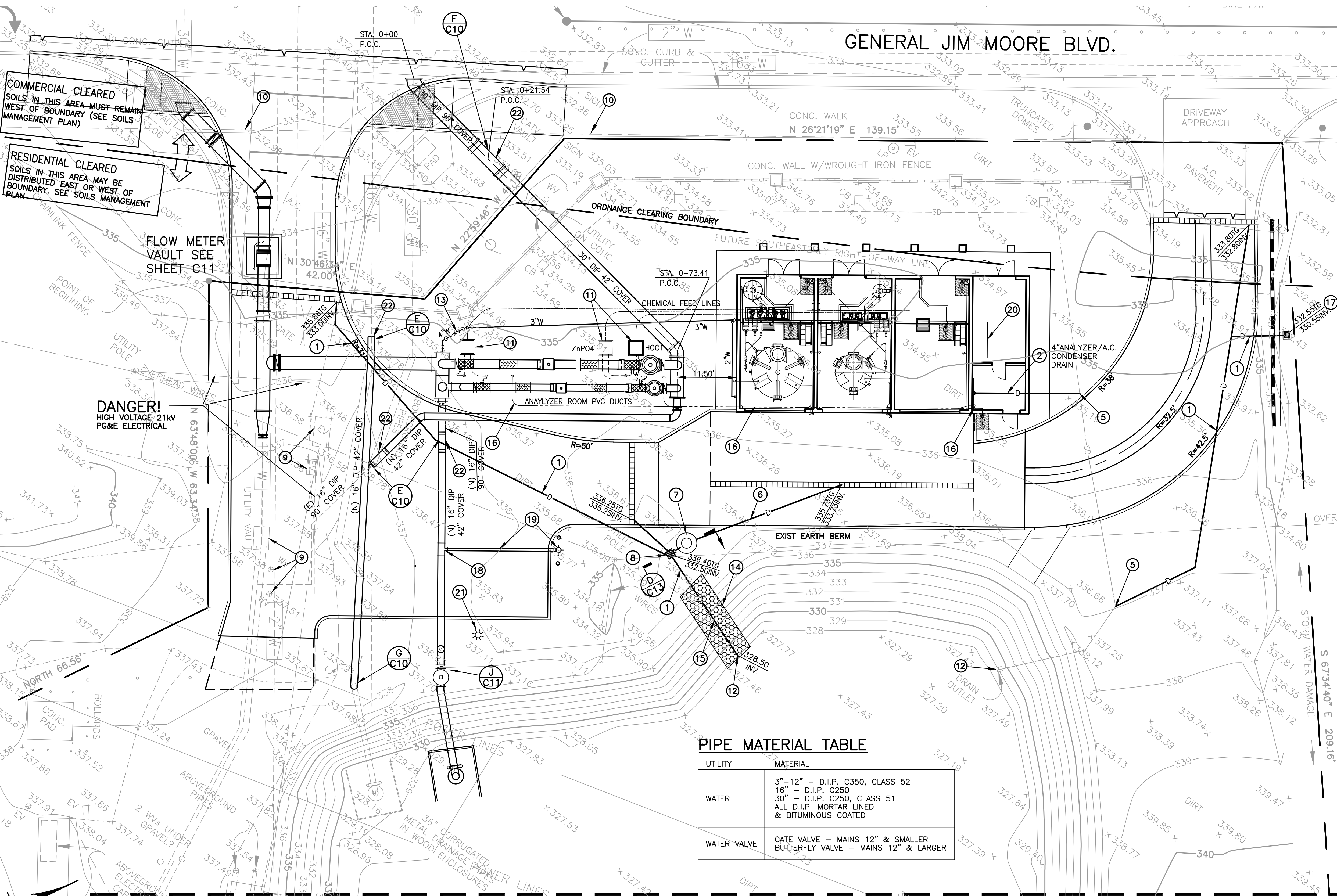
**SITE DETAILS**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451

**C6**

**CONSTRUCTION NOTES**

- 1 CONSTRUCT 8" TYPE S HDPE STORM DRAIN.
- 2 CONSTRUCT 4" TYPE S HDPE STORM DRAIN.
- 3 NOT USED
- 4 NOT USED
- 5 CONNECT 8" HDPE TO EXIST 8" HDPE. CONTRACTOR TO VERIFY EXIST DEPTH AND LOCATION OF EXIST 8" HDPE.
- 6 CONSTRUCT 6" TYPE S HDPE STORM DRAIN.
- 7 CONSTRUCT LOADING RACK SUMP 4' O.D. X 4' DEEP WITH 24" STANDARD MANHOLE COVER PER SECTION "D" SHEET C13
- 8 CONSTRUCT BROOKS PRODUCT CB-1818 18"x18" CATCH BASIN WITH GRATE (ADA COMPLIANT) OR APPROVED EQUAL BY THE OWNER.
- 9 ADJUST EXISTING UTILITY VALVES, VAULT LIDS, TO GRADE AS REQUIRED
- 10 EXIST FIBER OPTICS CABLE WITH CONCRETE CAP. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO WORK IN THIS AREA
- 11 INSTALL 30"x30"x30" DEEP CONCRETE JUNCTION VAULTS FOR CHEMICAL FEED DOUBLE CONTAINMENT LINES. USE ALHAMBRA A-1601B 24" WATER-TIGHT COVER AND FRAME, SEE DETAIL F SHEET C7. SLOPE PVC CONDUITS BACK TO CHEMICAL BUILDING @ MIN. 2% SLOPE. SEE DETAIL J SHEET M4
- 12 INSTALL 8" RED VALVE CO., TIDEFLEX TF-1 CHECK VALVE ON EXISTING HDPE OUTFALL LINE.
- 13 INSTALL 4" GATE VALVE, 4" REDUCED PRESSURE BACKFLOW PREVENTION AND RISER ASSEMBLY.
- 14 CONSTRUCT 6" WIDE GRASSCRETE SLOPE PROTECTION PER MANUFACTURERS RECOMMENDATIONS
- 15 CONSTRUCT 8" DR17 (PE 4710) HDPE FUSION JOINED STORM DRAIN PIPE. PIPE TO BE PLACED ON TOP OF GRASSCRETE SLOPE PROTECTION. SECURE PIPE WITH PLASTIC PIPE JOINT RESTRAINER ASSEMBLY PER CALTRANS STANDARD DETAIL D87B AT OUTLET AND MID SPAN.
- 16 CONSTRUCT 2 EACH 2 1/2" SCH 80 DUCTS WITH LONG SWEEP BENDS. INSTALL 2 EACH 0.25" I.D. X 0.35" O.D. PARAFLEX TUBING IN EACH DUCT, ROUTE FROM 16" AND 20" TO ANALYZER ROOM. MOUNT 2 1/2" DUCTS TO INSIDE WALL 24"-36" ABOVE SUB-FLOOR LEVEL.
- 17 CONSTRUCT 18"x18" LOW PROFILE ADAPTER (PART NO. 1830) WITH 18"x18" ATRIUM GRATE (PART NO. 1881) AND 8" UNIVERSAL LOCKING OUTLET (PART NO. 1888) AS MANUFACTURED BY NDS OR APPROVED EQUAL
- 18 CONSTRUCT 16"x16"x6" D.I.P. TEE FOR FIRE HYDRANT (MJ W/RESTRAINT)
- 19 CONSTRUCT 6" D.I.P. FIRE HYDRANT LATERAL WITH 42" COVER AND INSTALL STANDARD 2 1/2" X 4" FIRE HYDRANT PER CAL-AM STANDARD DETAILS
- 20 AIR COMPRESSOR IN ELECTRIC ROOM SEE SHEET C-11
- 21 LIGHT POLE SEE DETAIL 7 SHEET C6 FOR FOUNDATION, SEE ELECTRIC PLANS FOR ADDITIONAL DETAILS
- 22 TRANSITION FROM 90" COVER OVER TOP OF PIPE TO 42" COVER OVER TOP OF PIPE

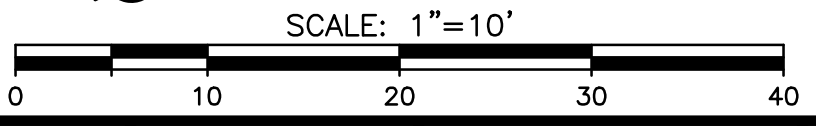


**PIPE MATERIAL TABLE**

UTILITY	MATERIAL
WATER	3"-12" - D.I.P. C350, CLASS 52 16" - D.I.P. C250 30" - D.I.P. C250, CLASS 51 ALL D.I.P. MORTAR LINED & BITUMINOUS COATED
WATER VALVE	GATE VALVE - MAINS 12" & SMALLER BUTTERFLY VALVE - MAINS 12" & LARGER



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SCALE:  
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WARNING  
0 1/2 1  
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DESIGNED STP  
DRAWN TLA/FH  
CHECKED SPT

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**UTILITY AND PIPING PLAN**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451  
**C7**

MATCH LINE - SEE SHEET C8

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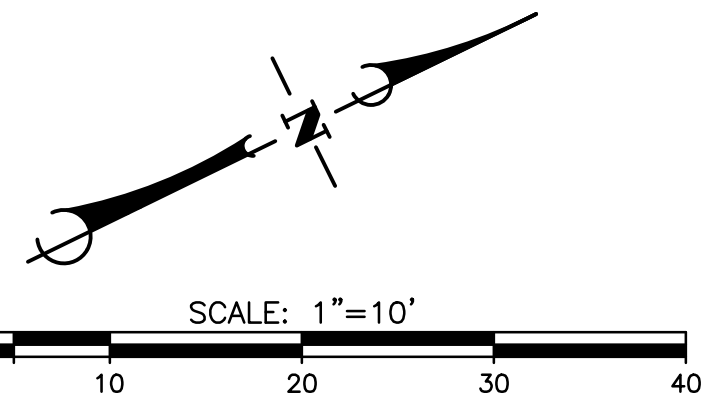
MATCH LINE - SEE SHEET C7

**CONSTRUCTION NOTES**

- ① CONSTRUCT 8" TYPE S HDPE STORM DRAIN.
- ② CONSTRUCT 4" TYPE S HDPE STORM DRAIN.
- ③ CONSTRUCT BROOKS PRODUCT CB-1212 12"x12" CATCH BASIN WITH GRATE (ADA COMPLIANT) OR APPROVED EQUAL BY THE OWNER.
- ④ CONNECT DOWNSPOUT TO SITE STORM DRAIN SYSTEM WITH 4" P.V.C. PIPE.
- ⑤ CONSTRUCT 6' WIDE GRASSCRETE SLOPE PROTECTION PER MANUFACTURERS RECOMMENDATIONS
- ⑥ CONSTRUCT 8" DR17 (PE 4710) HDPE FUSION JOINED STORM DRAIN PIPE. PIPE TO BE PLACED ON TOP OF GRASSCRETE SLOPE PROTECTION. SECURE PIPE WITH PLASTIC PIPE JOINT RESTRAINER ASSEMBLY PER CALTRANS STANDARD DETAIL D87B AT OUTLET AND MID SPAN.



DATE SIGNED \_\_\_\_\_



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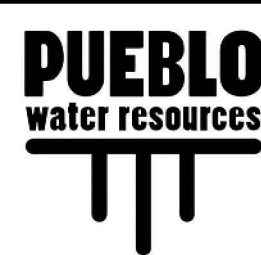
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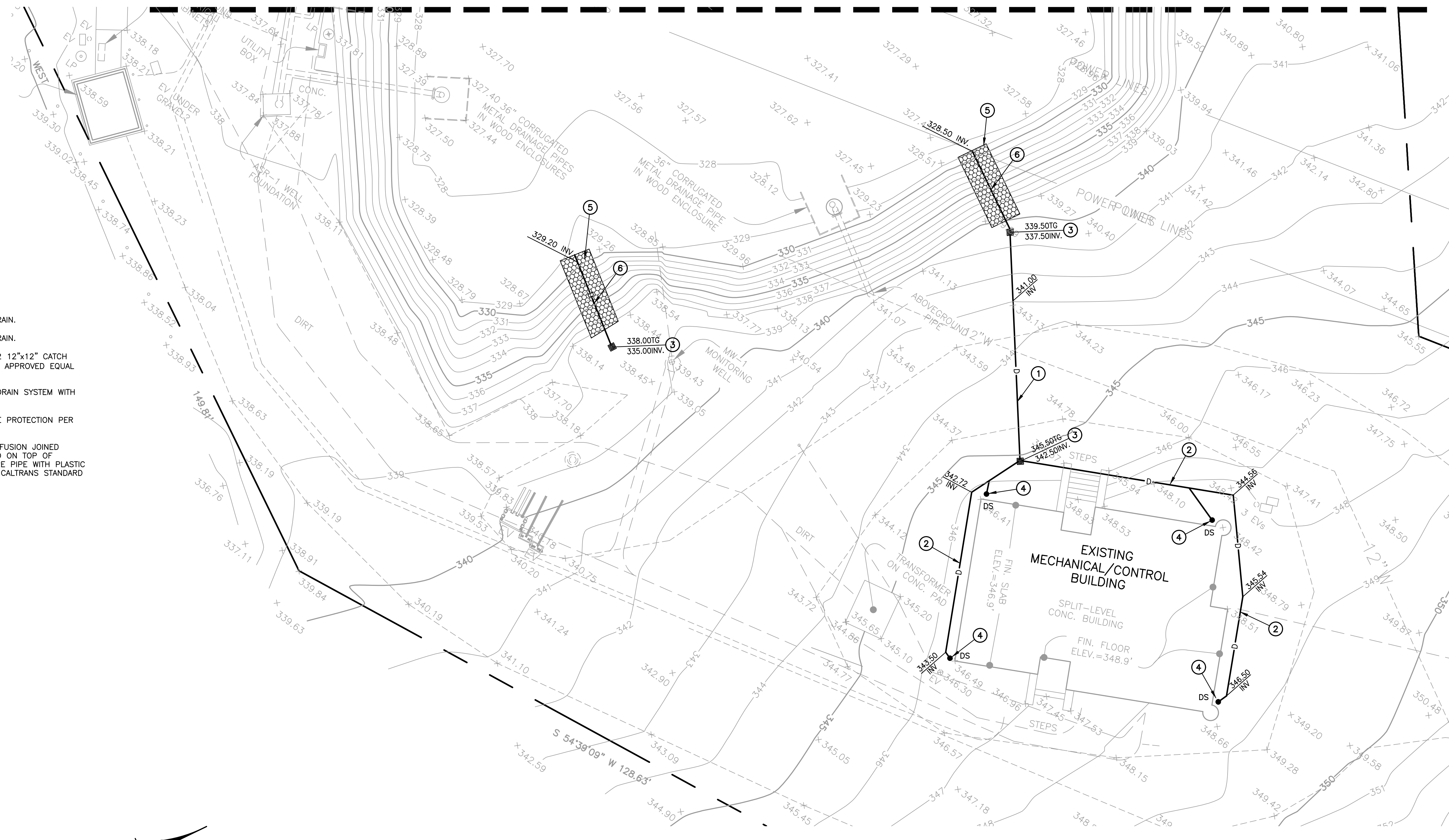
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1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO.  
W.O. 0451  
**C8**

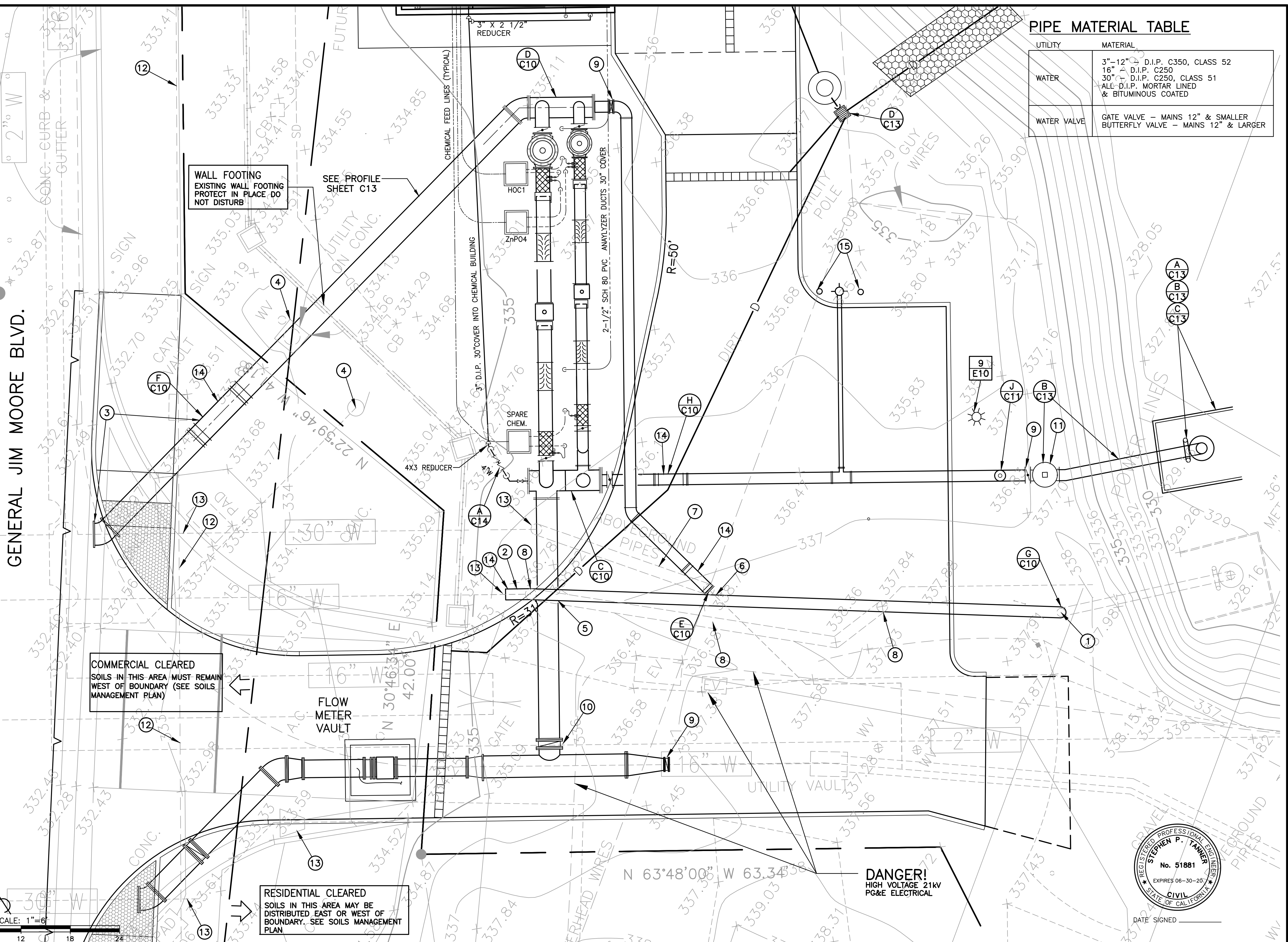


**CONSTRUCTION NOTES**

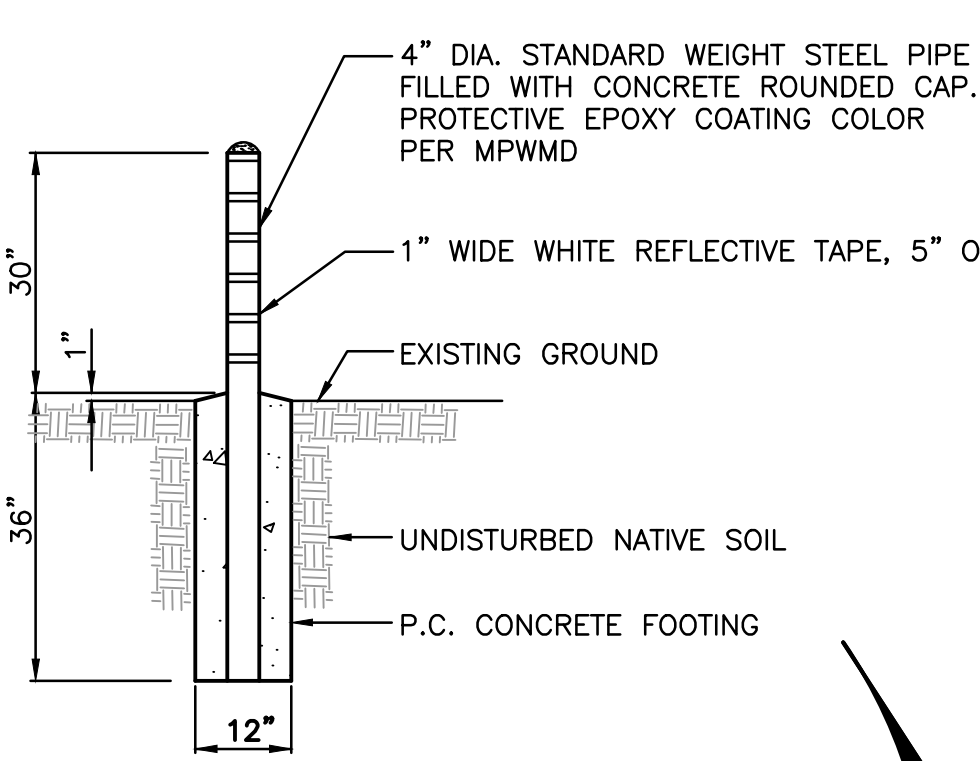
- 1 CONNECT (N) 16" DIP OSW LINE TO (E) 16" DIP OSW LINE AT 42" BG WITH RESTRAINED 90° BEND (MJ). CUT, CAP, AND ABANDON E 16" DIP OLD LINE IN PLACE. PER DETAIL G SHEET C10
- 2 CONNECT (N) 16" DIP OSW LINE TO (E) 16" DIP OSW LINE AND TRANSITION FROM 90° BG TO 42" BG WITH TWO RESTRAINED 45° BENDS (VERT.). CUT, CAP, AND ABANDON (E) 16" DIP OSW IN PLACE. PER DETAIL E SHEET C10
- 3 CONNECT (N) 30" DIP RW LINE TO (E) 30" DIP RW LINE WITH RESTRAINED 45° BEND (MJ) AND TRANSITION FROM 90° BG TO 42" BG WITH TWO RESTRAINED 45° BENDS (MJ) (3 TOTAL). CUT, CAP, AND ABANDON (E) 30" DIP RW LINE IN PLACE. SEE DETAIL C AND F SHEET C10
- 4 RELOCATE (E) AIR VAC ASSY AS NEEDED. CONTRACTOR VERIFY
- 5 (N) 16" DIP OSW W/42" COVER OVER (N) 30" DIP TW LINE (90° COVER)
- 6 (N) 16" OSW W/42" COVER OVER (E) 16" DIP RW LINE.
- 7 CONNECT (N) 16" DIP RW TO (E) 16" DIP RW LINE. REMOVE (E) 16" DIP RISER ASSY AND ASSOCIATED HDPE PIPING.
- 8 CUT, CAP, AND REMOVE (E) 16" DIP RISER ASSY AND ASSOCIATED 18" HDPE PIPING
- 9 16" BUTTERFLY VALVE, FLANGE
- 10 30" BUTTERFLY VALVE, FLANGE
- 11 16" PRESSURE RELIEF VALVE W/SOLENOID OVERRIDE, CLAVAL 50-03 SEE DETAIL J" SHEET C11
- 12 EXIST FIBER OPTIC CABLE WITH CONCRETE CAP. CONTRACTOR TO VERIFY LOCATION AND DEPTH PRIOR TO WORK IN THIS AREA
- 13 CUT CAP AND INSTALL CONCRETE BLOCK OVER ALL ABANDONED IN PLACE LINES SEE DETAIL "H" SHEET C10
- 14 TRANSITION FROM 90" COVER OVER TOP OF PIPE TO 42" COVER OVER TOP OF PIPE. DEPTHS ARE APPROXIMATE.
- 15 CONSTRUCT BOLLARD PER DETAIL G THIS SHEET

**PIPE MATERIAL TABLE**

UTILITY	MATERIAL
WATER	3"-12" D.I.P. C350, CLASS 52 16" D.I.P. C250 30" D.I.P. C250, CLASS 51 ALL D.I.P. MORTAR LINED & BITUMINOUS COATED
WATER VALVE	GATE VALVE - MAINS 12" & SMALLER BUTTERFLY VALVE - MAINS 12" & LARGER



GENERAL JIM MOORE BLVD.



**G BOLLARD DETAIL**  
C9

COMMERCIAL CLEARED SOILS IN THIS AREA MUST REMAIN WEST OF BOUNDARY (SEE SOILS MANAGEMENT PLAN)

FLOW METER VAULT

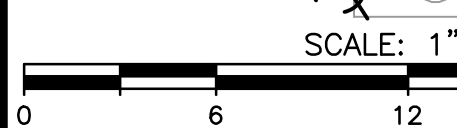
RESIDENTIAL CLEARED SOILS IN THIS AREA MAY BE DISTRIBUTED EAST OR WEST OF BOUNDARY. SEE SOILS MANAGEMENT PLAN

**DANGER!**  
HIGH VOLTAGE 21kV  
PG&E ELECTRICAL



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SCALE:  
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VER. N/A

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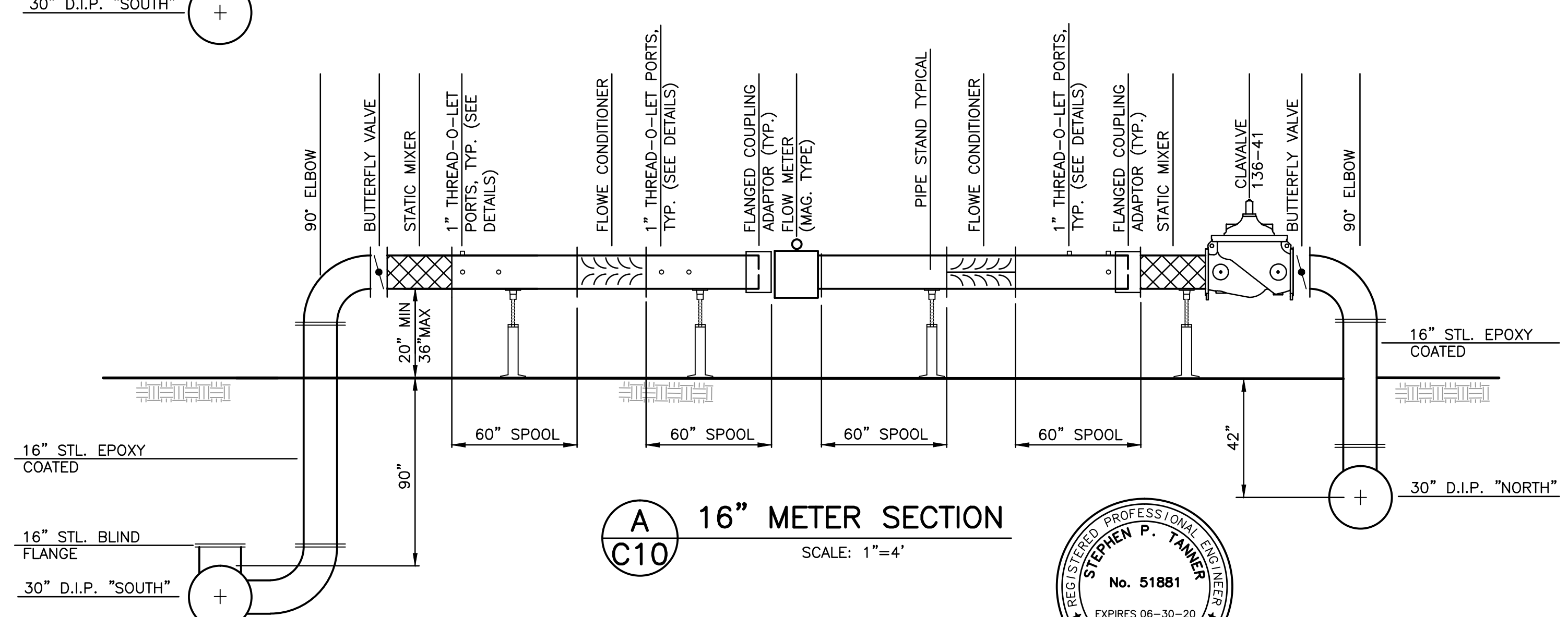
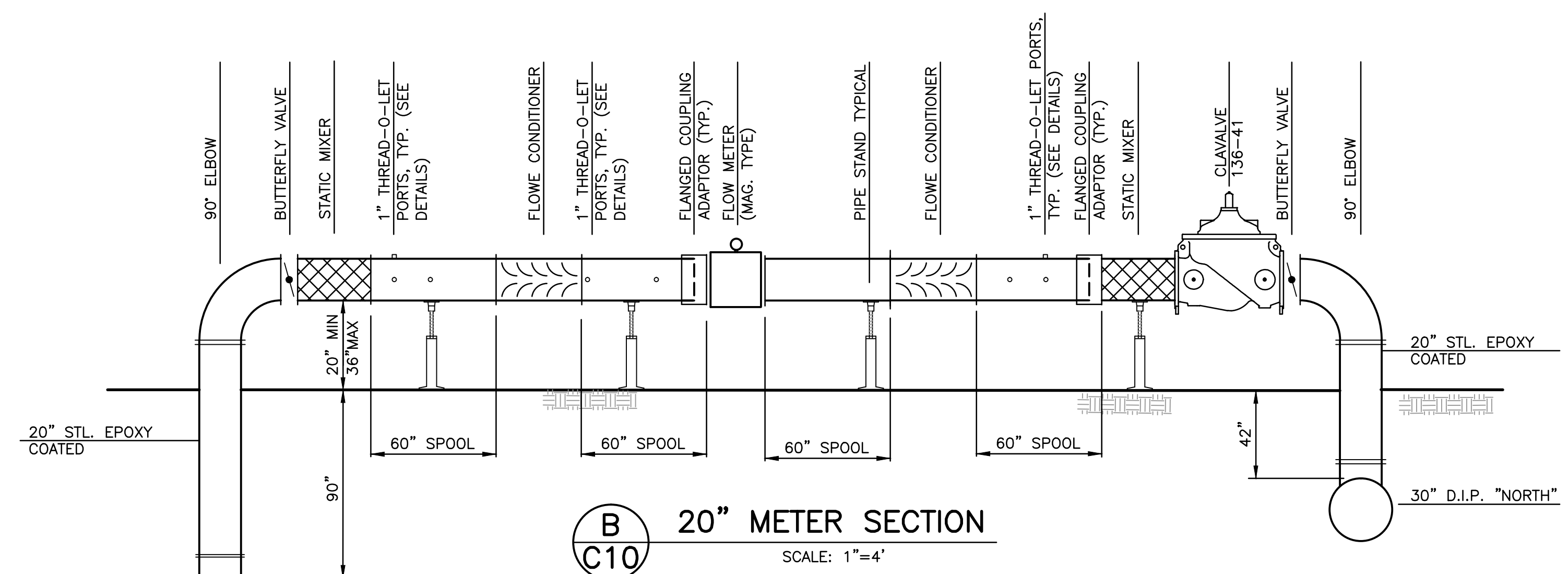
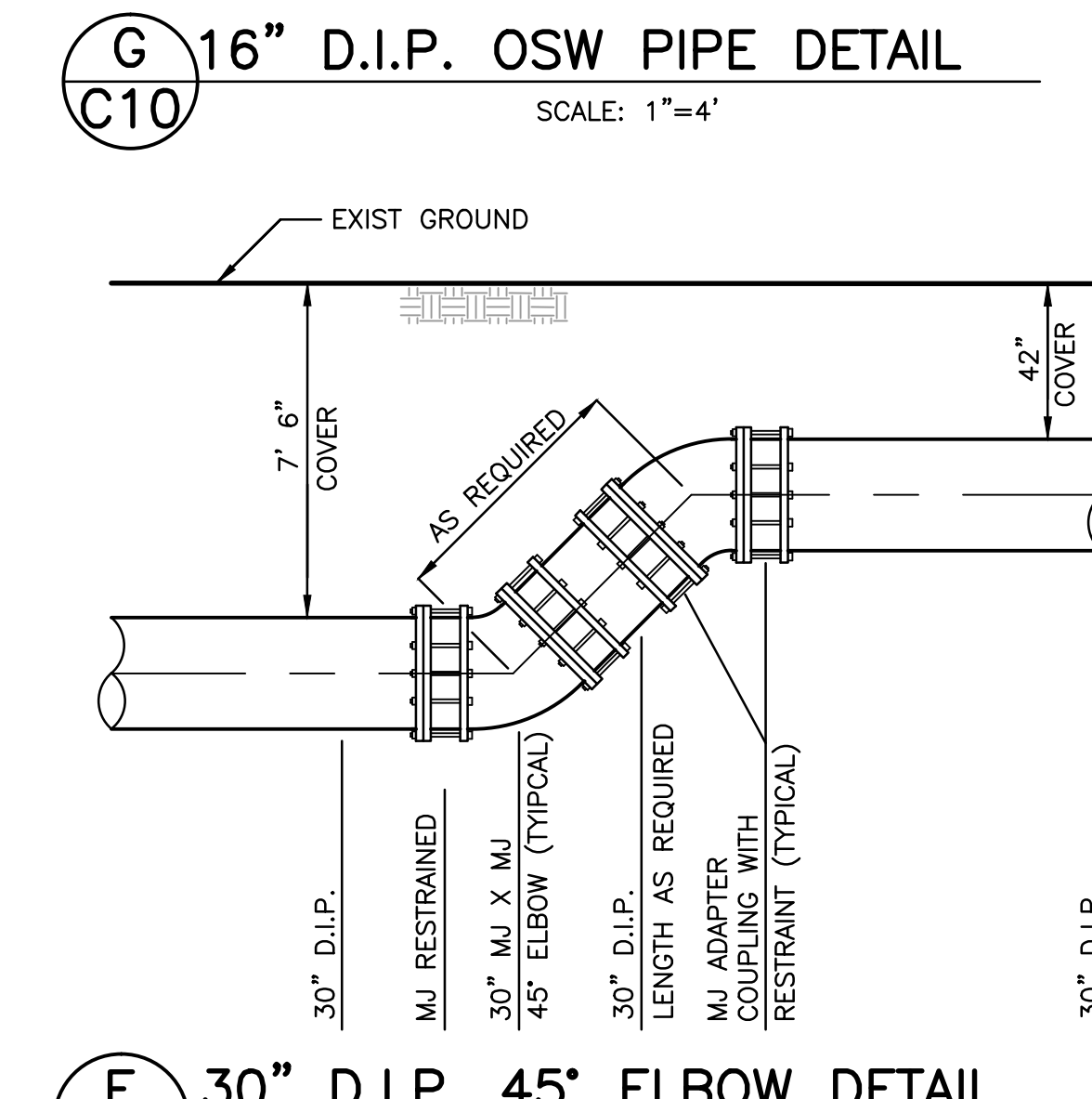
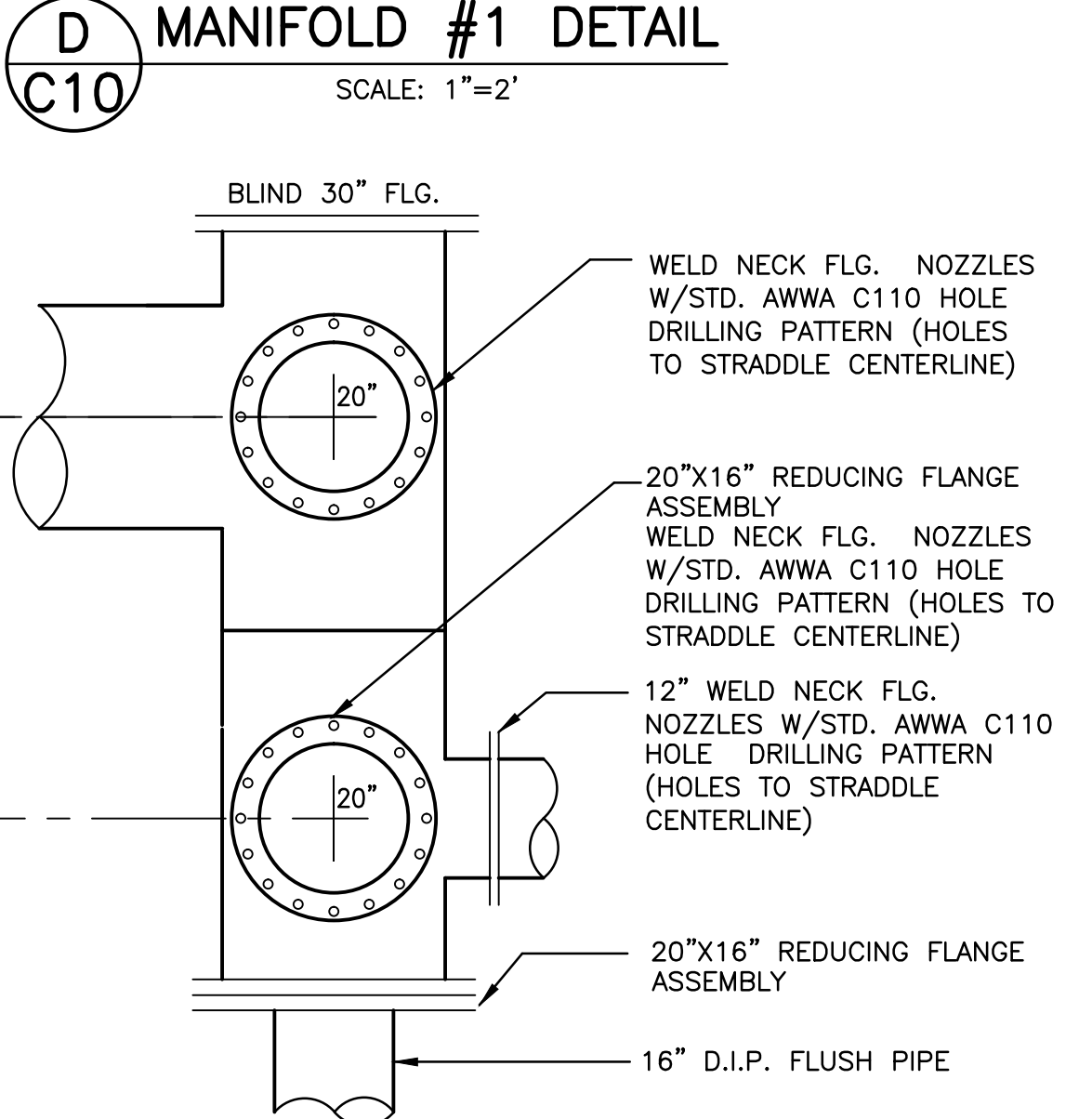
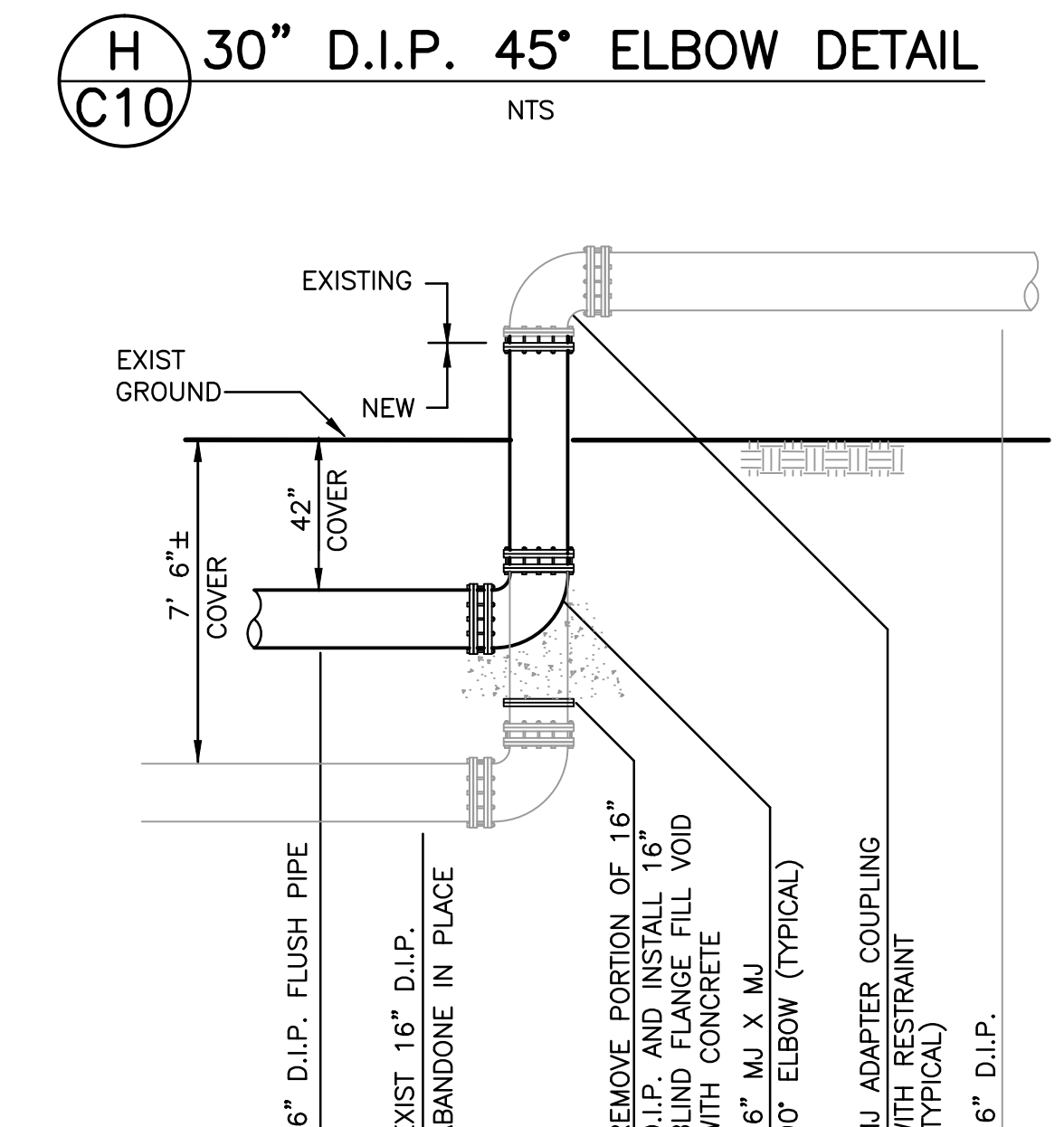
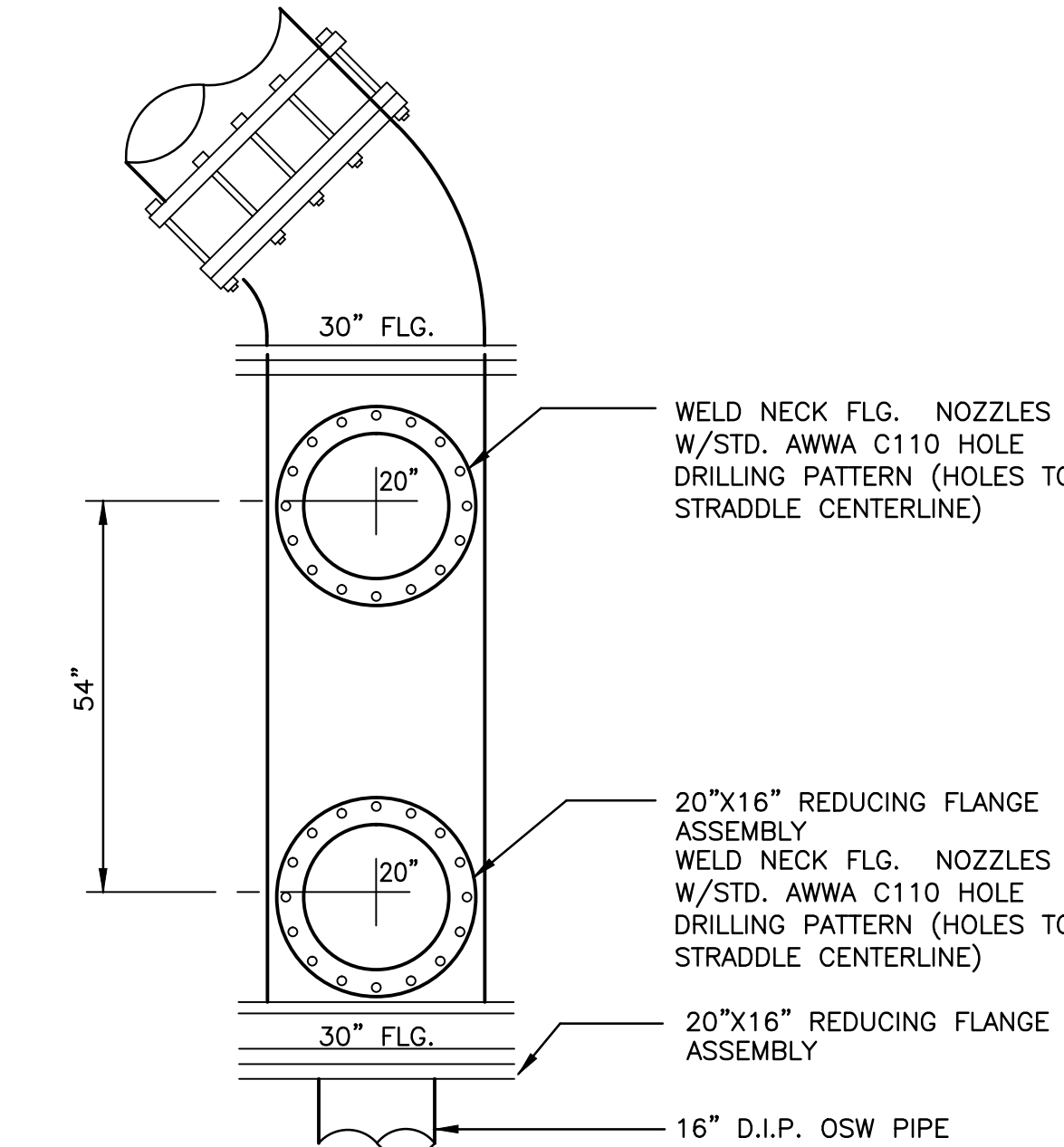
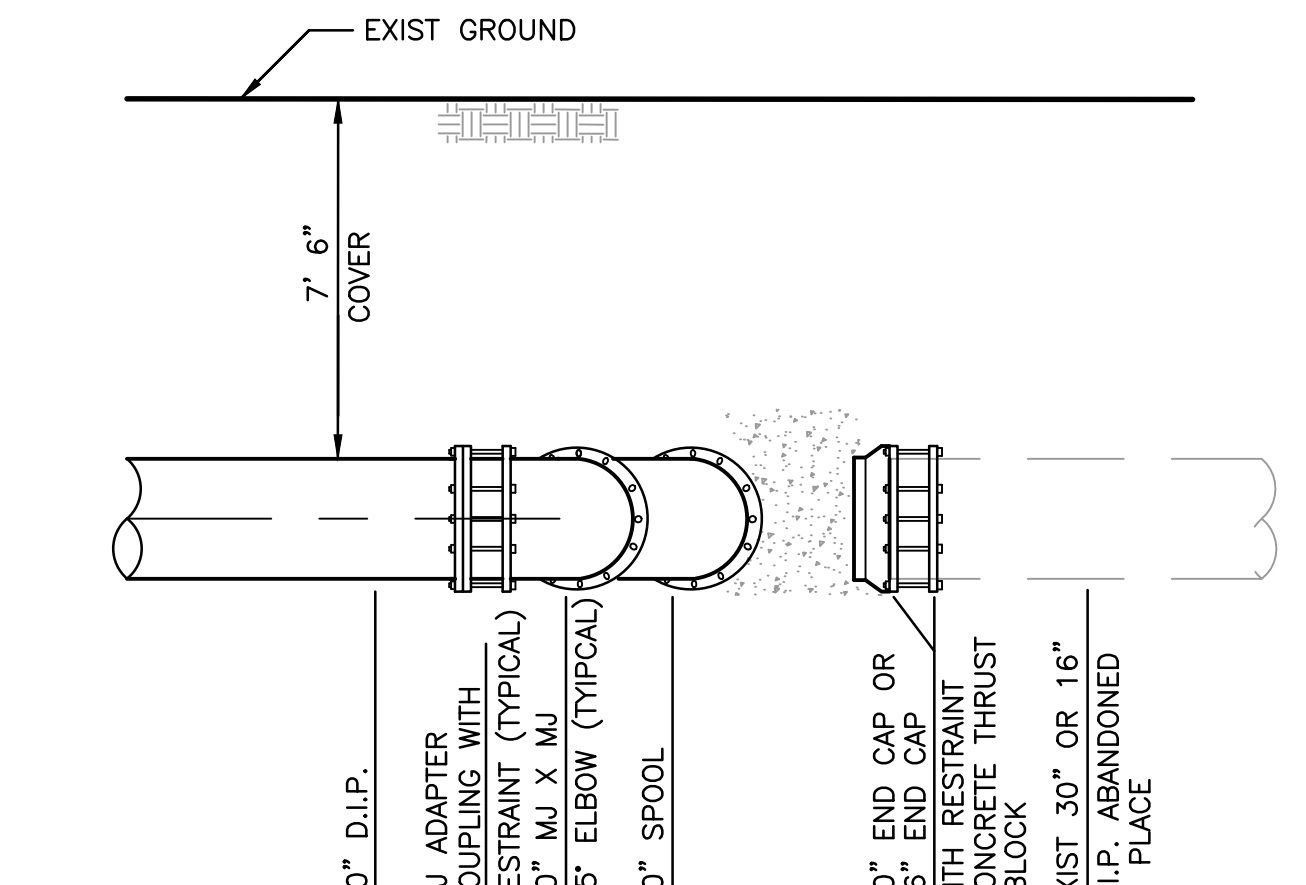
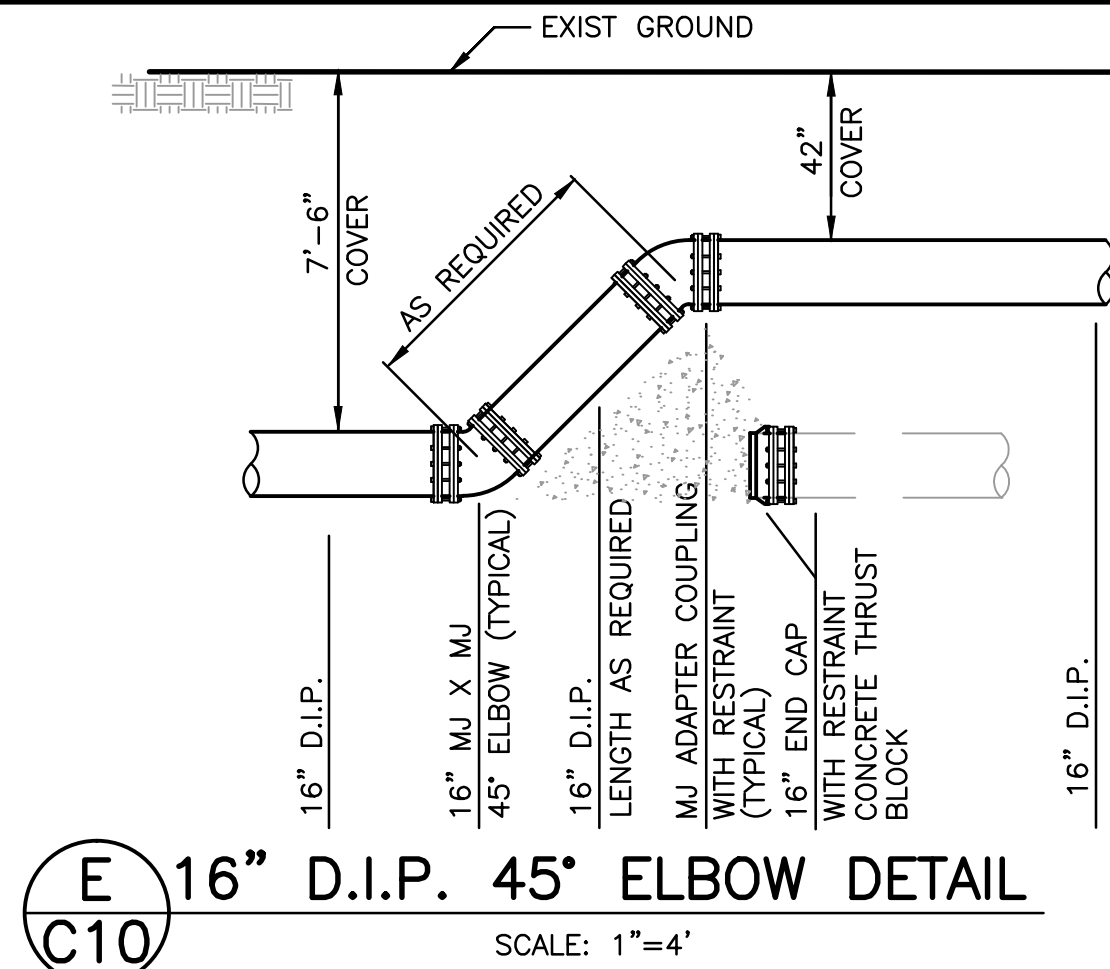
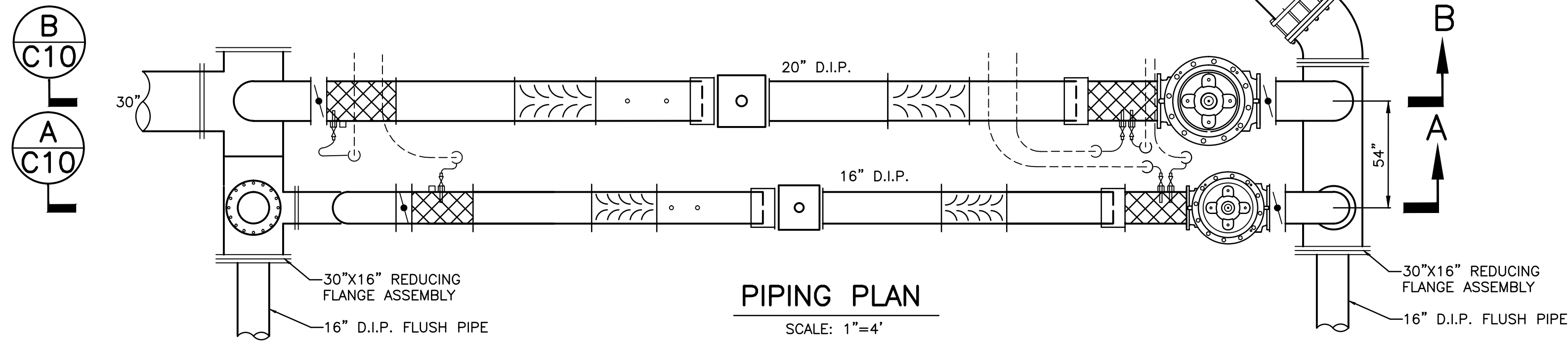
**MAC Design Associates**  
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1933 CLIFF DRIVE, SUITE 6, SANTA BARBARA, CALIF. 93109 (805) 957-4748



**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**16" & 30" TRANSMISSION LINE MODIFICATIONS**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451  
**C9**



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**PIPING DETAILS**  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451  
**C10**

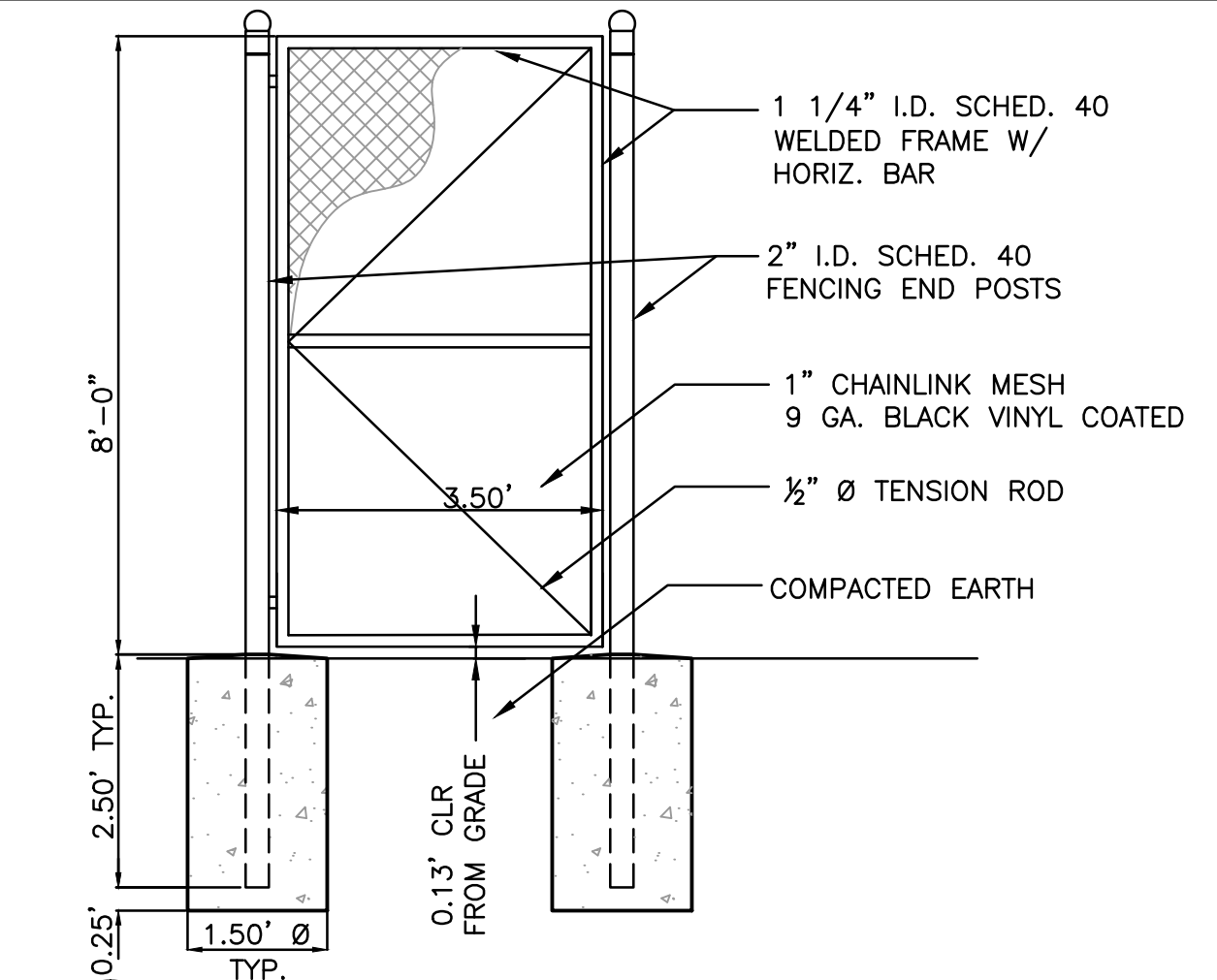
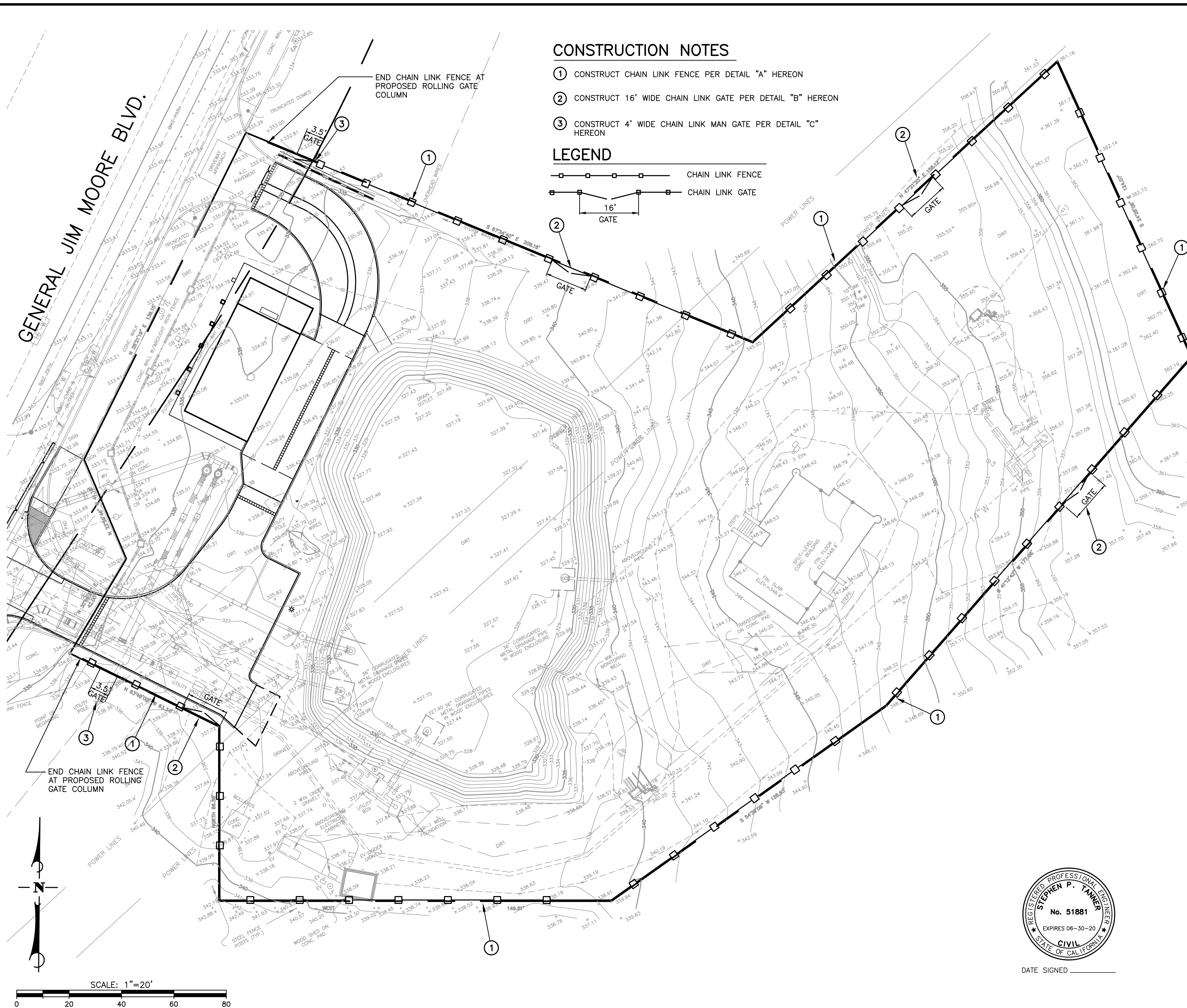
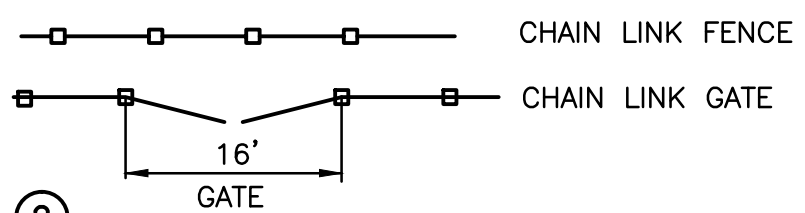




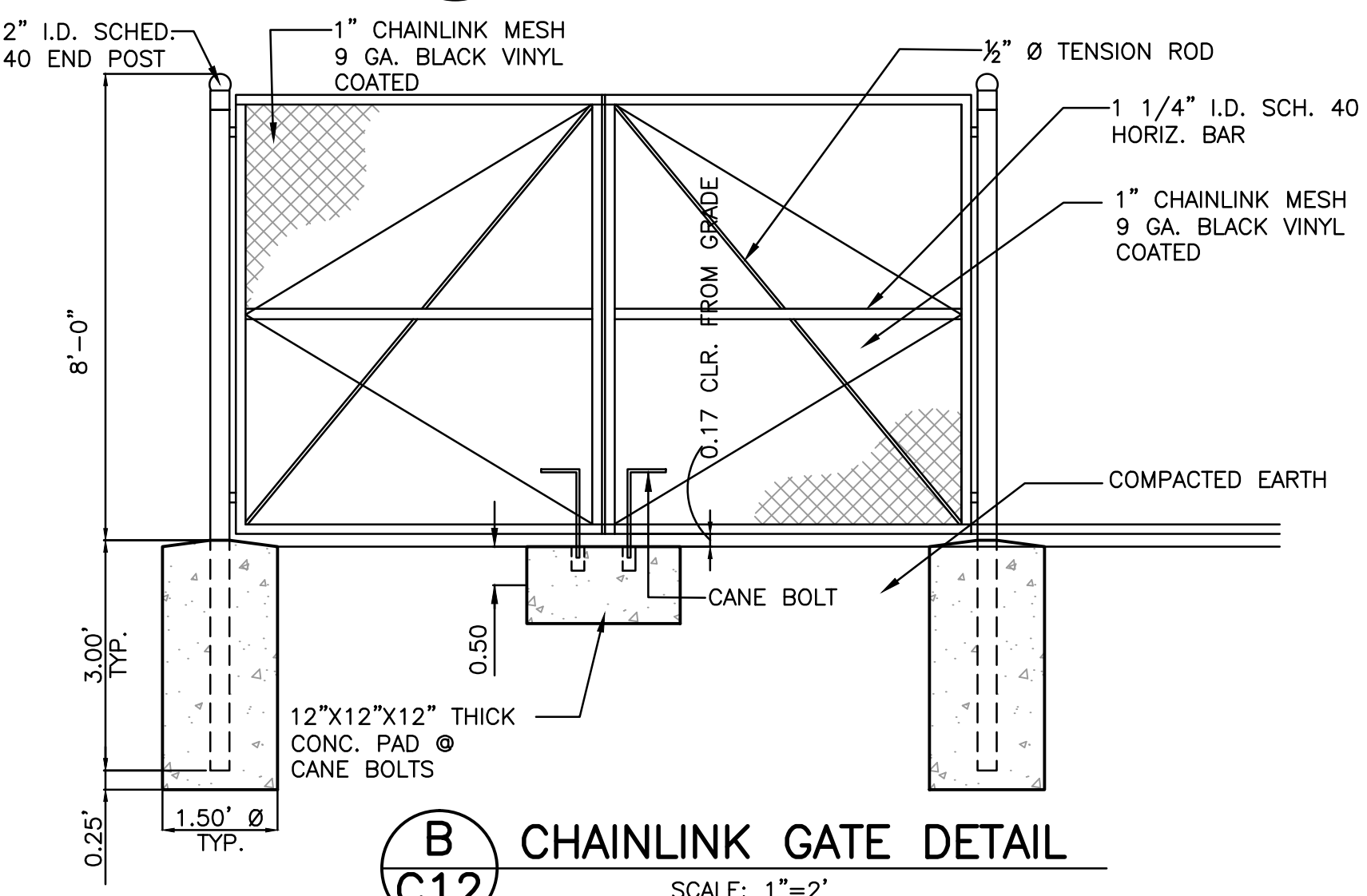
**CONSTRUCTION NOTES**

- ① CONSTRUCT CHAIN LINK FENCE PER DETAIL "A" HEREON
- ② CONSTRUCT 16' WIDE CHAIN LINK GATE PER DETAIL "B" HEREON
- ③ CONSTRUCT 4' WIDE CHAIN LINK MAN GATE PER DETAIL "C" HEREON

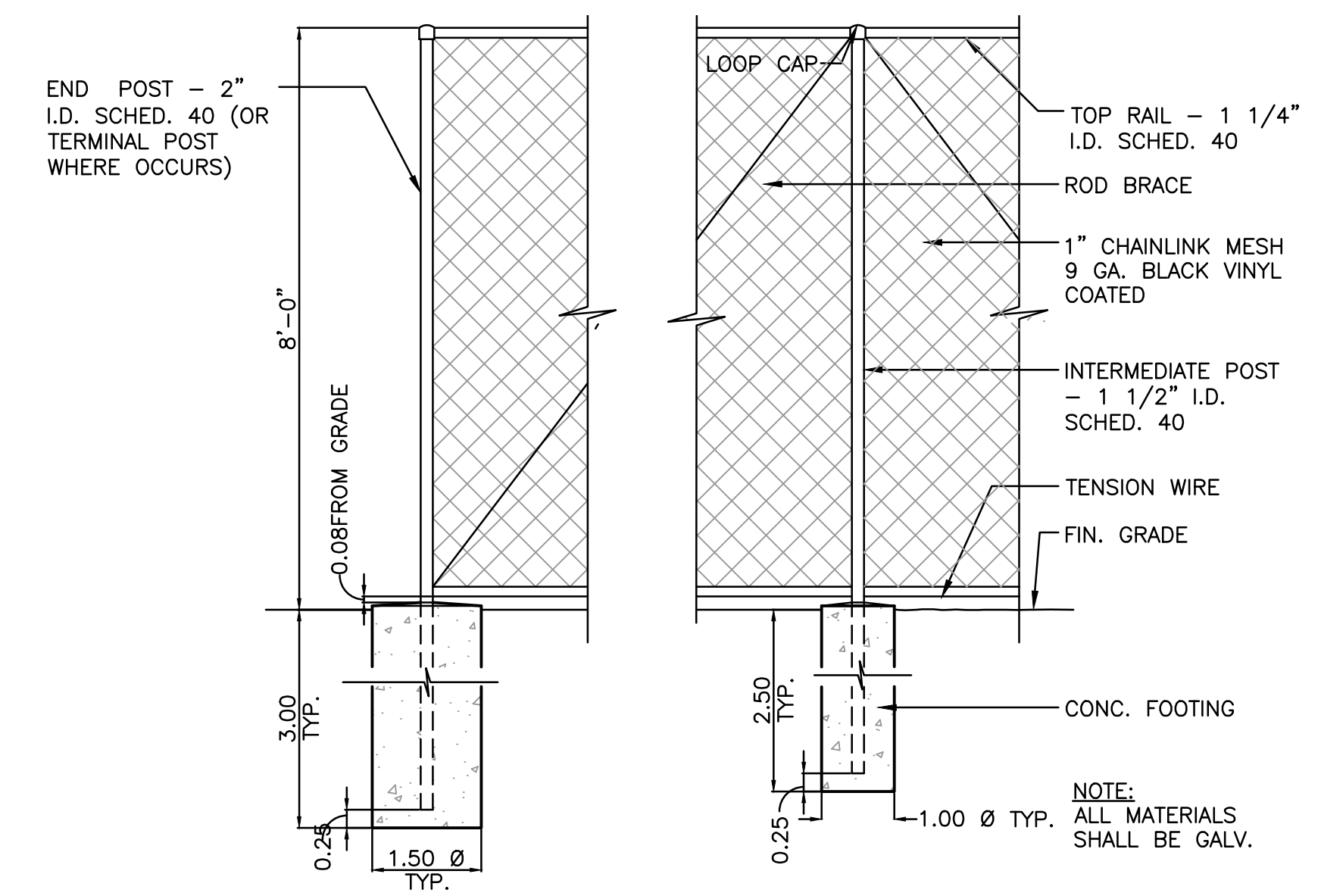
**LEGEND**



**C** CHAINLINK MAN GATE DETAIL  
SCALE: 1"=2'



**B** CHAINLINK GATE DETAIL  
SCALE: 1"=2'



**A** CHAINLINK FENCE DETAIL  
SCALE: 1"=2'

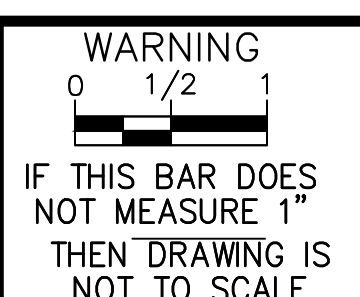


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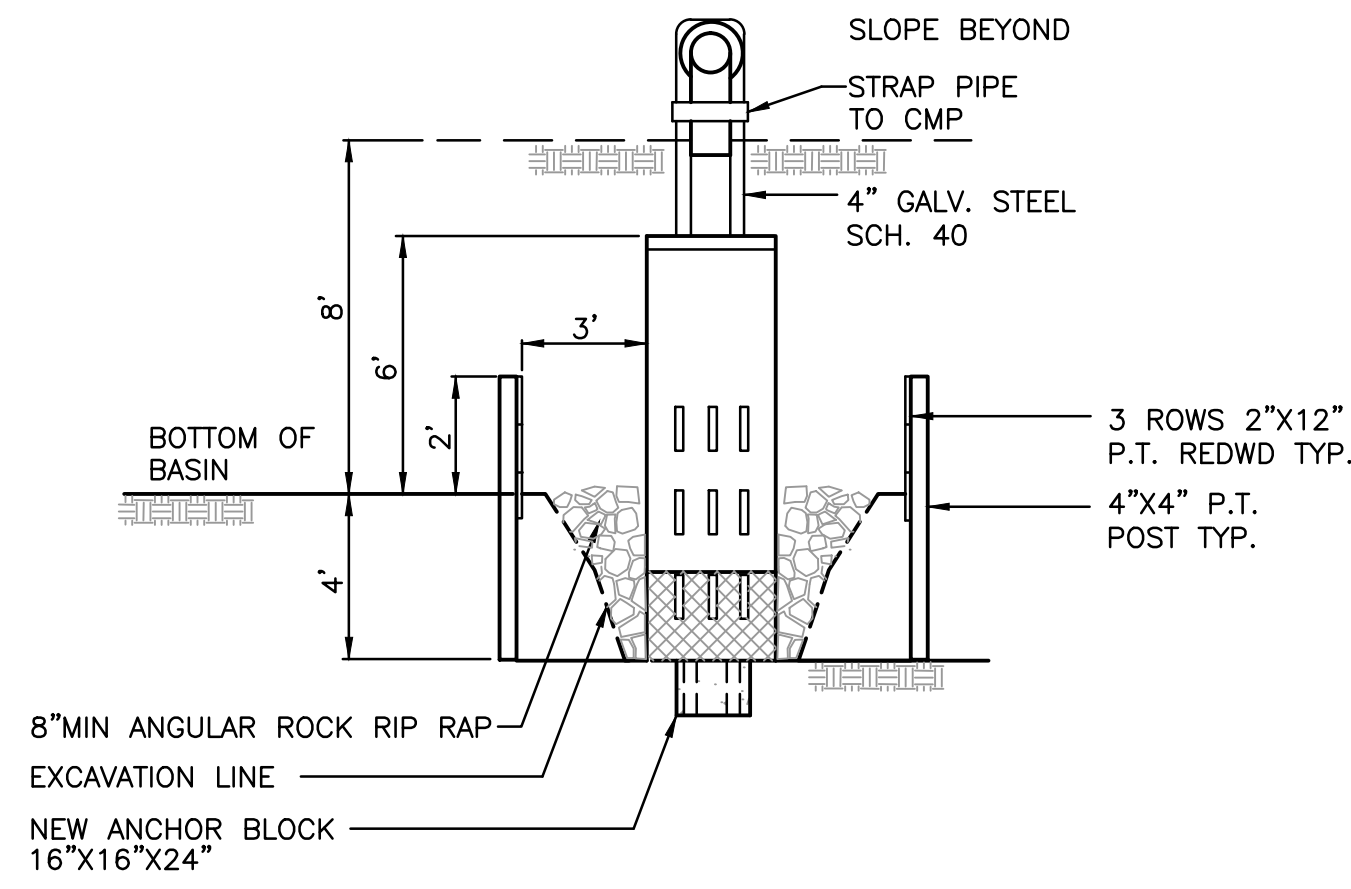
**MAC Design Associates**  
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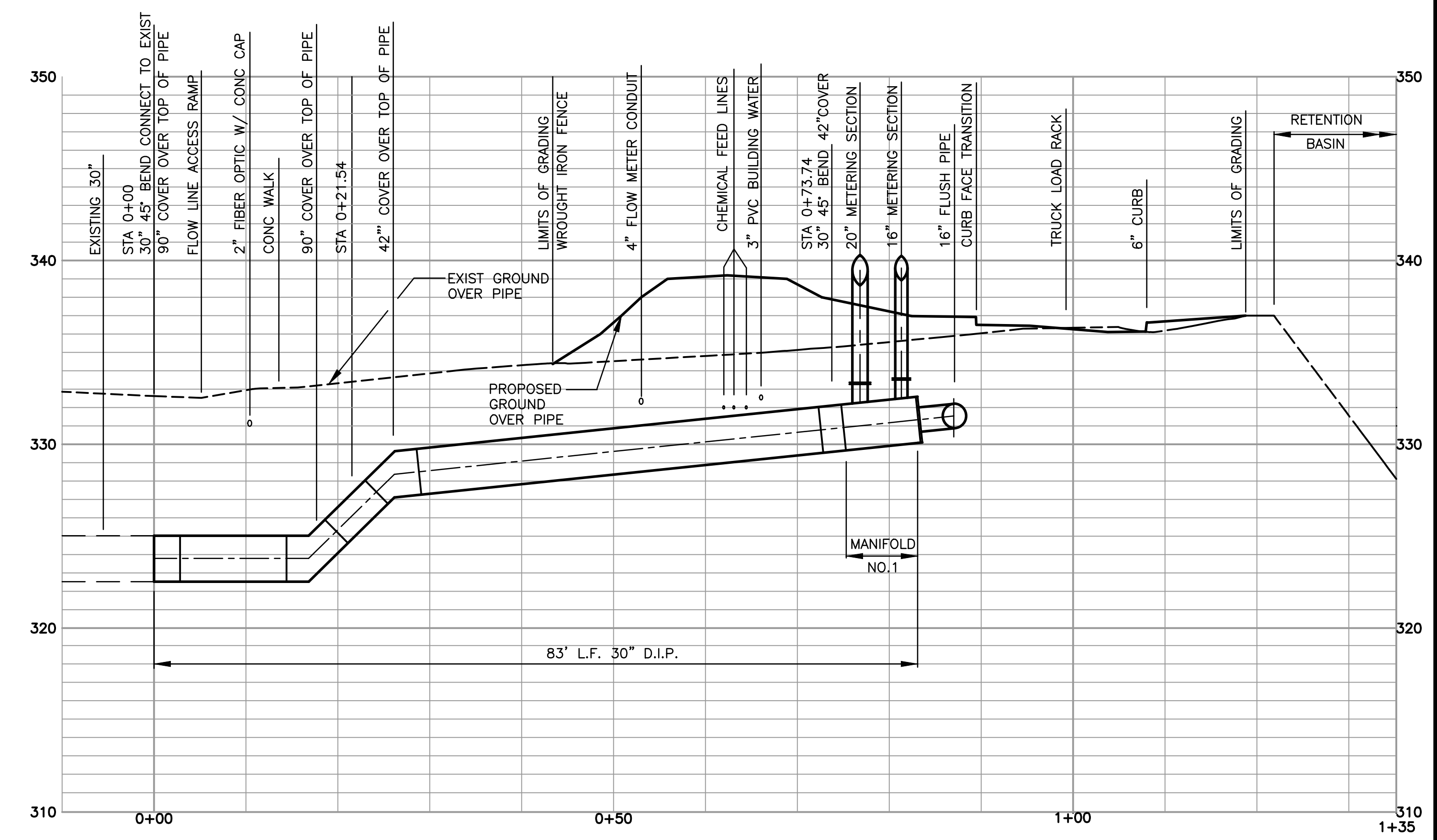
**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**PERIMETER FENCE PLAN AND DETAILS**  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

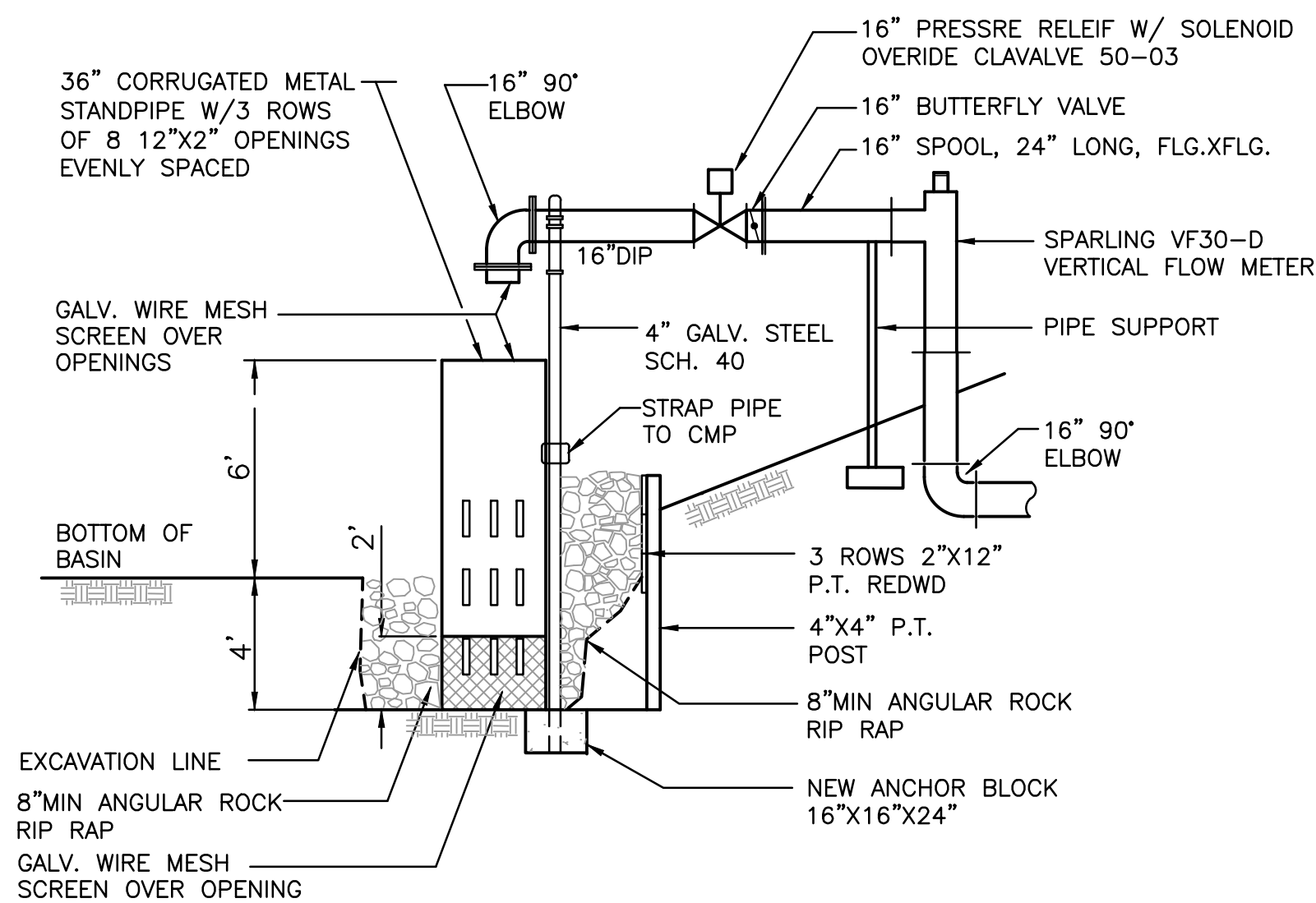
PROJECT NO.  
W.O. 0451  
**C12**



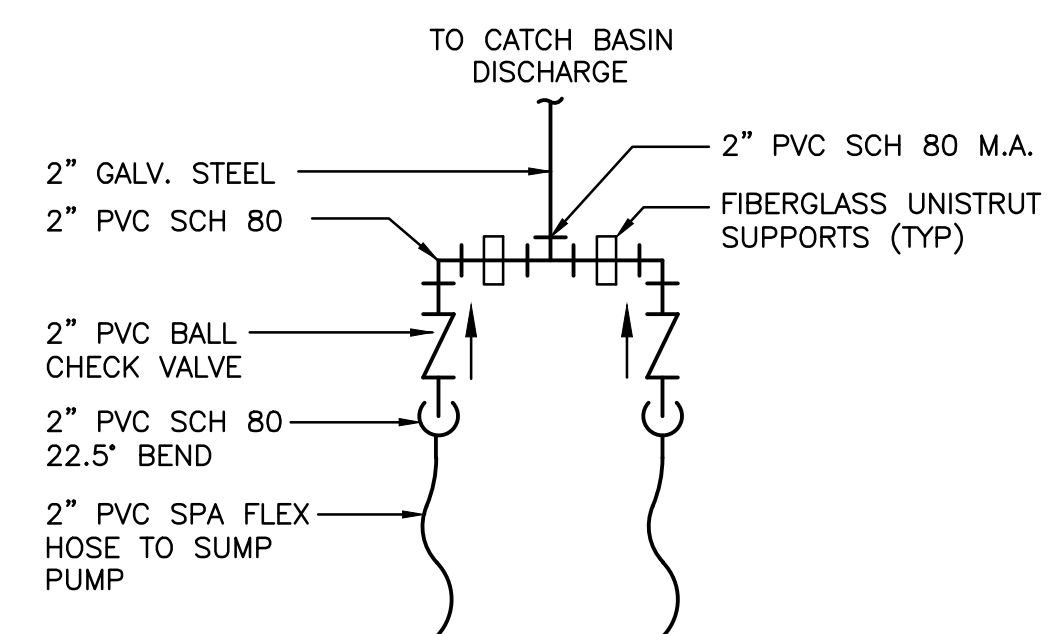
**C** ENERGY DISSIPATION CAN AND PIPE SUPPORT  
**C13** SCALE: 1"=2'



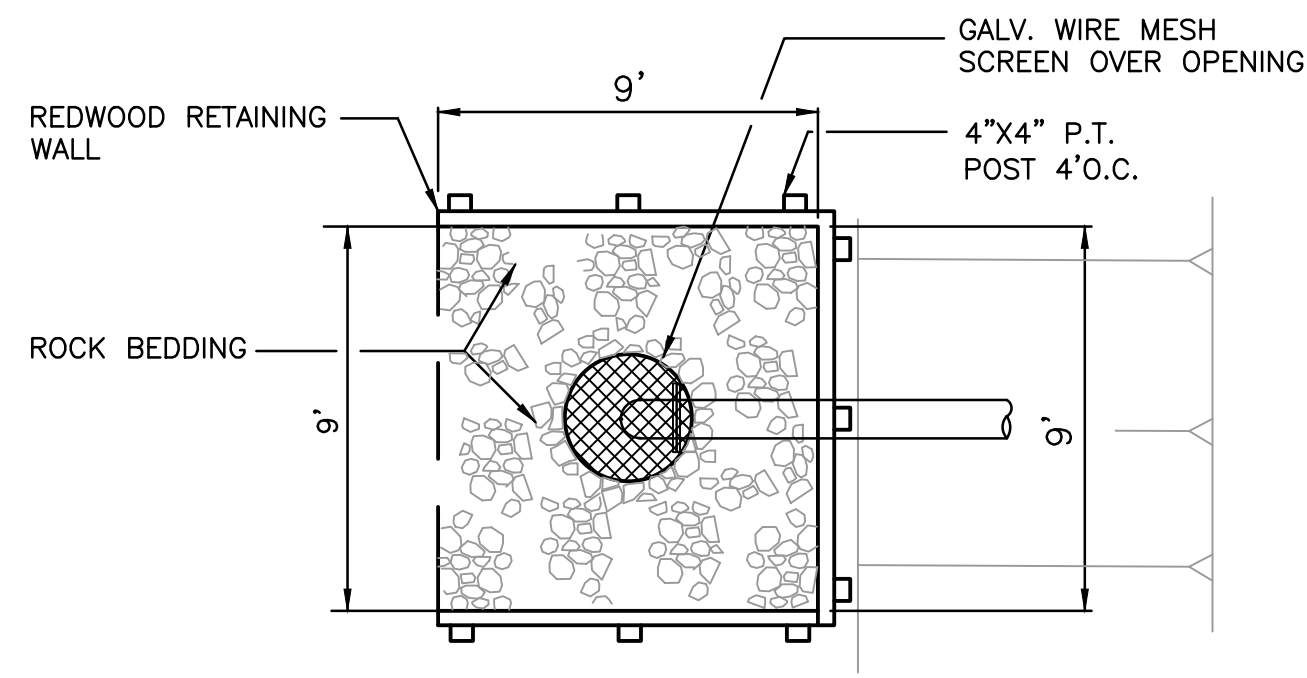
**30" TRANSMISSION PIPE PROFILE**  
 SCALE: HORZ. 1"=10'  
 VERT. 1"=5'



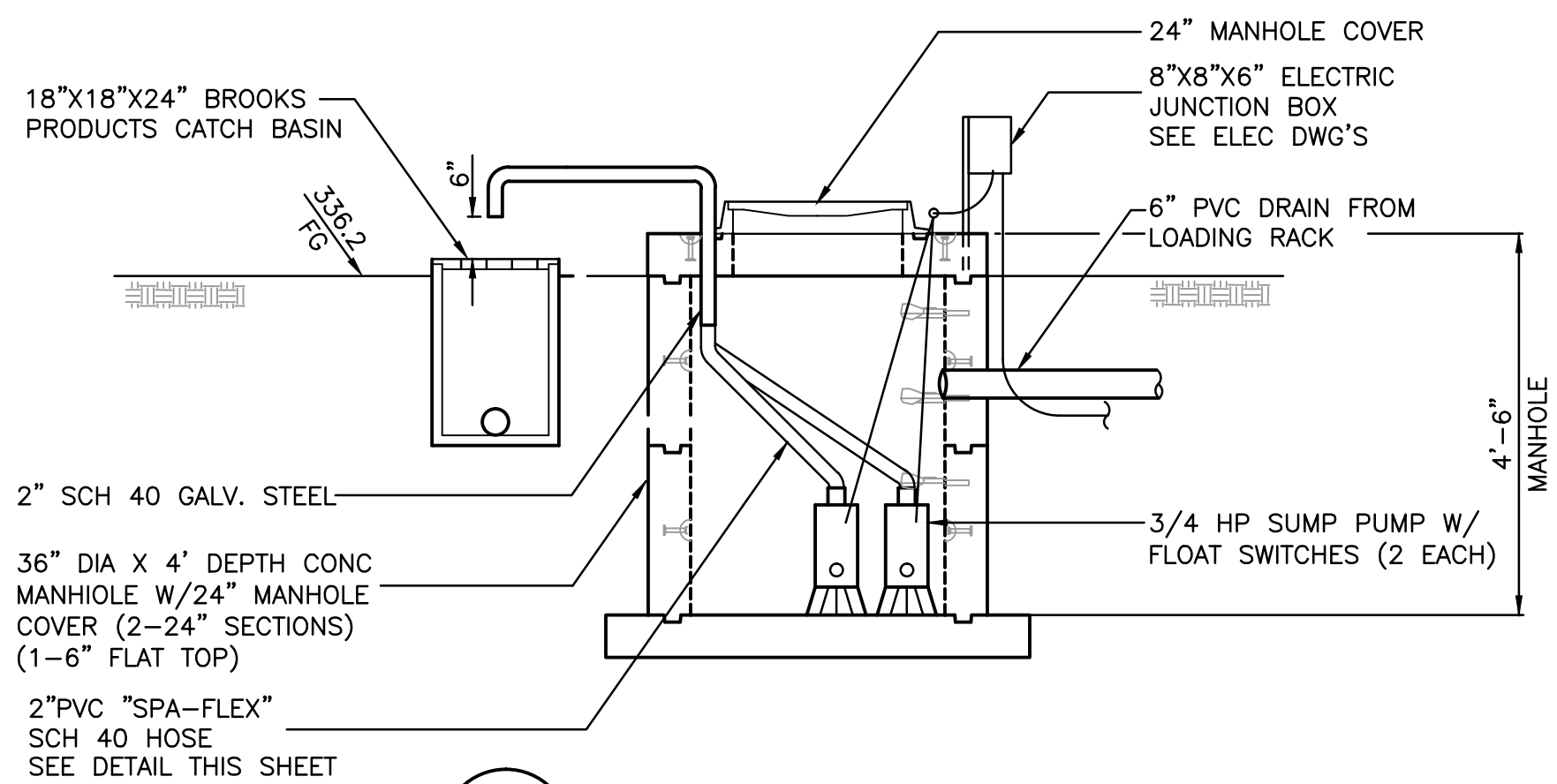
**B** SECTION  
**C13** SCALE: 1"=2'



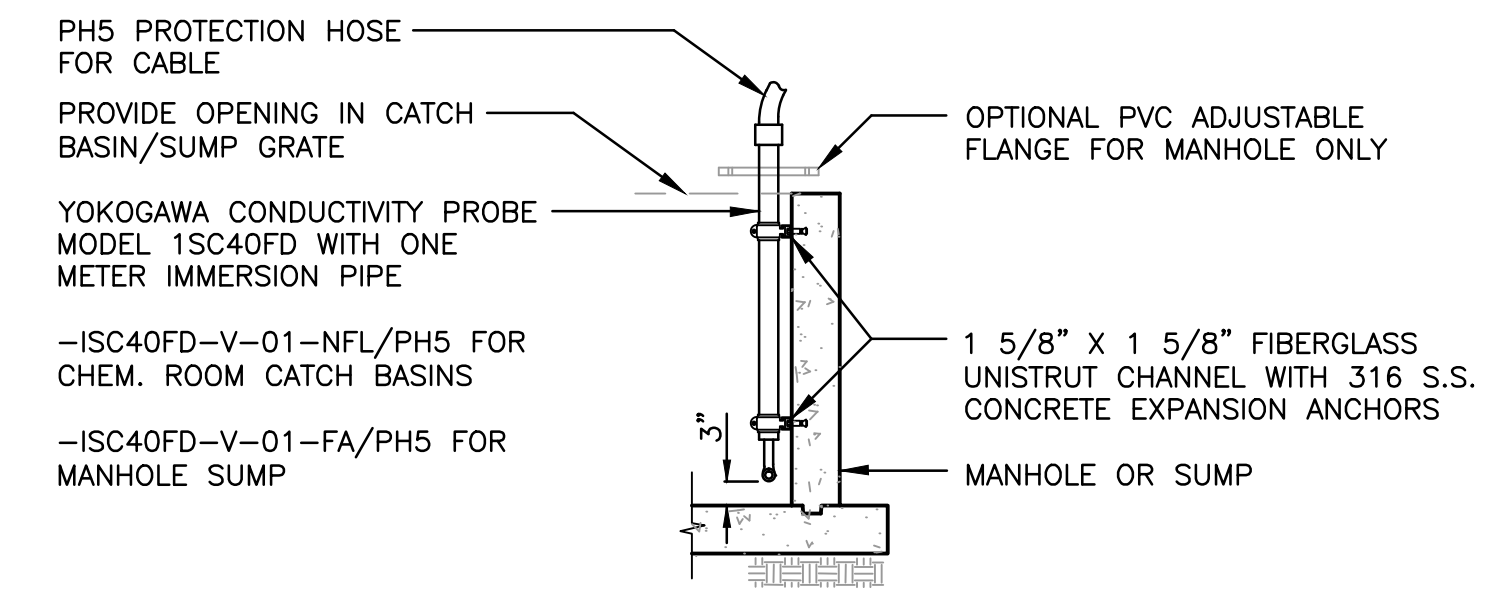
**SUMP PIPING DETAIL**  
 SCALE: 1"=2'



**A** PLAN STANDPIPE RETAINING WALL  
**C13** SCALE: 1"=2'



**D** SUMP SECTION  
**C13** SCALE: 1"=2'



**CONDUCTIVITY PROBE MOUNTING DETAIL**  
 NTS



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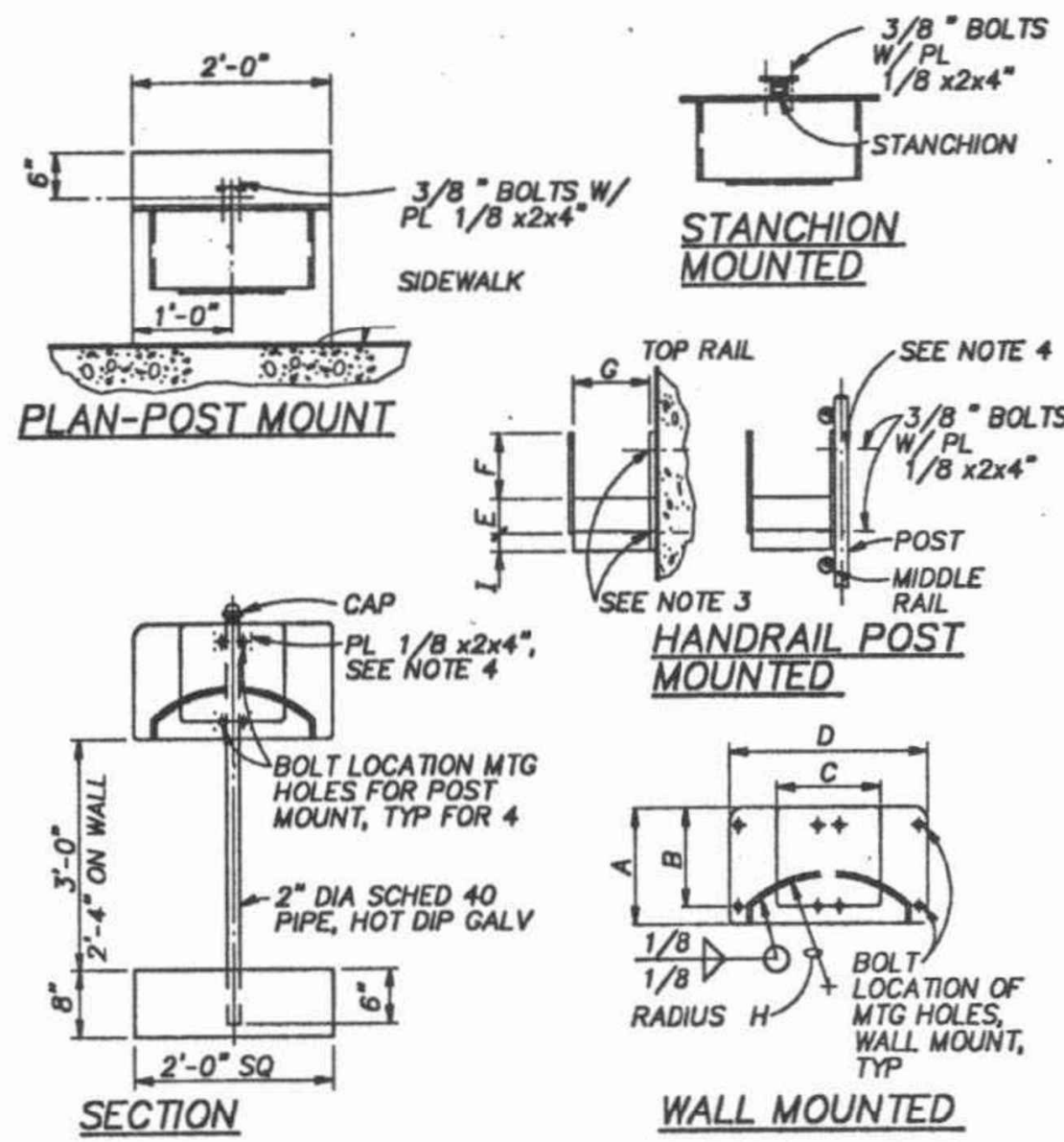
**ENERGY DISSIPATOR AND SUMP DETAILS**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
 SANTA MARGARITA ASR FACILITY SITE EXPANSION  
 1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO.  
 W.O. 0451  
**C13**

RACK TYPE	DIMENSION IN INCHES								
	A	B	C	D	E	F	G	H	I
3/4" HOSE	10 1/2	9	9	18	3	6	7 1/2	9 3/4	11 1/2

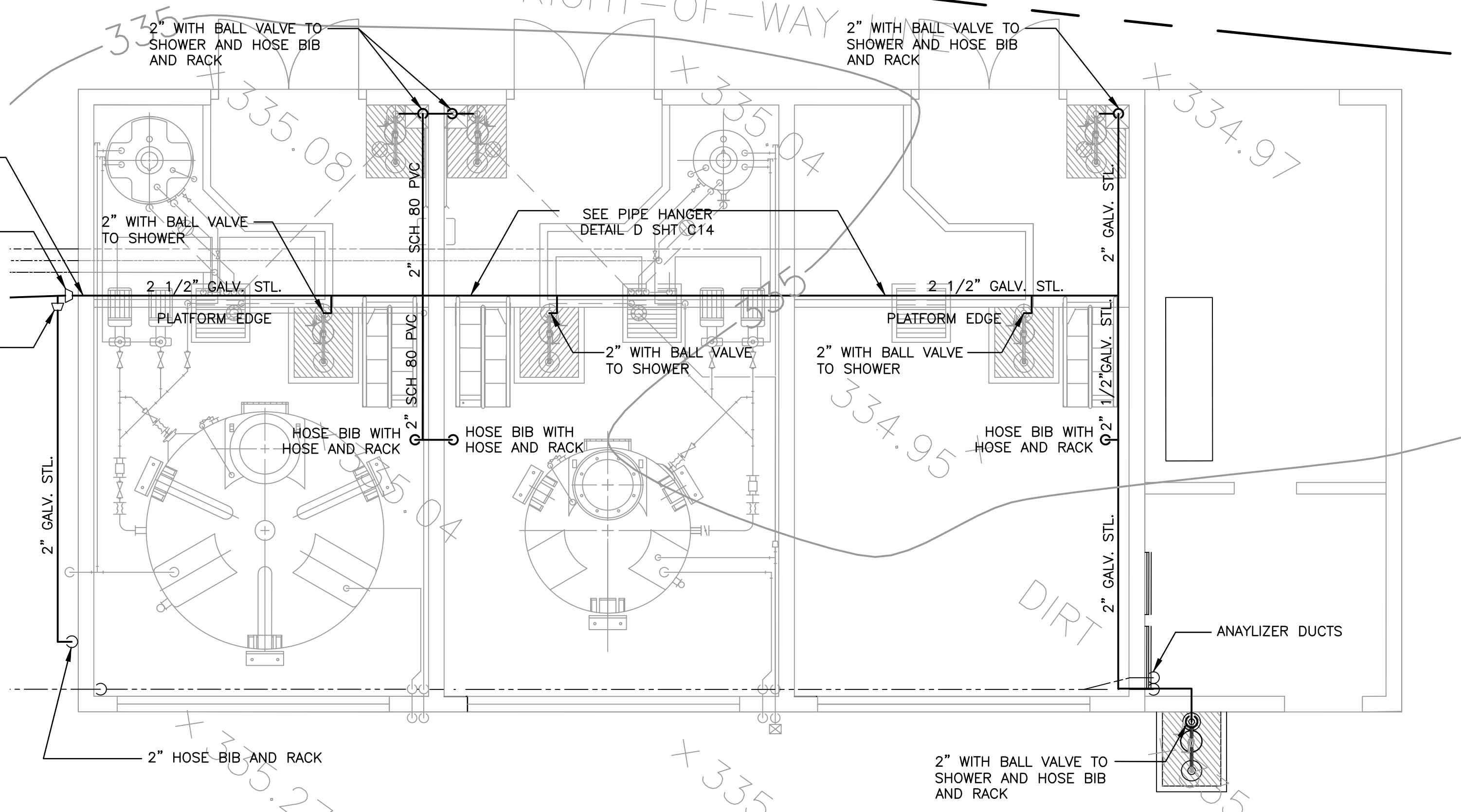
**NOTES:**

1. ALL UNITS SHALL BE FABRICATED FROM 3/16" 6061-T6 ALUMINUM ALLOY PLATE.
2. ATTACH TO CONCRETE WALL WITH (4)- 1/4" STAINLESS STEEL STUD TYPE WEDGE ANCHORS.
3. ATTACH TO VERTICAL HANDRAIL OR INDIVIDUAL POST WITH PLATES AND (4)- 1/4" STAINLESS STEEL BOLTS.
4. ATTACH TO STEEL COLUMN WITH (4)- 1/4" ROUND HEAD BOLTS, ONE IN EACH CORNER. INSERT DOUBLE SPACER NUTS BETWEEN COLUMN AND HOSE RACK.

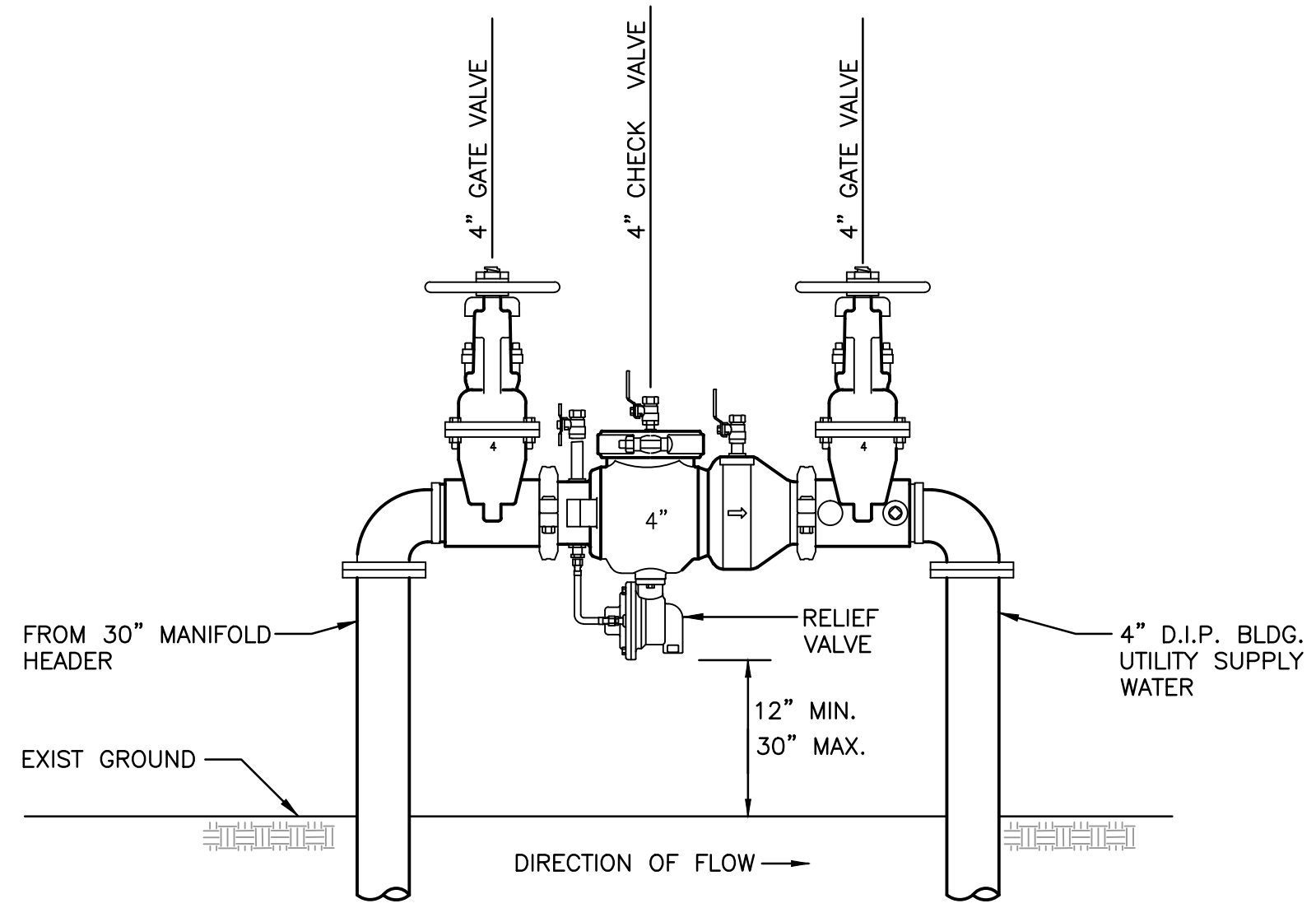


**B**  
C14  
EMERGENCY SAFETY SHOWER/EYEWASH  
NO SCALE

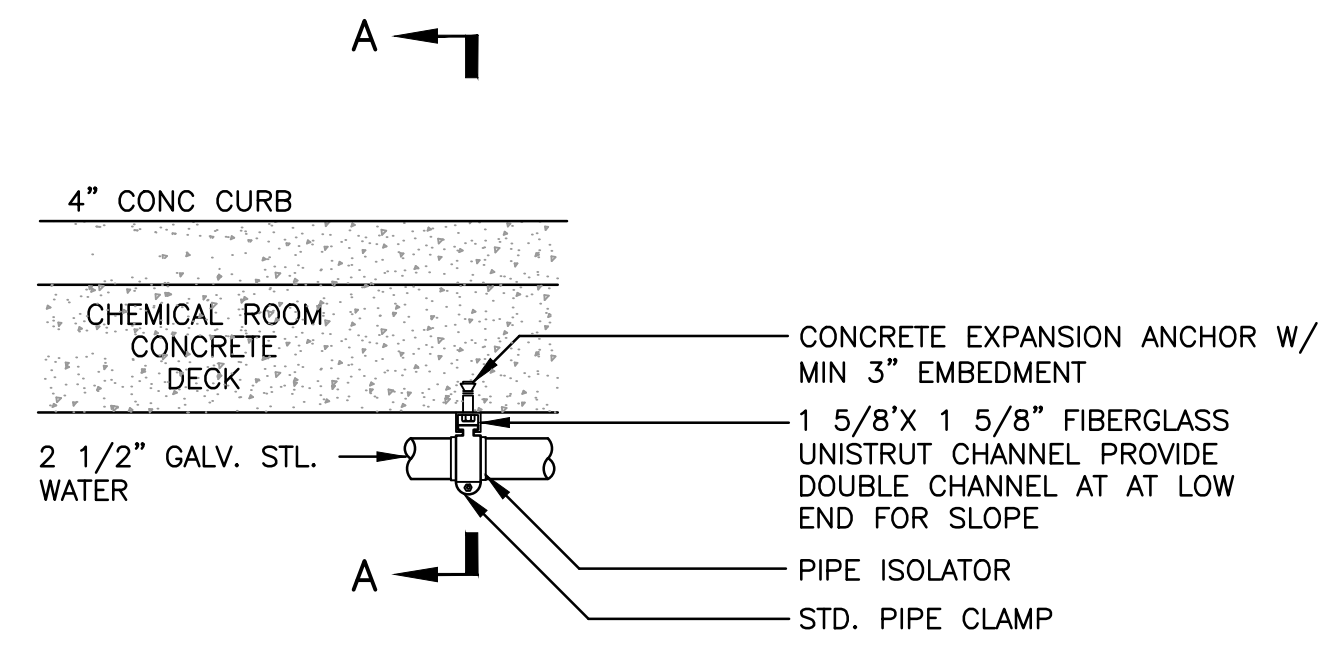
**C**  
C14  
HOSE RACK DETAIL  
NO SCALE



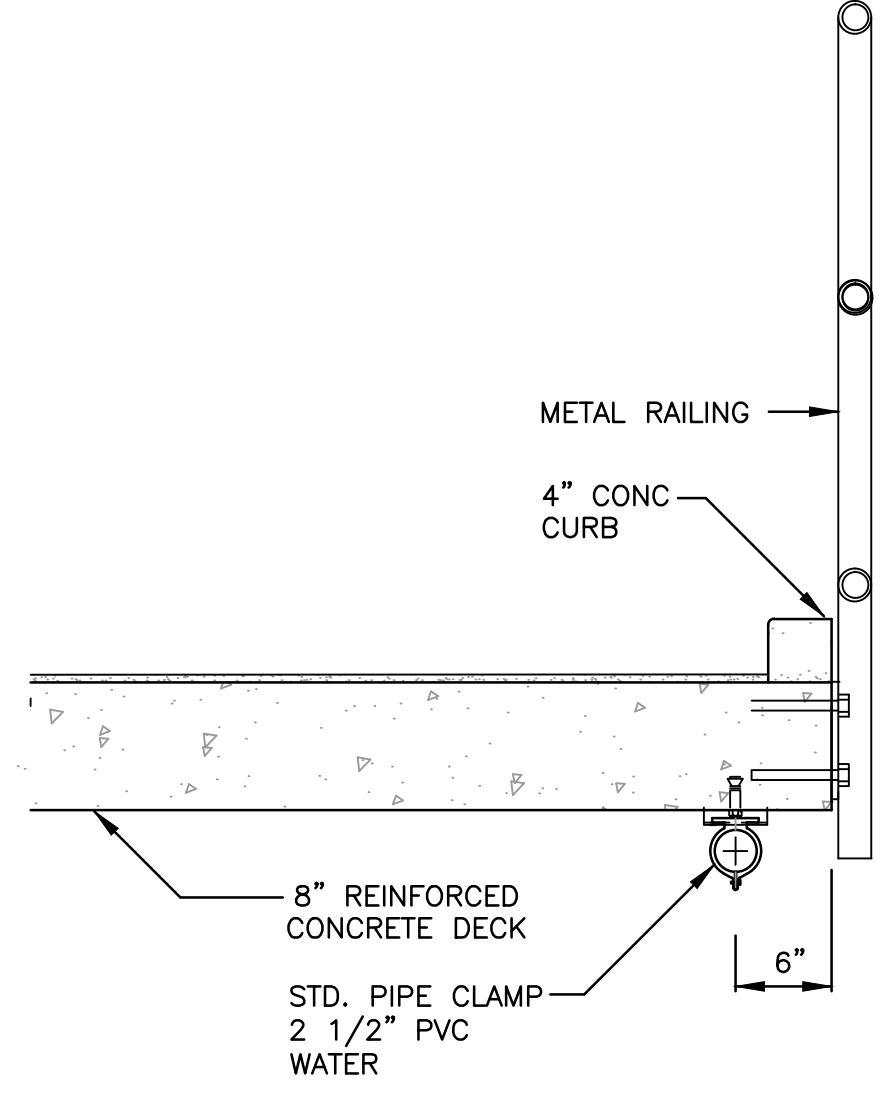
**CHEMICAL ROOMS UTILITY WATER PIPING & SHOWER/EYEWASH INSTALLATIONS**  
SCALE 1"=2'



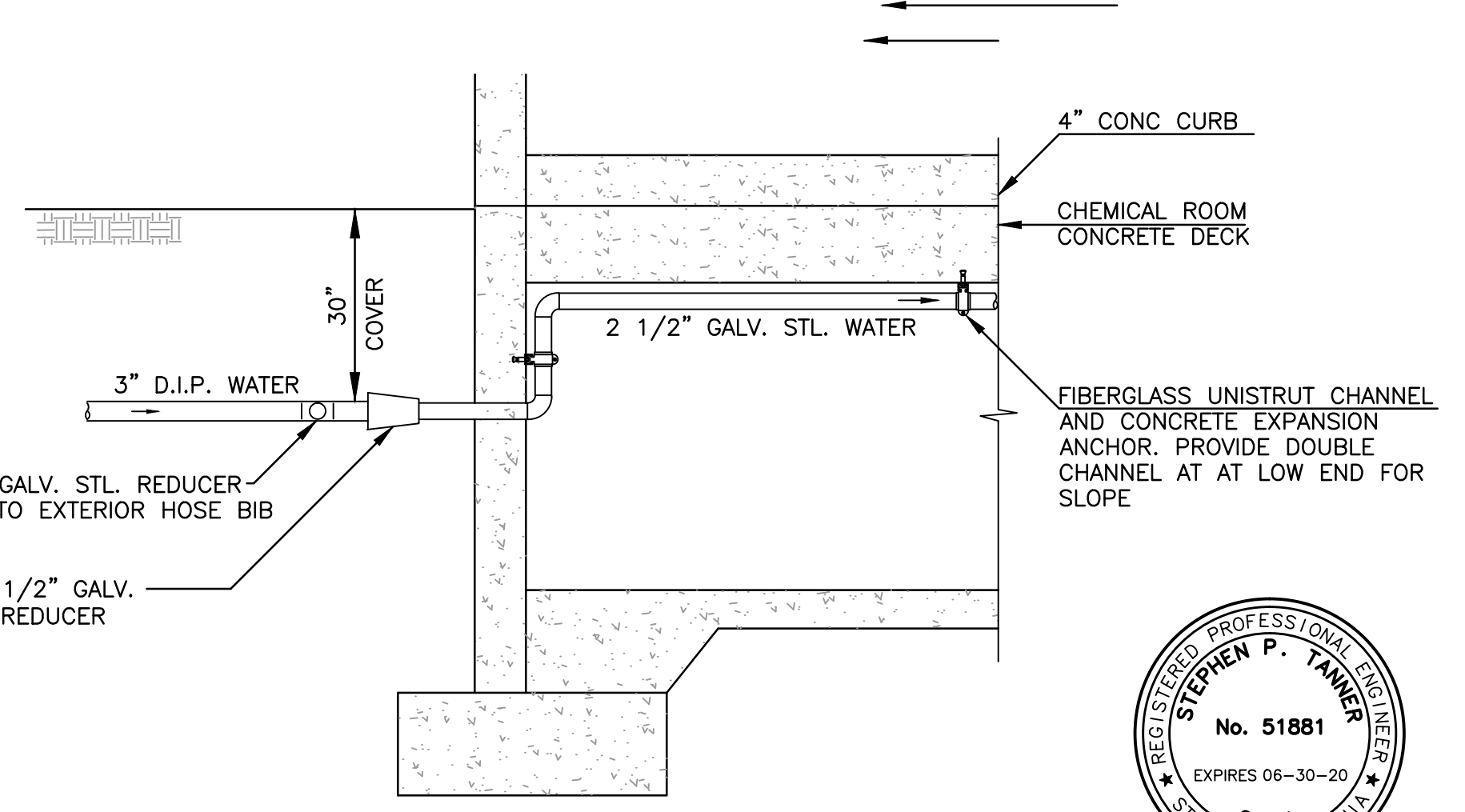
**A**  
C14  
WILKINS MODEL 375A  
4" R.P.B.P. AND RISER ASSEMBLY  
SCALE: 1"=1'



**D**  
C14  
PIPE HANGER DETAIL  
NTS



**SECTION A-A**  
NTS



**SHOWER SUPPLY WATER**  
NTS



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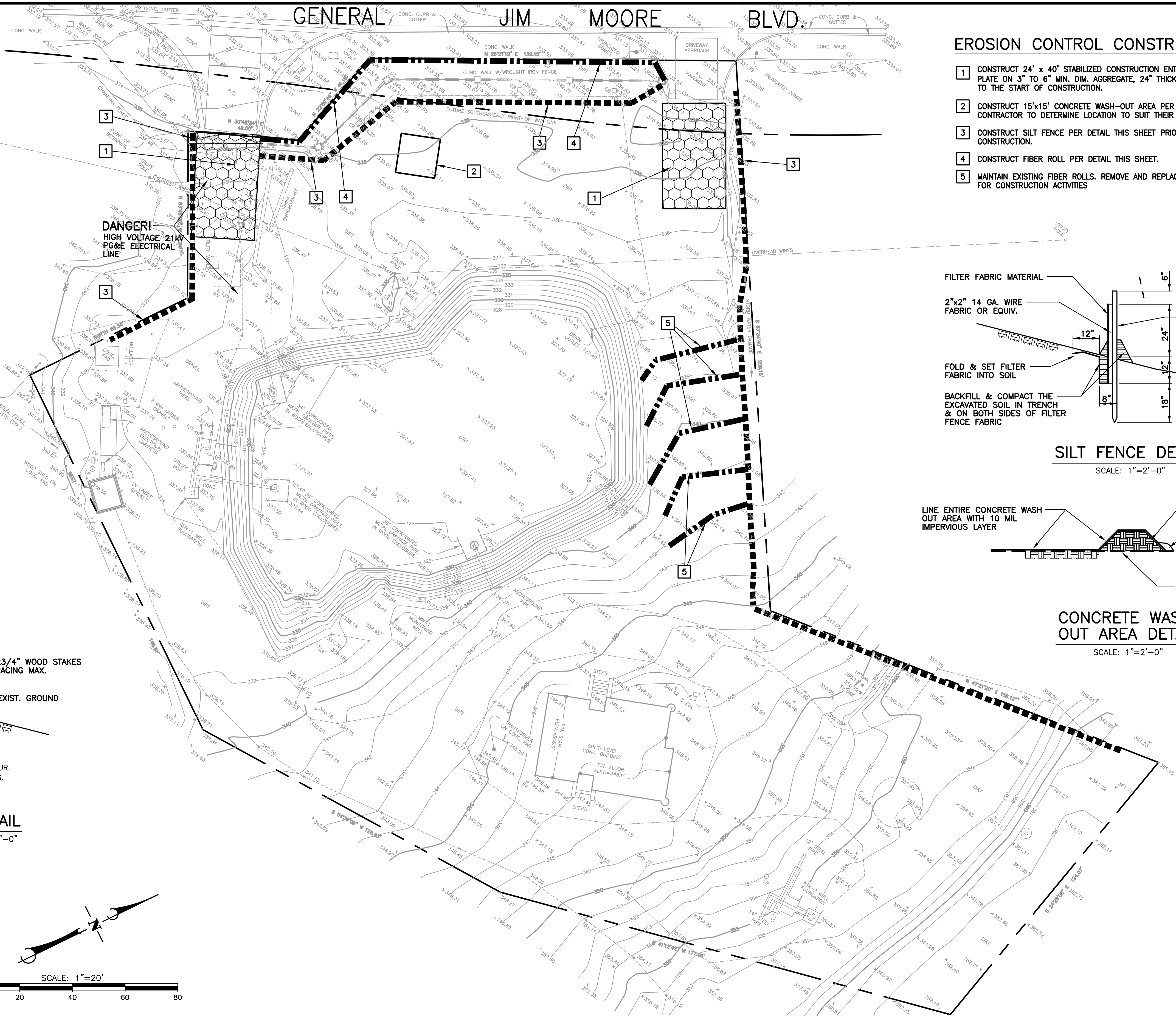
**PUEBLO water resources**  
**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**UTILITY WATER PIPING AND DETAILS**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451  
**C14**

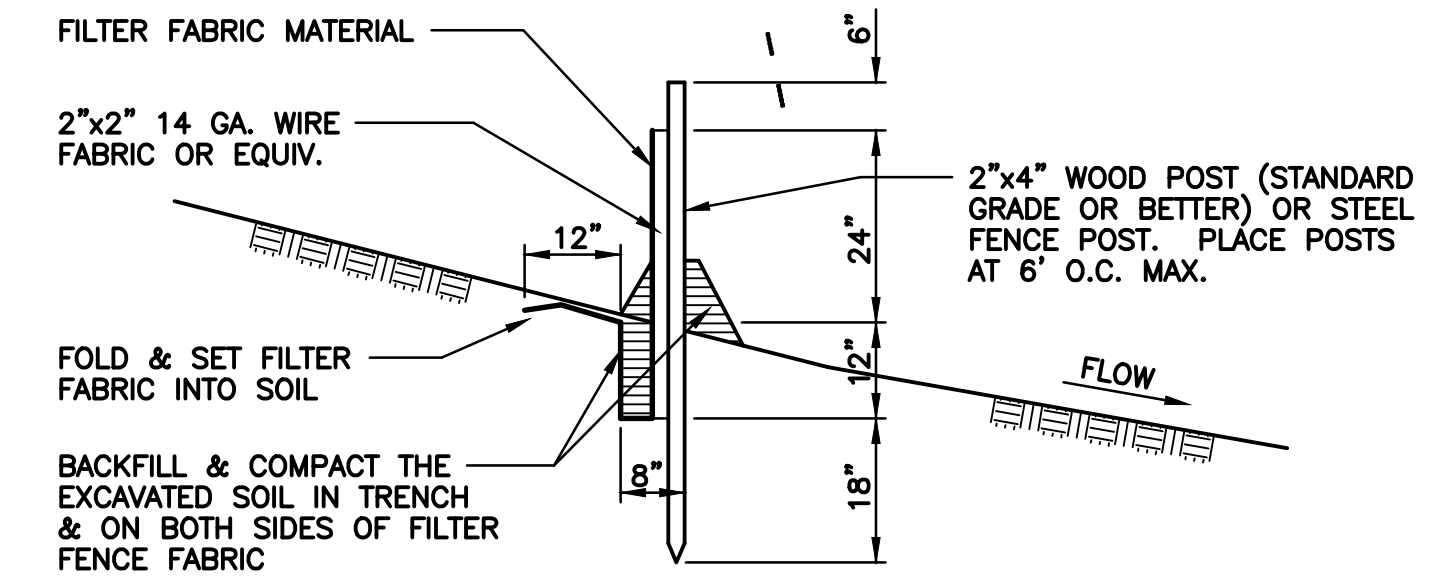
### EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO, DURING AND AFTER STORM EVENTS. MONITORING INCLUDES MAINTAINING A FILE DOCUMENTING ON-SITE INSPECTIONS, PROBLEMS ENCOUNTERED, CORRECTIVE ACTIONS AND NOTES AND A RED-LINE MAP OF REMEDIAL IMPLEMENTATION MEASURES.
2. REASONABLE CARE SHALL BE TAKEN WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS OR ANY HAZARDOUS SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE. SHOULD ANY BLOW, SPILL OR TRACK OVER AND UPON SAID PUBLIC OR ADJACENT PRIVATE PROPERTY, IMMEDIATE CLEAN-UP SHALL OCCUR.
3. CONSTRUCTION ENTRANCES AS SHOWN ON THE EROSION CONTROL PLAN SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE.
4. SANITARY FACILITIES SHALL BE MAINTAINED ON-SITE AS APPROPRIATE.
5. DURING THE RAINY SEASON ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. ALL EARTH STOCKPILES OVER 2 CUBIC YARDS SHALL BE COVERED BY A TARP AND RINGED WITH STRAW BALES OR SILT FENCING. THE SITE SHALL BE MAINTAINED SO AS TO PREVENT SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM INCLUDING DRAINAGE SWALES AND WATER COURSES.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE PREVENTED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT SHALL BE COMPLIED WITH.
7. THE FACILITIES SHOWN ON THE EROSION CONTROL PLAN HEREON ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, NOVEMBER 1 TO APRIL 15. FACILITIES ARE TO BE OPERABLE PRIOR TO OCTOBER 15 OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES. THIS WILL INCLUDE THE USE OF STRAW MULCH AND TACKIFIER, EROSION CONTROL BLANKETS, STRAW WATTLES AND HAY BALES.
8. THE EROSION CONTROL PLAN COVERS ONLY THE FIRST WINTER FOLLOWING GRADING WITH ASSUMED SITE CONDITIONS AS SHOWN ON THE EROSION CONTROL PLAN. PRIOR TO SEPTEMBER 15, THE COMPLETION OF SITE IMPROVEMENT SHALL BE EVALUATED AND REVISIONS MADE TO THIS PLAN AS NECESSARY WITH THE APPROVAL OF THE OWNER. PLANS ARE TO BE RESUBMITTED FOR APPROVAL PRIOR TO AUGUST 15 OF EACH SUBSEQUENT YEAR UNTIL SITE IMPROVEMENTS ARE ACCEPTED BY THE OWNER.
9. THE CONTRACTOR SHALL PLAN THEIR OPERATIONS SUCH THAT THE MINIMUM AREA OF THE SITE IS DISTURBED. CARE MUST BE EXERCISED TO PRESERVE THE MAXIMUM AMOUNT OF EXISTING VEGETATION THAT SERVES AS EROSION CONTROL.



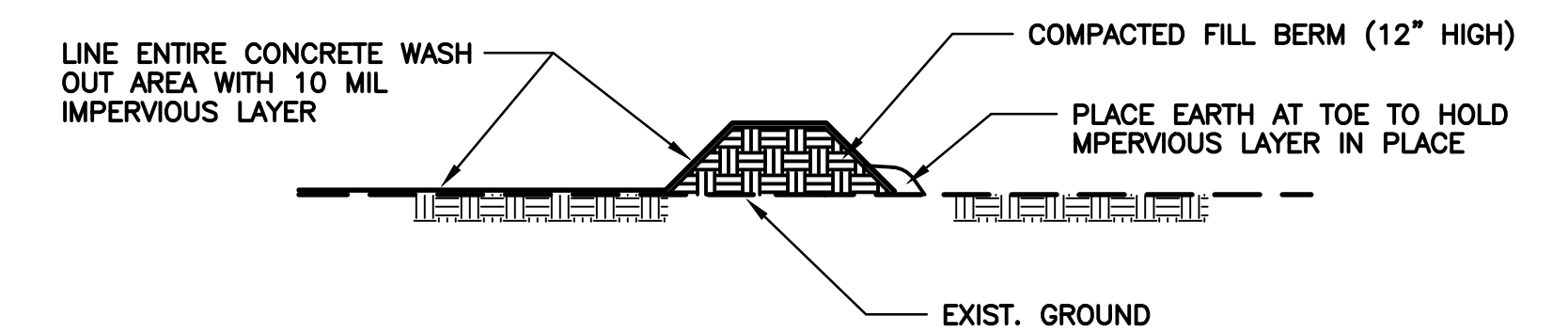
### EROSION CONTROL CONSTRUCTION NOTES

1. CONSTRUCT 24' x 40' STABILIZED CONSTRUCTION ENTRANCE USING STEEL VIBRATION PLATE ON 3" TO 6" MIN. DIM. AGGREGATE, 24" THICK OVER FILTER FABRIC, PRIOR TO THE START OF CONSTRUCTION.
2. CONSTRUCT 15'x15' CONCRETE WASH-OUT AREA PER DETAIL THIS SHEET. CONTRACTOR TO DETERMINE LOCATION TO SUIT THEIR OPERATIONS.
3. CONSTRUCT SILT FENCE PER DETAIL THIS SHEET PRIOR TO THE START OF CONSTRUCTION.
4. CONSTRUCT FIBER ROLL PER DETAIL THIS SHEET.
5. MAINTAIN EXISTING FIBER ROLLS. REMOVE AND REPLACE FIBER ROLLS AS REQUIRED FOR CONSTRUCTION ACTIVITIES



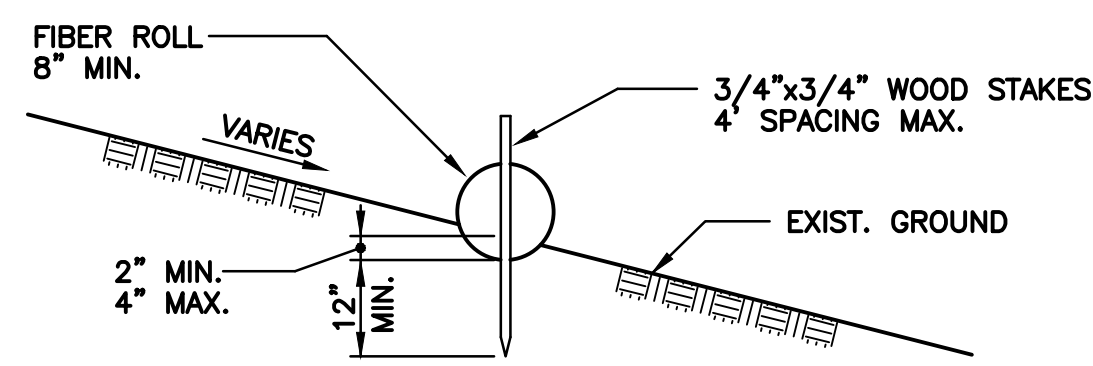
SILT FENCE DETAIL

SCALE: 1"=2'-0"



CONCRETE WASH OUT AREA DETAIL

SCALE: 1"=2'-0"



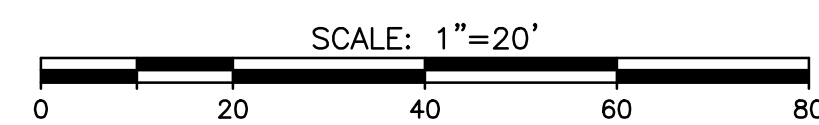
FIBER ROLL DETAIL

SCALE: 1"=2'-0"

NOTES:

- 1) LOCATE FIBER ROLLS ON A LEVEL CONTOUR.
- 2) OVERLAP ROLL ENDS, DO NOT BUTT ENDS.
- 3) TURN ROLL END UPHILL.

UNAUTHORIZED CHANGES & USES CAUTION:  
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.



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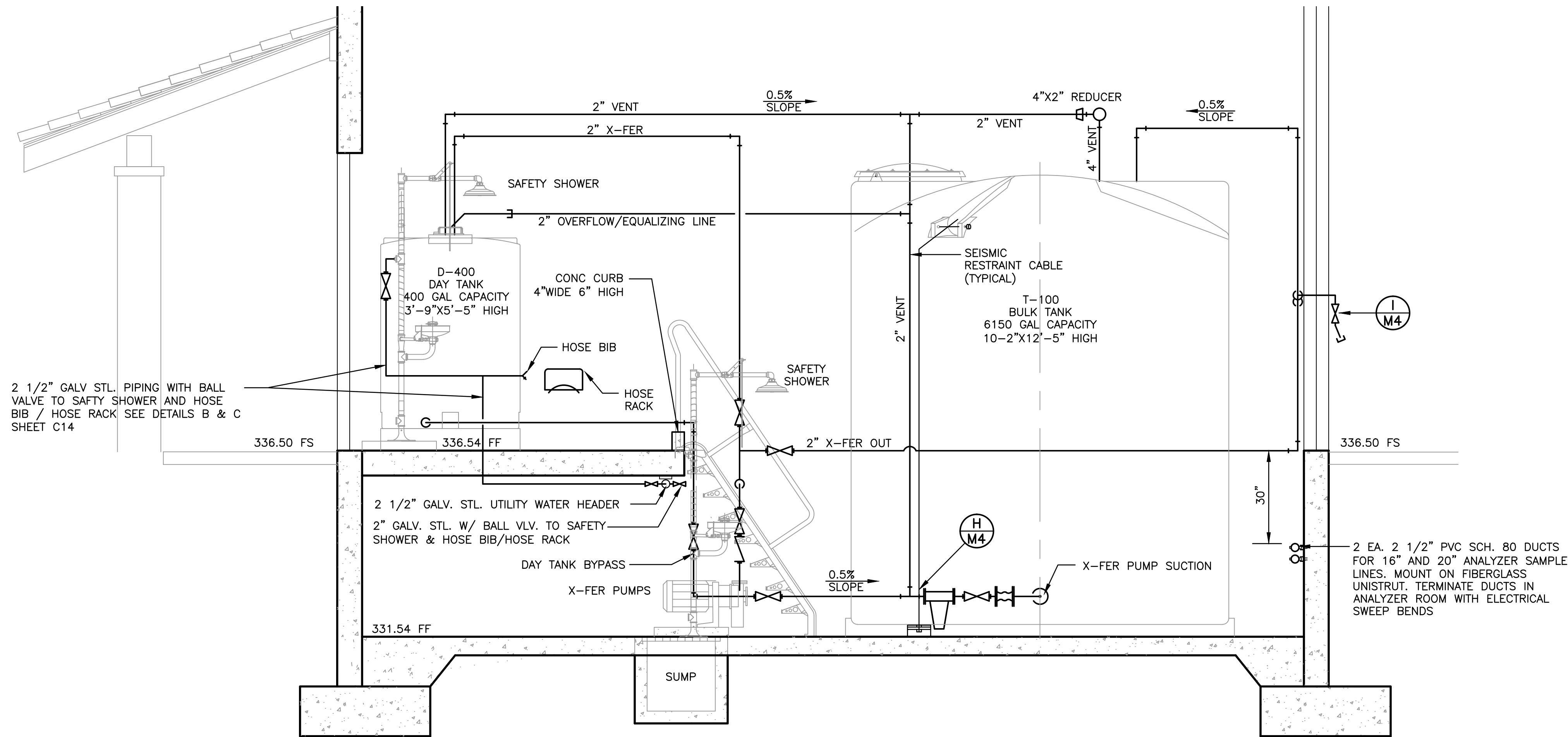
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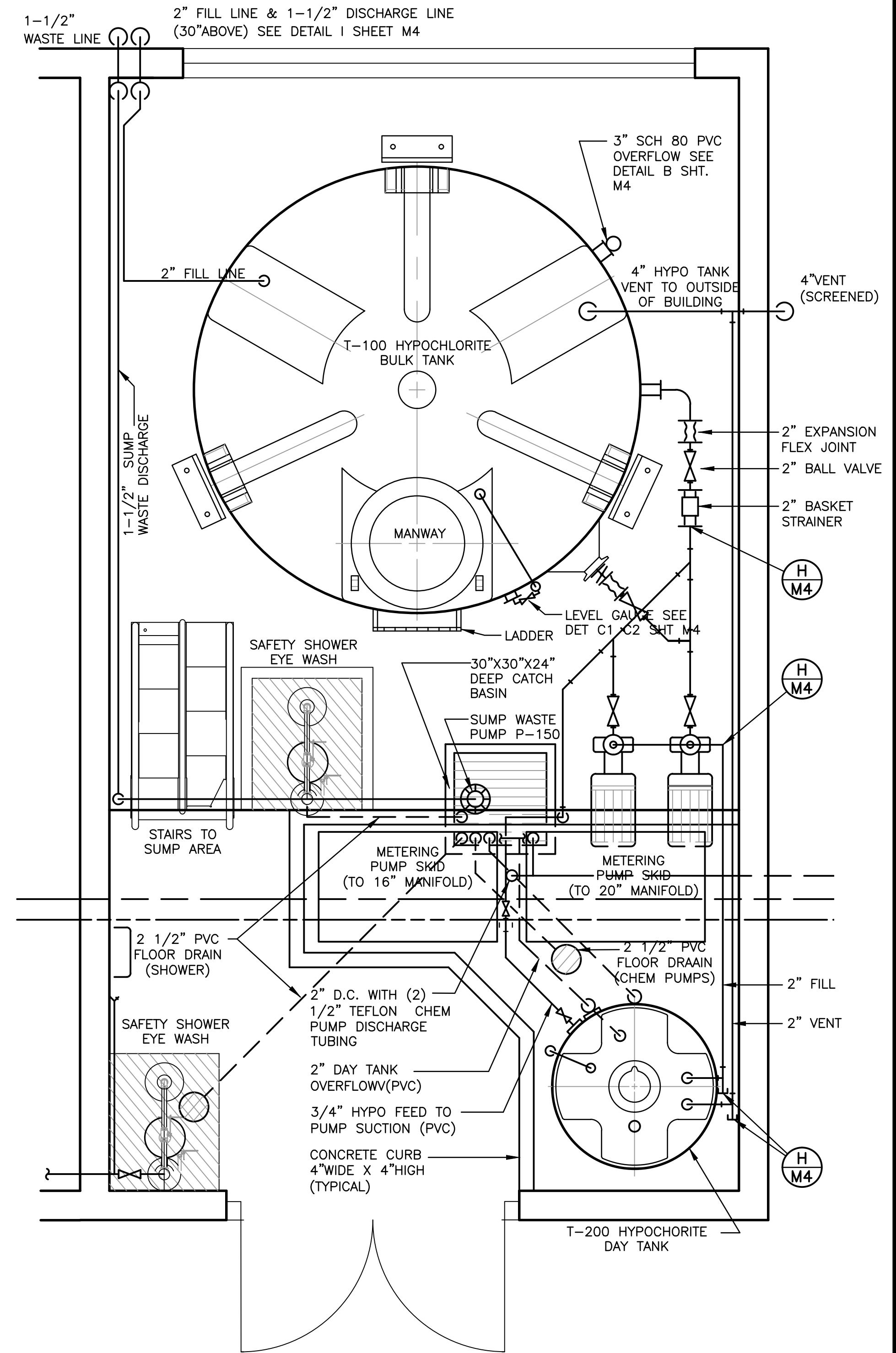
**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**EROSION CONTROL PLAN**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO.  
W.O. 0451  
**C15**



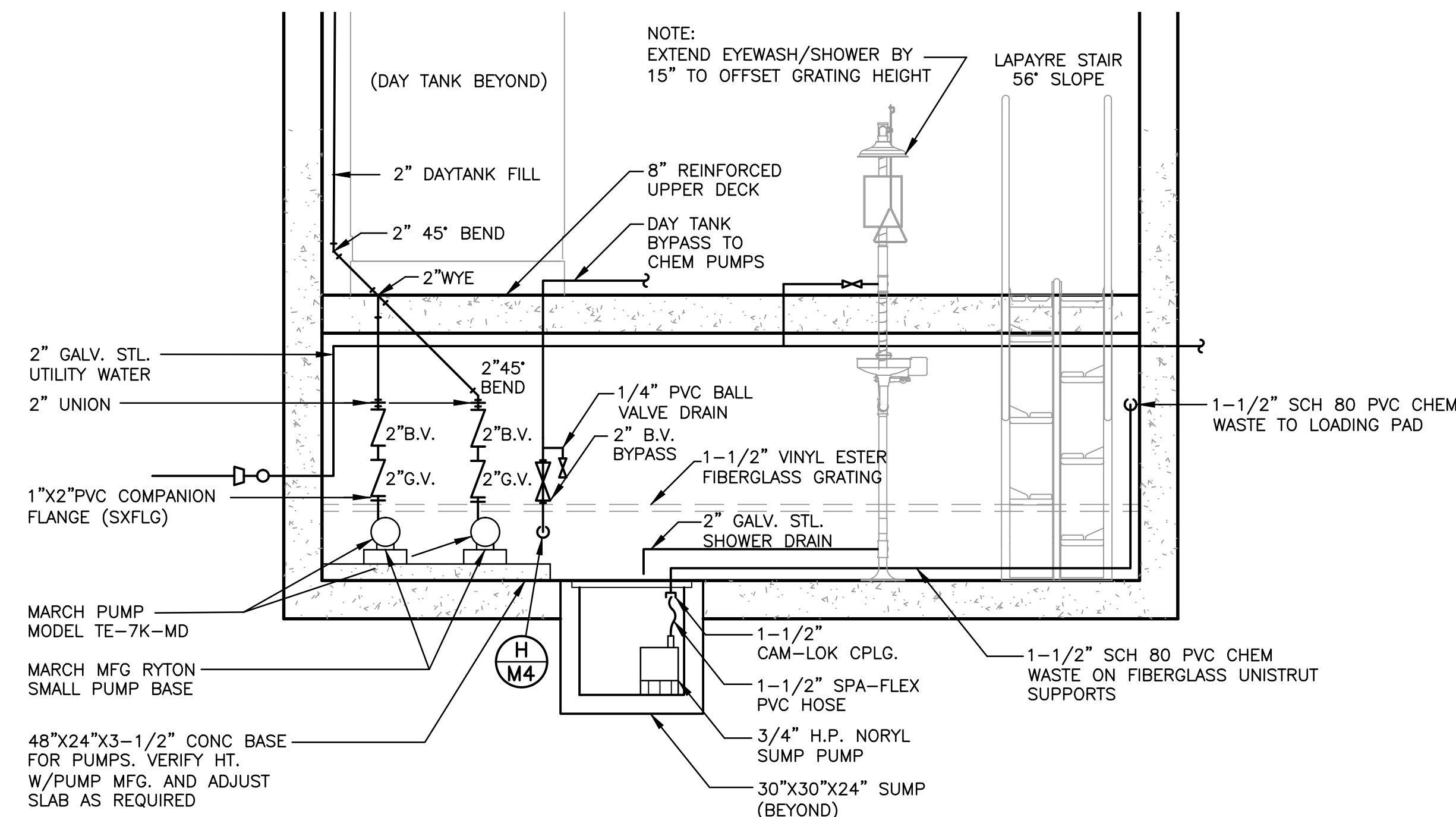
**SOUTH WALL PIPING ELEVATION**  
SCALE 1"=2'



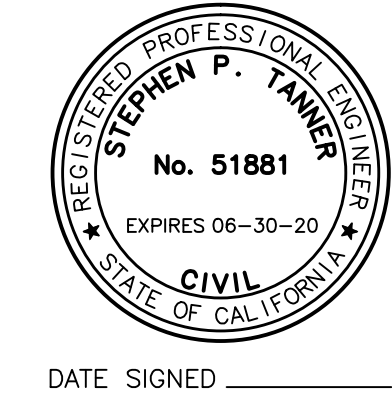
**HYPOCHLORITE ROOM PLAN**  
SCALE 1"=2'

**CHEMICAL ROOM PIPING NOTES**

- ALL CHEM ROOM PIPING SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.
- ALL PIPING, VALVING, AND EQUIPMENT CONTACTING LIQUID SODIUM HYPOCHLORITE SOLUTIONS IN CONCENTRATION ABOVE 1% WT. SHALL NOT HAVE THREADED CONNECTIONS (NATIONAL PIPE THREAD OR OTHER TYPE) IN CONTACT WITH THE LIQUID. ONLY FLANGED, SOLVENT WELDED SOCKET, O-RING SEALED, OR WELDED CONNECTIONS SHALL BE ALLOWED.
- ALLOWABLE MATERIALS IN DIRECT CONTACT WITH SODIUM HYPOCHLORITE SOLUTIONS ABOVE 1% CONCENTRATION INCLUDE PVC SCHEDULE 80, CPVC SCHEDULE 80, PTFE, VITON, TEFLON, AND TITANIUM. NO NITRILE, BUNA N, STAINLESS STEEL, BRASS, OR COPPER MATERIALS SHALL BE ALLOWED.
- ALL BALL VALVES SHALL BE EQUIPPED WITH SOCKET OR FLANGED CONNECTIONS, VITON OR FKM O-RING SEALS, AND VENTED BALLS. VALVES SHALL BE INSTALLED WITH THE BALL VENT DIRECTED TO THE UPSTREAM PROCESS SIDE.
- ALL SODIUM HYPOCHLORITE LIQUID PIPING SHALL BE SLOPED BACK TOWARDS THE BULK TANK, OR DAY TANK AT 0.5% MINIMUM TO PREVENT GAS ACCUMULATION. ALL VENT LINES SHALL BE SLOPED TOWARDS THE BULK TANK OR DAY TANK AT 0.5% MINIMUM SLOPE TO ALLOW LIQUIDS OR CONDENSATES TO FLOW TOWARDS THE TANKS.
- SOLVENT GLUED PVC OR CPVC CONNECTIONS SHALL USE IPS OR WELDON 724 PVC CEMENT AND P-70 PRIMER. GLUED JOINTS SHALL BE MADE UP IN ACCORDANCE WITH THE GLUE MANUFACTURERS PROCEDURES FOR CHEMICAL SERVICE USE.
- ALL PIPING SUPPORTS, INCLUDING STRUT CHANNEL SUPPORT SYSTEMS SHALL BE OF PVC OR VINYL ESTER FIBERGLASS CONSTRUCTION.



**LOWER CHEMICAL ROOM TYPICAL DETAILS**  
SCALE 1"=2'



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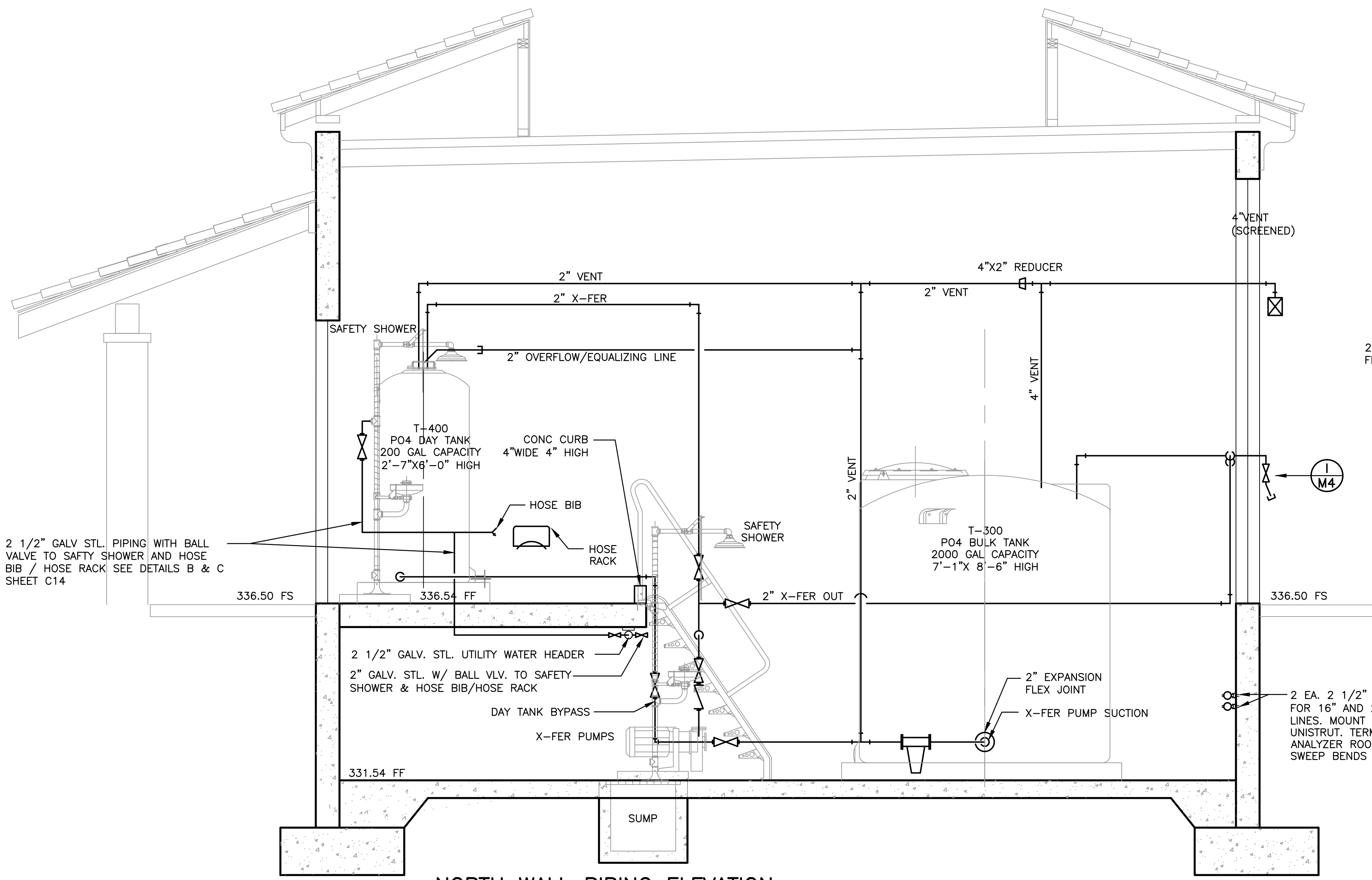
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**PUEBLO water resources**  
**Pueblo Water Resources**  
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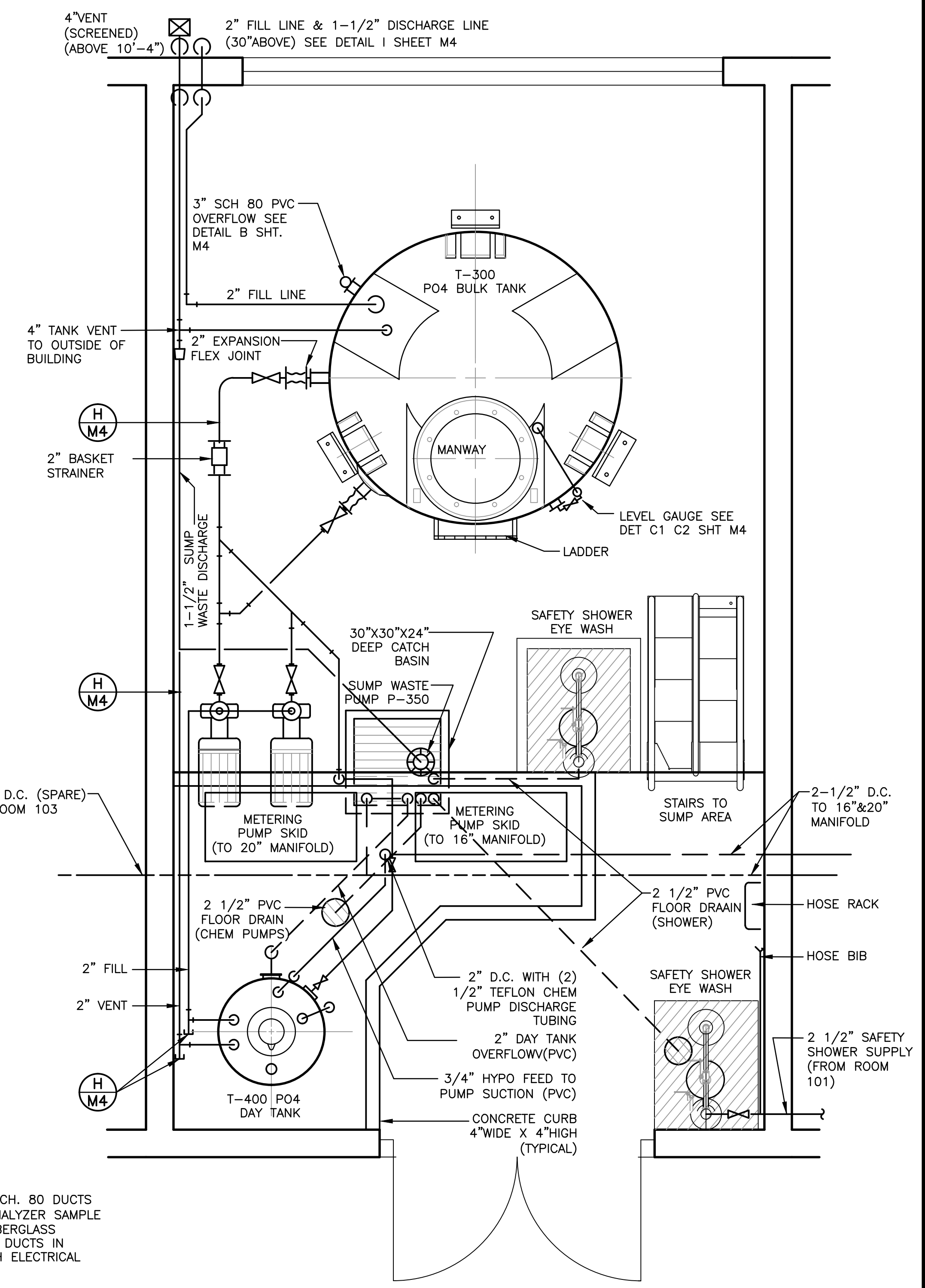
**CHEMICAL ROOM 101 (HYPOCHLORITE)**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451  
**M1A**



NORTH WALL PIPING ELEVATION

SCALE 1"=2'



ORTHOPHOSPHATE ROOM PLAN

SCALE 1"=2'

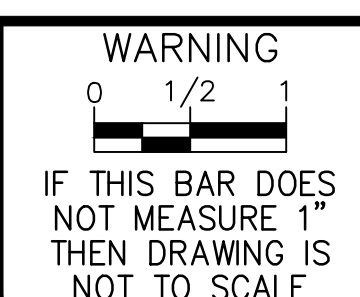


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DRAWN TLA/FH  
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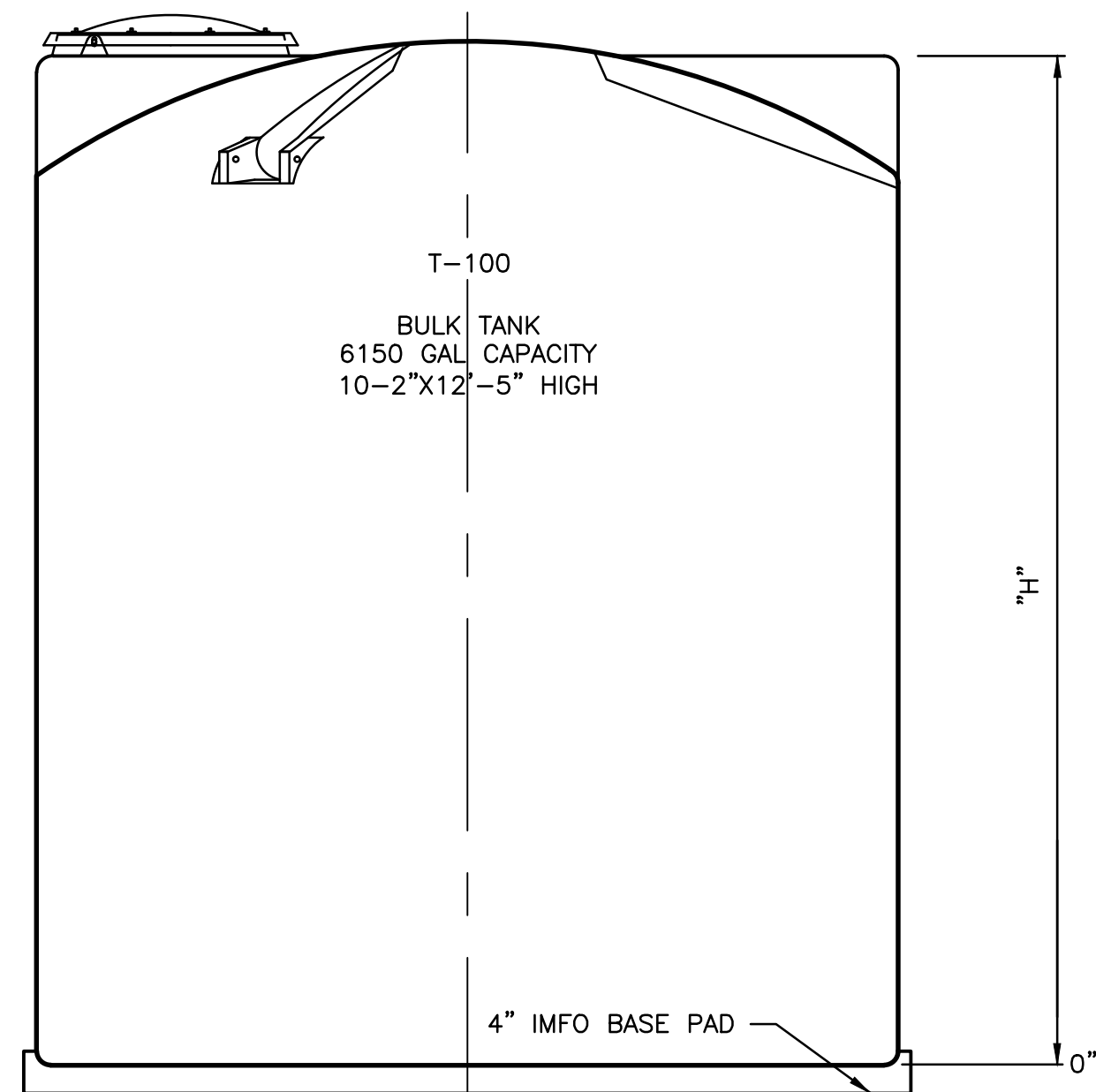
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**Pueblo Water Resources**  
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Ventura, CA 93003  
(805) 644-0470

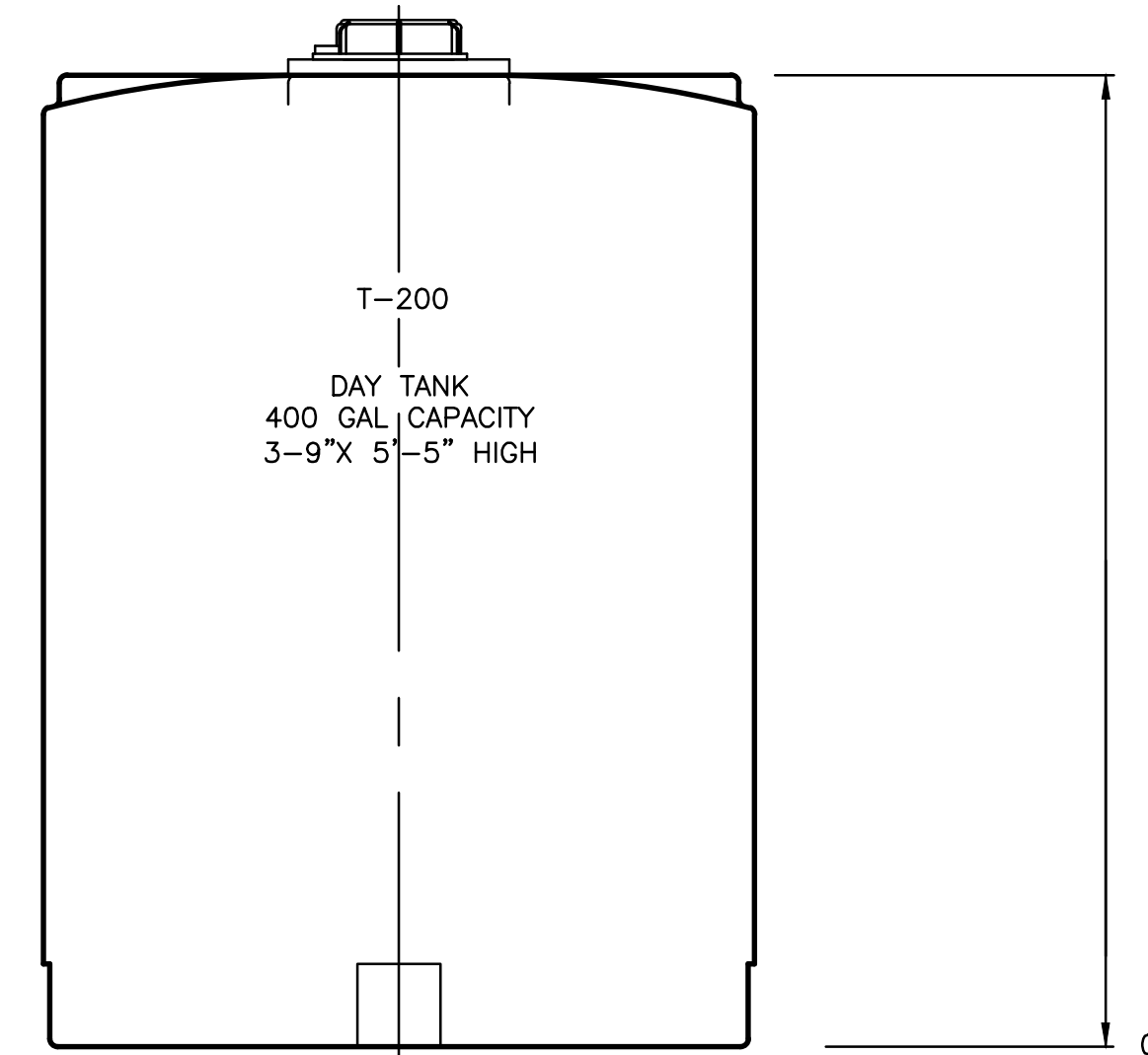
**CHEMICAL ROOM 102 (PO4)**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO.  
W.O. 0451  
**M1B**



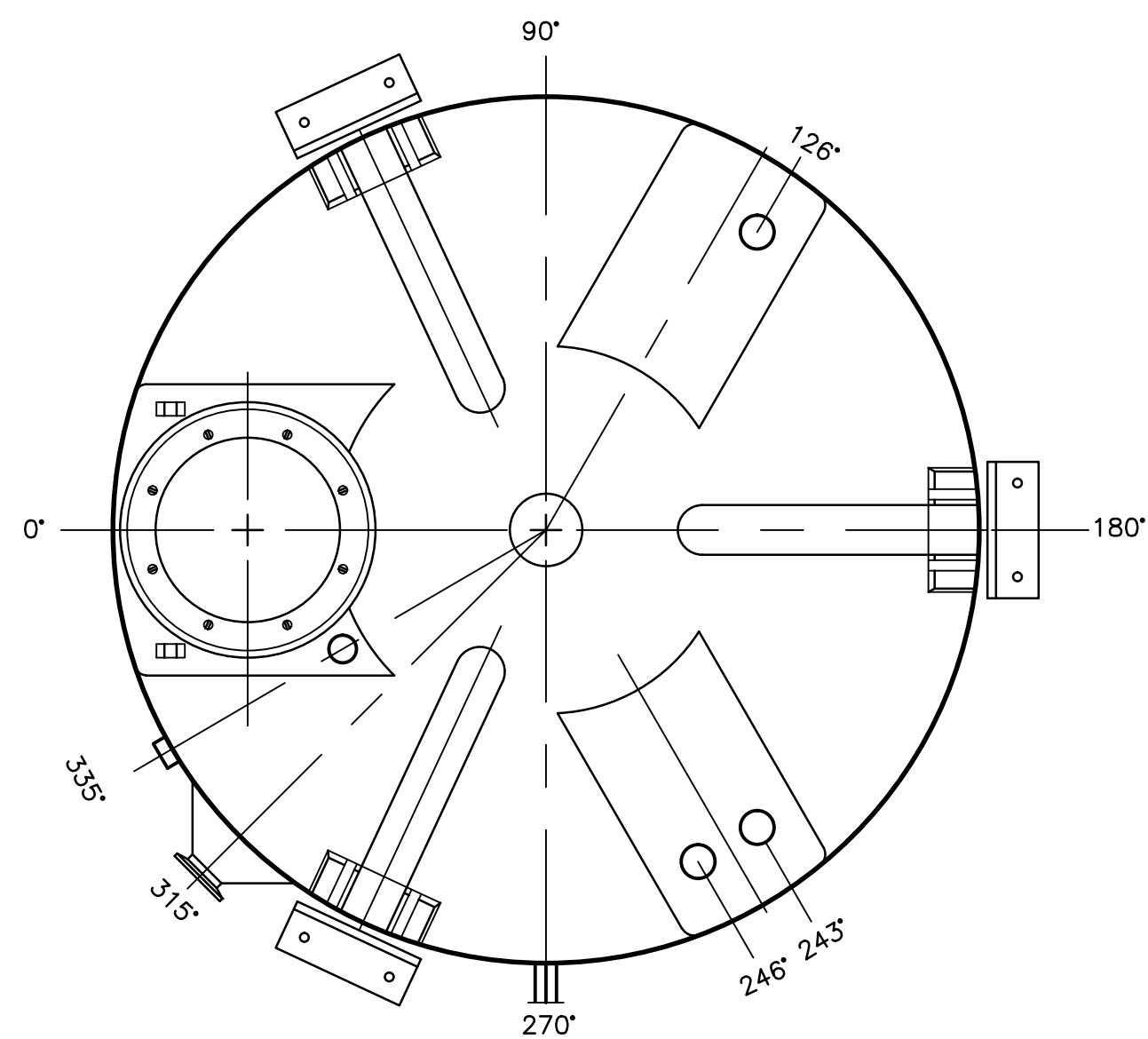
Hypochlorite Bulk Tank

Item	Location
Tank Name	Hypochlorite Bulk Tank
Tag #	T-100
Contents	12.5% Sodium Hypochlorite Solution
Liquid Properties	10.2 #/gal.; 1.22 SG, Freezing point (-20°F)
Dimensions	10'-2" Dia. X 12'-6" H
Volume	6150 gal.
Material	Ultra High Density Polyethylene (XLPE)
Lining	OR-1000 antioxidant protective liner
Features	4" flush molded drain, FRP ladder, 4" base pad, seismic tiedown anchors, 24" bolted manway
Stock Number	Poly Processing Co #1000400



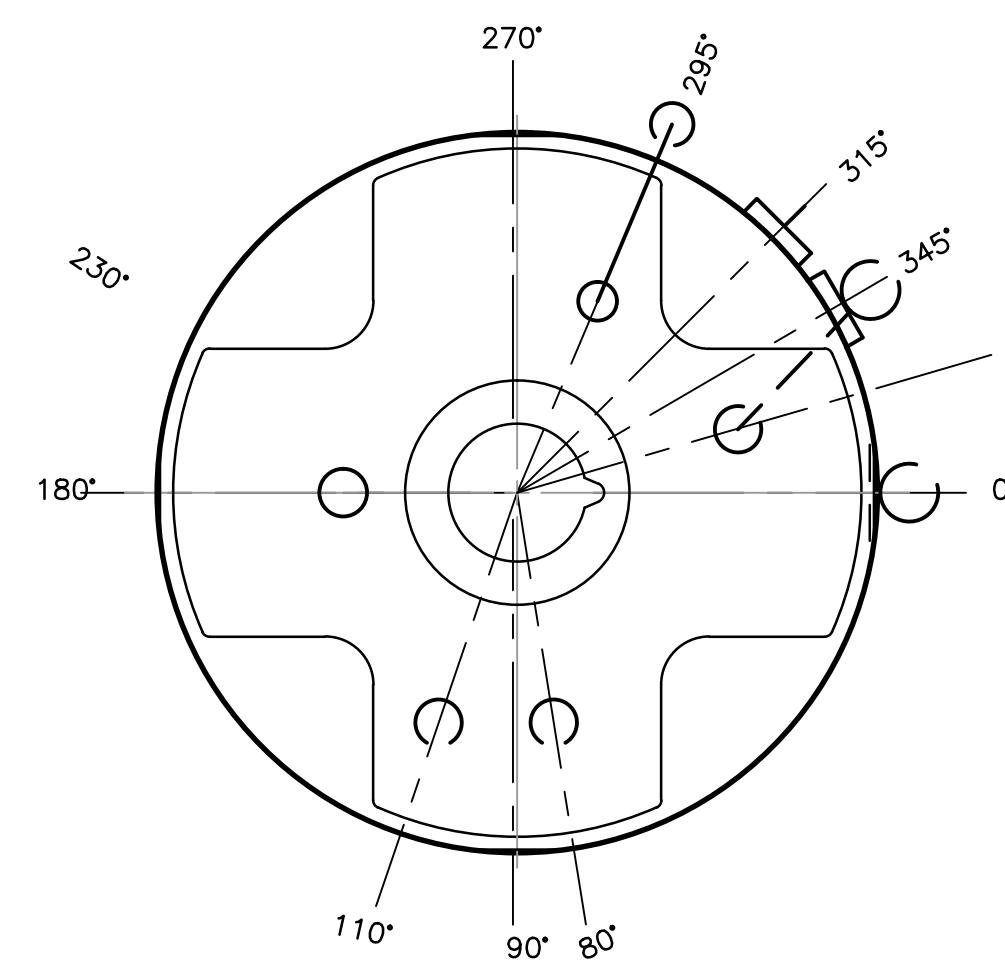
Hypochlorite Day Tank

Item	Location
Tank Name	Hypochlorite Day Tank
Tag #	T-200
Contents	12.5% Sodium Hypochlorite Solution
Liquid Properties	10.2 #/gal.; 1.22 SG, Freezing point (-20°F)
Dimensions	45" Dia. X 5'-2" H
Volume	400 gal.
Material	Ultra High Density Polyethylene (XLPE)
Lining	OR-1000 antioxidant protective liner
Features	Seismic tiedown anchors
Stock Number	Poly Processing Co #1000400



Hypochlorite Bulk Tank - Nozzle Schedule

Item	Size	Ftg. Type	Orientation (degrees)	Height	Radius (from Roof Center)	Location
Fill line	2"	Fig.	126	-	4'-4"	Roof
Overflow	3"	Fig.	234	+10'-2"	-	Side
Vent	4"	Bulkhead	246	-	4'-4"	Roof
Flush Drain	4"	Fig.	315	0"	-	Side
Level Transmitter	3"	Fig.	335	-	4'-4"	Roof
Level Indicator (L)	2"	Fig.	335	+6"	-	Side
Level Indicator (U)	2"	Fig.	335	-	4'-8"	Roof
HLL Alarm Switch	2"	Fig.	-	-	-	Roof
Manway	24"	Bolted	0	-	3'-6"	Roof
Pump Suction	2"	Fig.	270	+6"	-	Side



Hypochlorite Day Tank - Nozzle Schedule

Item	Size	Ftg. Type	Orientation (degrees)	Height	Radius (from Roof Center)	Location
Fill line	2"	Fig.	80	-	18"	Roof
Overflow	2-1/2"	Fig.	0	+6'-6"	-	Side
Vent	2"	Bulkhead	110	-	18"	Roof
Drain	2"	Fig.	230	+2"	-	Side
Level Transmitter	3"	Fig.	180	-	18"	Roof
Level Gauge	2"	Fig.	295	+6"	13"	Roof+Side
Access Port	7"	Threaded	0	-	0"	Roof
Metering Pump Suction	2"	Fig.	315	+2"	-	Side
Return	1"	Bulkhead	345	-	13"	roof

BULK TANK PLAN  
SCALE 1"=2'

DAY TANK PLAN  
SCALE 1"=2'



DATE SIGNED \_\_\_\_\_

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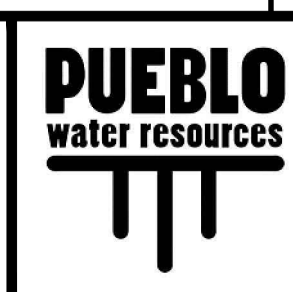
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08-05-19			ISSUED FOR BID

SCALE:  
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VER. N/A

WARNING  
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED SPT  
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CHECKED SPT

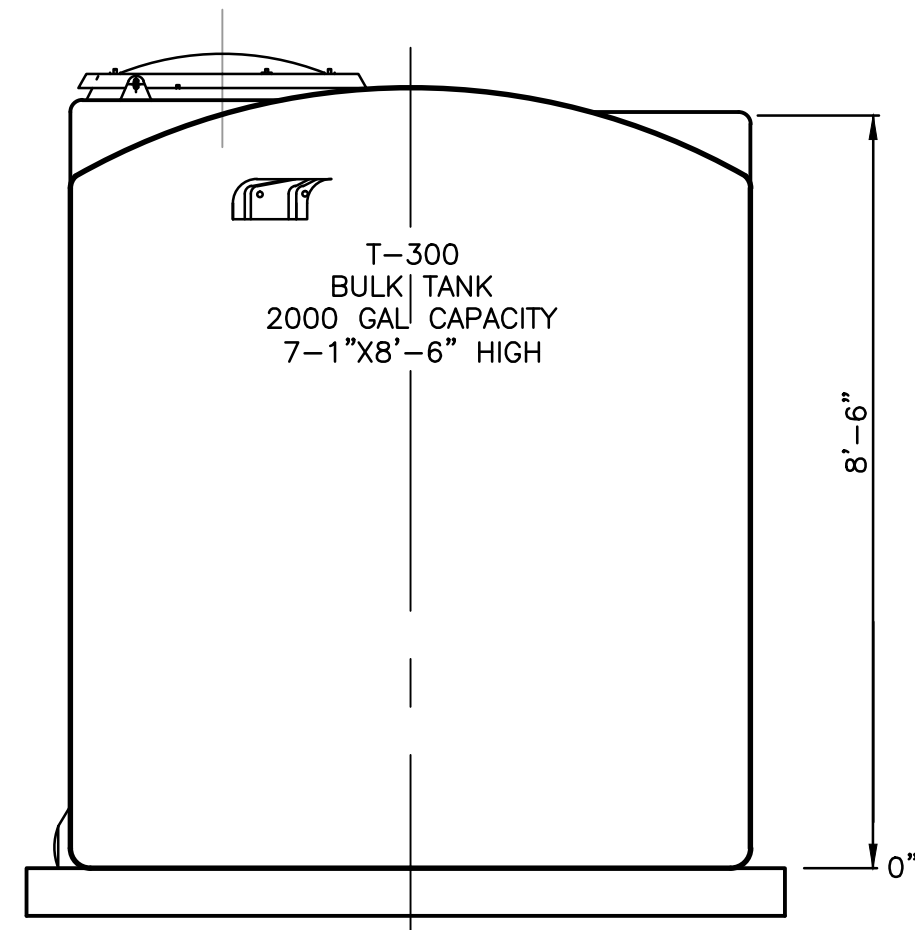
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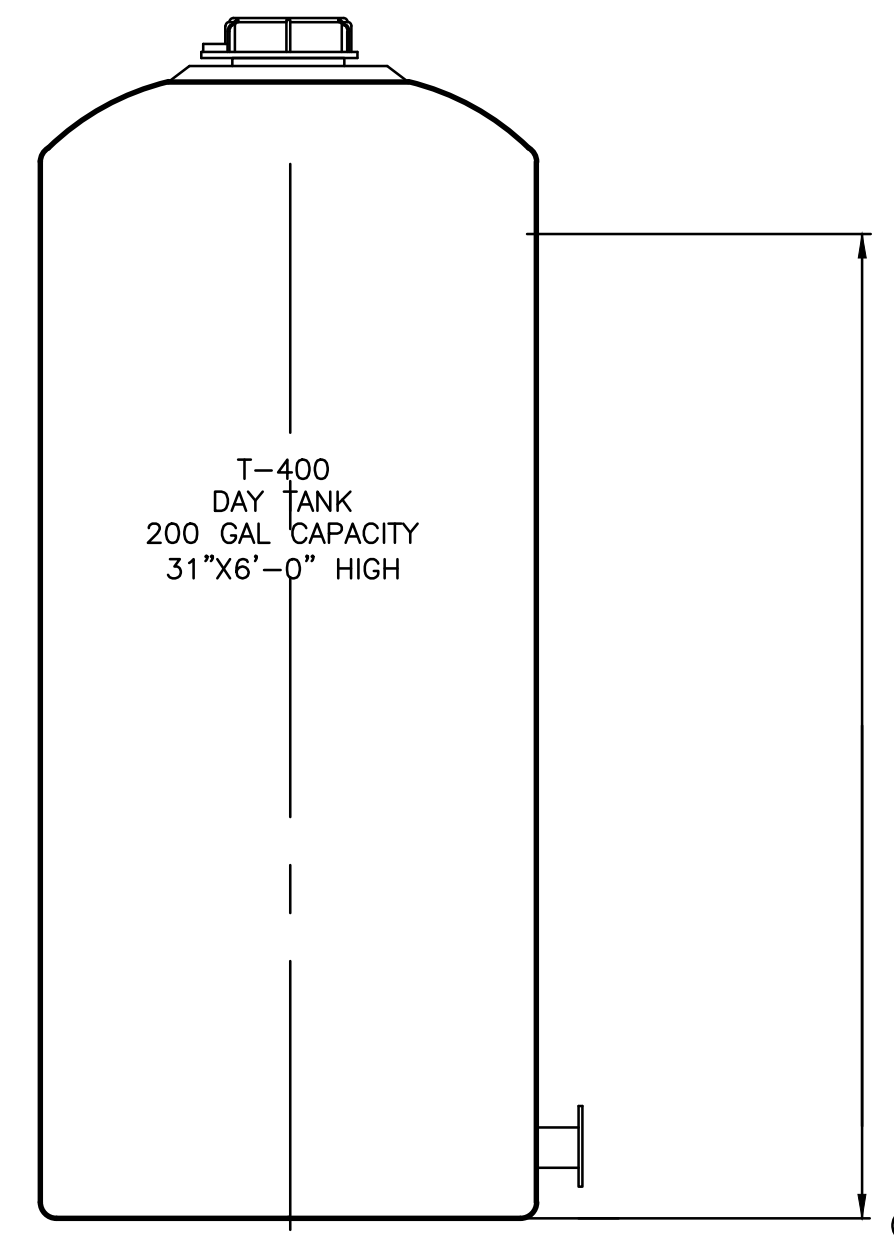
**CHEMICAL ROOM 101 TANK DETAILS**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451  
**M2A**



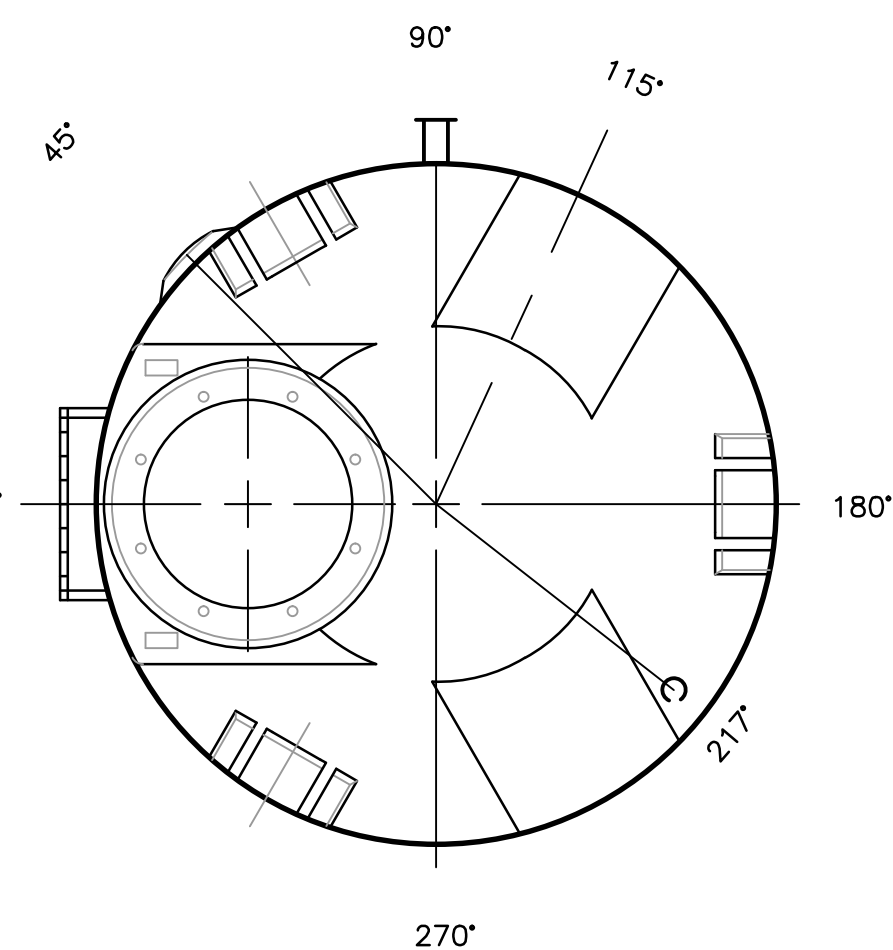
**ORTHOPHOSPHATE BULK TANK**

Item	Location
Tank Name	Orthophosphate Bulk Tank
Tag #	T-300
Contents	29% Orthophosphate (Carus 4500)
Liquid Properties	10.2 #/gal.; 1.22 SG, Freezing point (-20°F)
Dimensions	7'-1" Dia. X 8'-6" H
Volume	2000 gal.
Material	Ultra High Density Polyethylene (XLPE)
Lining	None
Features	4" flush molded drain, FRP ladder, 4" base pad, seismic tiedown anchors, 24" bolted manway
Stock Number	Poly Processing Co #1102000



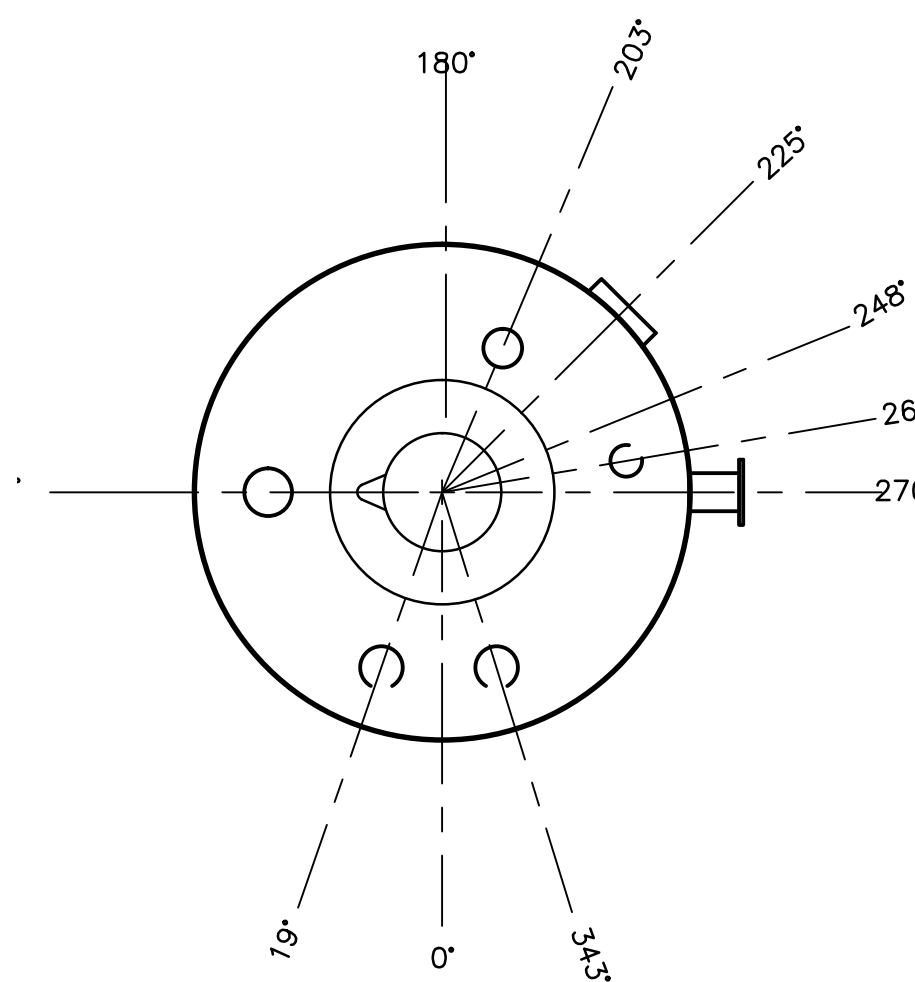
**ORTHOPHOSPHATE DAY TANK**

Item	Location
Tank Name	Orthophosphate Day Tank
Tag #	T-400
Contents	29% Orthophosphate (Carus 4500)
Liquid Properties	11.0 #/gal.; 1.32 SG, Freezing point (30°F)
Dimensions	31" Dia. X 6'-0" H
Volume	200 gal.
Material	Ultra High Density Polyethylene (XLPE)
Lining	None
Features	Seismic tiedown anchors
Stock Number	Poly Processing Co #1000205



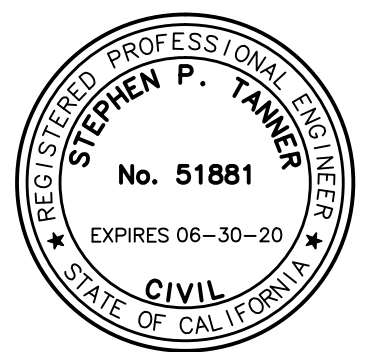
**ORTHOPHOSPHATE BULK TANK - NOZZLE SCHEDULE**

Item	Size	Ftg. Type	Orientation (degrees)	Height	Radius (from Roof Center)	Location
Fill line	2"	Flg.	230	-	2'-10"	Roof
Overflow	3"	Flg.	125	+7'-0"	-	Side
Vent	4"	Bulkhead	125	-	2'-10"	Roof
Flush Drain	4"	Flg.	45	0"	-	Side
Level Transmitter	3"	Flg.	235	-	2'-10"	Roof
Level Indicator (L)	2"	Flg.	310	+6"	-	Side
Level Indicator (U)	2"	Flg.	310	-	1'-8"	Roof
HLL Alarm Switch	2"	Flg.	310	-	-	On Gauge
Manway	24"	Bolted	0	-	2'-0"	Roof
Pump Suction	2"	Flg.	90	+6"	-	Side



**ORTHOPHOSPHATE DAY TANK - NOZZLE SCHEDULE**

Item	Size	Ftg. Type	Orientation (degrees)	Height	Radius (from Roof Center)	Location
Fill line	2"	Flg.	338	-	10"	Roof
Overflow	2-1/2"	Flg.	238	+5'-2"	-	Side
Vent	2"	Bulkhead	12	-	10"	Roof
Drain	2"	Flg.	90	+2"	-	Side
Level Transmitter	3"	Flg.	82	-	9"	Roof
Level Gauge	2"	Flg.	137	6"	9"	Roof+Side
Access Port	7"	Threaded	0	-	0"	Roof
Metering Pump Suction	2"	Flg.	180	+2"	-	Side
Return	1"	Bulkhead	15	-	10"	Roof



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VER. N/A

**WARNING**

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DESIGNED SPT

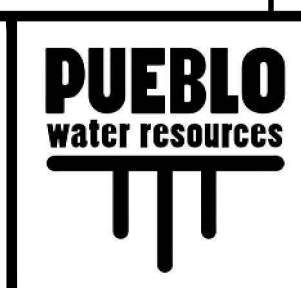
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**CHEMICAL ROOM 102 TANK DETAILS**

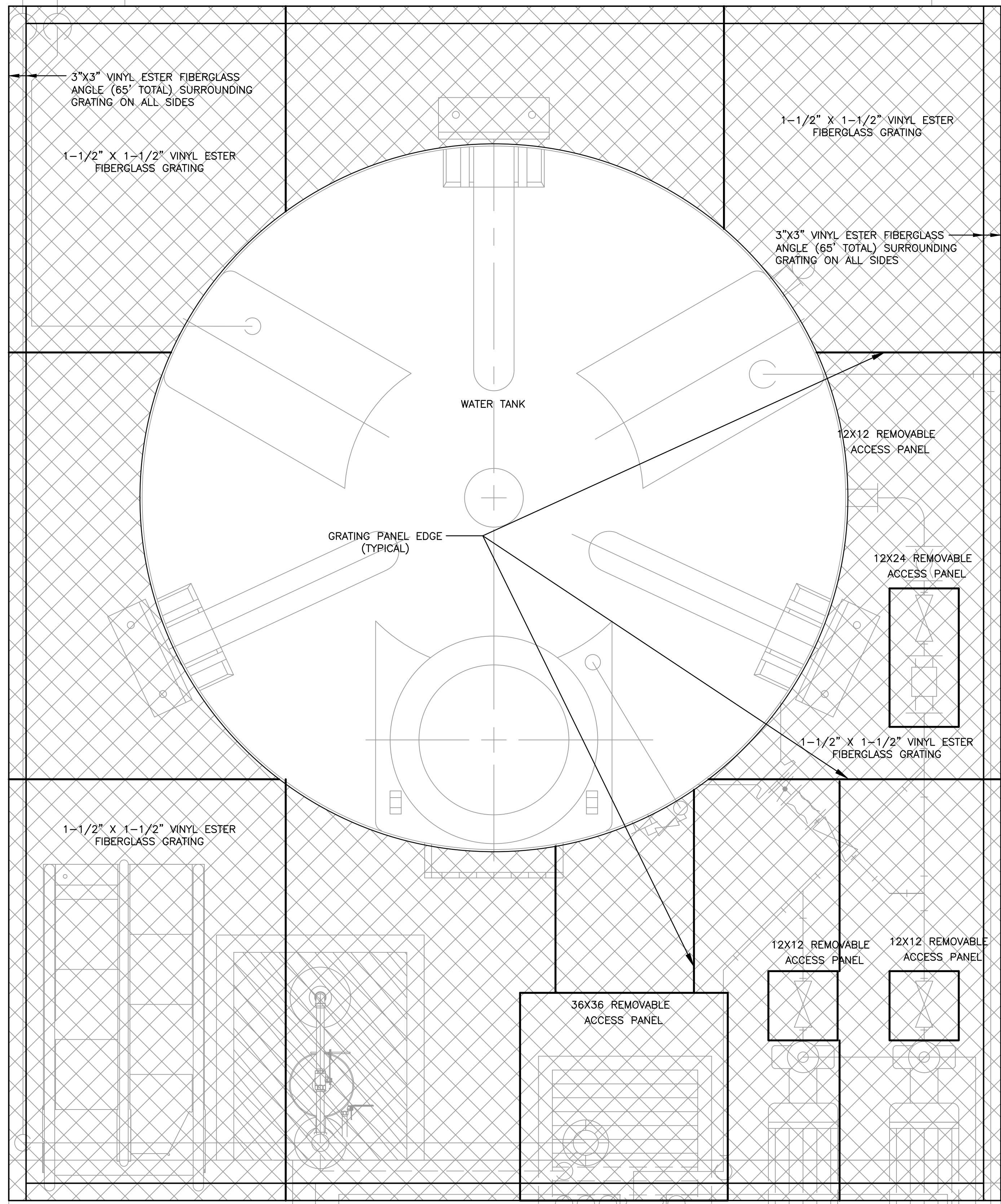
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**

SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451

**M2B**

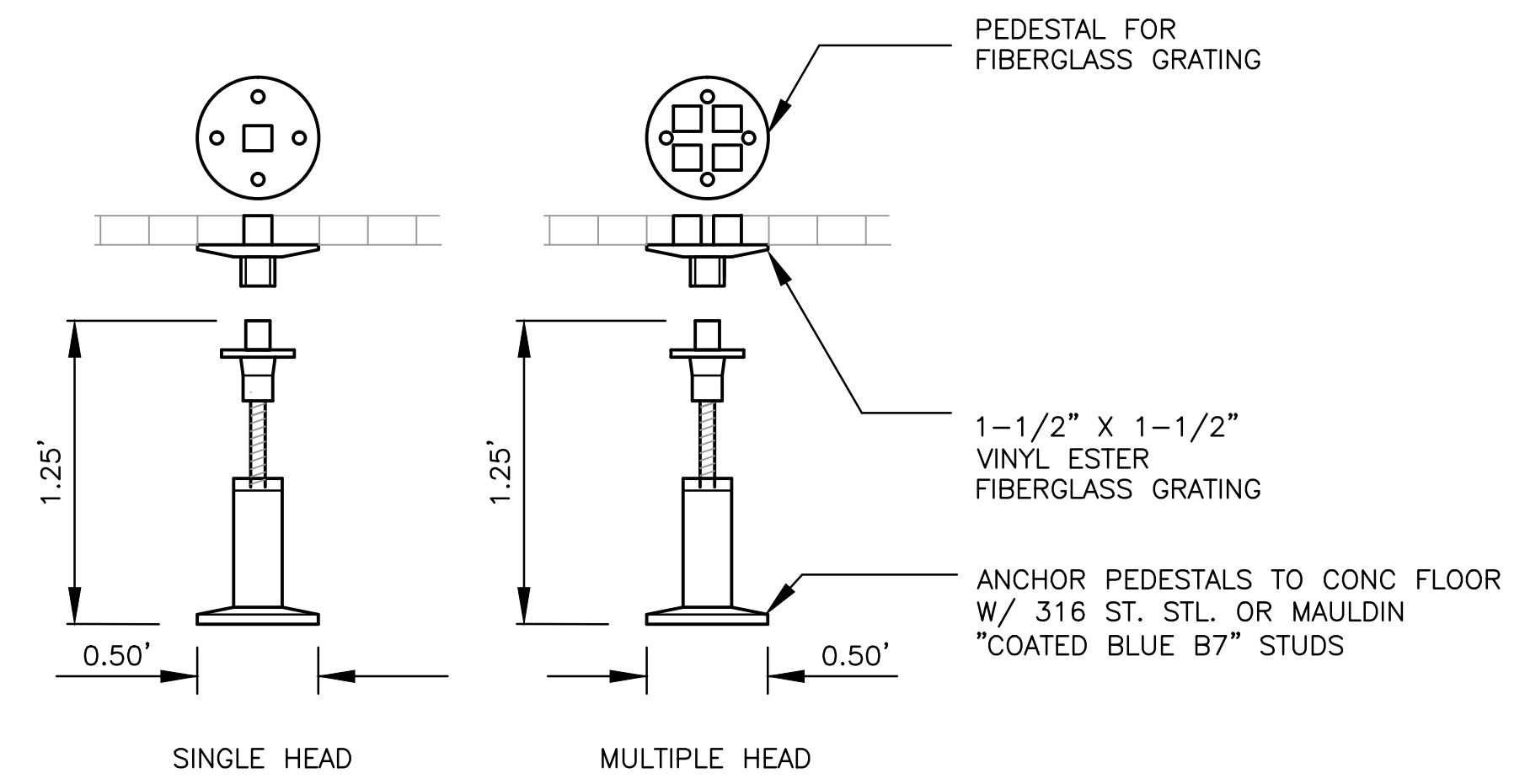




FLOOR GRATING PLAN

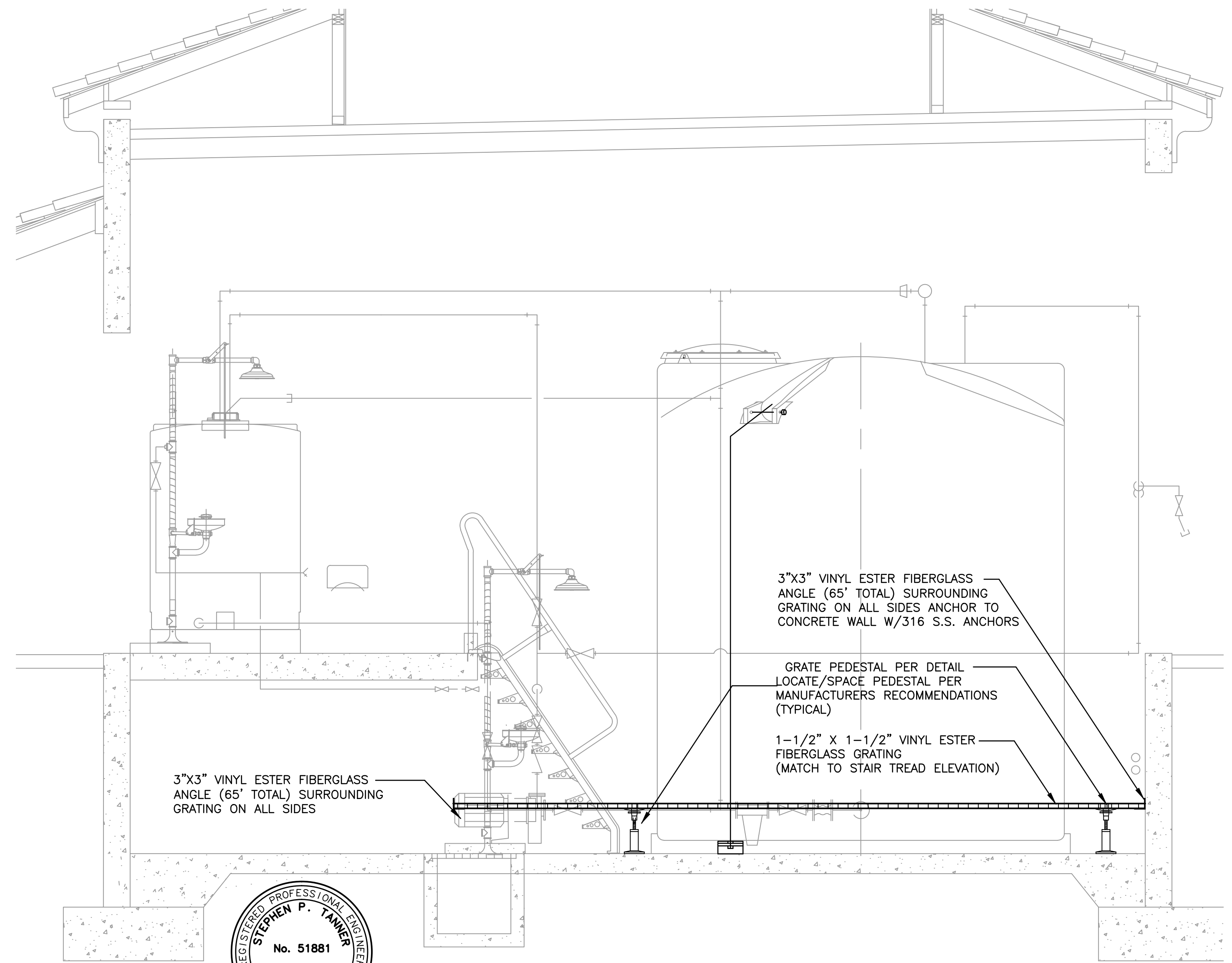
NO SCALE

NOTE:  
GRATING TO BE PROVIDED FOR CHEMICAL ROOMS 101 & 102 NOT FOR ROOM 103



GRATE PEDESTAL DETAILS

NTS



FLOOR GRATING SECTION

NO SCALE



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SCALE:	HOR. N/A	VER. N/A
WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	
DESIGNED	SPT	
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REV	DATE	DESCRIPTION
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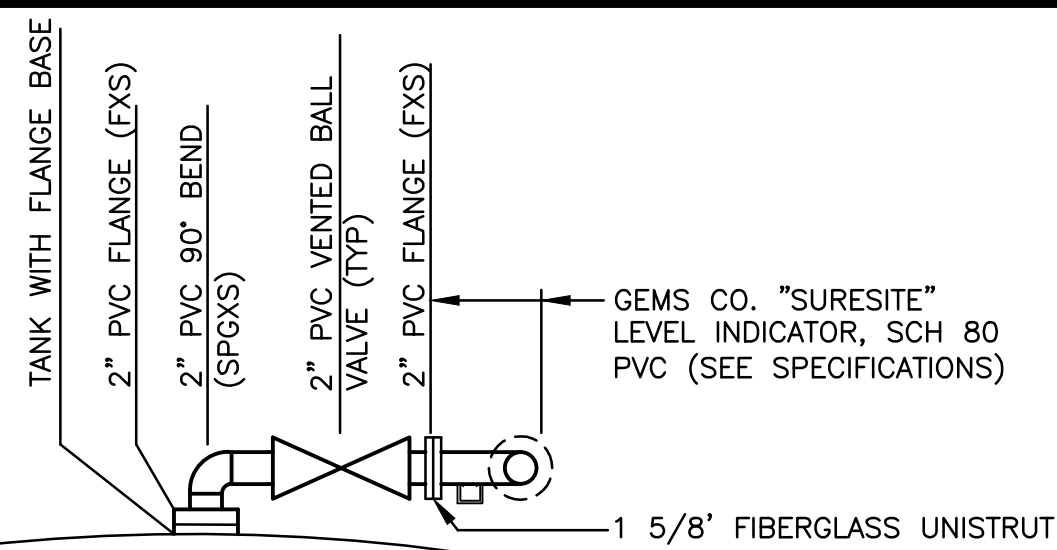


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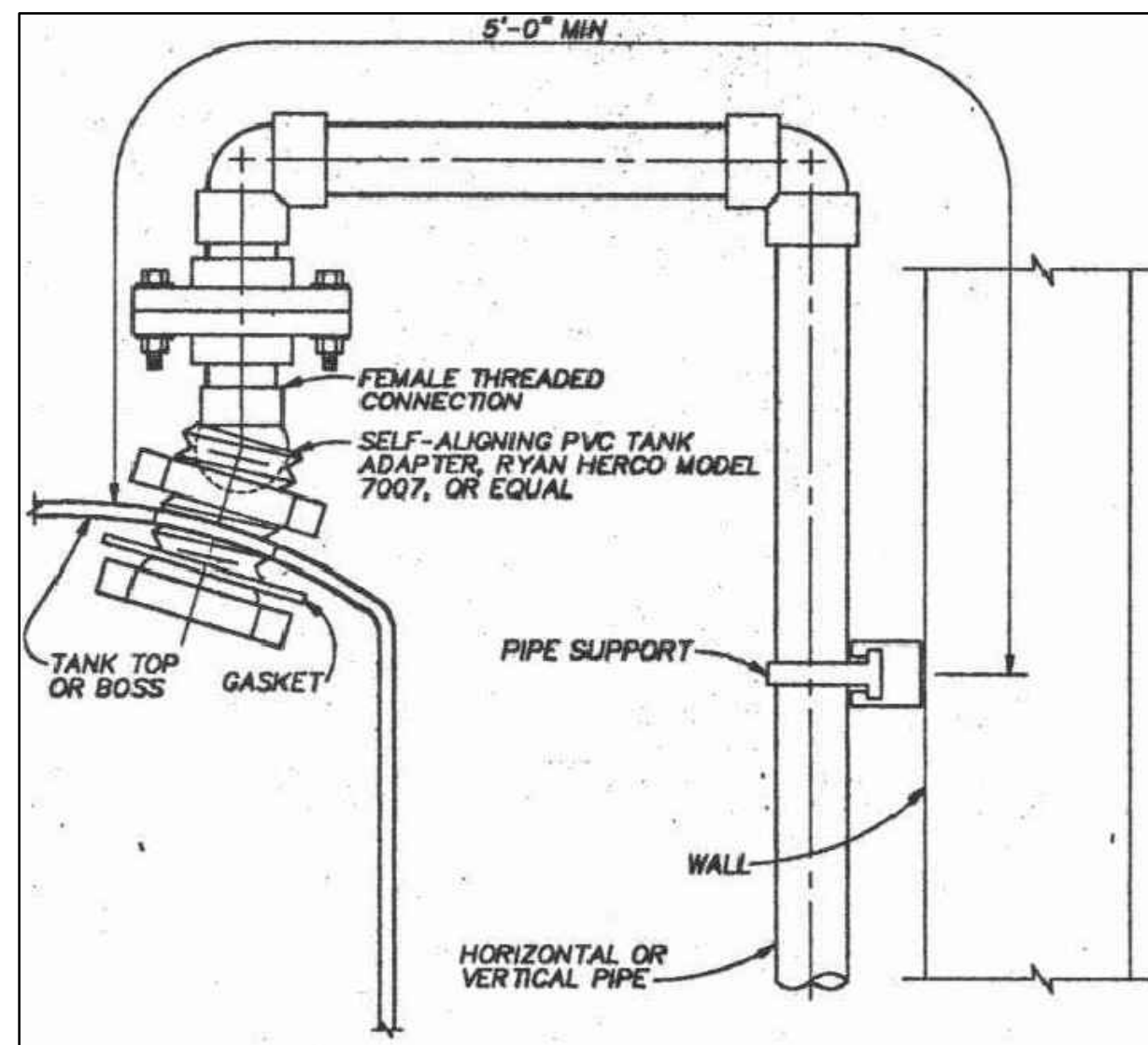
**TYPICAL CHEMICAL ROOM GRATING PLAN**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
 SANTA MARGARITA ASR FACILITY SITE EXPANSION  
 1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451

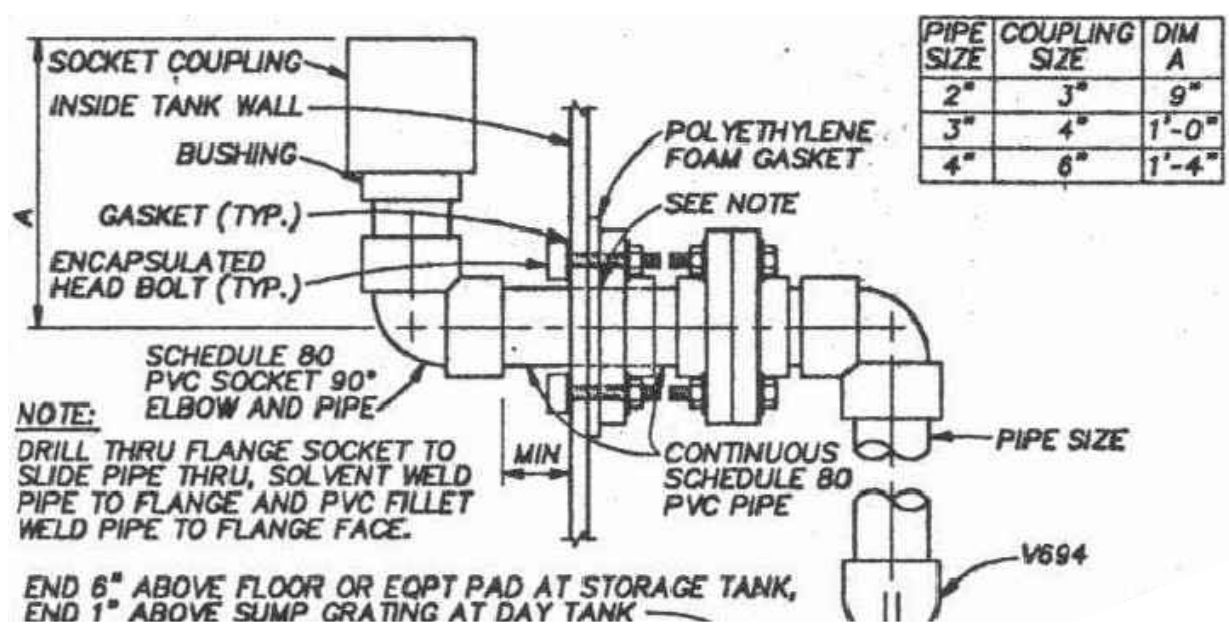
**M3**



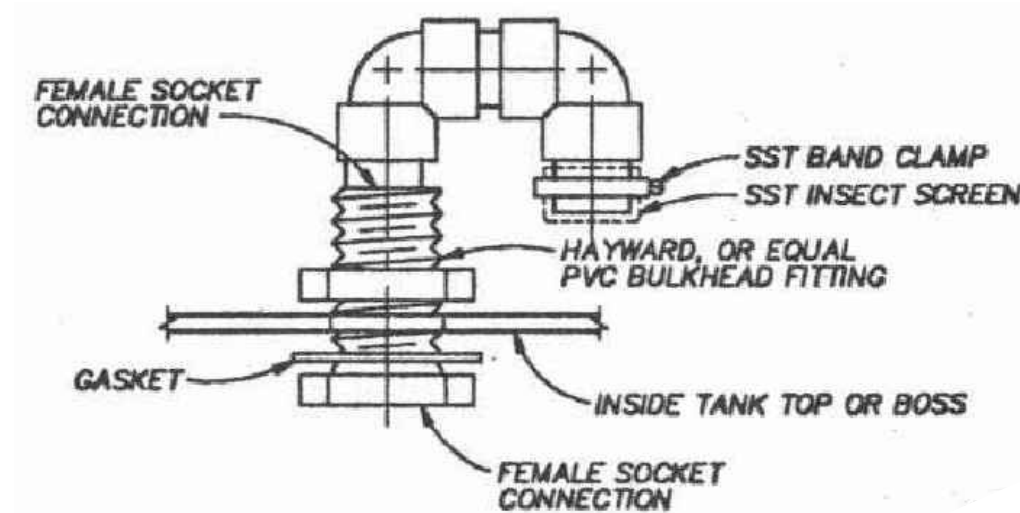
**C2** LOWER LEVEL INDICATOR CONNECTION  
M4 NO SCALE



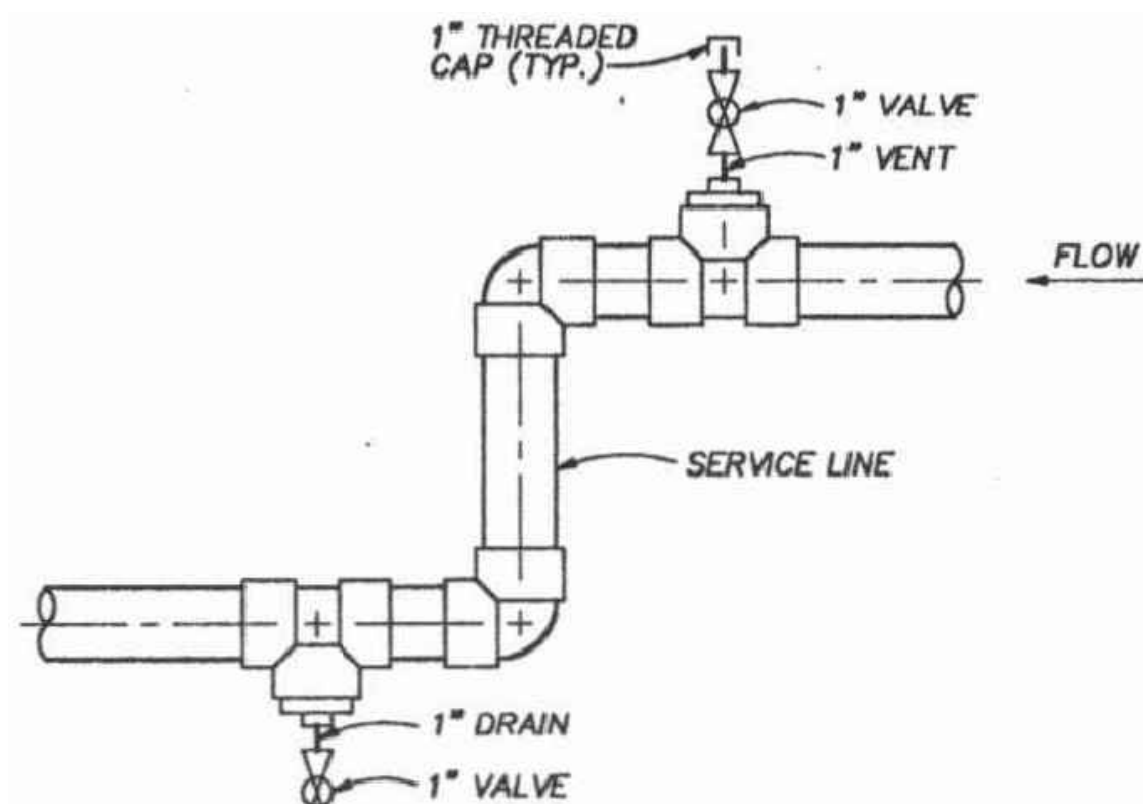
**C1** UPPER LEVEL INDICATOR CONNECTION  
M4 NO SCALE



**B** OVERFLOW PIPE  
M4 NO SCALE

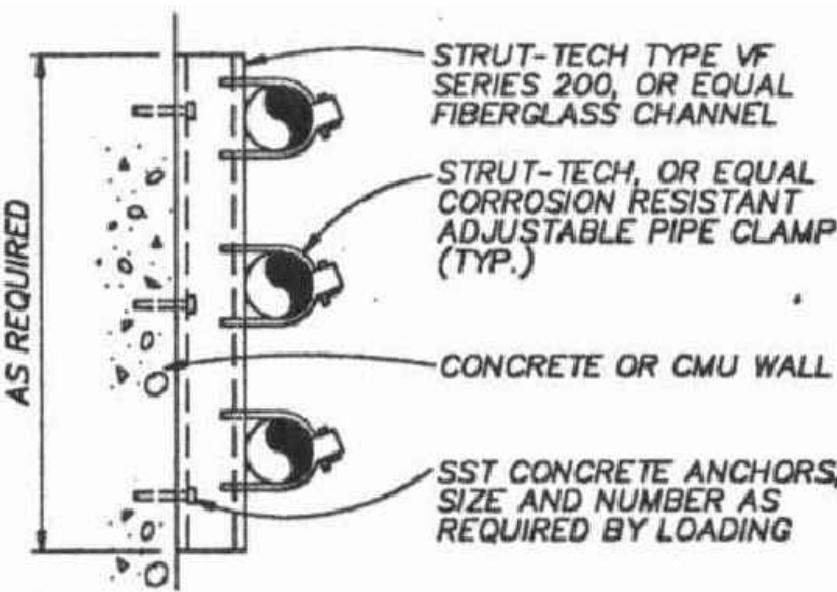


**A** GOOSENECK VENT  
M4 NO SCALE

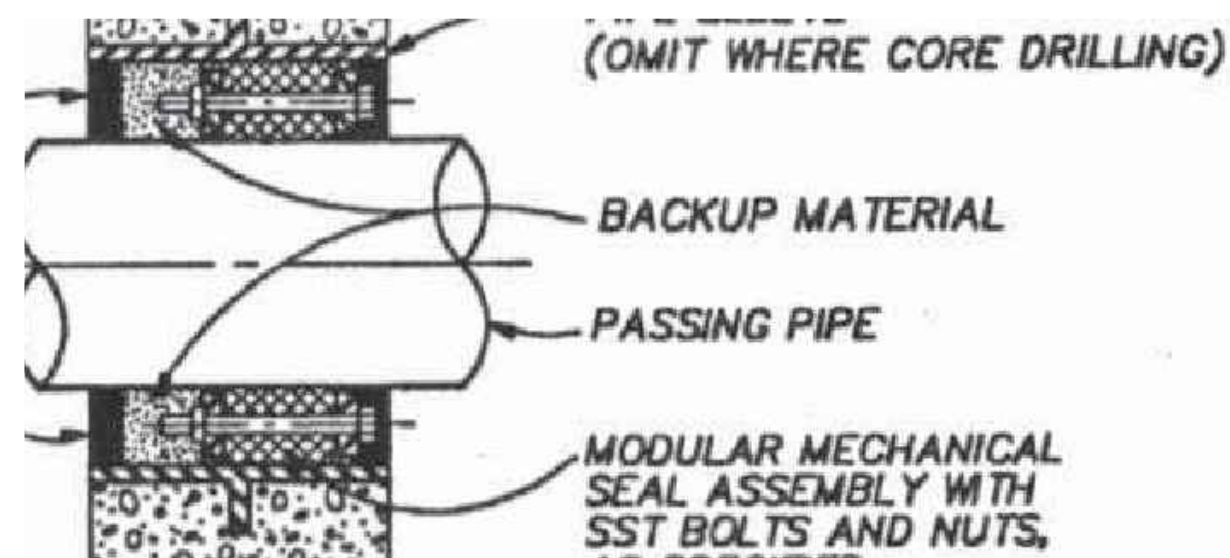


- NOTES:**
1. TYPICAL FOR ALL HIGH POINTS AND POCKETS.
  2. VENT AND DRAIN PIPING SHALL BE SAME SPEC AS SERVICE LINE PIPING.
  3. VENT AND DRAIN PIPING AND VALVES SHALL BE 1-INCH FOR SERVICE LINE SIZES 1-INCH AND LARGER AND SHALL BE SAME AS SERVICE LINE SIZE FOR SERVICE LINE SIZES LESS THAN 1-INCH.
  4. SEE VALVE SPECIFICATION FOR VALVE TYPES.

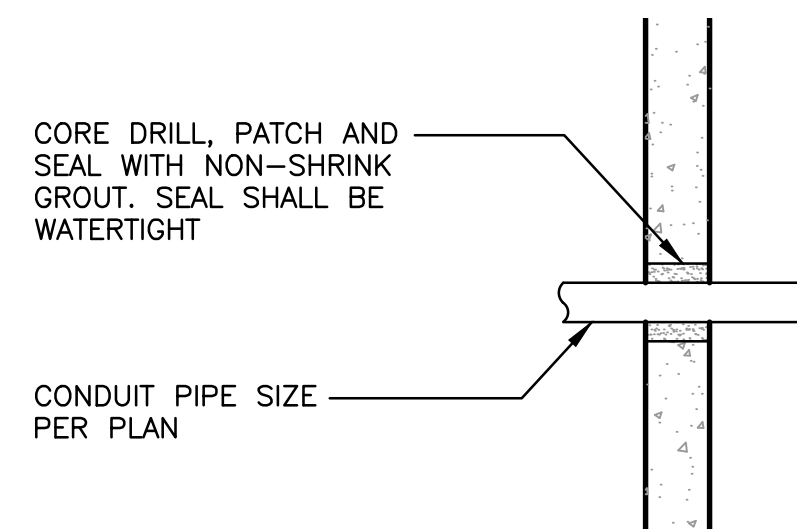
**H** PIPING VENTS AND DRAINS  
M4 NO SCALE



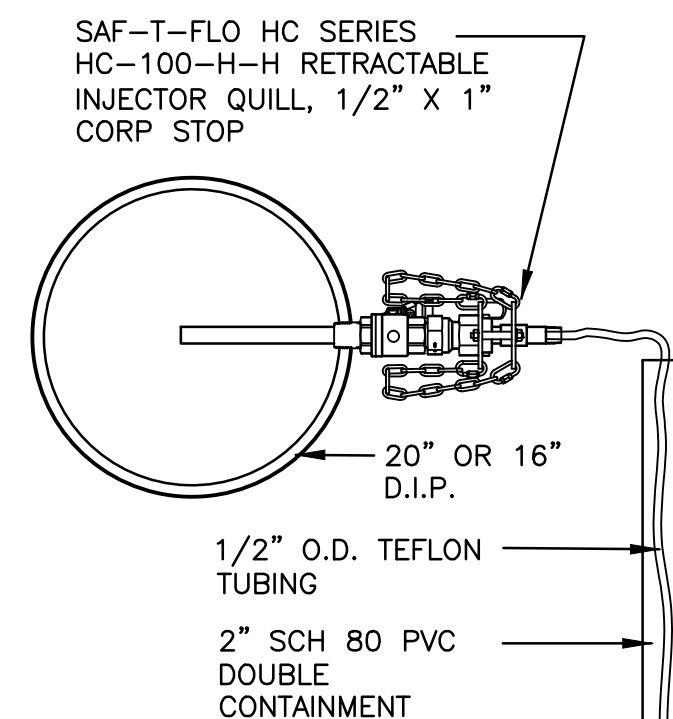
**F** STAKED PIPE WALL SYSTEM  
M4 NO SCALE



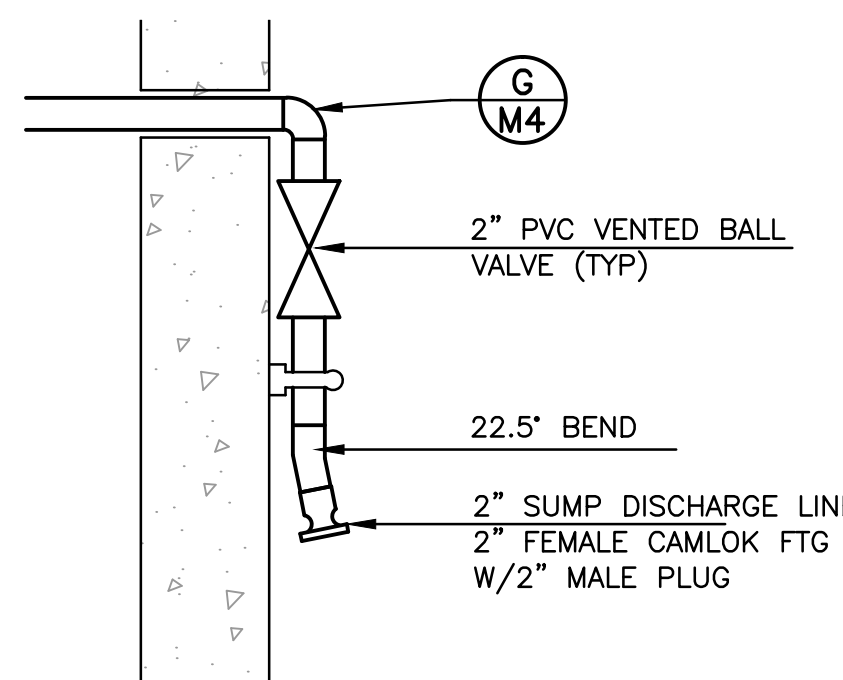
**D** WALL PENETRATION DETAIL  
M4 NO SCALE



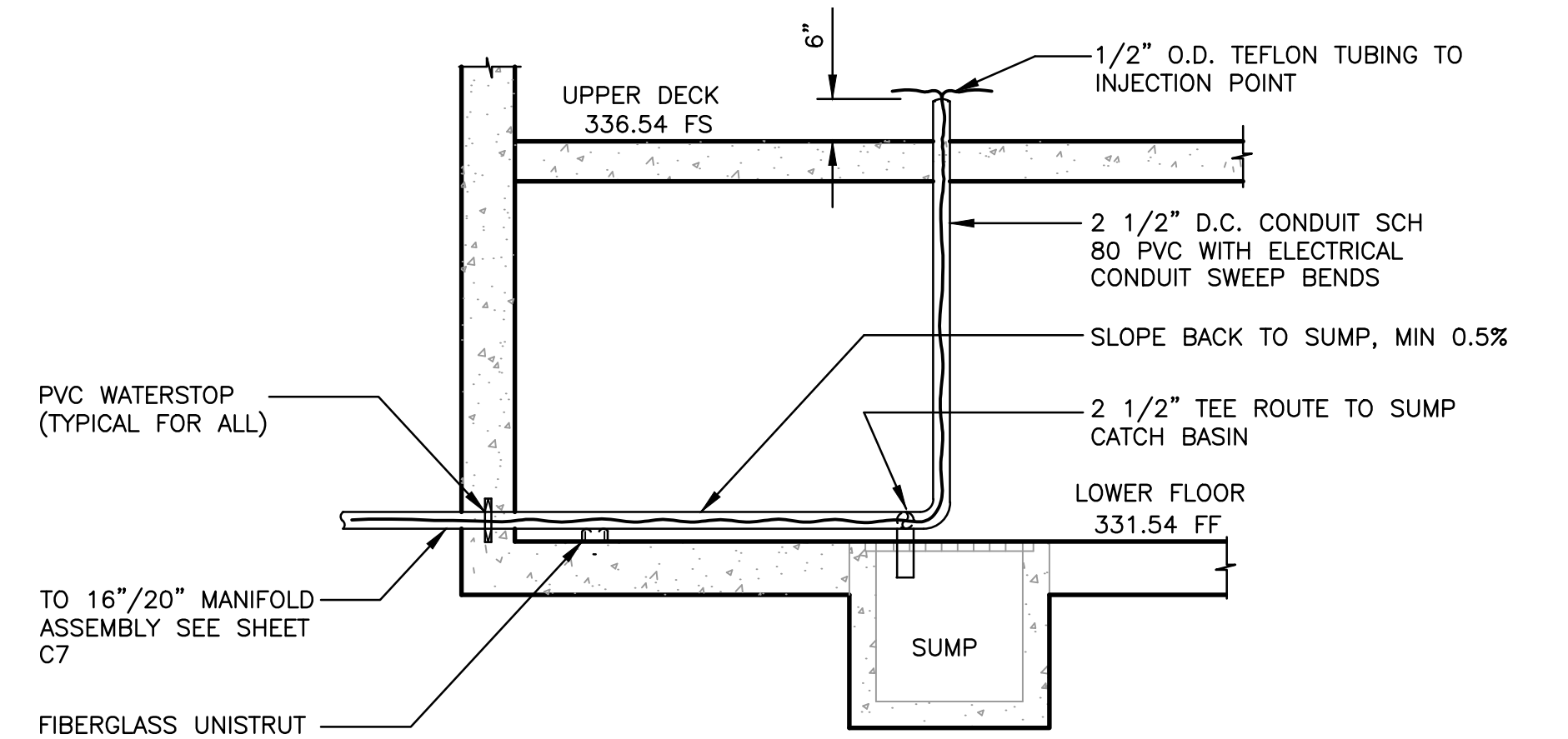
**G** TYPICAL CONDUIT PENETRATION DETAIL  
M4 SCALE 1"=1'



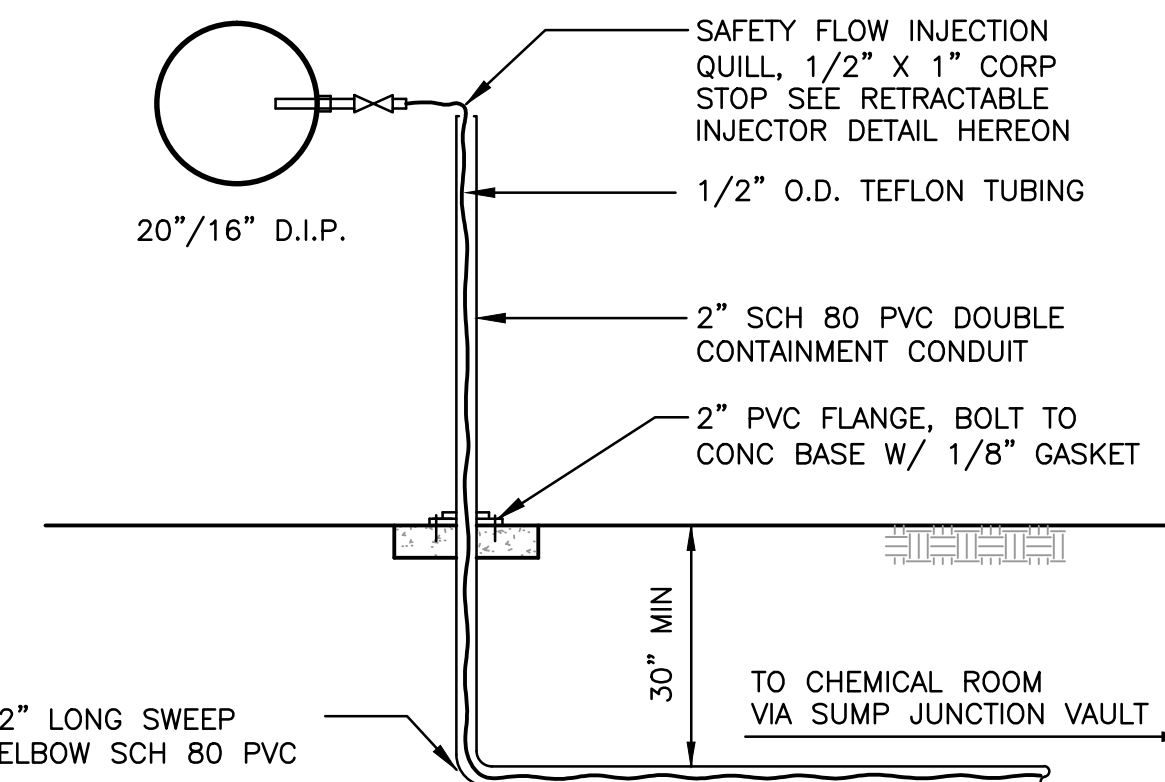
**I** RETRACTABLE INJECTOR DETAIL  
M4 SCALE 1"=1'



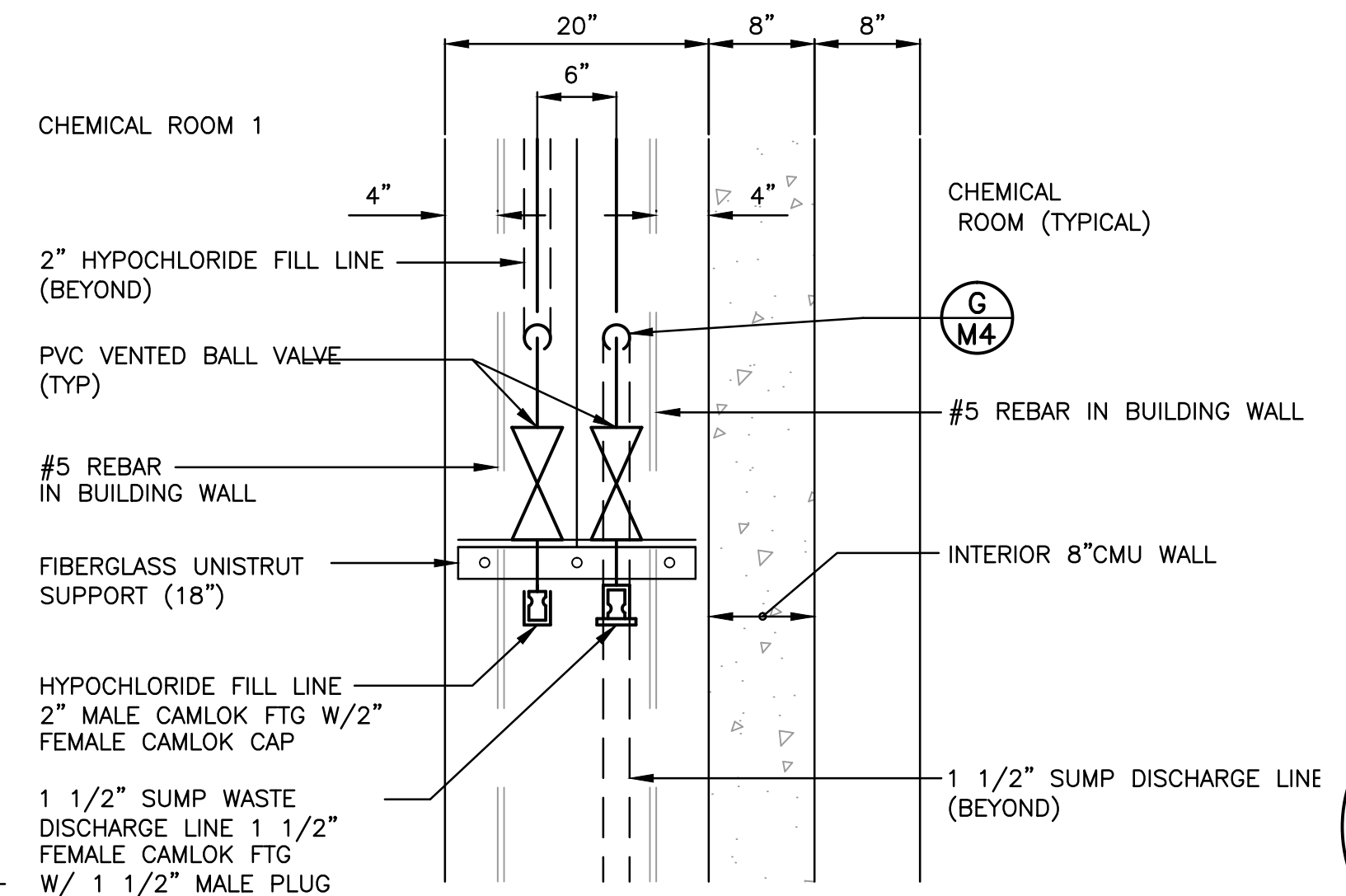
**D** TRUCK LOADING CONNECTION DETAIL  
M4 SCALE 1"=1'



**K** CHEMICAL FEED/DOUBLE CONTAINMENT INJECTOR DETAIL  
M4 SCALE 1"=2'



**J** CHEMICAL INJECTOR DETAIL  
M4 SCALE 1"=2'



**I** TRUCK LOADING CONNECTION DETAIL  
M4 SCALE 1"=1'



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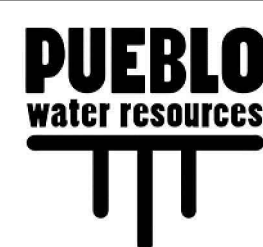
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08-05-19			ISSUED FOR BID

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VER. N/A

WARNING  
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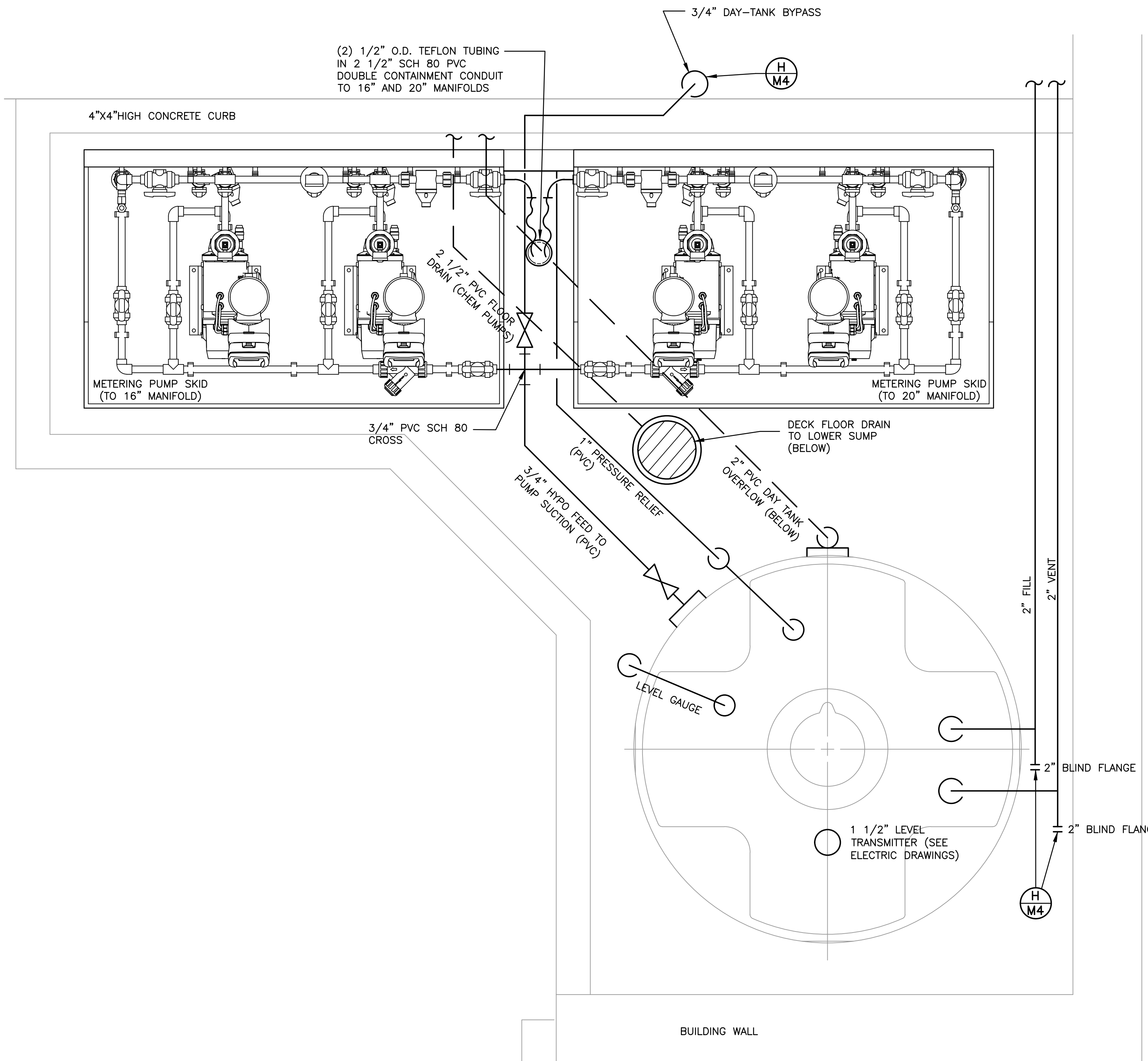


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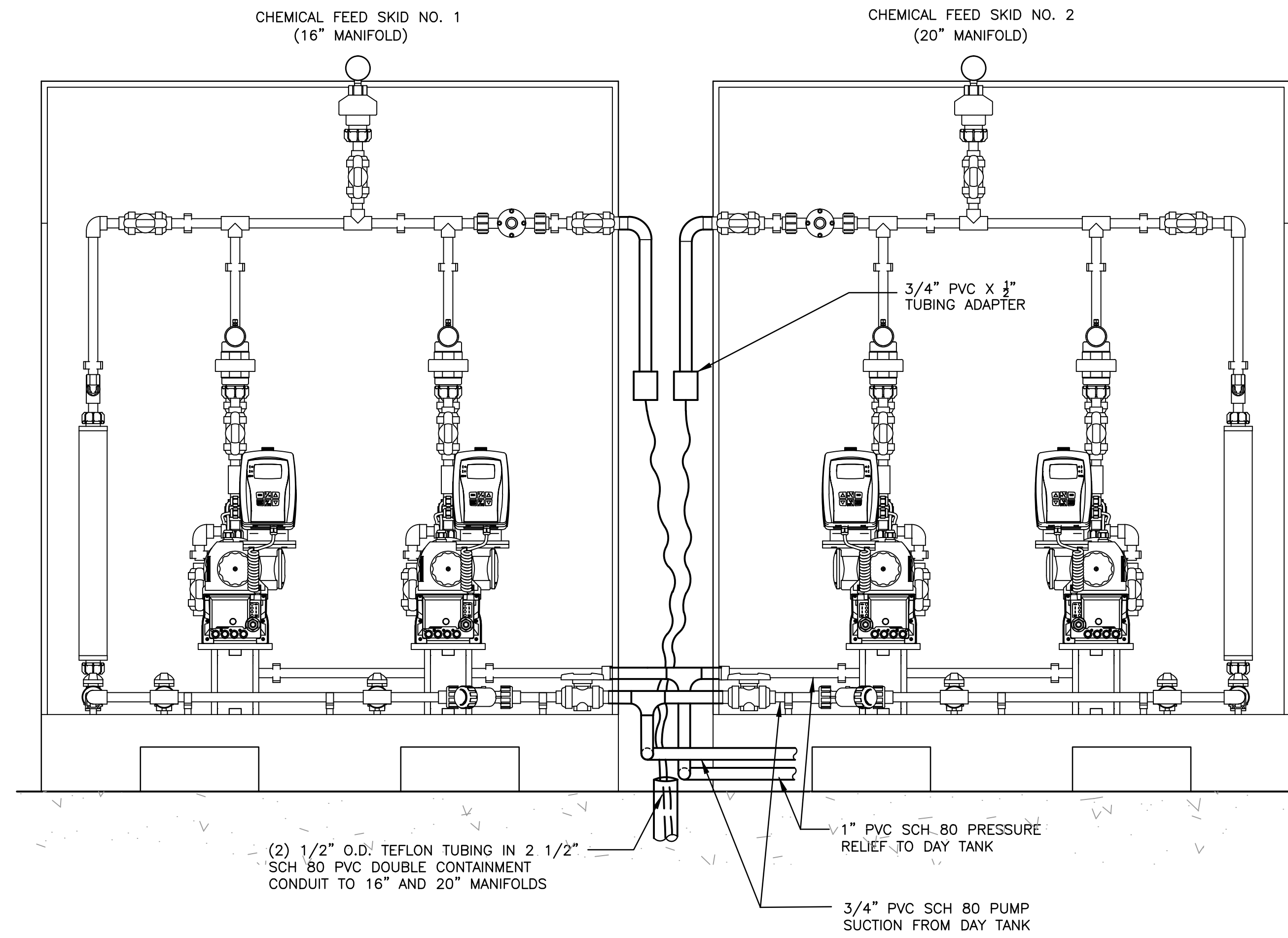
**CHEMICAL ROOM PIPING DETAILS**  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO.  
W.O. 0451

M4



**2** UPPER DECK PIPING DETAILS  
**M5** SCALE 1.5" = 1'



**2** CHEMICAL FEED SKID ASSEMBLY ELEVATION  
**M5** SCALE 1.5" = 1'



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SCALE:  
 HOR. 1" = 20'  
 VER. N/A

**WARNING**  
 0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED SPT  
 DRAWN TLA/FH  
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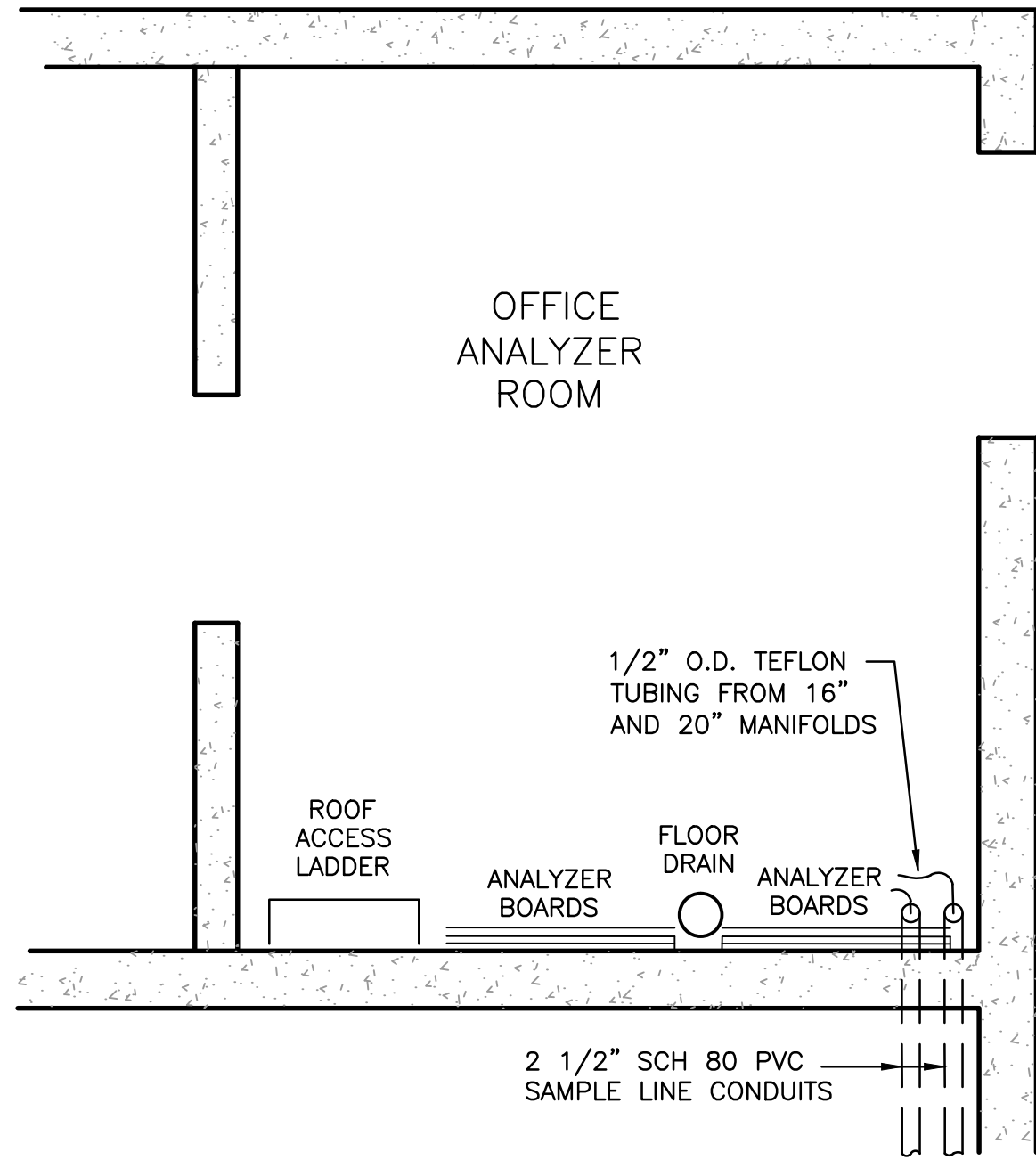
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**TYPICAL CHEMICAL ROOM PIPING**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
 SANTA MARGARITA ASR FACILITY SITE EXPANSION  
 1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO.  
 W.O. 0451  
**M5**

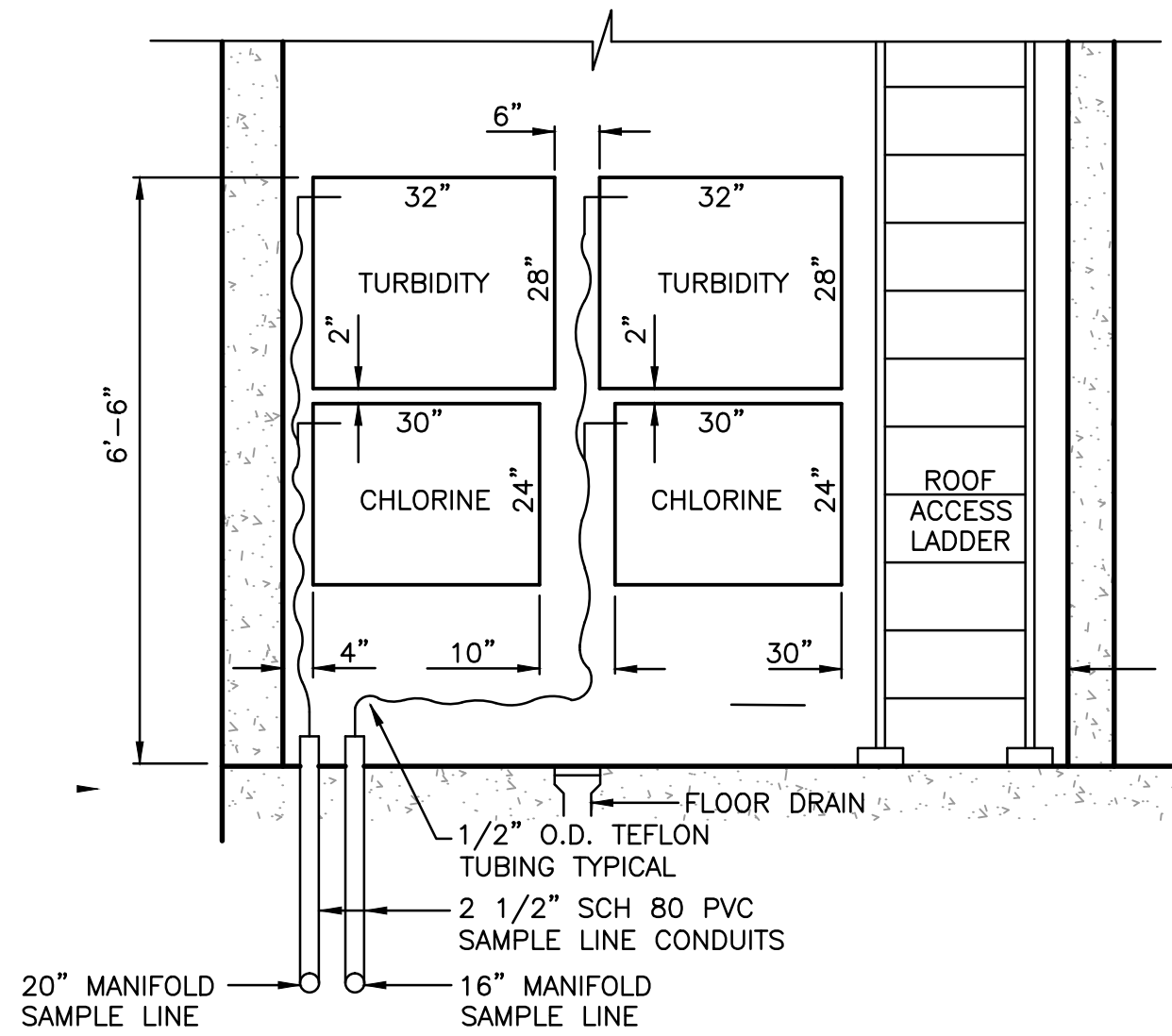
ELECTRIC ROOM

OFFICE ANALYZER ROOM



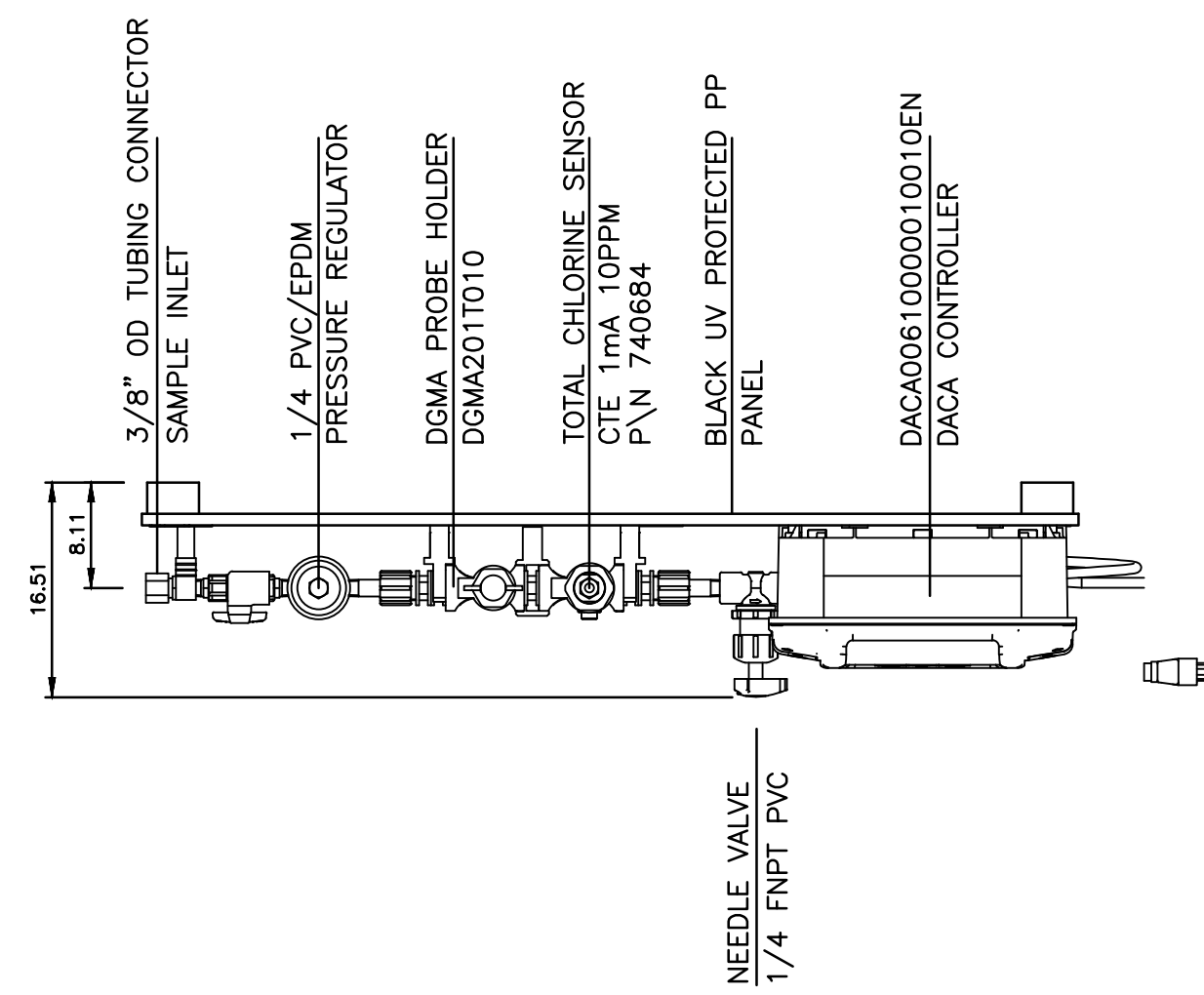
ANALYZER ROOM SOUTH WALL PLAN

SCALE: 1"=2'



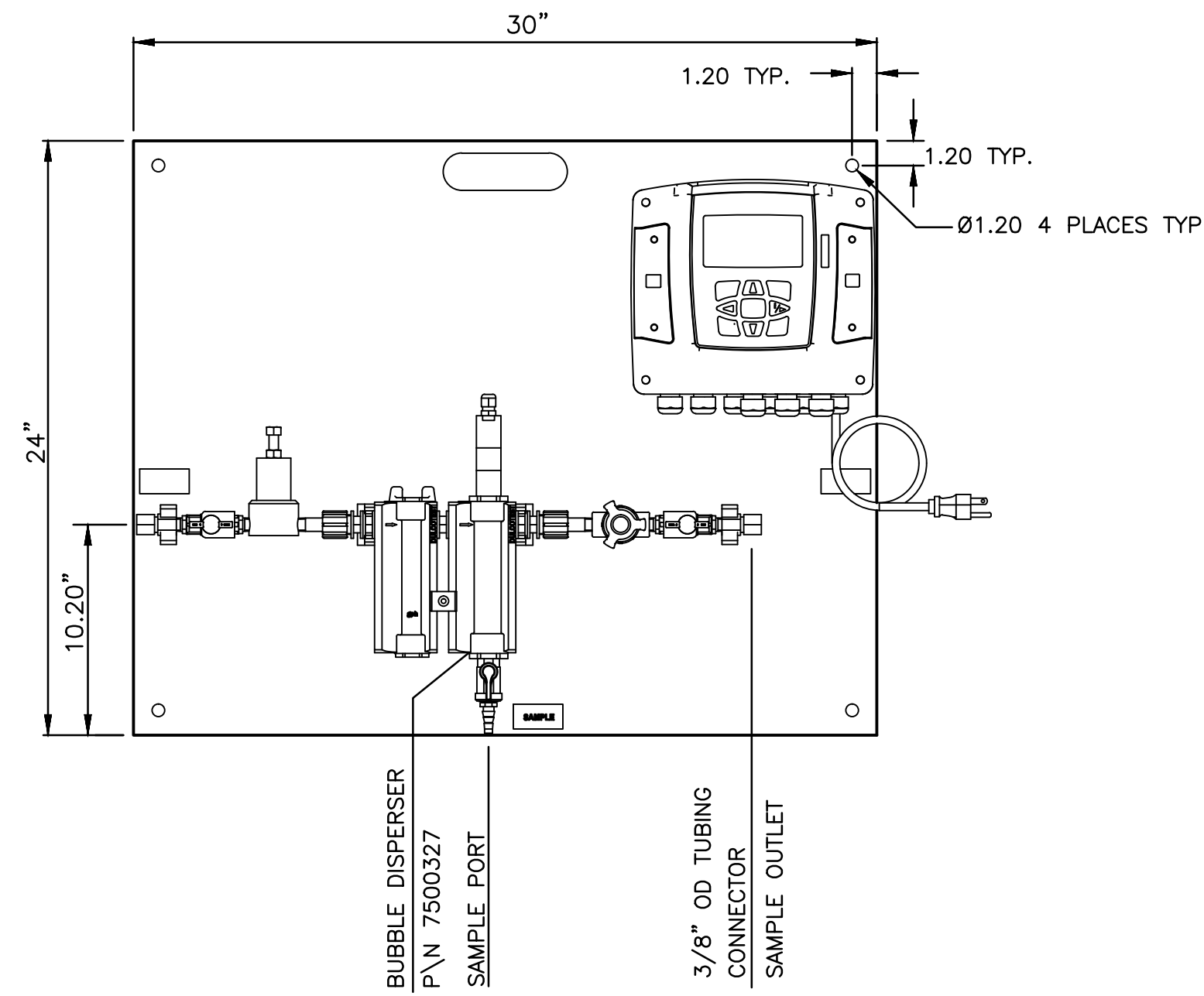
ANALYZER ROOM SOUTH WALL ELEVATION

SCALE: 1"=2'



PLAN VIEW CHLORINE ANALYZER BOARD

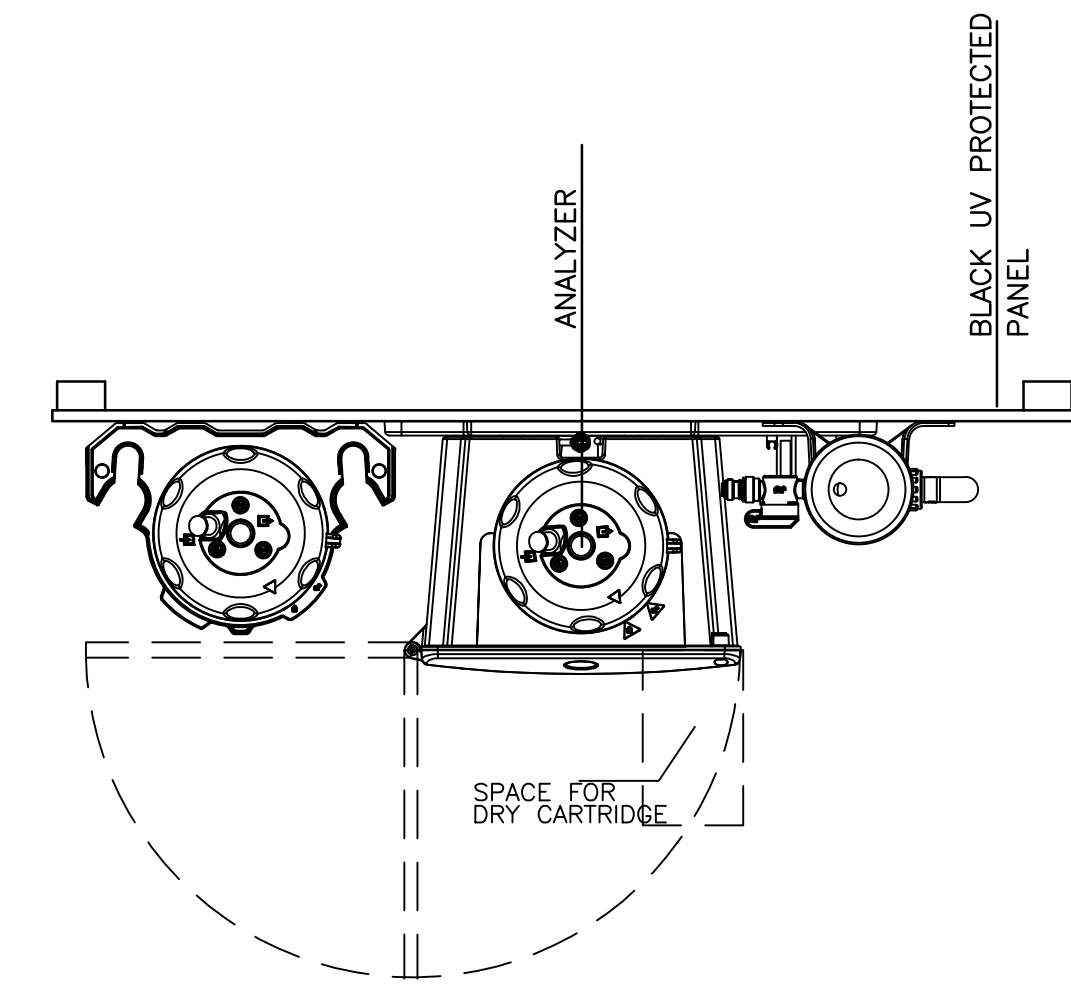
NTS



CHLORINE ANALYZER BOARD ELEVATION

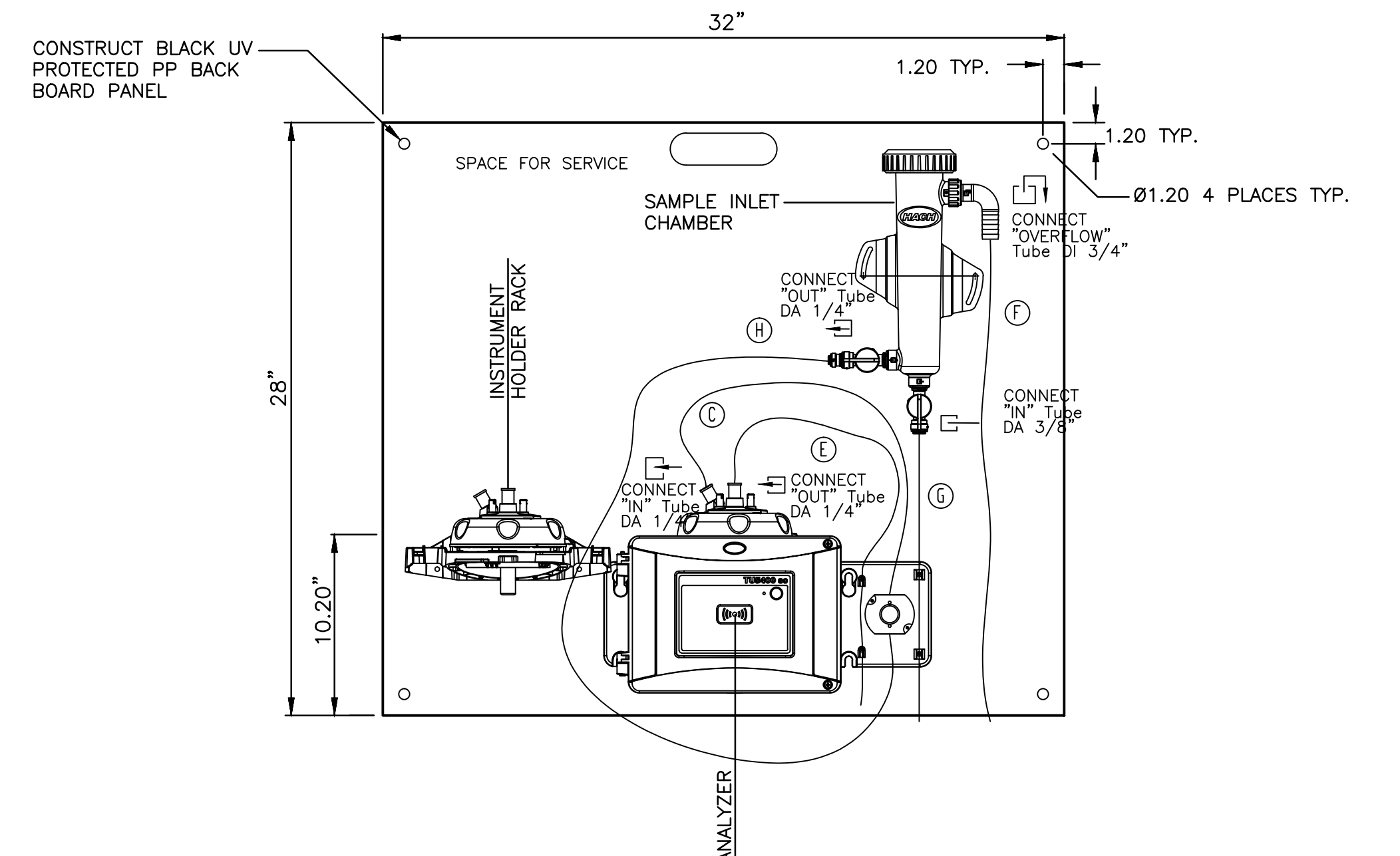
NTS

NOTE: UNIT IS PRE-ASSEMBLED ON BACKBOARD



PLAN VIEW TURBIDITY ANALYZER BOARD

NTS



TURBIDITY ANALYZER BOARD ELEVATION

NTS

NOTE: CONTRACTOR TO PROVIDE BACKBOARD AND MOUNT ANALYZER AND PIPING



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SCALE:  
HOR. 1"=20'  
VER. N/A

WARNING  
0 1/2 1  
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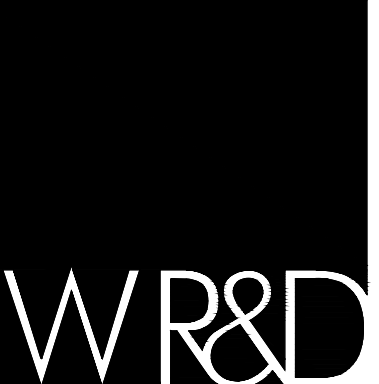
**ANALYZER ROOM PIPING**  
**MONTEREY PENINSULA WATER MANAGEMENT DISTRICT**  
SANTA MARGARITA ASR FACILITY SITE EXPANSION  
1910 GENERAL JIM MOORE BOULEVARD

PROJECT NO. W.O. 0451  
**M6**

## KEY NOTES

THE KEY NOTES THAT FOLLOW APPLY TO THE DRAWING(S) ON THIS SHEET ONLY. REFER TO FOLLOWING SHEETS FOR NOTES THAT ARE APPLICABLE TO THOSE DRAWINGS.

- |    |   |   |  |
|----|---|---|--|
| 1  | NEW BUILDING ACCESS DRIVEWAY INCLUDING PARKING                            | 6 | SLIDING GATE CONTROL - KEYPAD STATION          |
| 2  | EXISTING WALL AND FENCING   | 7 | SLIDING GATE CONTROL - SENSOR LOOP IN DRIVEWAY |
| 3  | NEW BUILDING  |   |  |
| 4  | NEW CONC. PAVING, SEE DETAIL 1/A111                                       |   |  |
| 5  | NEW ROLLING GATE  |   |  |
| 5A | CONCRETE / STEEL TRACK, SEE DETAIL 3/A111                                 |   |  |
| 5B | GATE MOTOR ON CONCRETE PAD, SEE DETAIL 4/A111                             |   |  |
| 5C | STEEL TUBE ROLLING GATE WITH WOOD CLADDING, SEE DETAILS 4/A111 AND 5/A111 |   |  |



**WALD RUHNKE & DOST  
ARCHITECTS LLP**

2340 GARDEN ROAD, SUITE 100  
MONTEREY, CALIFORNIA 93940

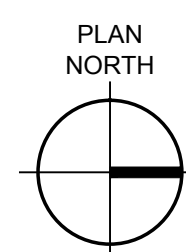
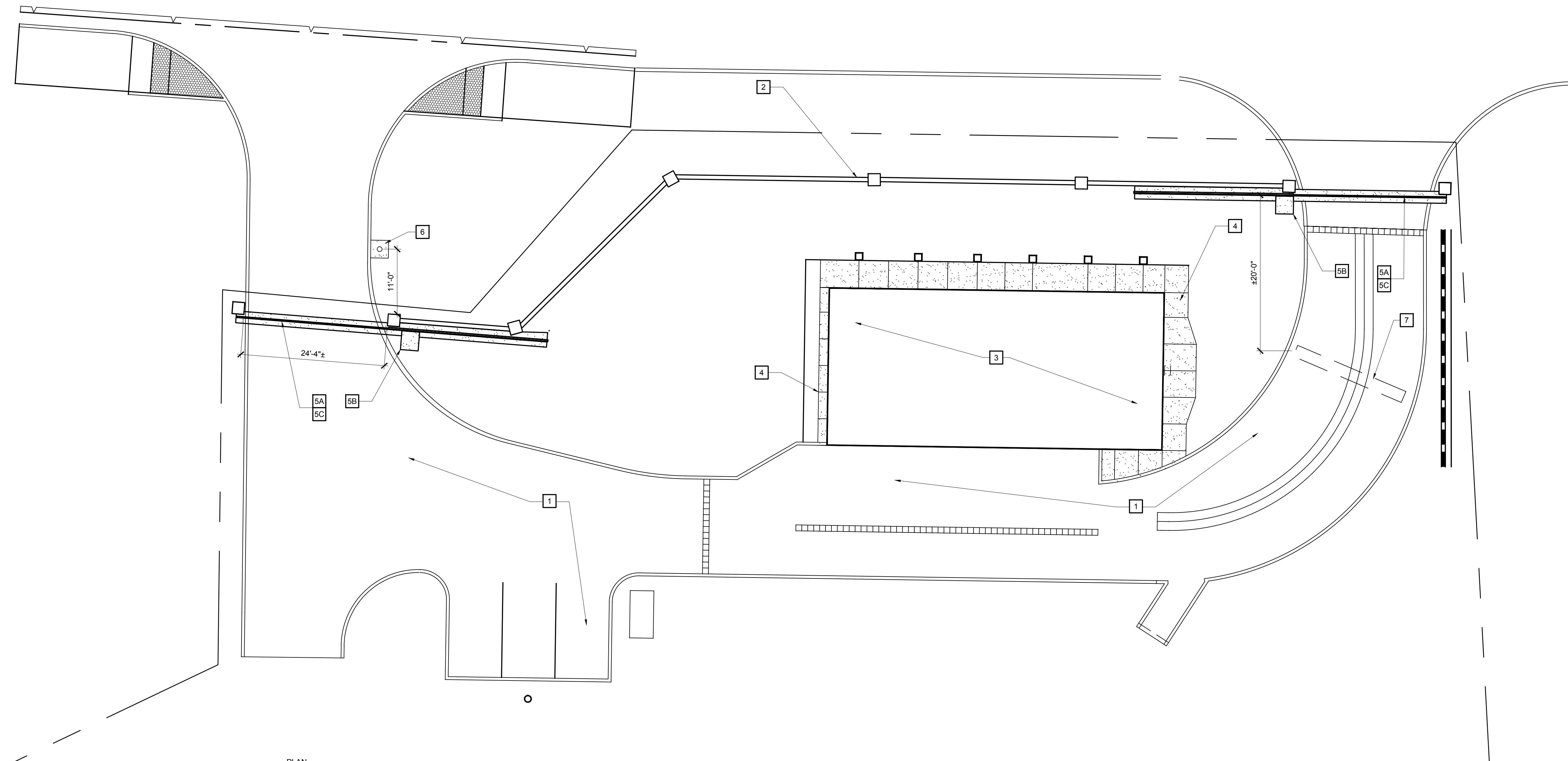
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GENERAL JIM MOORE BLVD.



### PARTIAL SITE PLAN

SCALE: 1" = 10'-0"

MPWMD SANTA MARGARITA ASR FACILITY  
CHLORINATION BUILDING

1910 GENERAL JIM MOORE BLVD.  
SEASIDE, CA

JOB NO.:

18014.2

PRINT DATE:

PLOT DATE: 8.2.2019

CHECKED BY:

SET ISSUED:

60% DESIGN REVIEW 5/17/19

100% DESIGN REVIEW 6/25/19

ISSUED FOR BID 8/5/19

SHEET NAME:

PARTIAL  
SITE  
PLAN

SHEET NO.:

**A101**

FILE NAME: 18014.2 A101

**GATE NOTES**

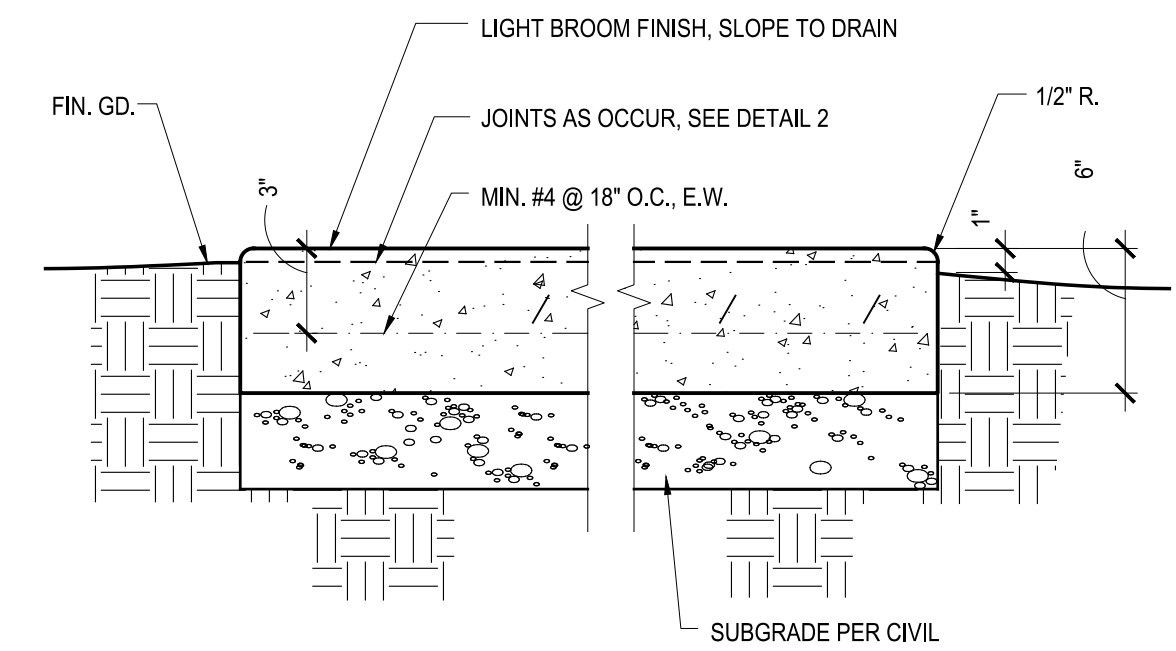
OPERATOR: LIFTMASTER MODEL SL3000101UL 1 H.P. SINGLE PHASE  
 GATE CLASS: CLASS III  
 ENTRAPMENT PROTECTION FOR BOTH OPEN AND CLOSE OPERATION: (1) BUILT INTO OPERATOR AND (2) MONITORED EXTERNAL EDGE SENSOR  
 GENERAL OPERATION OPTIONS:  
 1. ENTRY GATE: ELECTRONIC KEYPAD, FOB AND MOBILE DEVICE OPTIONS AND LOCKABLE CONTROL AT INTERIOR OF SITE WALL 6'-0" CLEAR OF ALL GATE COMPONENTS.  
 2. EXIT GATE: OPERATION BY ELECTRONIC LOOP IN PAVEMENT AND LOCKABLE CONTROL AT INTERIOR OF SITE WALL 6'-0" CLEAR OF ALL GATE COMPONENTS  
 3. ENTRY GATE AND EXIT GATE: PROVIDE LOCKABLE OVERRIDE OF ELECTRONIC OPERATION FOR EMERGENCY MANUAL (PUSH/PULL) OPERATION  
 SUBMITTAL REQUIREMENTS:  
 1. PRODUCT INFORMATION FOR OPERATOR AND CONTROL SYSTEMS.  
 2. FULL SYSTEM ELECTRICAL POWER AND LOW VOLTAGE REQUIREMENTS COORDINATED WITH SITE ELECTRICAL INDICATED ON THE ELECTRICAL DRAWINGS.  
 3. SITE LAYOUT DRAWINGS BASED ON FIELD MEASUREMENTS.  
 4. FULL GATE CONTROL DRAWINGS INCLUDING REMOTE PEDESTAL AND WALL MOUNTED OPERATORS, PAVING LOOP SENSORS, LOCKBOX LOCATIONS, ETC.  
 5. CONSTRUCTION / FABRICATION DRAWINGS FOR GATE FRAME/ CLADDING, EQUIPMENT PAD, AND GATE TRACK.  
 GATES DRAWINGS SHALL BE PREPARED IN A DELGATED DESIGN SUBMITTAL PREPARED BY A CONTRACTOR PROVIDED DESIGN PROFESSIONAL INCLUDING A STATEMENT, SIGNED AND SEALED BY THE RESPONSIBLE DESIGN PROFESSIONAL. THE SUBMITTAL SHALL USE AS STRUCTURAL CRITERIA THE BUILDING BASIS OF DESIGN ON STRUCTURAL SHEET S1.0.  
 6. O AND M MANUALS INCLUDING COMPLETE SYSTEM SEQUENCE OF OPERATION AND OPERATING INSTRUCTIONS AND MINIMUM 4 HOUR TRAINING TIME TO BE ATTENDED BY STAFF AS DESIGNATED BY OWNER.

**SAFETY**  
 Safety Installation Information  
 1. Vehicular gate systems provide convenience and security. Gate systems are comprised of many component parts. The gate operator is only one component. Each gate system is specifically designed for an individual application.  
 2. Gate operating system designers, installers and users must take into account the possible hazards associated with each individual application. Improperly designed, installed or maintained systems can create risks for the user as well as the bystander. Gate systems design and installation must reduce public exposure to potential hazards.  
 3. A gate operator can create high levels of force in its function as a component part of a gate system. Therefore, safety features must be incorporated into every design. Specific safety features include:  
 Edges Sensors (contact)  
 Guards for Exposed Rollers  
 Photoelectric Sensors  
 Screen Mesh  
 Vertical Posts  
 Instructional and Precautionary Signage  
 4. Install the gate operator only when:  
 a. The operator is appropriate for the construction and the usage class of the gate.  
 b. All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 6 feet (1.8 m) above the ground to prevent a 2-1/4 inches (6 cm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position.  
 c. All exposed pinch points are eliminated or guarded, and guarding is supplied for exposed rollers.  
 5. The operator is intended for installation only on gates used for vehicles.  
 6. Pedestrians must be supplied with a separate access opening. The pedestrian access opening shall be designed to promote pedestrian usage. Locate the gate such that persons will not come in contact with the vehicular gate during the entire path of travel of the vehicular gate.  
 7. The gate must be installed in a location so that enough clearance is supplied between the gate and adjacent structures when opening and closing to reduce the risk of entrapment.  
 8. The gate must be properly installed and work freely in both directions prior to the installation of the gate operator.

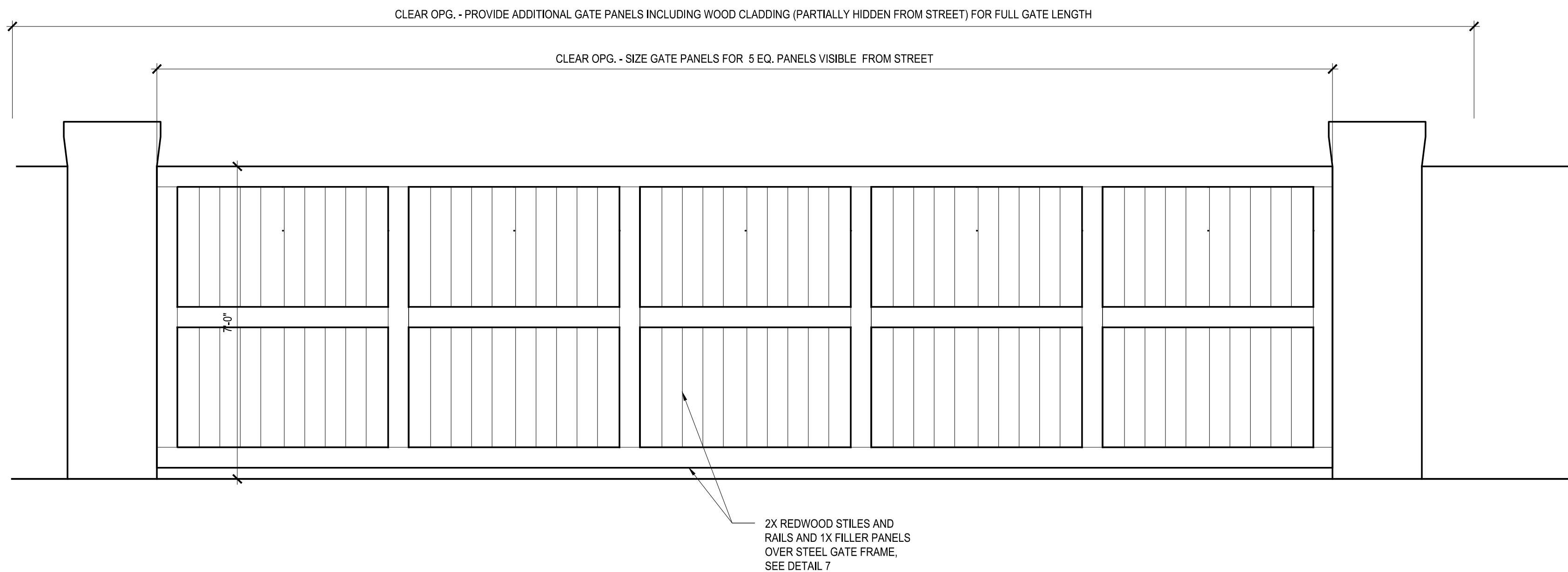
8. Permanently mounted access controls intended for users to activate, must be located at least 6 feet (1.8 m) away from any moving part of the gate and where the user is prevented from reaching over, under, around or through the gate to operate the controls. Outdoor or easily accessible controls shall have a security feature to prevent unauthorized use. Exception: Emergency access controls only accessible by authorized personnel (e.g. fire, police) may be placed at any location in the line-of-sight of the gate.  
 9. The Stop and/or Reset must be located in the line-of-sight of the gate. Activation of the reset control shall not cause the operator to start.  
 10. A minimum of two (2) WARNING SIGNS shall be installed in the area of the gate. Each placard is to be visible by persons located on the side of the gate on which the placard is installed.  
 11. For a gate operator utilizing a non-contact sensor:  
 a. Reference owner's manual regarding placement of non-contact sensor for each type of application. See Install Entrapment Protection section.  
 b. Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle trips the sensor while the gate is still moving.  
 c. One or more non-contact sensors shall be located where the risk of entrapment or obstruction exists, such as the perimeter reachable by a moving gate or barrier.  
 12. For a gate operator utilizing a contact sensor such as an edge sensor:  
 a. One or more contact sensors shall be located where the risk of entrapment or obstruction exists, such as at the leading edge, trailing edge and post mounted both inside and outside of a vehicular horizontal slide gate.  
 b. A hard wired contact sensor shall be located and its wiring arranged so the communication between the sensor and the gate operator is not subject to mechanical damage.  
 c. A wireless device such as one that transmits radio frequency (RF) signals to the gate operator for entrapment protection functions shall be located where the transmission of the signals are not obstructed or impeded by building structures, natural landscaping or similar obstruction. A wireless device shall function under the intended end-use conditions.

**SAFETY**  
 Gate Construction Information  
 Vehicular gates should be installed in accordance with ASTM F2200: Standard Specification for Automated Vehicular Gate Construction.  
 1. General Requirements  
 1.1 Gates shall be constructed in accordance with the provisions given for the appropriate gate type listed, refer to ASTM F2200 for additional gate types.  
 1.2 Gates shall be designed, constructed and installed to not fall over more than 45 degrees from the vertical plane, when a gate is detached from the supporting hardware.  
 1.3 Gates shall have smooth bottom edges, with vertical bottom edged protrusions not exceeding 0.50 inches (12.7 mm) when other than the exceptions listed in ASTM F2200.  
 1.4 The minimum height for barbed tape shall not be less than 8 feet (2.44 m) above grade and for barbed wire shall not be less than 6 feet (1.83 m) above grade.  
 1.5 An existing gate latch shall be disabled when a manually operated gate is retrofitted with a powered gate operator.  
 1.6 A gate latch shall not be installed on an automatically operated gate.  
 1.7 Protrusions shall not be permitted on any gate, refer to ASTM F2200 for Exceptions.  
 1.8 Gates shall be designed, constructed and installed such that their movement shall not be initiated by gravity when an automatic operator is disconnected, in accordance with the following.  
 1.8.1 Vehicular horizontal slide gate. Shall not result in continuous, unimpeded movement in either linear direction of its travel.  
 1.9 For pedestrian access in the vicinity of an automated vehicular gate, a separate pedestrian gate shall be provided. The pedestrian gate shall be installed in a location such that a pedestrian shall not come in contact with a moving vehicular access gate. A pedestrian gate shall not be incorporated into an automated vehicular gate panel.  
 2. Specific Applications  
 2.1 Any non-automated gate that is to be automated shall be upgraded to conform to the provisions of this specification.  
 2.2 This specification shall not apply to gates generally used for pedestrian access and to vehicular gates not to be automated.  
 2.3 When the gate operator requires replacement, the existing gate shall be upgraded to conform to the provisions of this specification.  
 2.4 When the gate of an automated gate system requires replacement, the new gate shall conform to the provisions of this specification.

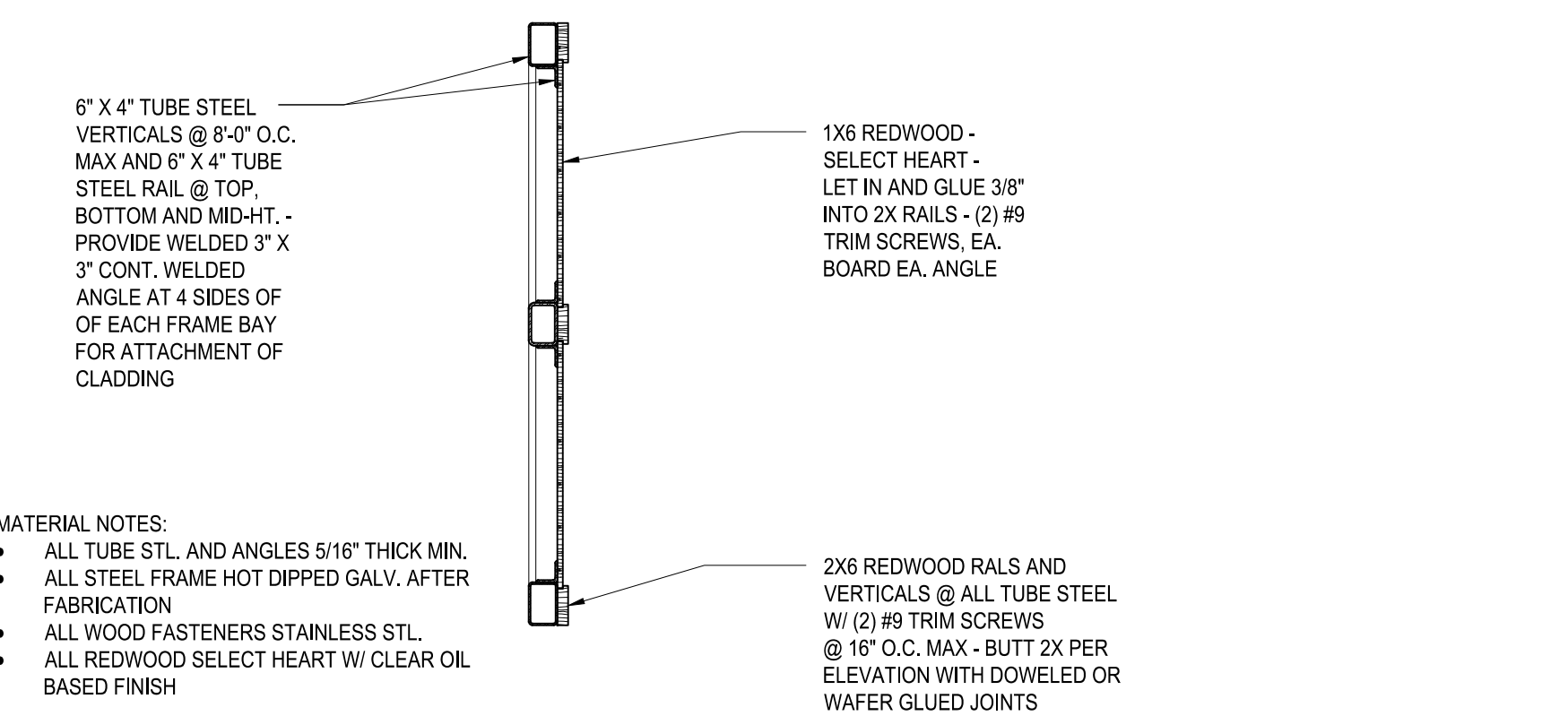
3. Vehicular Horizontal Slide Gates  
 3.1 The following provisions shall apply to Class I, Class II and Class III vehicular horizontal slide gates:  
 3.1.1 All weight bearing exposed rollers 8 feet (2.44 m), or less, above grade shall be guarded or covered.  
 3.1.2 All openings shall be designed, guarded, or screened from the bottom of the gate to the top of the gate or a minimum of 6 ft. (1.83 m) above grade, whichever is less, to prevent a 2 1/4 in. (57 mm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position. The gate panel shall include the entire section of the moving gate, including any back frame or counterbalance portion of the gate.  
 3.1.3 A gap, measured in the horizontal plane parallel to the roadway, between a fixed stationary object nearest the roadway, (such as a gate support post) and the gate frame when the gate is in either the fully open position or the fully closed position, shall not exceed 2 1/4 inches (57 mm). Exception: All other fixed stationary objects greater than 16 in. (406 mm) from the gate frame shall not be required to comply with this section.  
 3.1.4 Positive stops shall be required to limit travel to the designed fully open and fully closed positions. These stops shall be installed at either the top of the gate, or at the bottom of the gate where such stops shall horizontally or vertically project no more than is required to perform their intended function.  
 3.1.5 All gates shall be designed with sufficient lateral stability to assure that the gate will enter a receiver guide, refer to ASTM F2200 for panel types.  
 3.2 The following provisions shall apply to Class IV vehicular horizontal slide gates:  
 3.2.1 All weight bearing exposed rollers 8 feet (2.44 m), or less, above grade shall be guarded or covered.  
 3.2.2 Positive stops shall be required to limit travel to the designed fully open and fully closed positions. These stops shall be installed at either the top of the gate, or at the bottom of the gate where such stops shall horizontally or vertically project no more than is required to perform their intended function.



**4 ROLLING GATE NOTES**  
 SCALE: NONE

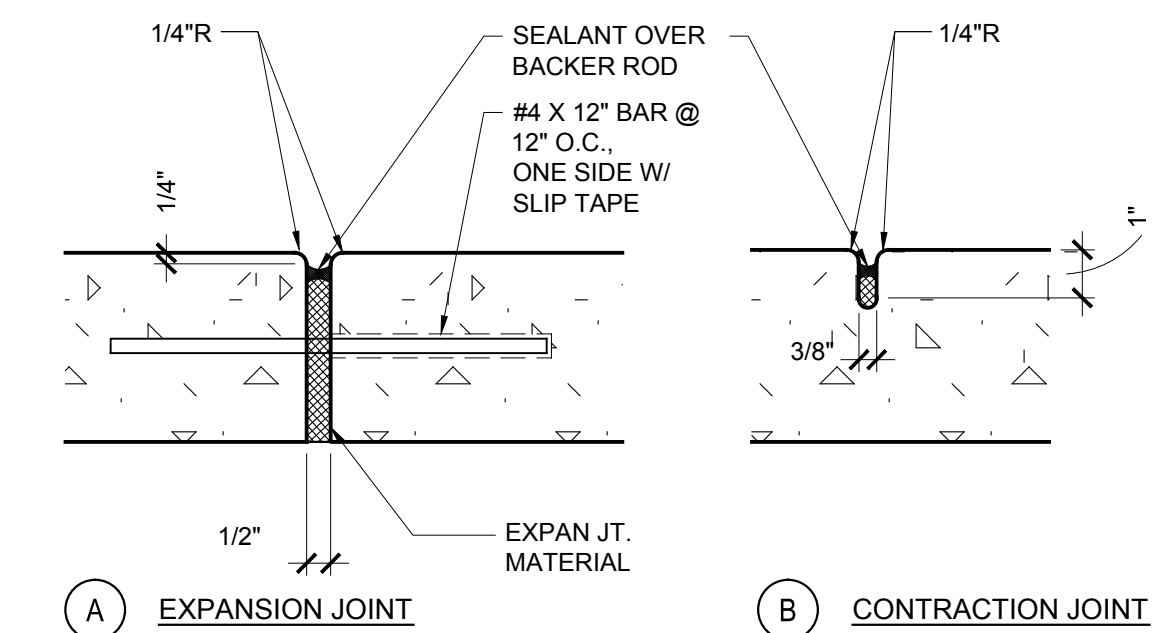


**5 GATE ELEVATION**  
 SCALE: 1/2"=1'-0"



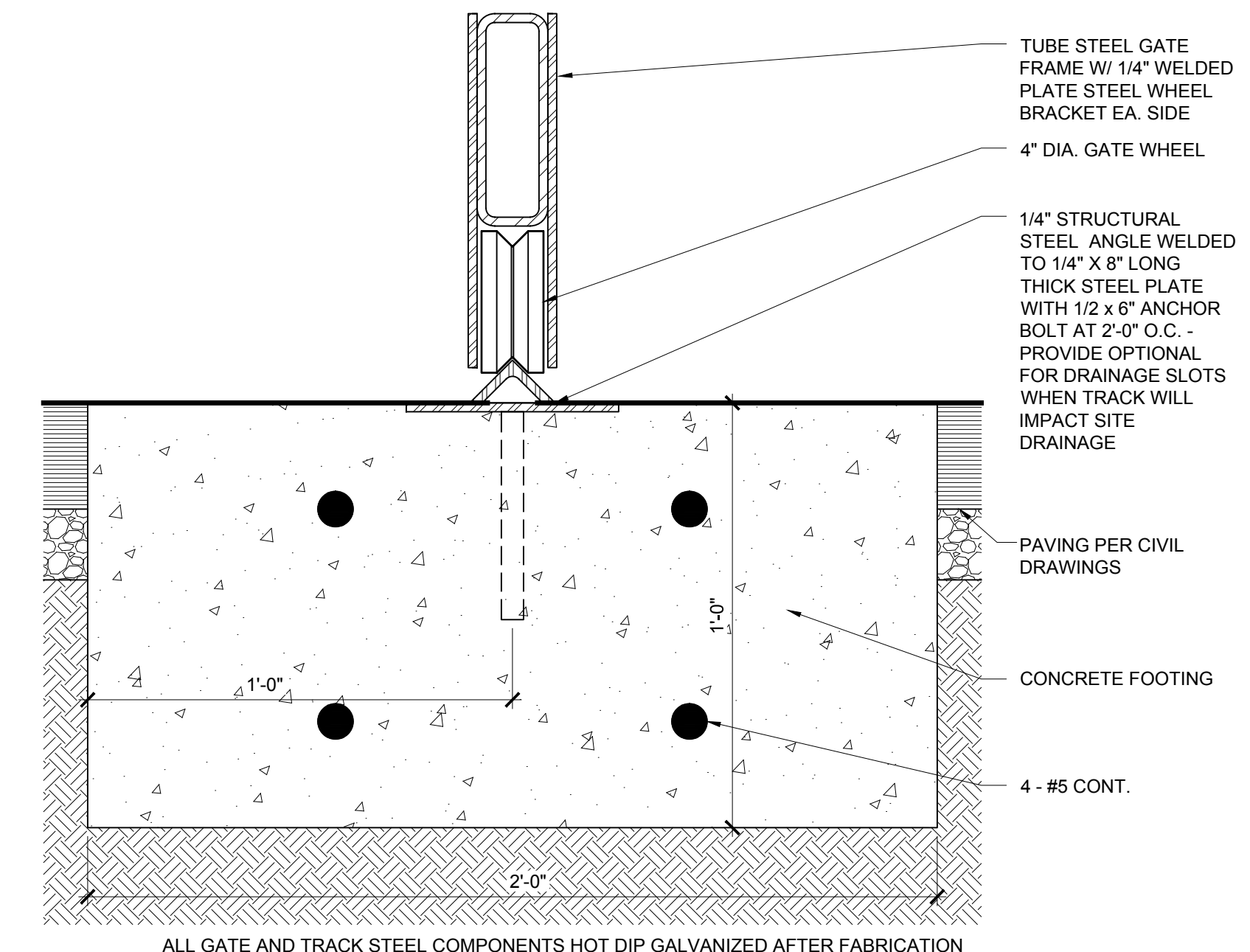
**6 GATE PANEL SECTION**  
 SCALE: 1/2"=1'-0"

**1 CONC. PAVING**  
 SCALE: 1-1/2"=1'-0"



**JOINTS IN CONCRETE FLATWORK (CONCRETE PAVING)**  
 CONCRETE FLATWORK SHALL BE DIVIDED INTO APPROXIMATELY SQUARE PANELS WITH CONTRACTION JOINTS OR EXPANSION JOINTS PER BELOW - PROVIDE EXPANSION JOINTS AT COLD JOINTS AND WHEREVER CONCRETE FLATWORK TERMINATES AT BUILDING WALLS, SITE WALL AND OTHER FLATWOK TERMINATIONS.  
**CONTRACTION JOINTS (SCORED JOINTS, S.J.)**  
 FORM WEAKENED PLANE JOINTS IN FRESH CONCRETE BY GROOVING TOP PORTION ONE QUARTER THE THICKNESS OF THE CONCRETE WITH A RECOMMENDED CUTTING TOOL AND FINISHING EDGES WITH A JOINTER.  
**EXPANSION JOINTS (E.J.)**  
 PROVIDE EXPANSION JOINTS FULL DEPTH OF THE CONCRETE AT MINIMUM 15' O.C. TO MAXIMUM 20' O.C. TO MATCH EQUAL SPACING SECTIONS OF (CONTRACTION) JOINTS TO PROVIDE A UNIFORM PATTERN.

**2 CONCRETE JOINTS AND NOTES**  
 SCALE: NONE



**3 TRACK AT DRIVE GATE**  
 SCALE: 3"=1'-0"

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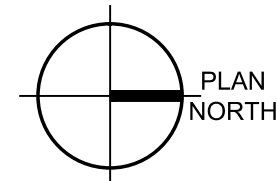
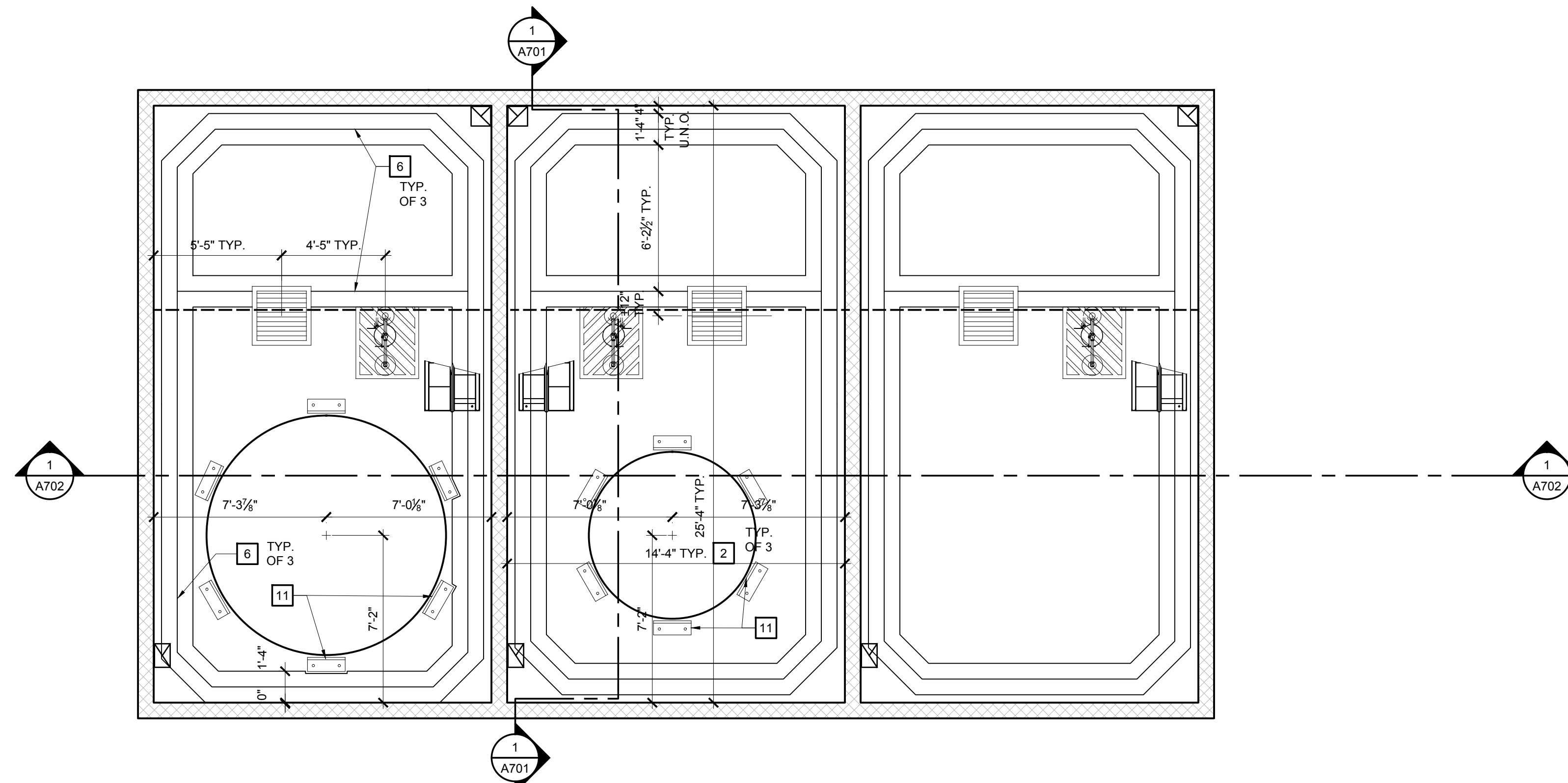
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 SEASIDE, CA

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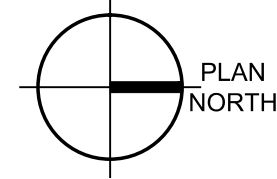
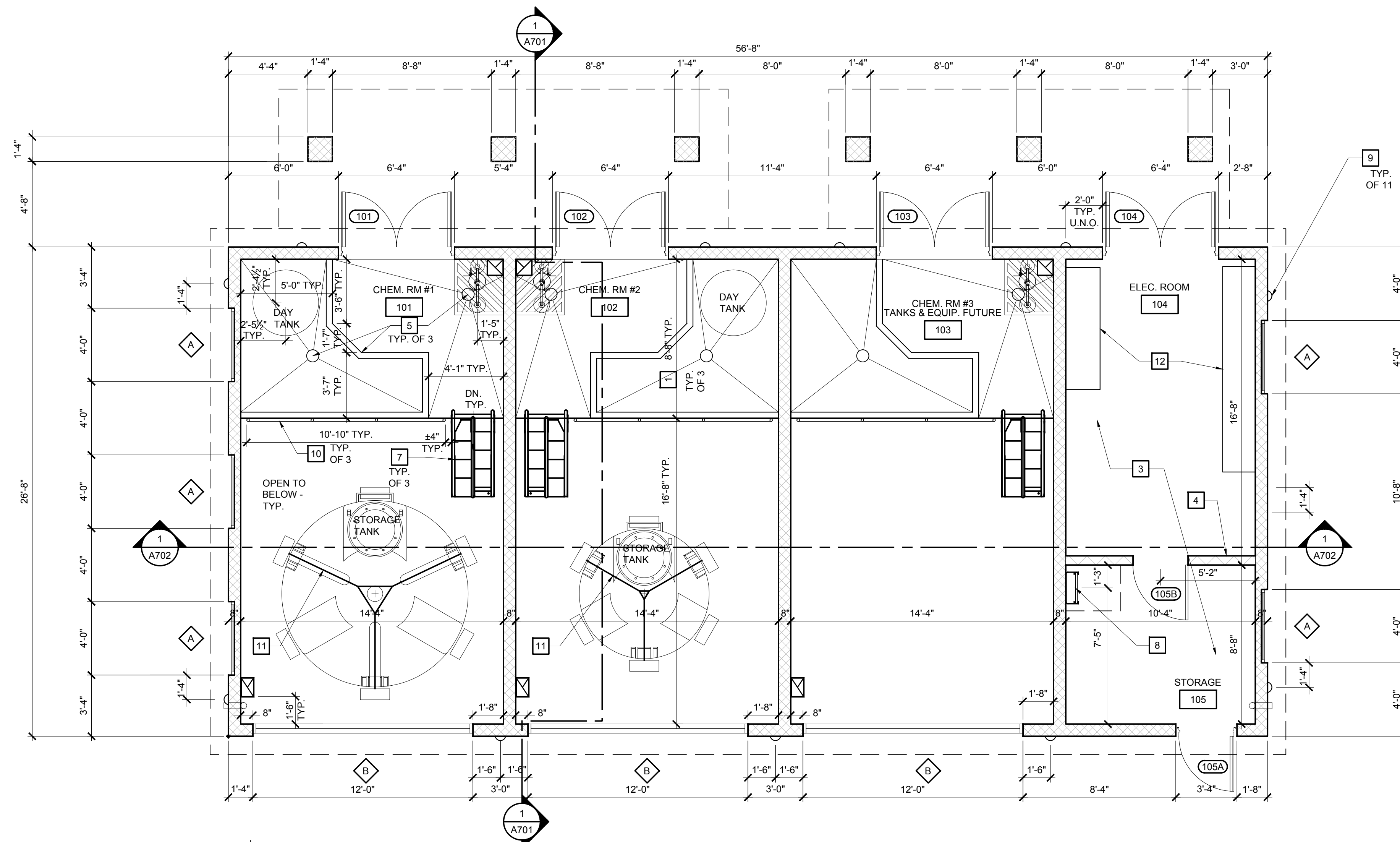
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**SITE DETAILS**  
 SHEET NO.:  
**A111**  
 FILE NAME: 18014.2 A111



**FLOOR PLAN @ PIT LEVEL**

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



**FLOOR PLAN @ GRADE LEVEL**

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

**KEY NOTES**

THE KEY NOTES THAT FOLLOW APPLY TO THE DRAWING(S) ON THIS SHEET ONLY. REFER TO FOLLOWING SHEETS FOR NOTES THAT ARE APPLICABLE TO THOSE DRAWINGS.

- 1 POURED IN PLACE PLATFORM AT GRADE LEVEL 0'-0"
- 2 CONCRETE SLAB ON GRADE AT PIT LEVEL 5'-0" BELOW GRADE LEVEL PLATFORM
- 3 CONCRETE SLAB ON GRADE AT GRADE LEVEL 0'-0"
- 4 INTERIOR PARTITION - METAL STUD W/ GYPSUM BOARD EACH SIDE
- 5 2 DRAIN DRAINAGE SYSTEM AT PLATFORM WITH 4" WIDE X 4" HIGH CONTAINMENT CURB AT TANK - SLOPE CONCRETE 1/2% AT LONGEST DIMENSION TO DRAINS
- 6 DEPRESS CONCRETE PIT SLAB ON GRADE FOR 16" WIDE X 1" DEEP "V" SWALE, AT PERIMETER AND EXTENSION TO SUMP DRAIN
- 7 LADDER, ALTERNATING TREAD TYPE, PRECISION LADDERS LLC, 1,000 POUND CAPACITY, ANODIZED ALUMINUM
- 8 LADDER TO ROOF, ALACO ALUMINUM MODEL 560, CUSTOM ORDER PER ROOF HEIGHT PER MFR. INSTRUCTIONS, SUBMIT SHOP DRAWING WITH COORDINATED HEIGHT OF LADDER INCLUDING TOP AND BOTTOM RUNGS IN RELATION TO FLOOR SLAB, ROOF HATCH AND ROOF WALKING SURFACE
- 9 WALL MOUNTED LIGHTING FIXTURE WITH CETERLINE 88" ABOVE FIN. FLOOR, SEE ELEC. DRAWINGS FOR SPECIFICATION
- 10 EDGE OF PLATFORM MOUNTED RAILING W/ 4" CLEARANCE FROM WALL AND STAIR: 1 1/4" I.D. SCHEDULE 40 PIPE W/ 4 VERTICALS EQUALLY SPACED, SEE 1/S1.0 FOR CONSTRUCTION, HOT DIP GALVANIZE IN ONE PIECE AFTER FABRICATION
- 11 TANK POINTS OF ANCHORAGE AND LIFTING POINTS:
  - PROVIDE (6) PIT FLOOR MOUNTED STEEL ANGLES AROUND TANK - THREE OF SIX ANGLES TO BE CONNECTED TO STEEL CABLES OVER TOP OF TANK PER TANK MFR. INSTRUCTIONS
  - INSTALL TANK USING LIFTING POINTS WITH BOLTS AND CABLES PER TANK MFR. INSTRUCTIONS
- 12 BUILD UP FLOOR SLAB FOR CONCRETE CURB AT ELEC. EQUIPMENT WITH TOP OF LEVEL CURB 6" ABOVE FLOOR - REINFORCE CURB PER FLOOR SLAB NOTES ON SHEET S2.0. SIZE CURB AND ANCHOR EQUIP. PER ELEC. EQUIP. MFR. INSTRUCTIONS

**MPWMD SANTA MARGARITA ASR FACILITY  
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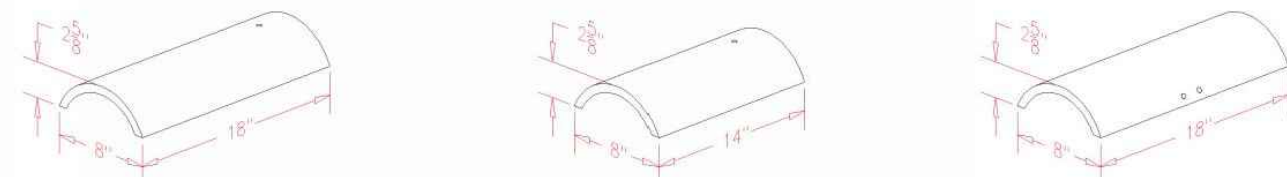
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 SEASIDE, CA

JOB NO.:  
**18014.2**  
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 CHECKED BY:  
 SET ISSUED:  
 60% DESIGN REVIEW 5/17/19  
 100% DESIGN REVIEW 6/25/19  
 ISSUED FOR BID 8/5/19

SHEET NAME:  
**FLOOR PLAN**  
 SHEET NO.:

A201

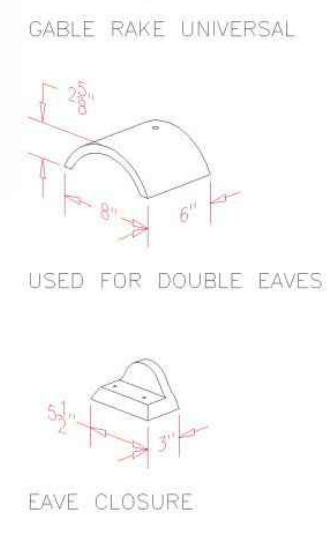
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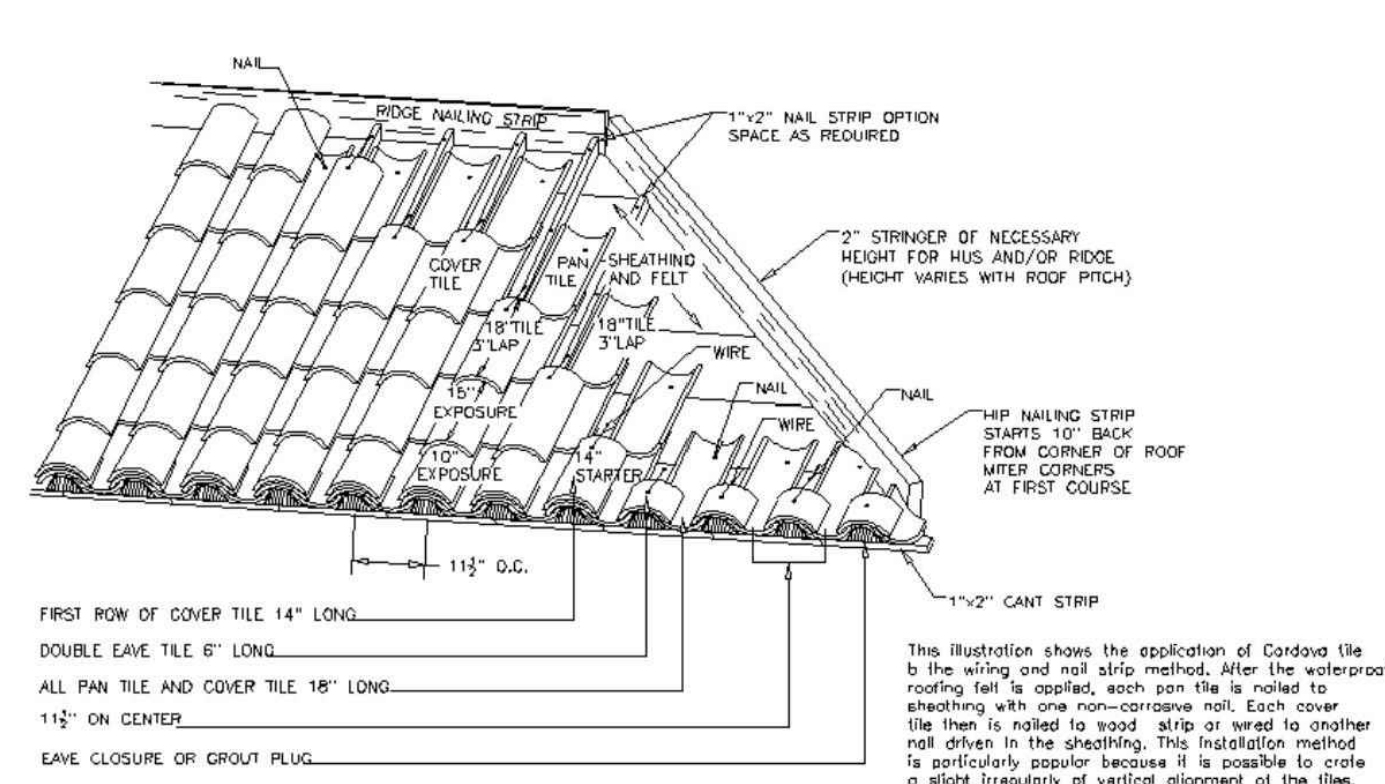
USED FOR COVER TILE, PAN TILE, RIDGES AND HIPS  
 USED FOR STARTING COVER TILE  
 GABLE RAKE UNIVERSAL

Cordova roof tile is machine made. Each tile has a small hole close to one end which is used for fixing the tile to the roof.  
 The same tile is used either as a pan or a cover tile mostly by reversing its position. The same tile is also used for ridges and hips.  
 The starting cover tile is 1'4" long and is used only at the bottom course on first row of cover tile.  
 Double eaves tile is 6" long and is used on nearly all residential construction because of the enhanced appearance along the roof edge.  
 A gable rake tile is used wherever a gable is required. Two holes provide for nailing to the gable. Tiles are made left and right hand. Eave closure tiles may be used to fill the opening between pan tiles and eaves.

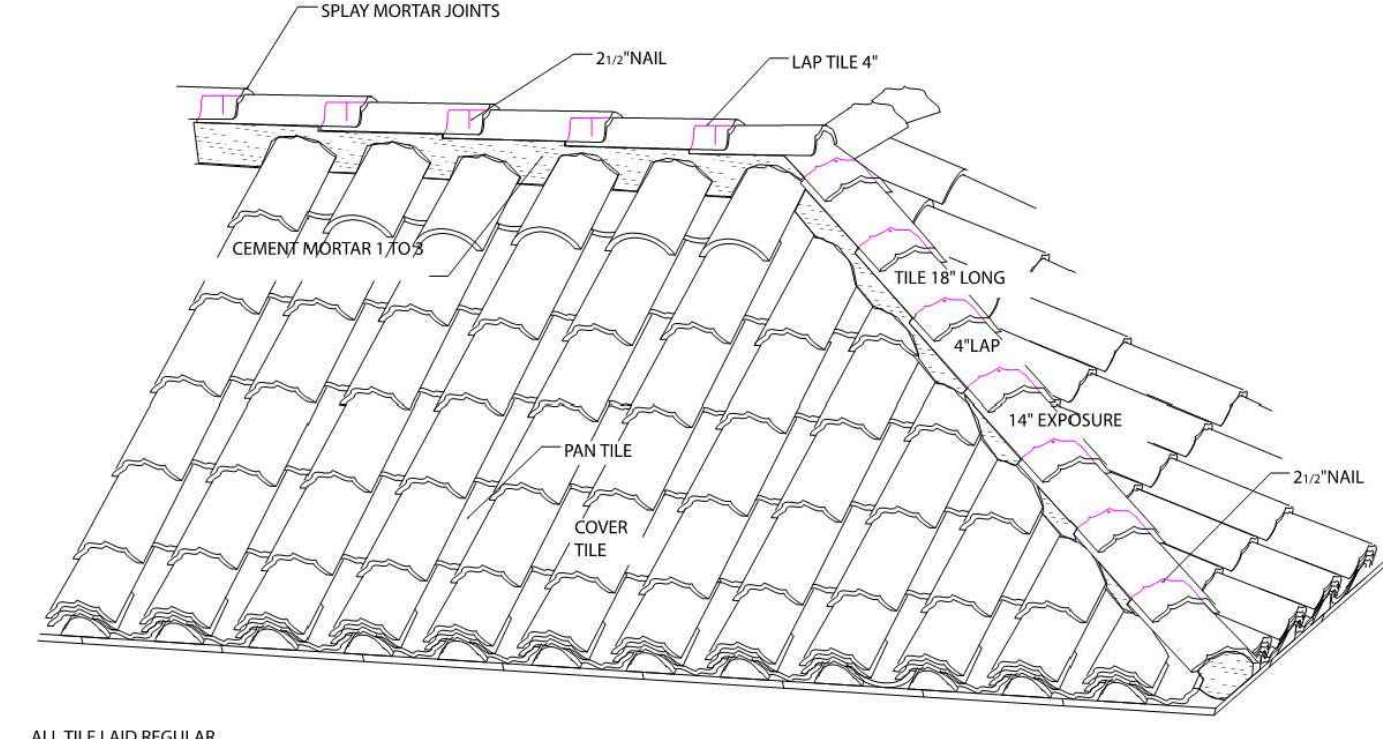
**CORDOVA CLAY TILE**  
 (FILE NAME: 3-1.DWG)



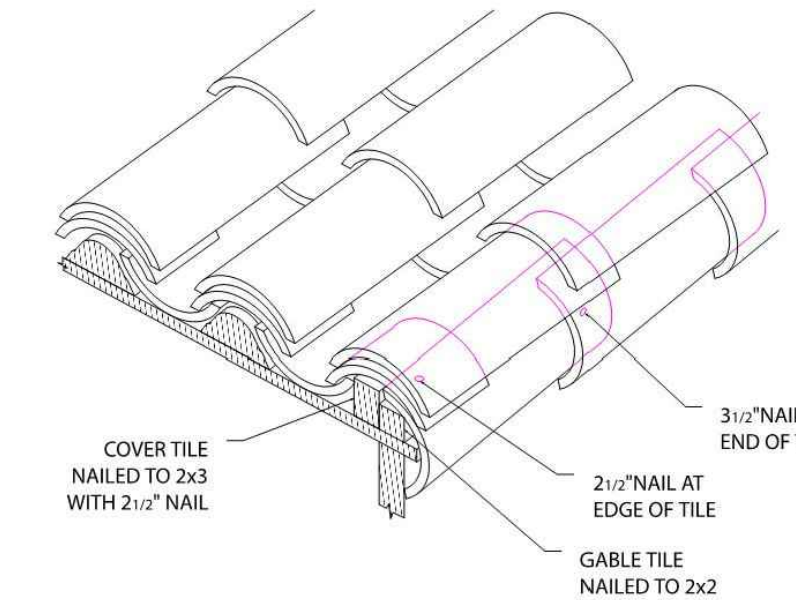
USED FOR DOUBLE EAVES  
 EAVE CLOSURE  
 GABLE TILE NAILED TO 2x2



**CORDOVA CLAY TILE CONSTRUCTION DETAIL**  
 (FILE NAME: 4-1.DWG)



**CORDOVA CLAY TILE CONSTRUCTION DETAIL**  
 (FILE NAME: 5-1.DWG)

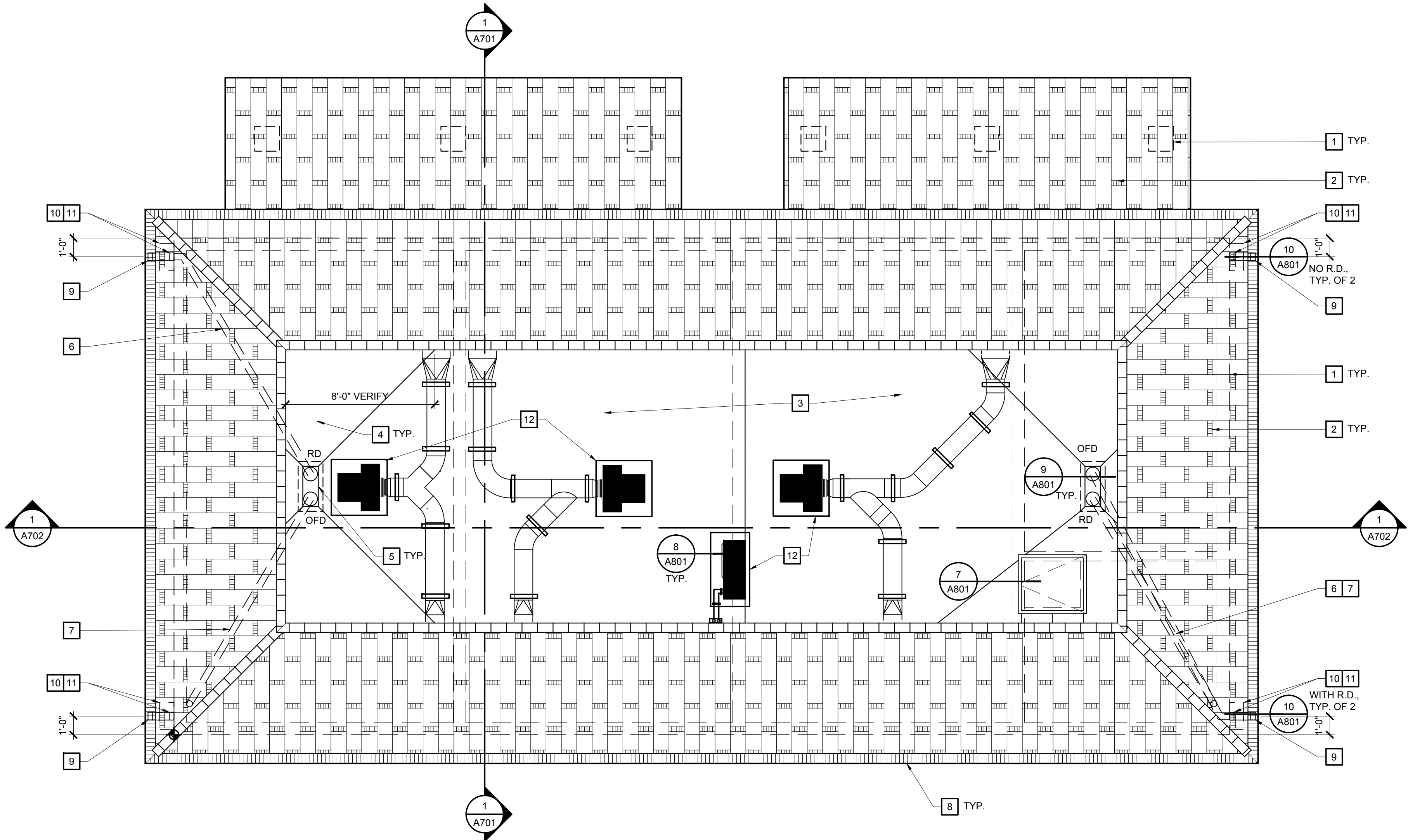


**SECTION AT GABLE RAKE**  
 (FILE NAME: 4-2.DWG)

The ridges and hips are built with the same 18" tile that is used for the field of the roof and each tile is nailed with one non-corrosive nail to the wood nailing strips.  
 The double eave tile is used on nearly all residential work as it enhances the appearance by giving an added thickness of tile along the edge. However, it can be omitted if desired as is sometimes done on commercial or formal buildings.  
 If the double eave is not used, then it is necessary to nail a 1"x16" clay cant strip along the lower edge of the sheathing to give the necessary tilt to the starting pan tile. Its use is optional when double eave tiles are used.

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**1 CLAY TILE ROOFING DETAILS**  
 SCALE: NONE



**ROOF PLAN**  
 SCALE: 1/4"=1'-0"

**KEY NOTES**

- THE KEY NOTES THAT FOLLOW APPLY TO THE DRAWING(S) ON THIS SHEET ONLY. REFER TO FOLLOWING SHEETS FOR NOTES THAT ARE APPLICABLE TO THOSE DRAWINGS.
- 1 LINE OF BUILDING WALLS / COLUMNS BELOW, SEE FLOOR PLAN
  - 2 CLAY TILE ROOFING AT MANSARD ROOF / COVERED WALK ROOF PER DETAIL 1 ON THIS SHEET, SEE BUILDING SECTION FOR ADDITIONAL INFORMATION.
  - 3 SINGLE PLY MEMBRANE ROOFING AT EQUIPMENT WELL, SEE BUILDING SECTION
  - 4 BUILT-UP INSULATION UNDER ROOFING FOR DRAINAGE CRICKET - 2% MIN. CROSS SLOPE
  - 5 4" ROOF DRAIN AND 4" OVERFLOW DRAIN COMBO UNIT
  - 6 4" ROOF DRAIN LEADER - EXTEND THROUGH WALL INTO GUTTER SYSTEM CONDUCTOR HEAD
  - 7 4" OVERFLOW ROOF DRAIN LEADER - EXTEND TO EXTERIOR WALL, DOWN WALL AND THROUGH WALL WITHIN 5" I.D. CLAY PIPE SLEEVE MATCHING ROOF TILE 12" ABOVE GRADE
  - 8 6" W. X 3" HIGH 20 OZ. COPPER GUTTER W/ MITERED / FIELD SOLDERED CORNERS, SMACNA FIG. 1-3A, W/ 24 OZ. COPPER HANGERS @ 32" O.C. MAX.
  - 9 3" X 5" X 20 OZ. COPPER DOWNSPOUT, SMACNA FIG. 1-32B, EXTEND INTO TOP OF CONDUCTOR HEAD, W/ 24 OZ. COPPER HANGER AT TOP OF HEAD, SMACNA FIG 1-35A
  - 10 3" X 5" X 20 OZ. COPPER DOWNSPOUT, SMACNA FIG. 1-32B, EXTEND TO GRADE AND SPILL INTO PAINTED PVC BOOT CONNECTED TO STORM DRAIN SYSTEM, W/ 24 OZ. HANGERS @ 32" O.C. MAX., SMACNA FIG 1-35A
  - 11 DECORATIVE 20 OZ. COPPER CONDUCTOR HEAD, SAMCNA FIG. 1-25d MODIFIED, SEE EAVE DETAIL FOR PROFILE
  - 12 BUILD UP TOPPING SLAB FOR CONCRETE CURB AT MECH. EQUIPMENT WITH TOP OF LEVEL CURB 4" ABOVE WHERE ROOF IS HIGHEST - REINFORCE CURB PER ROOF NOTES AN SHEET S2.0. SIZE CURB PER MECH. EQUIP. MFR. INSTRUCTIONS - RUN SINGLE PLY ROOFING OVER CURB PRIOR TO INSTALLING A ONE PIECE 18 GA. GALV. SHEET METAL CURB CAP - SEAL ALL PENETRATIONS IN CAP WITH NEOPRENE WASHERS SET IN SILICONE SEALANT.

**MPWMD SANTA MARGARITA ASR FACILITY  
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SHEET NAME:  
**ROOF PLAN**  
 SHEET NO.:

**A230**  
 FILE NAME: 18014.2.A230



ROOM FINISH SCHEDULE									
ROOM NUMBER	ROOM NAME	FLR.	BASE	WALLS (PLAN DIRECTION)				CLG.	NOTES
				N.	E.	S.	W.		
101	CHEM. #1	FL-1	B-1	W-1	W-1	W-1	W-1	CONC.	
102	CHEM. #2	FL-1	B-1	W-1	W-1	W-1	W-1	CONC.	
103	CHEM. #3	FL-1	B-1	W-1	W-1	W-1	W-1	CONC.	
104	ELEC. ROOM	FL-1	B-2	W-2 / W-3	W-2 / W-3	W-2 / W-3	W-2 / W-3	CONC.	
105	STORAGE	FL-2	B-2	W-2 / W-3	W-2 / W-3	W-2 / W-3	W-2 / W-3	CONC.	

FINISH NOTES	
FL-1	CONCRETE FLOOR WITH CLEAR HARDENER / SEALER FINISH
FL-2	COMPOSITION TILE RESILIENT FLOORING
B-1	SEAL JOINT BETWEEN CMU WALL AND CONCRETE FLOOR W/ ARDEX COMPOUND TO A TOOLED 1/4" RADIUS
B-2	6" HIGH BLACK COVERED RUBBER BASE AT GYPSUM BOARD WALL ONLY
W-1	UNFINISHED CMU WALL
W-2	CMU WALL, ONE COAT PRIMER AND 2 COAT SEMI-GLOSS PAINT FINISH
W-3	5/8" GYPSUM BOARD OVER 20 GA. GALV. METAL STUDS - WHERE WALL MEETS CMU INSTALL CONTINUOUS J BEAD FOR 1/4" JOINT FILLED WITH SEALANT OVER BACKER ROD - FINISH WALL WITH ONE COAT PRIMER AND 2 COATS SEMIGLOSS ENAMEL FINIS

WINDOW SCHEDULE													
TYPE	GLAZING	FINISH	SIZE		DETAIL - SHEET A802					R.O. HEAD HEIGHT	TEMPERED GLASS	NOTES	
			WIDTH	HEIGHT	HEAD	JAMB	SILL						
A	●	●	4'-0"	5'-4"	1	2	3			8'-4"	YES	DARK BRONZE CLASS ONE ANODIZE FINISH	

CLOSURE PANEL SCHEDULE													
TYPE	FINISH	SIZE		DETAIL - SHEET A802					R.O. HEAD HEIGHT	NOTES			
		WIDTH	HEIGHT	HEAD	JAMB	SILL							
B	●	12'-0"	12'-10"	7	7	8			13'-0"	SEE PANEL FINISH NOTE 1			

PANEL FINISH NOTE 1:  
 PROVIDE GALVANIZED HM DOOR FIXED PANEL AND FRAME WITH FACTORY PRIMER FINISH, FIELD PAINT DOOR AND FRAME WITH 2 COAT ALKYD ENAMEL PAINT PRIOR TO INSTALLING HEARTWOOD RED WOOD CLADDING AND INTERIOR CLASS ONE ANODIZED ALUMINUM LINING - FINISH REDWOOD CLADDING WITH OIL BASED CLEAR REDWOOD SEALER

DOOR SCHEDULE													
NO.	DOOR	FINISH	SIZE			DETAIL - SHEET A802					FRAME ASSEMBLY	HARDWARE GROUP	NOTES
			WIDTH	HEIGHT	HM THK.	HEAD	JAMB	THRESH.					
101	●	●	6'-0"	8'-2"	1 3/4"	4	4	6			HM	B	SEE DOOR FINISH NOTE 1
102	●	●	6'-0"	8'-2"	1 3/4"	4	4	6			HM	B	SEE DOOR FINISH NOTE 1
103	●	●	6'-0"	8'-2"	1 3/4"	4	4	6			HM	B	SEE DOOR FINISH NOTE 1
104	●	●	3'-0"	8'-2"	1 3/4"	4	4	6			HM	B	SEE DOOR FINISH NOTE 1
105A	●	●	3'-0"	8'-2"	1 3/4"	4	4	6			HM	A	SEE DOOR FINISH NOTE 1
105B	●	●	3'-0"	7'-0"	1 3/4"	5	5	-					2 COAT ALKYD PAINT FINISH

DOOR FINISH NOTE 1:  
 PROVIDE GALVANIZED HM DOOR AND FRAME WITH FACTORY PRIMER FINISH, FIELD PAINT DOOR AND FRAME WITH 2 COAT ALKYD ENAMEL PAINT PRIOR TO INSTALLING HEARTWOOD RED WOOD CLADDING AND INTERIOR CLASS ONE ANODIZED ALUMINUM LINING - FINISH REDWOOD CLADDING WITH OIL BASED CLEAR REDWOOD SEALER

HARDWARE GROUPS																																																																																																																																																														
HARDWARE GROUP 'A' (GROUP CODE) <table border="0"> <tr> <td>4</td><td>STANDARD HINGE</td><td>IVES SEBRAT 4 1/2" X 5"</td><td>540</td> <td>1</td><td>EXIT DEVICE</td><td>VALE T100</td><td>30" X 100"</td><td>600</td> </tr> <tr> <td>1</td><td>CYLINDER</td><td>VALE T100</td><td>30" X 100"</td><td>813</td> <td>2</td><td>EXIT DEVICE</td><td>VALE T100</td><td>30" X 100"</td><td>600</td> </tr> <tr> <td>1</td><td>DOOR HULL</td><td>AGAGE BROWNSH PLOCS FINISH HM</td><td>813</td> <td>2</td><td>DOOR HULL</td><td>VALE T100</td><td>30" X 100"</td><td>600</td> </tr> <tr> <td>1</td><td>SUBFACE CLOSER</td><td>NORTON 3500SSTJ 600 SIZE 3</td><td>888</td> <td>1</td><td>CYLINDER</td><td>VALE T100</td><td>30" X 100"</td><td>600</td> </tr> <tr> <td>1</td><td>FLOOR DOOR STOP</td><td>CONQ 1448-818</td><td>813</td> <td>2</td><td>DOOR HULL</td><td>AGAGE BROWNSH PLOCS FINISH HM</td><td>813</td> <td></td> </tr> <tr> <td>1</td><td>THRESHOLD</td><td>PRIMO 2100W TRANS SHOE</td><td>D</td> <td>2</td><td>SUBFACE CLOSER</td><td>NORTON 3500SSTJ 600 SIZE 3</td><td>888</td> <td></td> </tr> <tr> <td>1</td><td>WEATHERSTRIP</td><td>MORINLEY MCF3002404</td><td>D</td> <td>2</td><td>FLOOR DOOR STOP</td><td>CONQ 1448-818</td><td>813</td> <td></td> </tr> <tr> <td>4</td><td>DOOR SILLSEAL</td><td>MORINLEY MCF3002404</td><td>D</td> <td>1</td><td>THRESHOLD</td><td>PRIMO 2100W TRANS SHOE</td><td>D</td> <td></td> </tr> </table>							4	STANDARD HINGE	IVES SEBRAT 4 1/2" X 5"	540	1	EXIT DEVICE	VALE T100	30" X 100"	600	1	CYLINDER	VALE T100	30" X 100"	813	2	EXIT DEVICE	VALE T100	30" X 100"	600	1	DOOR HULL	AGAGE BROWNSH PLOCS FINISH HM	813	2	DOOR HULL	VALE T100	30" X 100"	600	1	SUBFACE CLOSER	NORTON 3500SSTJ 600 SIZE 3	888	1	CYLINDER	VALE T100	30" X 100"	600	1	FLOOR DOOR STOP	CONQ 1448-818	813	2	DOOR HULL	AGAGE BROWNSH PLOCS FINISH HM	813		1	THRESHOLD	PRIMO 2100W TRANS SHOE	D	2	SUBFACE CLOSER	NORTON 3500SSTJ 600 SIZE 3	888		1	WEATHERSTRIP	MORINLEY MCF3002404	D	2	FLOOR DOOR STOP	CONQ 1448-818	813		4	DOOR SILLSEAL	MORINLEY MCF3002404	D	1	THRESHOLD	PRIMO 2100W TRANS SHOE	D		HARDWARE GROUP 'B' (GROUP CODE) <table border="0"> <tr> <td>8</td><td>STANDARD HINGE</td><td>IVES SEBRAT 4 1/2" X 5" 640</td><td>640</td> <td>1</td><td>EMERGENCY MULLION</td><td>VALE T600</td><td>30" X 100"</td><td>600</td> </tr> <tr> <td>1</td><td>CYLINDER</td><td>VALE T100</td><td>30" X 100"</td><td>2</td><td>EXIT DEVICE</td><td>VALE T100</td><td>30" X 100"</td><td>600</td> </tr> <tr> <td>1</td><td>DOOR HULL</td><td>AGAGE BROWNSH PLOCS FINISH HM</td><td>813</td> <td>2</td><td>DOOR HULL</td><td>VALE T100</td><td>30" X 100"</td><td>600</td> </tr> <tr> <td>1</td><td>SUBFACE CLOSER</td><td>NORTON 3500SSTJ 600 SIZE 3</td><td>888</td> <td>1</td><td>CYLINDER</td><td>VALE T100</td><td>30" X 100"</td><td>600</td> </tr> <tr> <td>1</td><td>FLOOR DOOR STOP</td><td>CONQ 1448-818</td><td>813</td> <td>2</td><td>DOOR HULL</td><td>AGAGE BROWNSH PLOCS FINISH HM</td><td>813</td> <td></td> </tr> <tr> <td>1</td><td>THRESHOLD</td><td>PRIMO 2100W TRANS SHOE</td><td>D</td> <td>2</td><td>SUBFACE CLOSER</td><td>NORTON 3500SSTJ 600 SIZE 3</td><td>888</td> <td></td> </tr> <tr> <td>1</td><td>WEATHERSTRIP</td><td>MORINLEY MCF3002404</td><td>D</td> <td>2</td><td>FLOOR DOOR STOP</td><td>CONQ 1448-818</td><td>813</td> <td></td> </tr> <tr> <td>4</td><td>DOOR SILLSEAL</td><td>MORINLEY MCF3002404</td><td>D</td> <td>1</td><td>THRESHOLD</td><td>PRIMO 2100W TRANS SHOE</td><td>D</td> <td></td> </tr> </table>							8	STANDARD HINGE	IVES SEBRAT 4 1/2" X 5" 640	640	1	EMERGENCY MULLION	VALE T600	30" X 100"	600	1	CYLINDER	VALE T100	30" X 100"	2	EXIT DEVICE	VALE T100	30" X 100"	600	1	DOOR HULL	AGAGE BROWNSH PLOCS FINISH HM	813	2	DOOR HULL	VALE T100	30" X 100"	600	1	SUBFACE CLOSER	NORTON 3500SSTJ 600 SIZE 3	888	1	CYLINDER	VALE T100	30" X 100"	600	1	FLOOR DOOR STOP	CONQ 1448-818	813	2	DOOR HULL	AGAGE BROWNSH PLOCS FINISH HM	813		1	THRESHOLD	PRIMO 2100W TRANS SHOE	D	2	SUBFACE CLOSER	NORTON 3500SSTJ 600 SIZE 3	888		1	WEATHERSTRIP	MORINLEY MCF3002404	D	2	FLOOR DOOR STOP	CONQ 1448-818	813		4	DOOR SILLSEAL	MORINLEY MCF3002404	D	1	THRESHOLD	PRIMO 2100W TRANS SHOE	D	
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 SEASIDE, CA

JOB NO.:  
**18014.2**

PRINT DATE:  
 PLOT DATE: 8.2.2019

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 100% DESIGN REVIEW 6/25/19  
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SHEET NO.:  
**A301**

FILE NAME: 18014.2 A301



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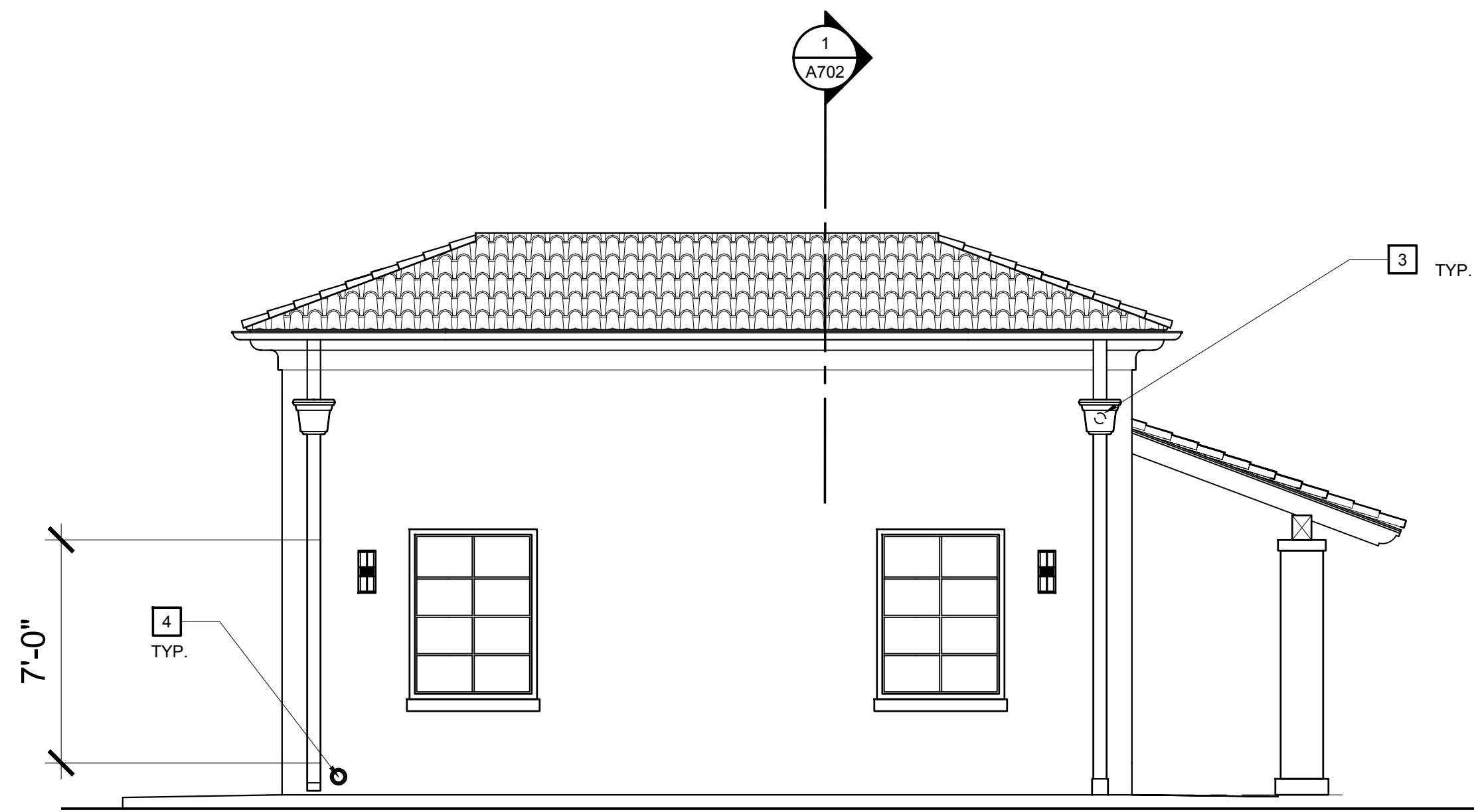
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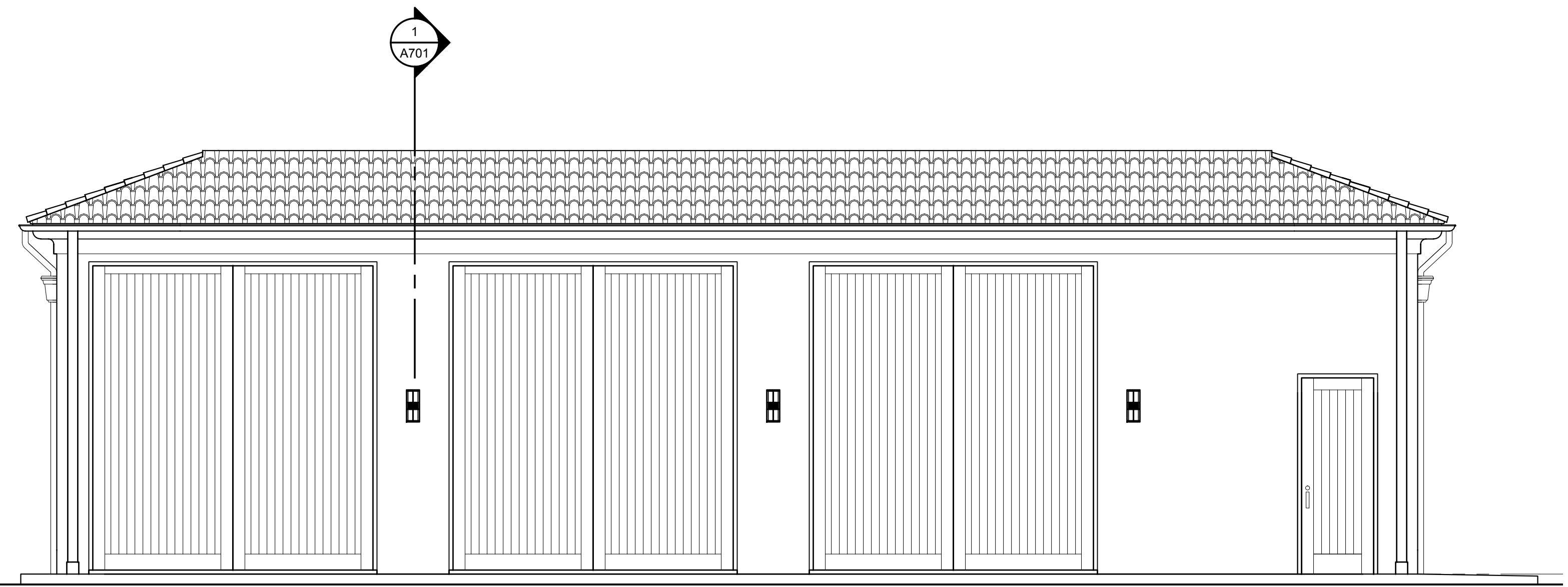
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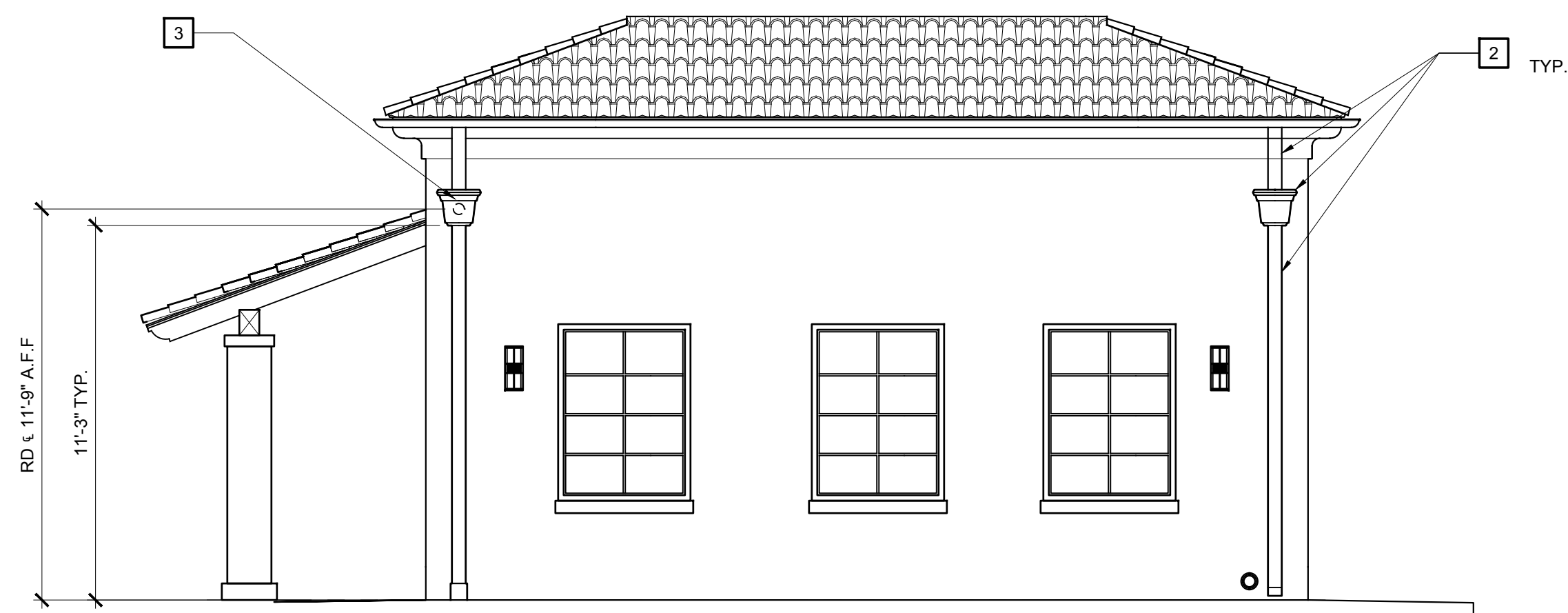
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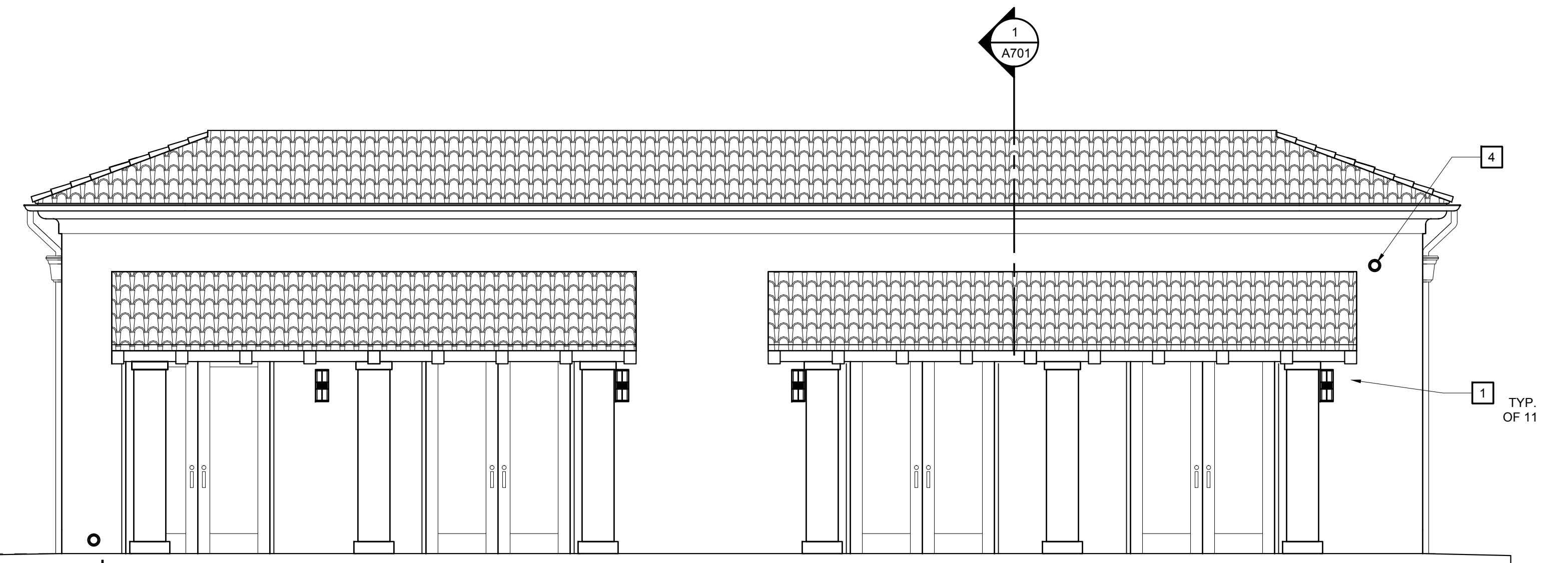
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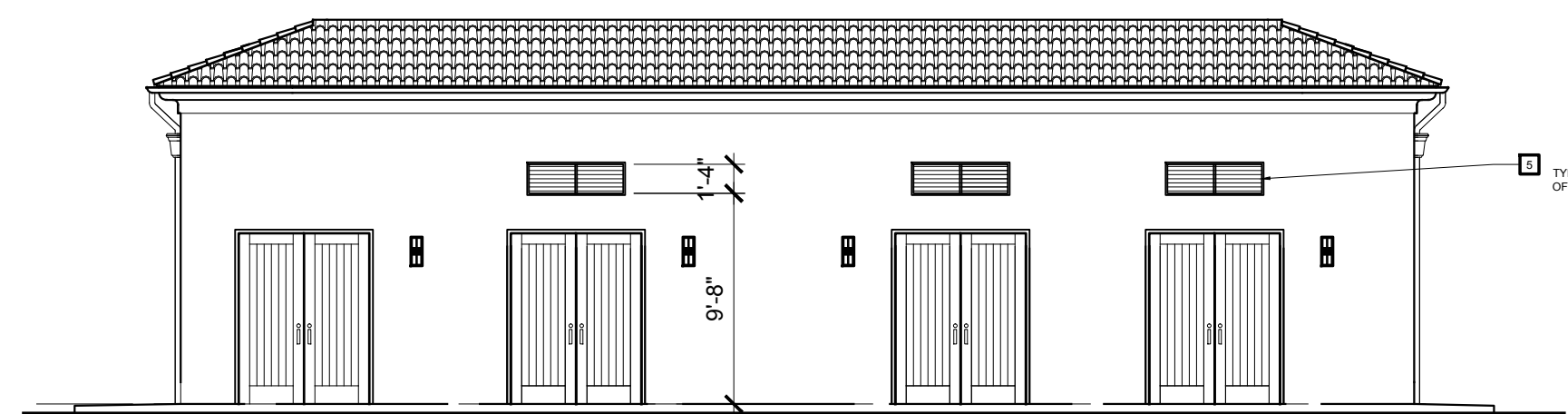
**2 EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



**3 SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"



**4 WEST ELEVATION**  
SCALE: 1/4" = 1'-0"



**5 WEST ELEVATION @ WALL**  
SCALE: 1/8" = 1'-0"

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EXTERIOR  
ELEVATIONS

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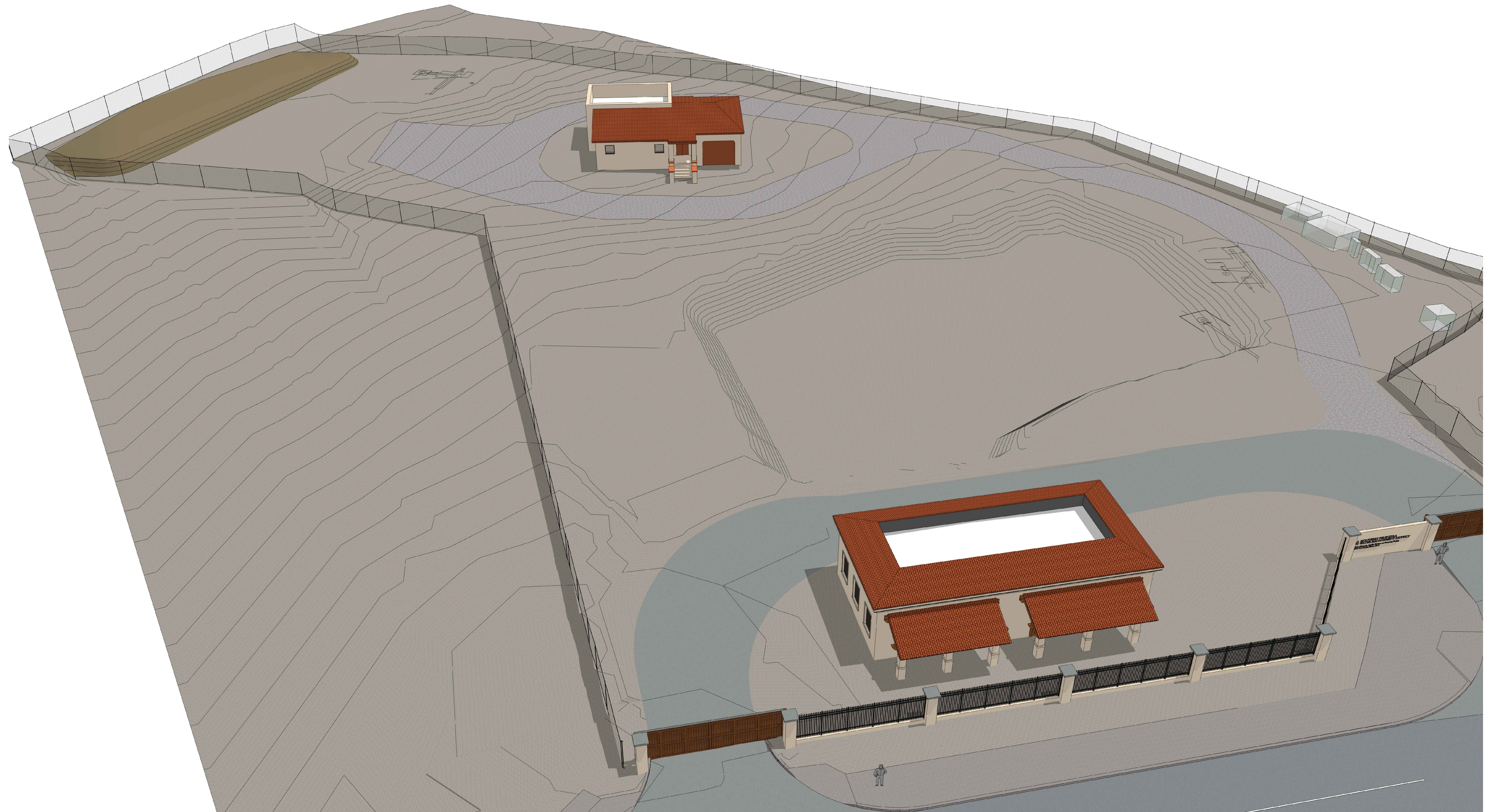
A401

FILE NAME: 18014.2 A401

### KEY NOTES

THE KEY NOTES THAT FOLLOW APPLY TO THE DRAWING(S) ON THIS SHEET ONLY. REFER TO FOLLOWING SHEETS FOR NOTES THAT ARE APPLICABLE TO THOSE DRAWINGS.

- 1 WALL MOUNTED LIGHTING FIXTURE, SEE FLOOR PLAN
- 2 COPPER GUTTER / CONDUCTOR HEAD / DOWNSPOUT SYSTEM, SEE ROOF PLAN
- 3 ROOF DRAIN LEADER THROUGH WALL INTO BACK OF CONDUCTOR HEAD, SEE ROOF PLAN
- 4 OVERFLOW ROOF DRAIN LEADER TROUGH WALL INSIDE CLAY TILE PIPE, SEE ROOF PLAN
- 5 MECHANICAL LOUVER, SEE MECHANICAL DRAWINGS FOR SPECIFICATION



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SHEET NAME:  
**CONCEPTUAL  
RENDERINGS**

SHEET NO.:  
**A411**  
FILE NAME: 18014.2 A411

**CONCEPTUAL AERIAL VIEW** ①  
SEE SITE PLANS, BUILDING PLANS AND  
ELEVATIONS FOR FINAL CONFIGURATION



**CONCEPTUAL VIEW FROM SOUTHWEST** ①

SEE SITE PLANS, BUILDING PLANS AND ELEVATIONS FOR FINAL CONFIGURATION



**CONCEPTUAL VIEW FROM NORTHWEST** ②

SEE SITE PLANS, BUILDING PLANS AND ELEVATIONS FOR FINAL CONFIGURATION

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PERSPECTIVE RENDERINGS

SHEET NO.:

**A412**



## KEY NOTES

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- 1 CONCRETE SLAB ON GRADE AND SUMP
- 2 C.M.U. WALL OR COLUMN, AT INTERIOR PROVIDE BARE UNPAINTED BLOCK; AT EXTERIOR PROVIDE 2 COAT CEMENT PLASTER FINISH
- 3 3" TOPPING OVER PRECAST CONCRETE JOISTS
- 4 CLAY TILE ROOFING OVER MANSARD FRAMING
- 5 CLAY TILE ROOFING OVER COVERED WALK FRAMING
- 6 SINGLE PLY ROOFING OVER 1" INSULATION BOARD EXCEPT BUILD UP WITH TAPERED INSULATION FOR ROOF DRAINAGE PER ROOF DRAIN LAYOUT
- 7 POURED IN PLACE CONCRETE PLATFORM
- 8 GALV. STEEL GUARDRAIL
- 9 HOIST BEAM ASSEMBLY - COORDINATE EXACT LOCATIONS AND CONFIGURATION WITH TANK MFR. INSTALLATION REQUIREMENTS



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ARCHITECTS LLP

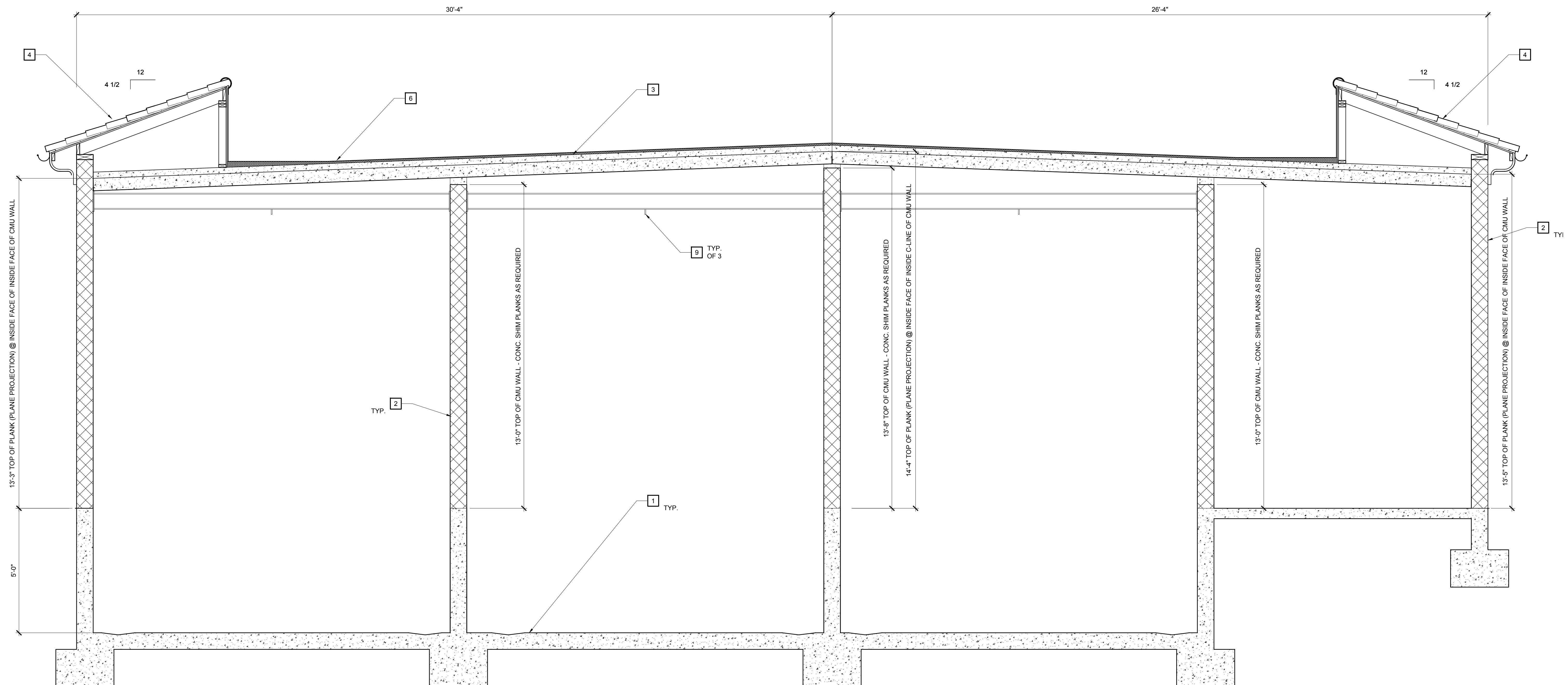
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SHEET NAME:

BUILDING  
SECTION

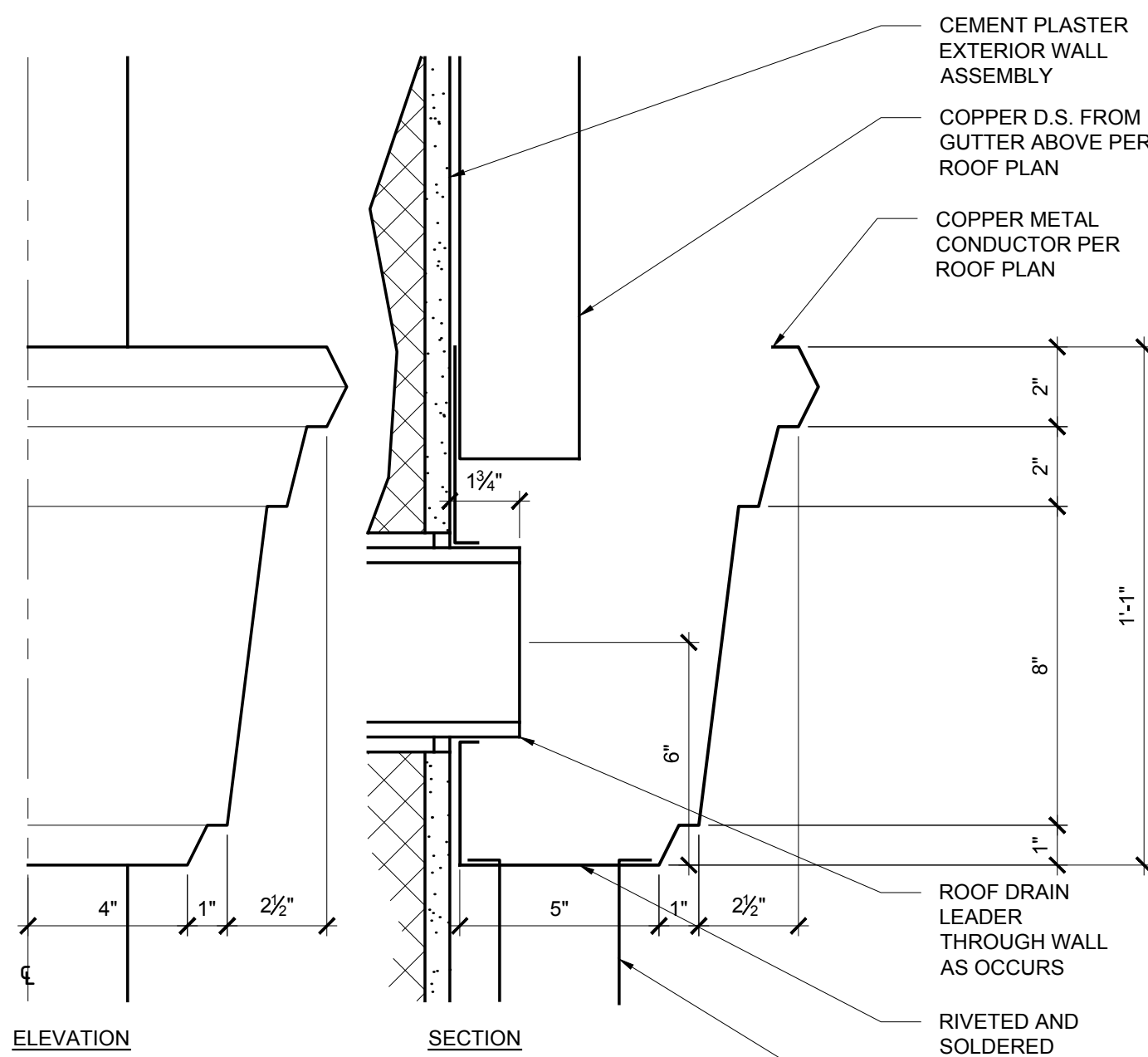
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A702

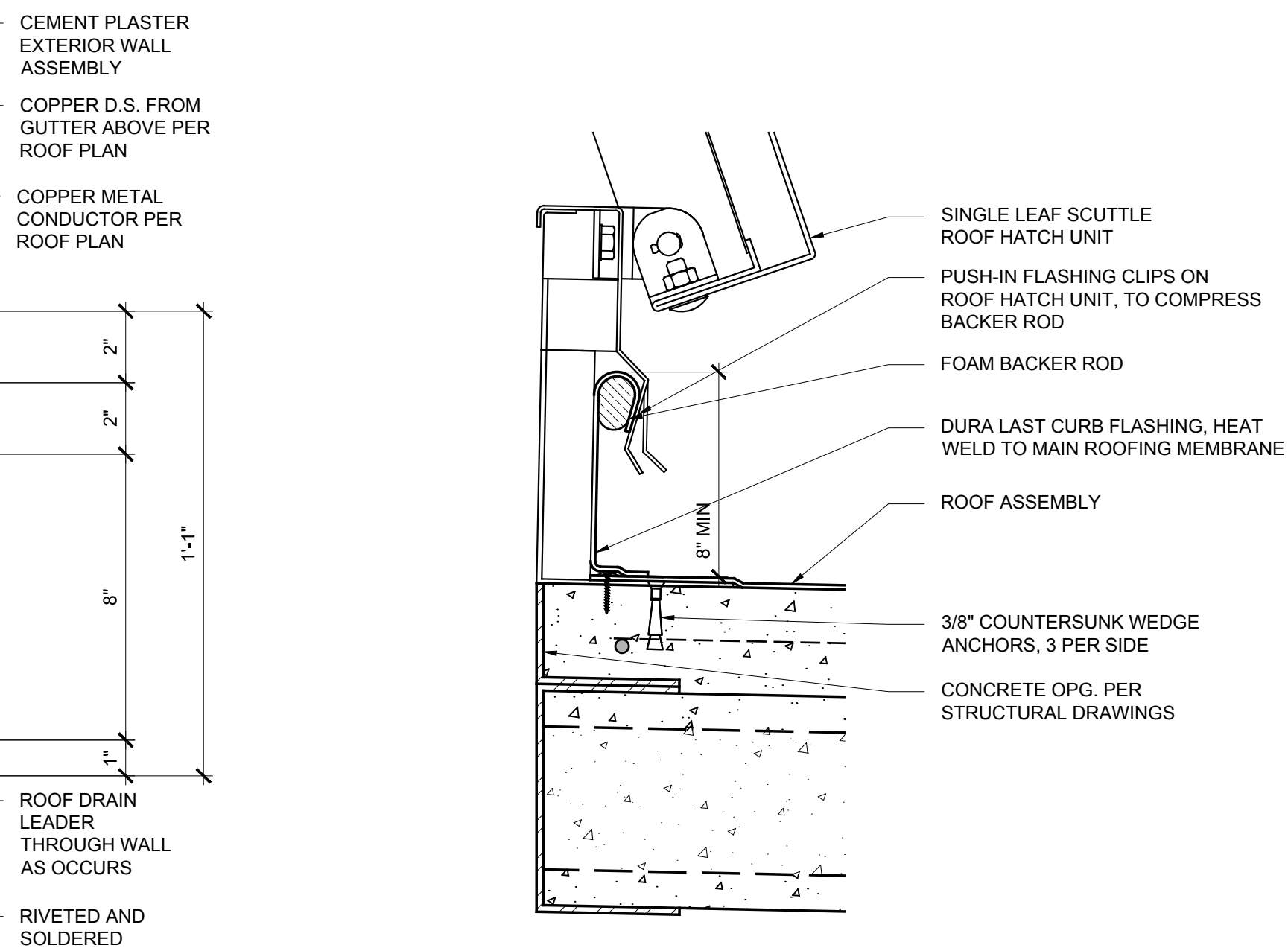
FILE NAME: 18014.2 A702

NOTE: SEE BUILDING SECTION 1/A701 FOR TYPICAL DETAIL REFERENCES AND NOTES

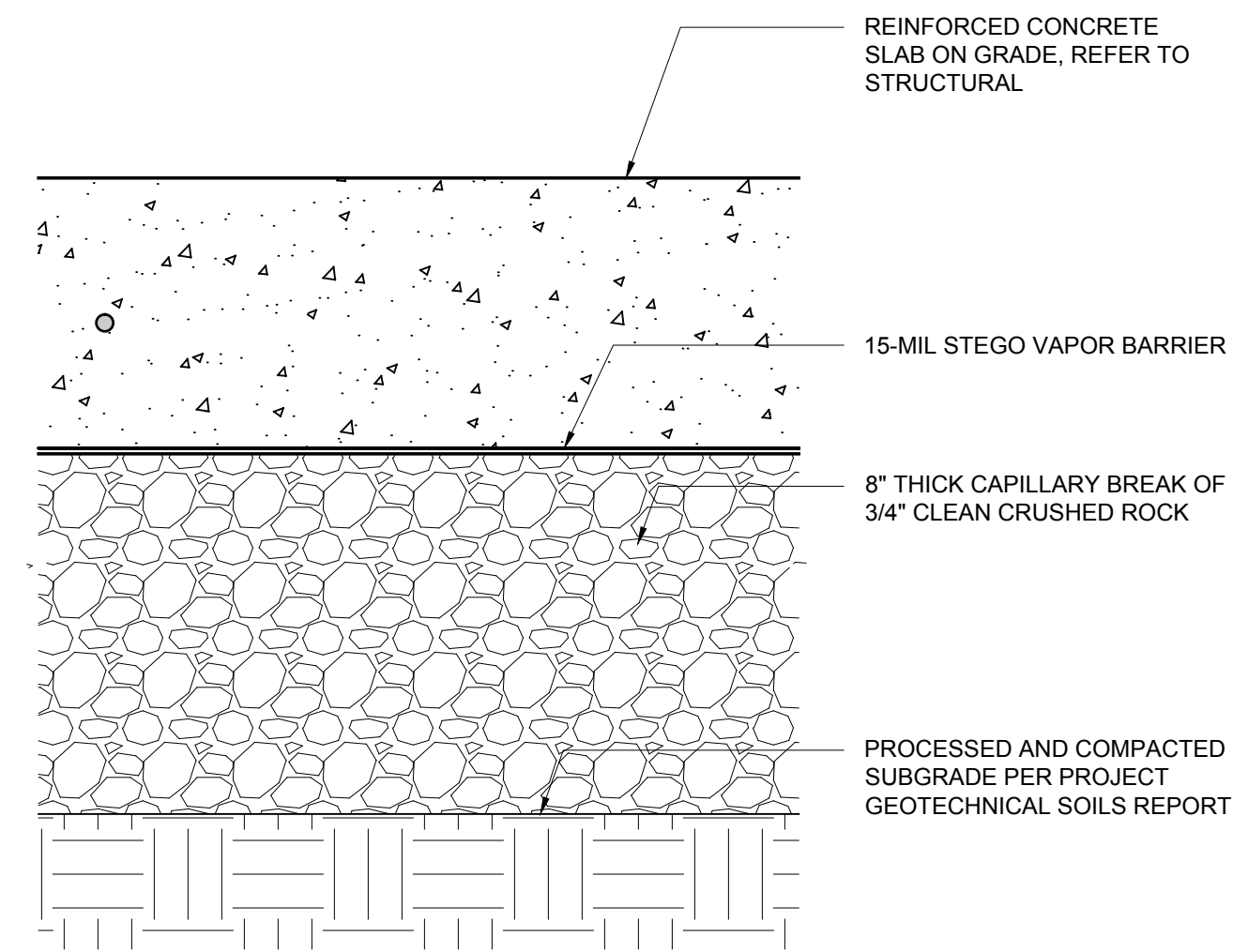
1 BUILDING SECTION  
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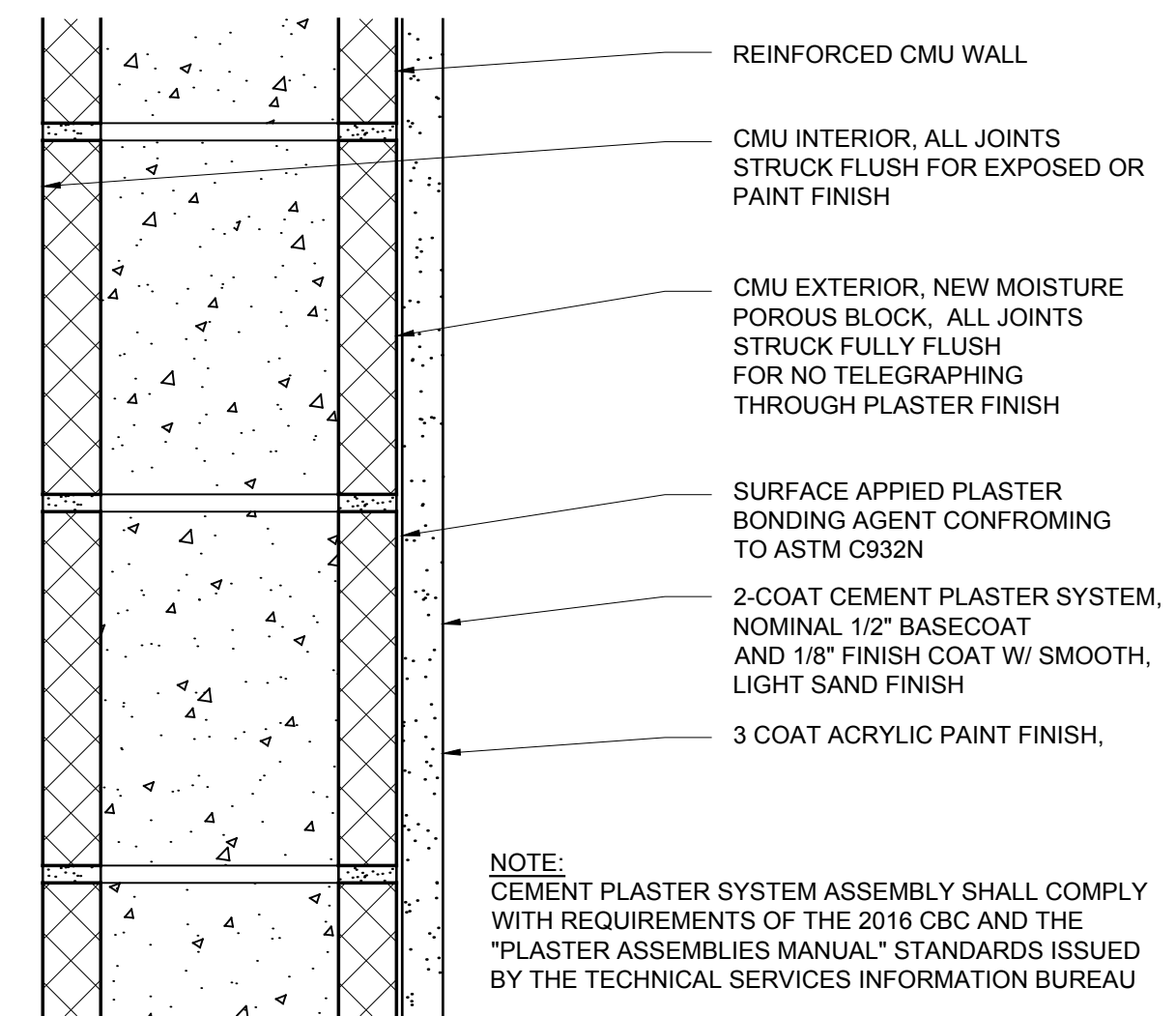
**10 CONDUCTOR HEAD**  
SCALE: 3" = 1'-0"



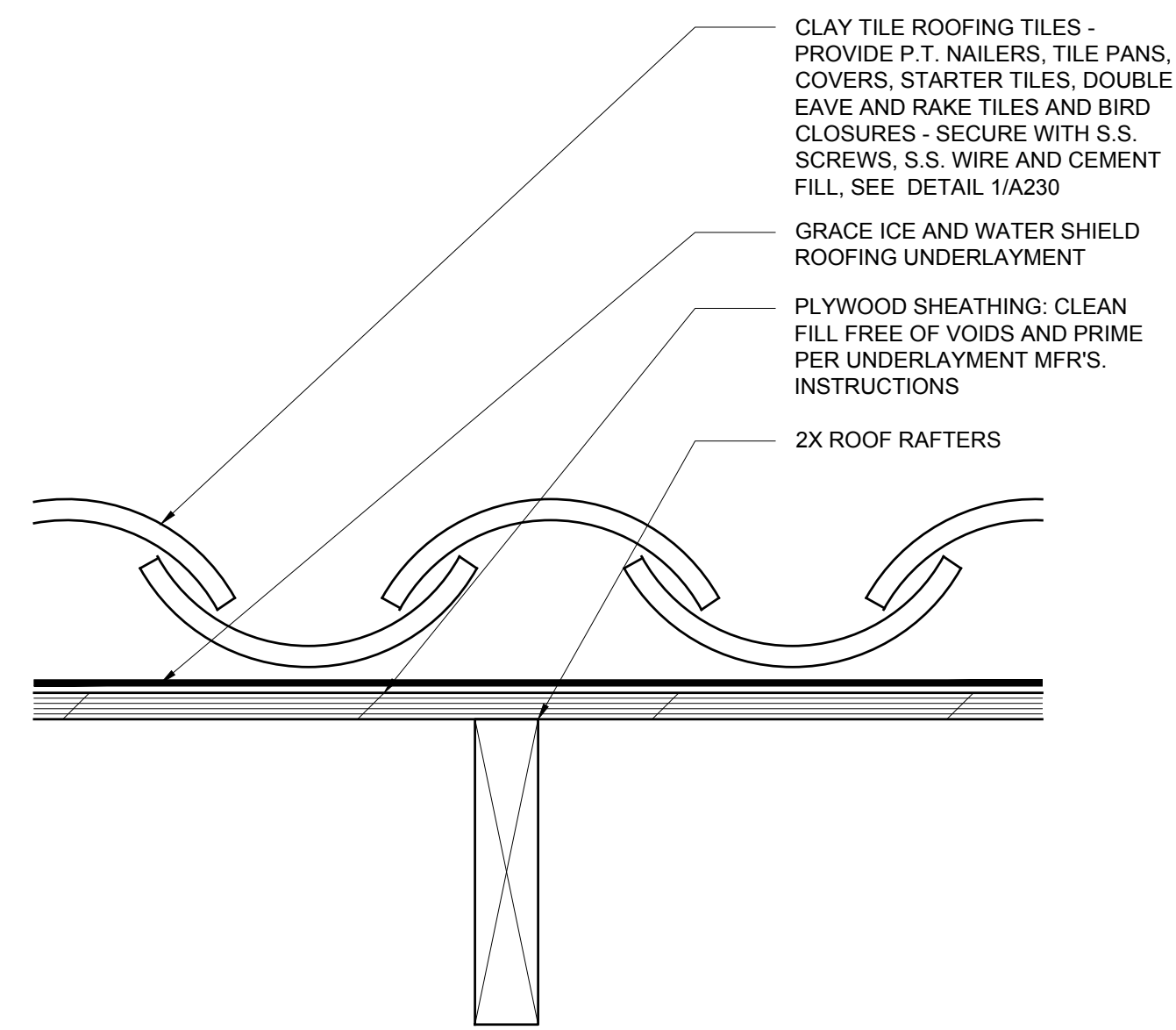
**7 ROOF HATCH**  
SCALE: 3" = 1'-0"



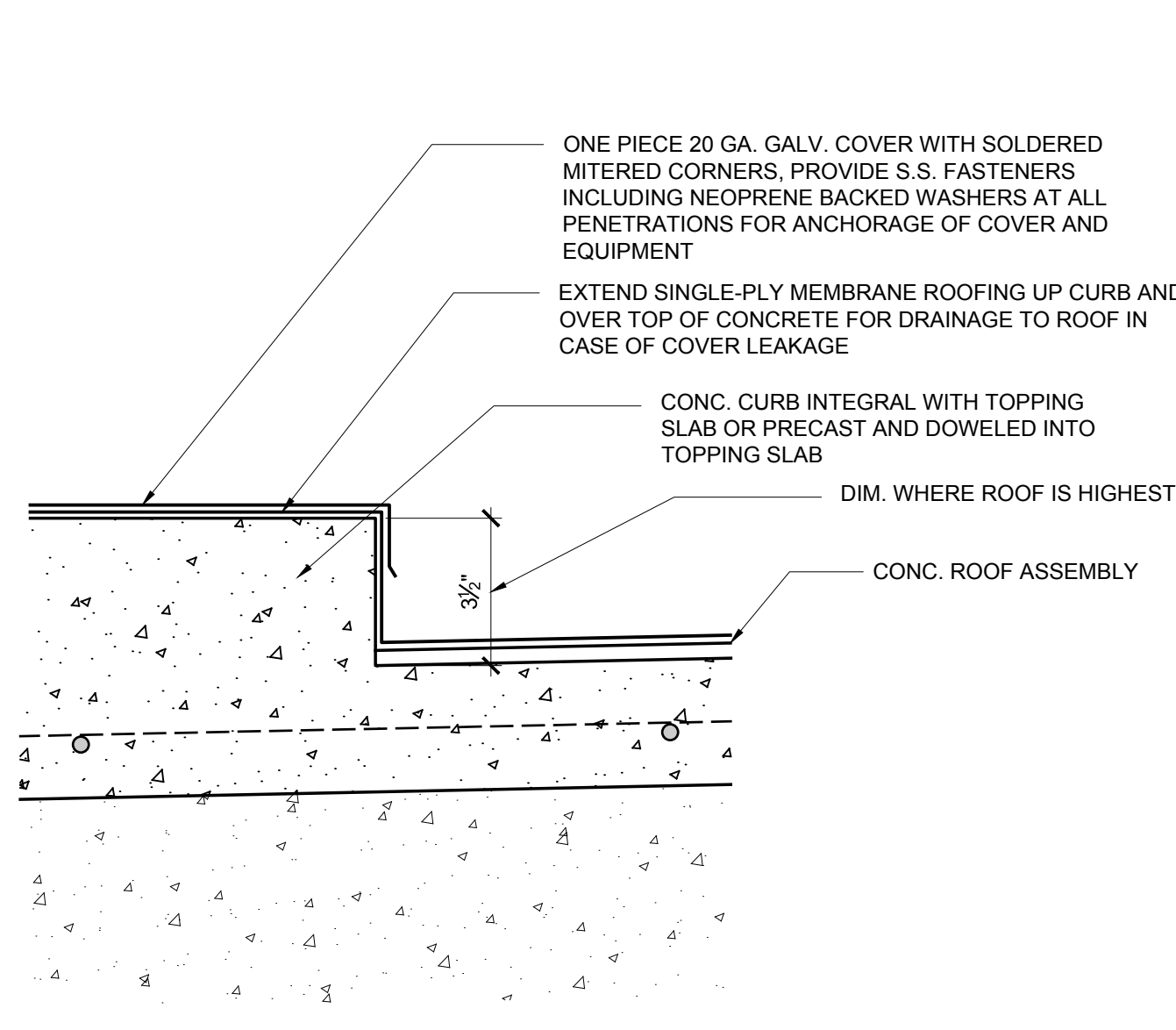
**4 SLAB ON GRADE ASSEMBLY**  
SCALE: 3" = 1'-0"



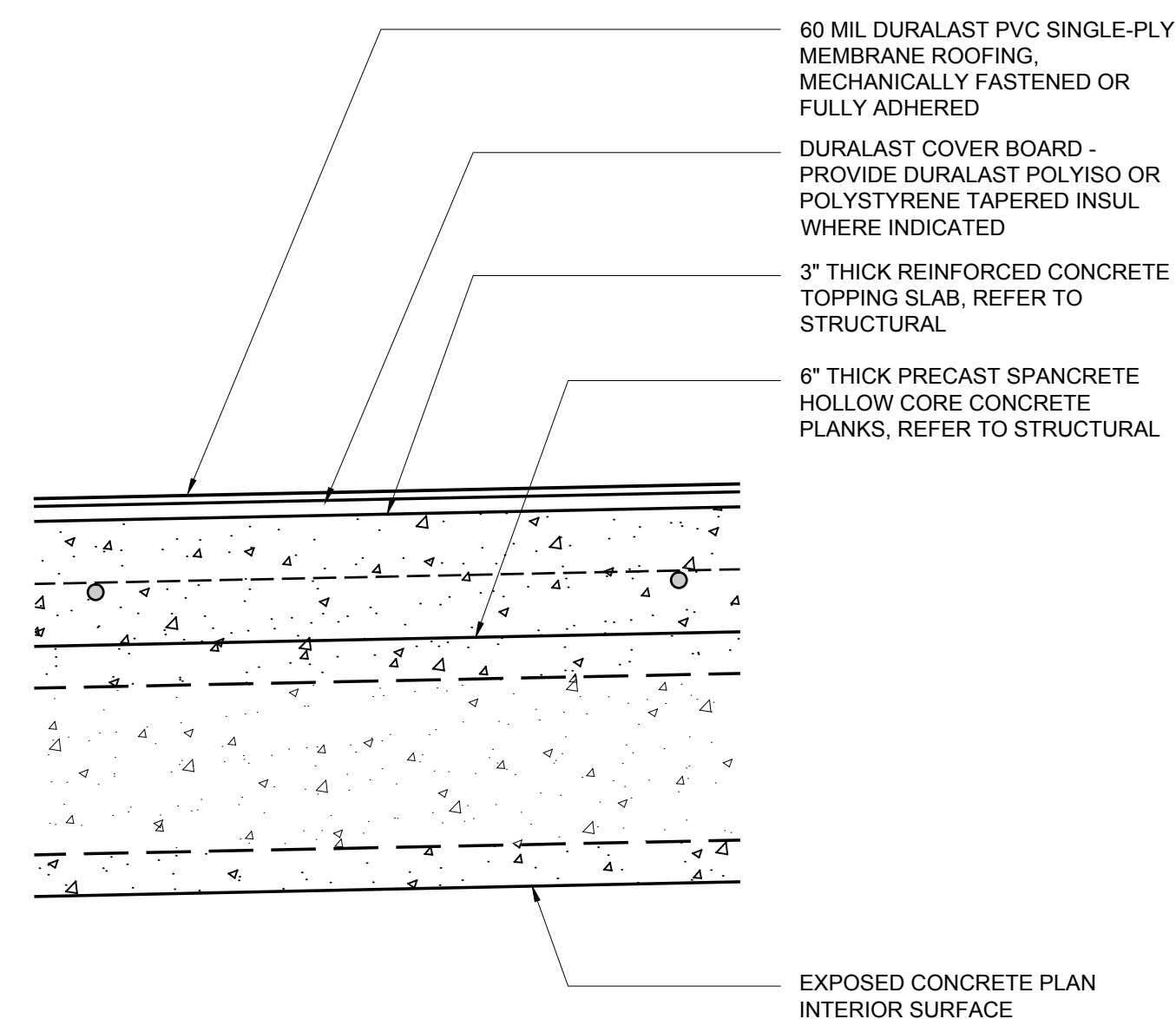
**1 CEMENT PLASTER EXTERIOR WALL ASSEMBLY**  
SCALE: 3" = 1'-0"



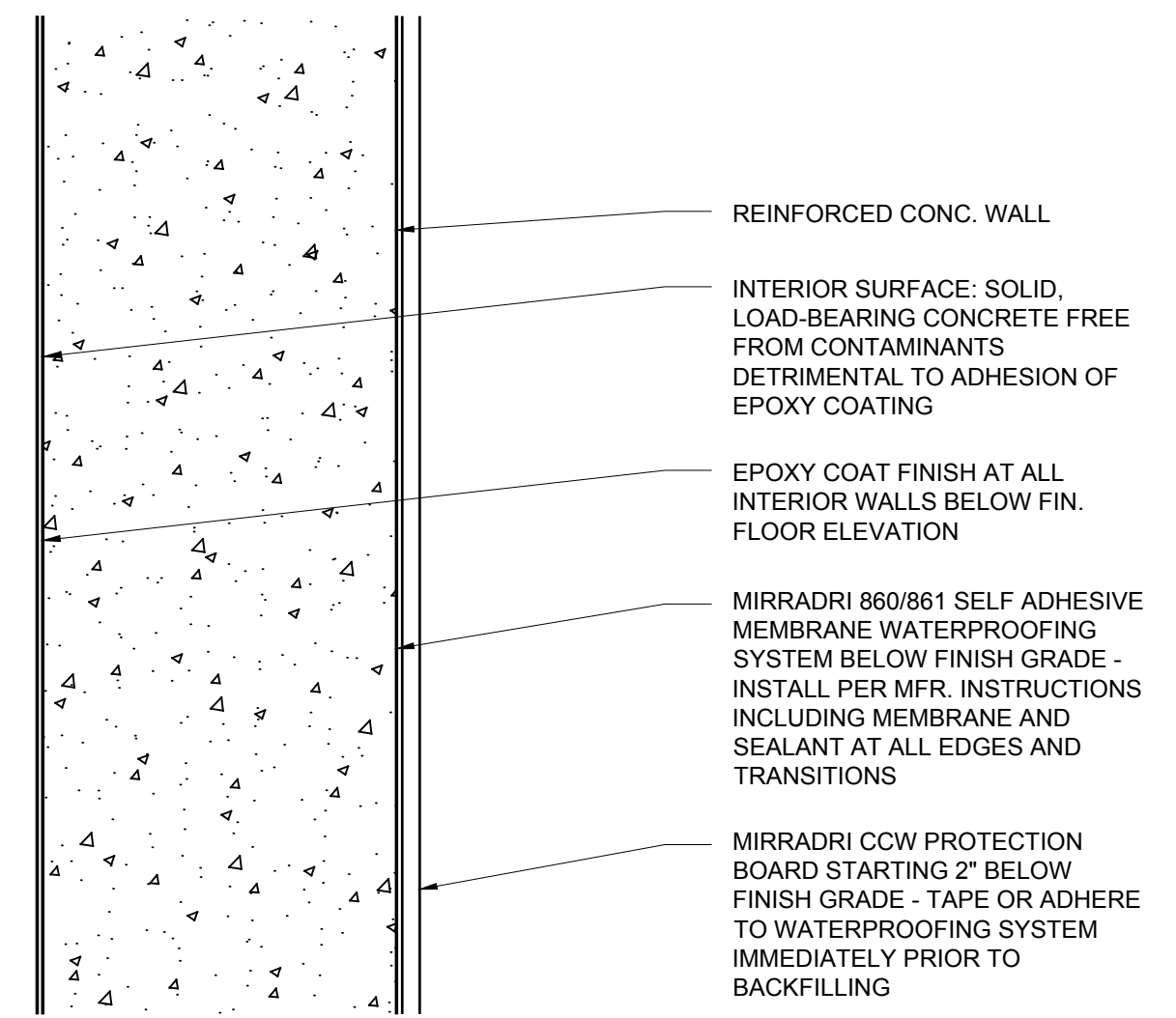
**11 WOOD ROOF ASSEMBLY**  
SCALE: 3" = 1'-0"



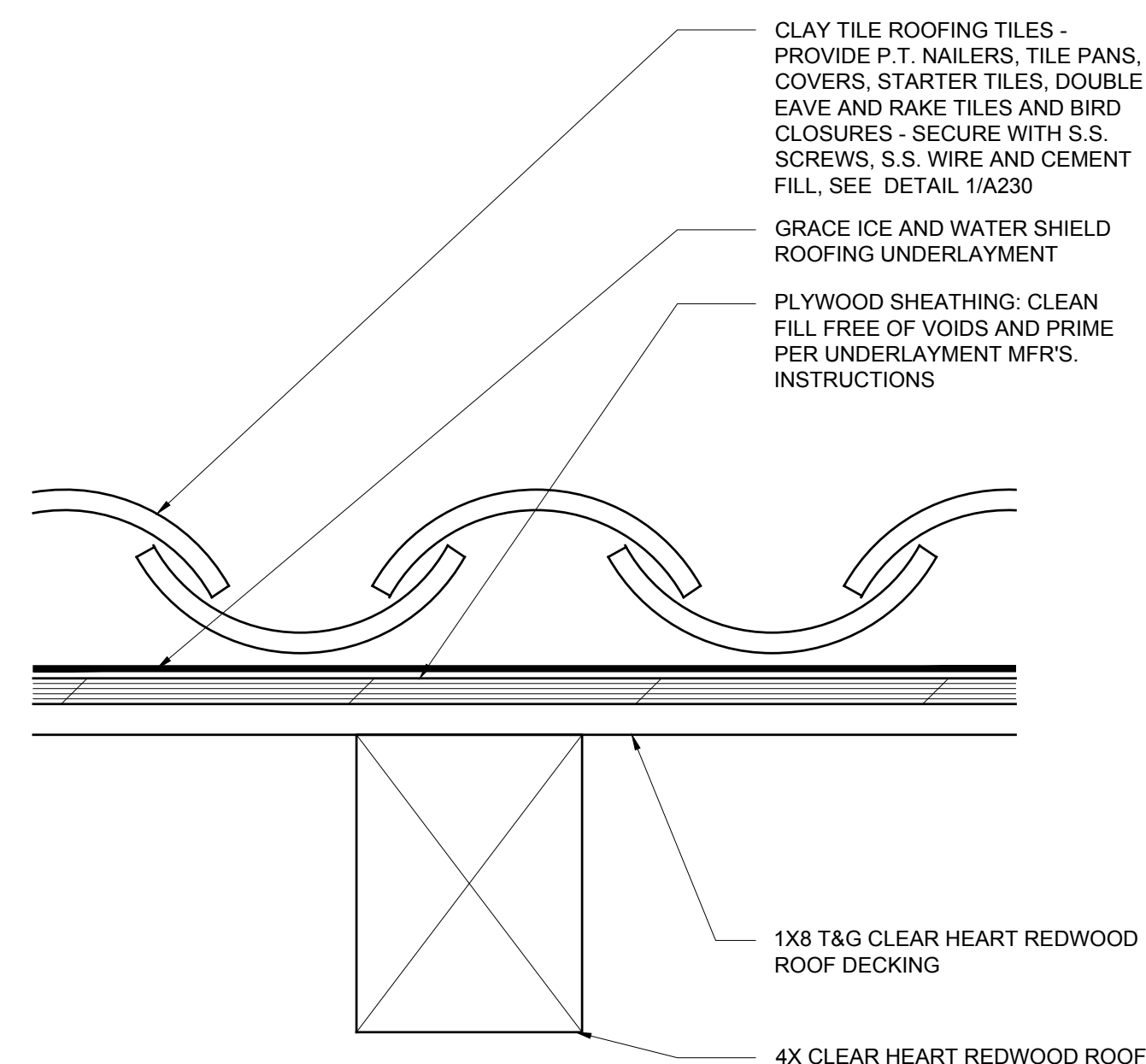
**8 ROOF CURB**  
SCALE: 3" = 1'-0"



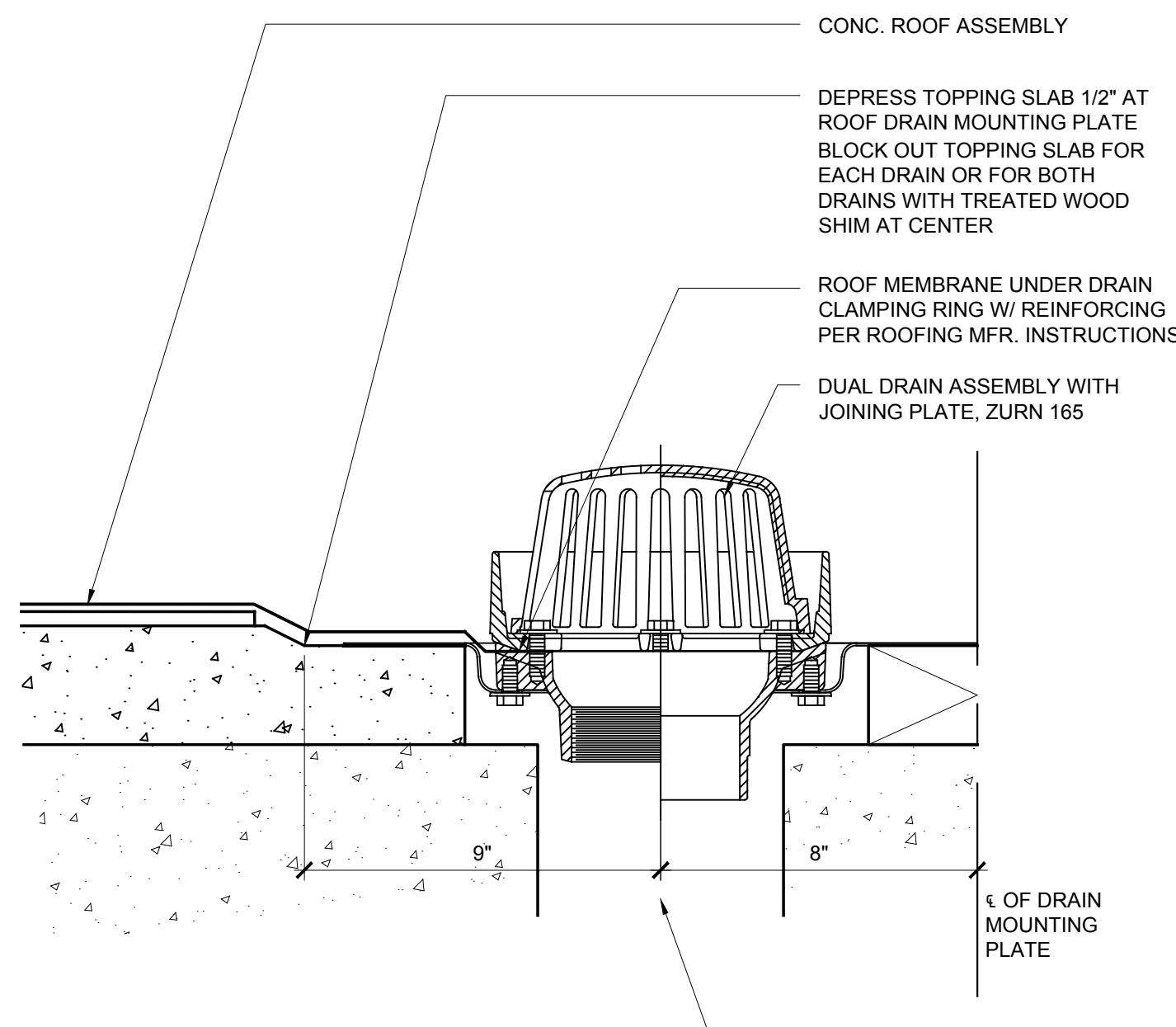
**5 CONC. ROOF ASSEMBLY**  
SCALE: 3" = 1'-0"



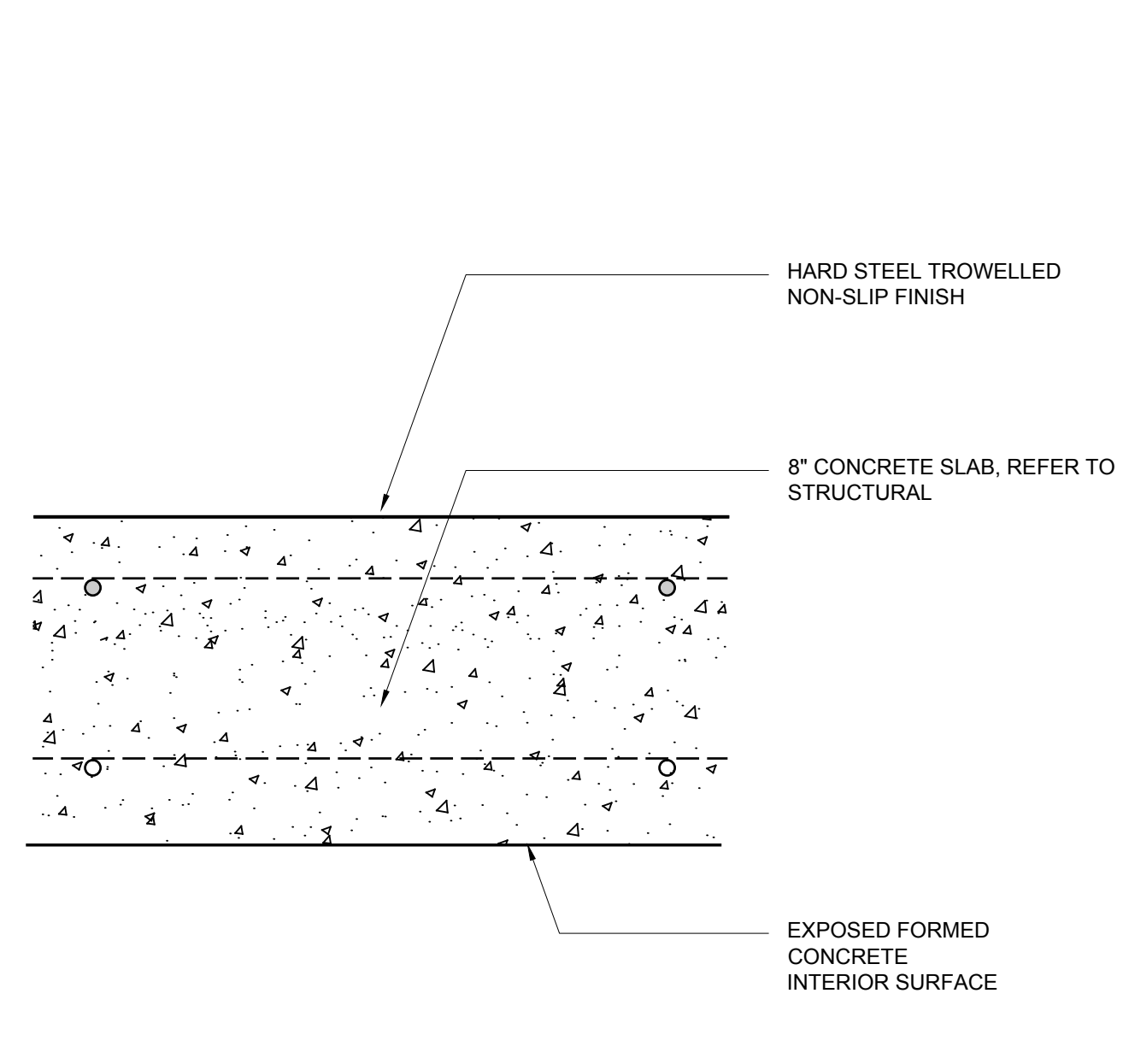
**2 BELOW GRADE EXTERIOR WALL ASSEMBLY**  
SCALE: 3" = 1'-0"



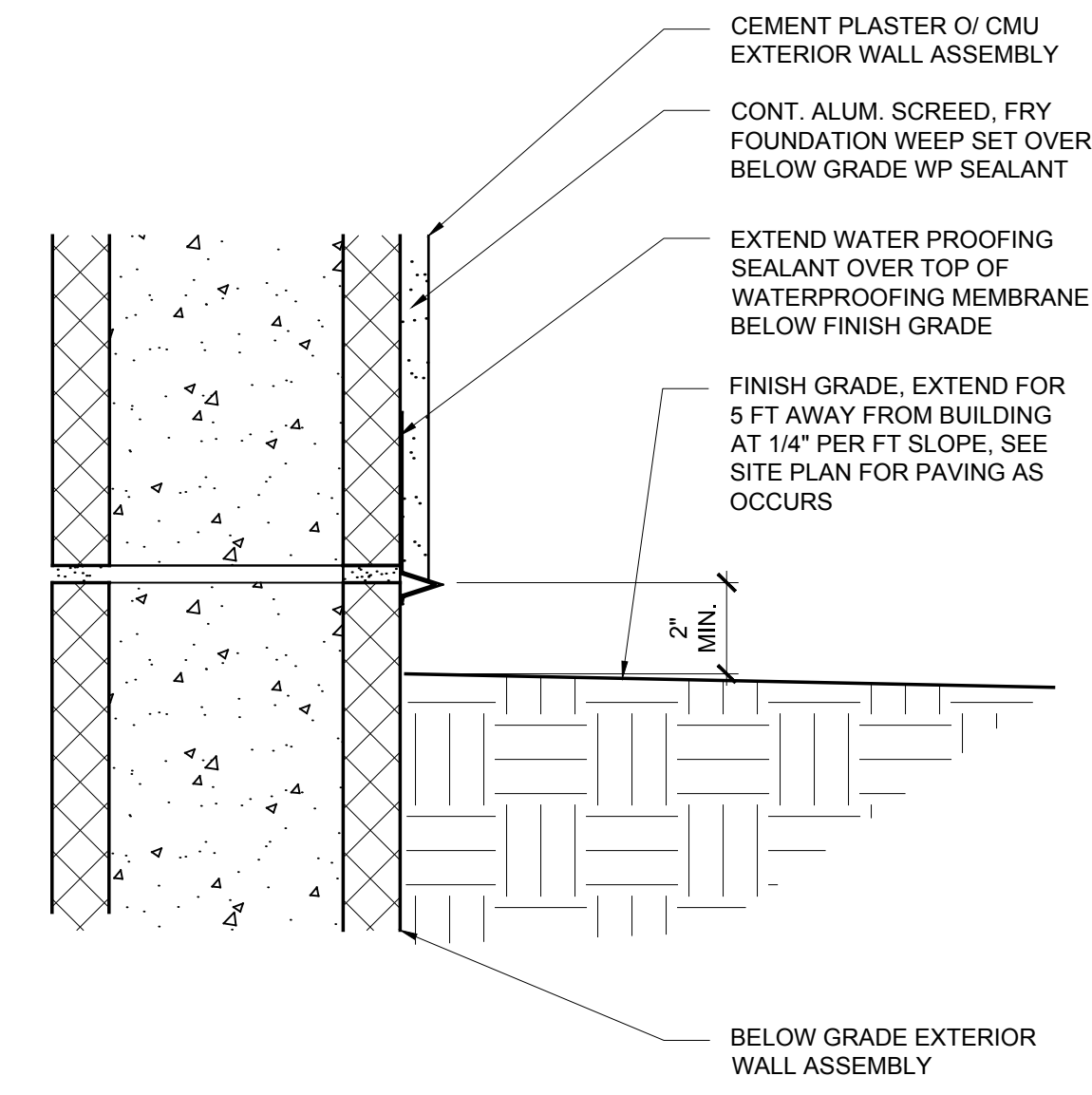
**12 TIMBER ROOF ASSEMBLY**  
SCALE: 3" = 1'-0"



**9 ROOF DRAINS**  
SCALE: 3" = 1'-0"

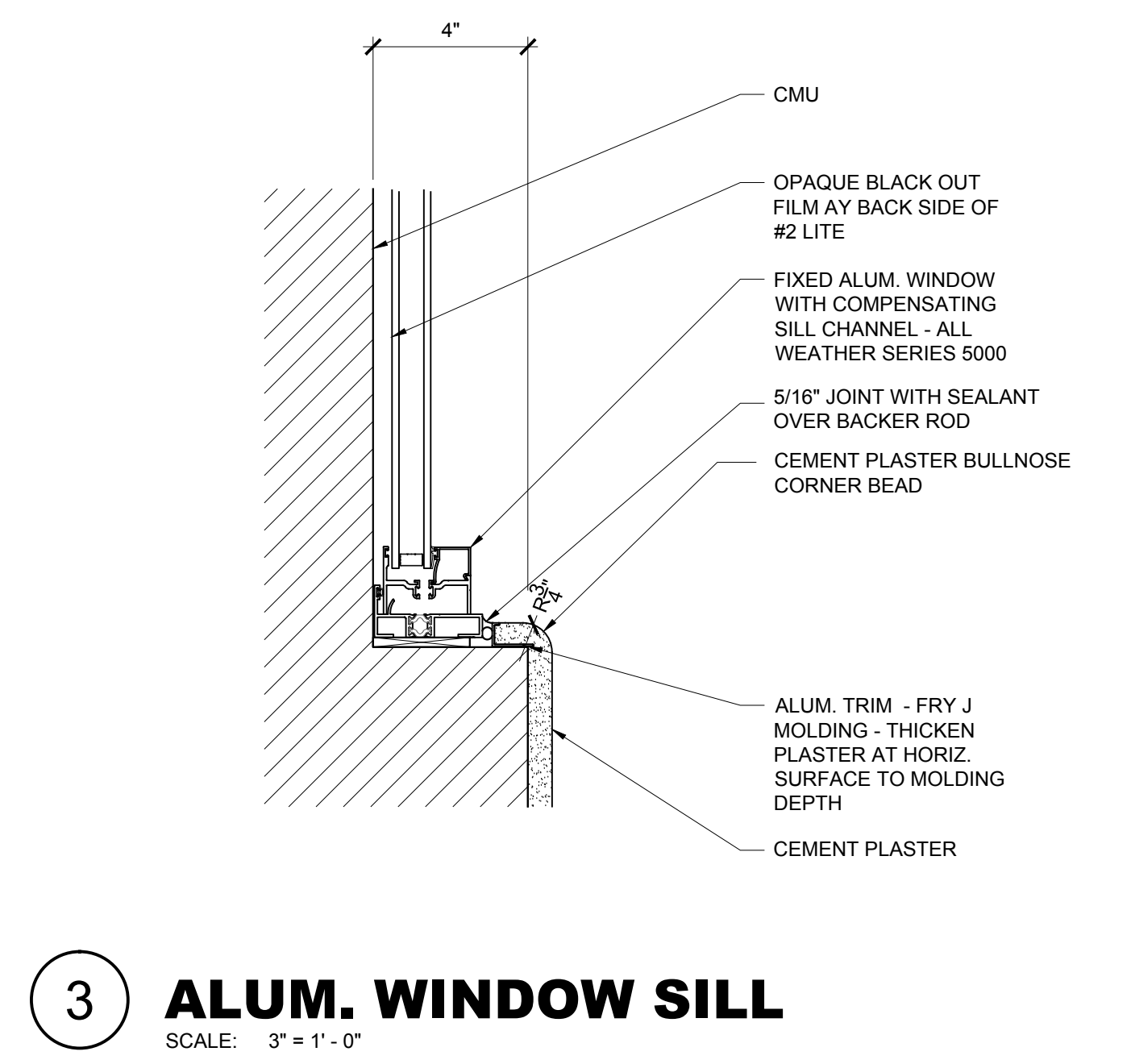
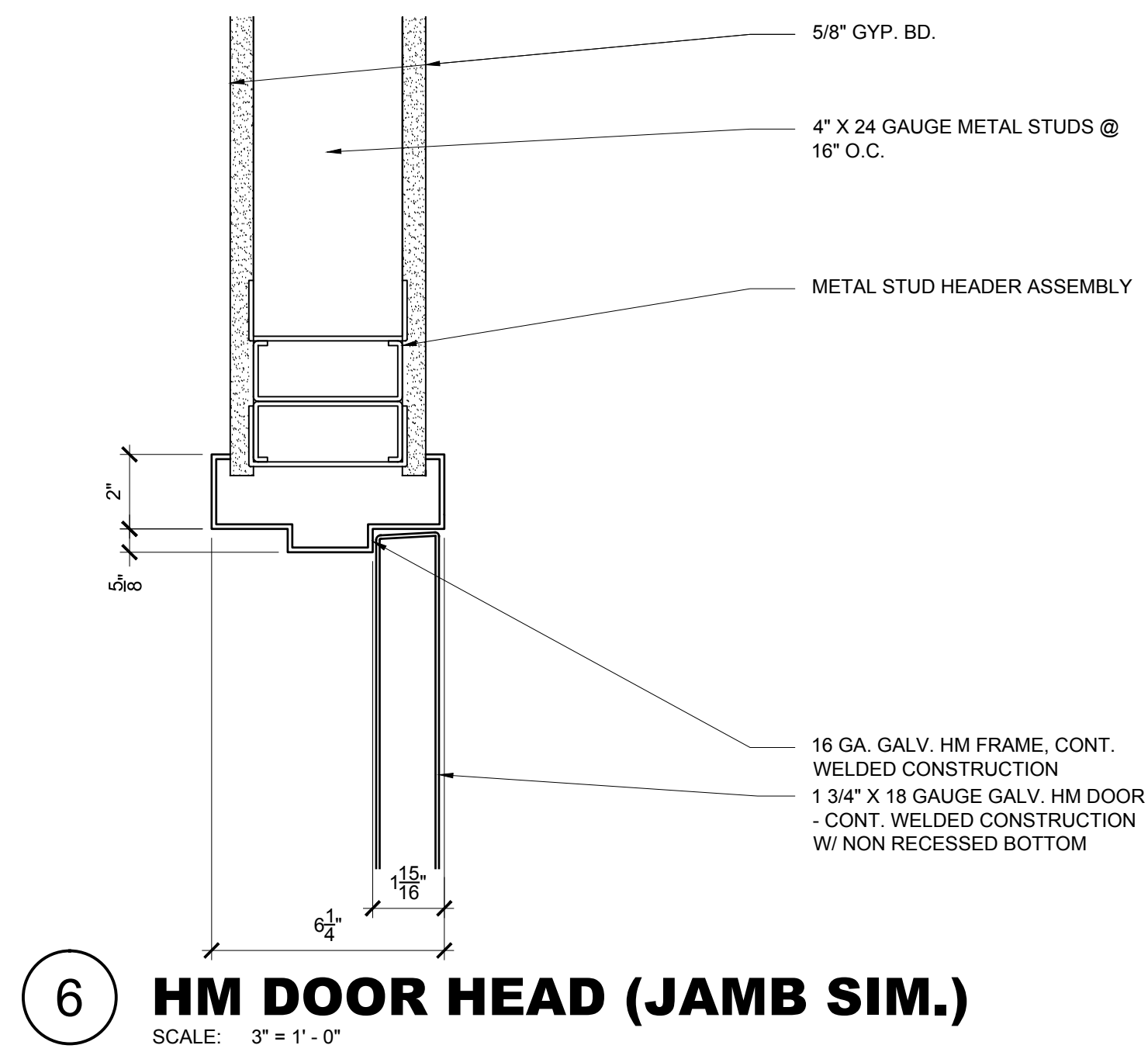
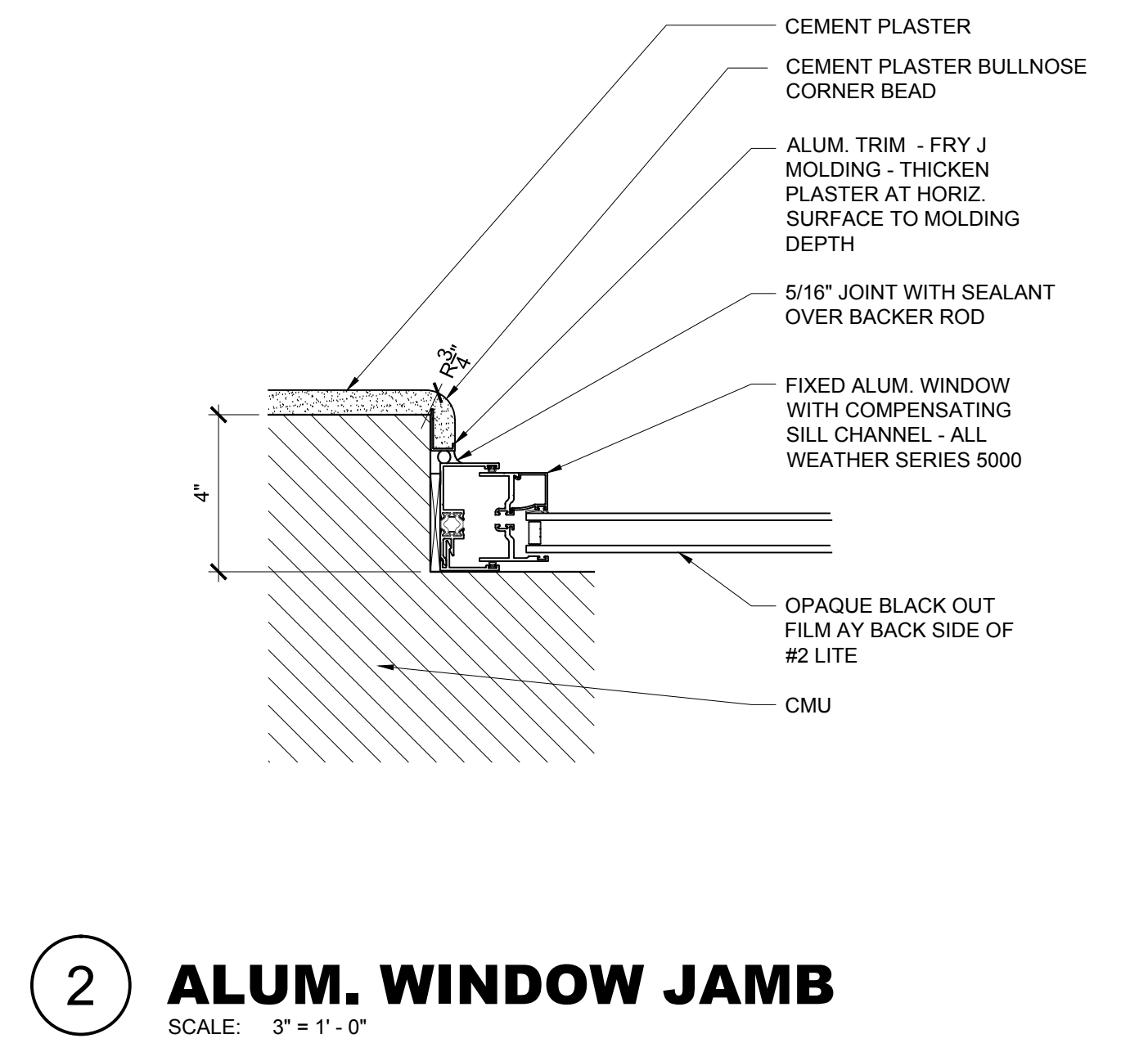
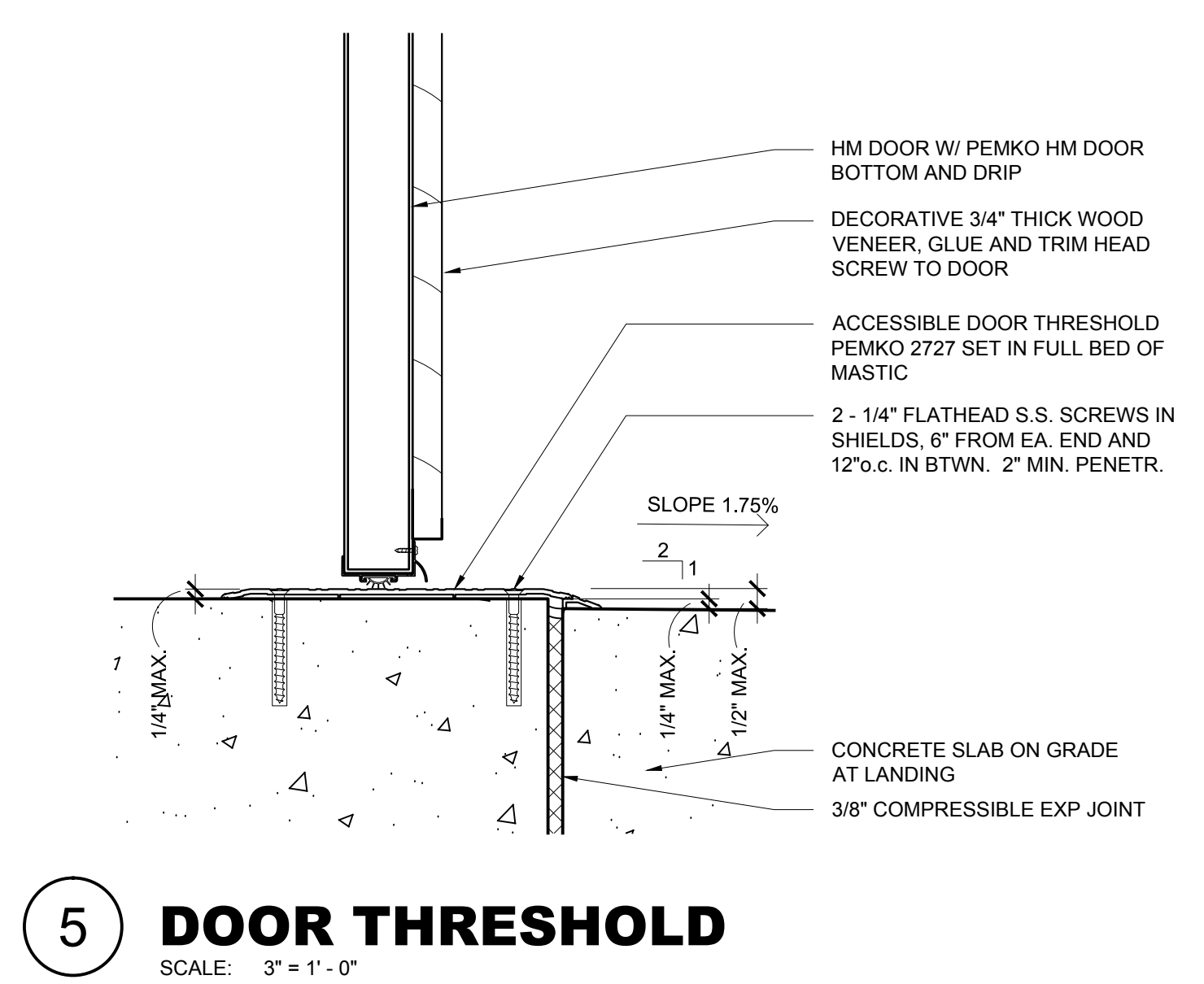
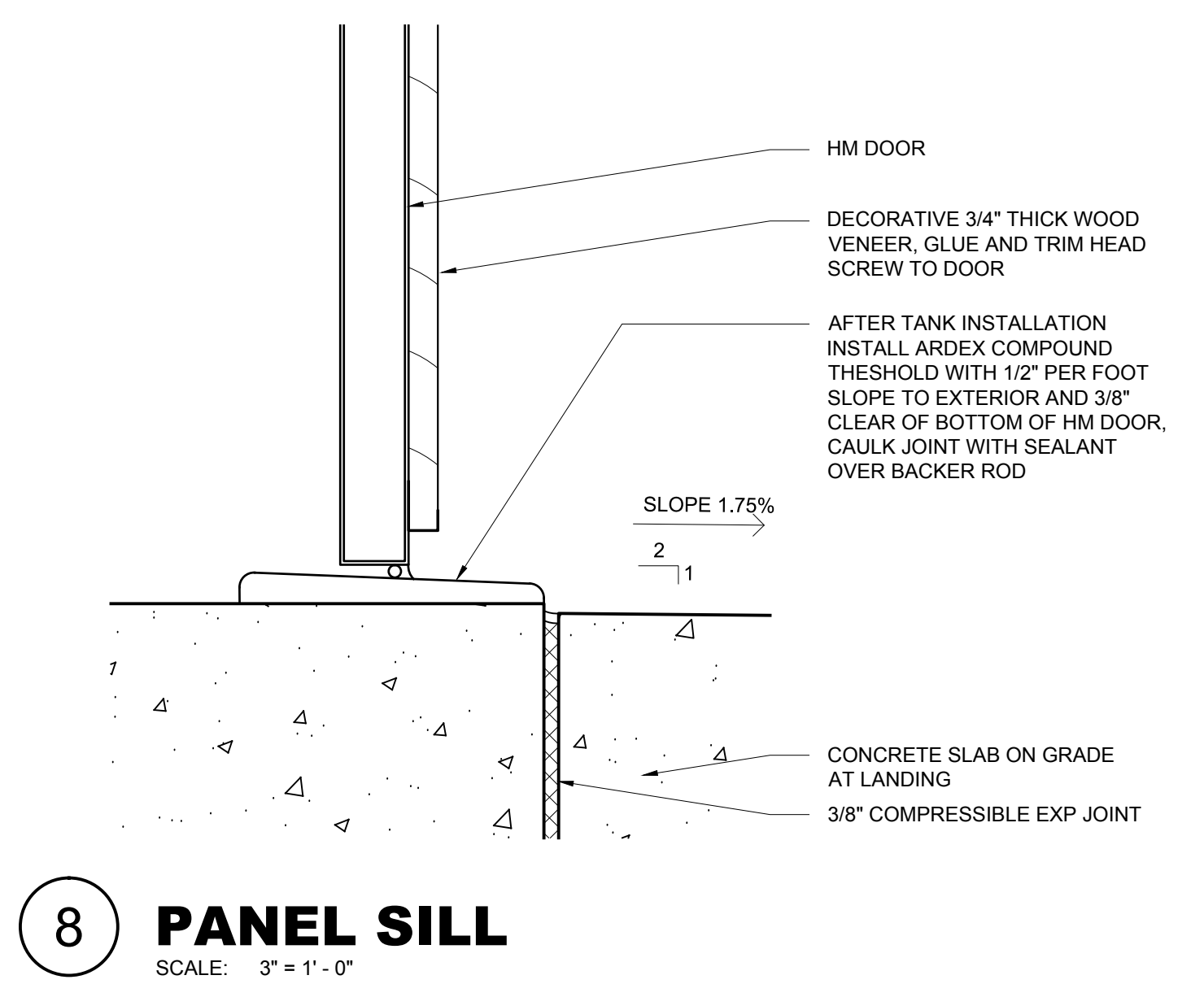
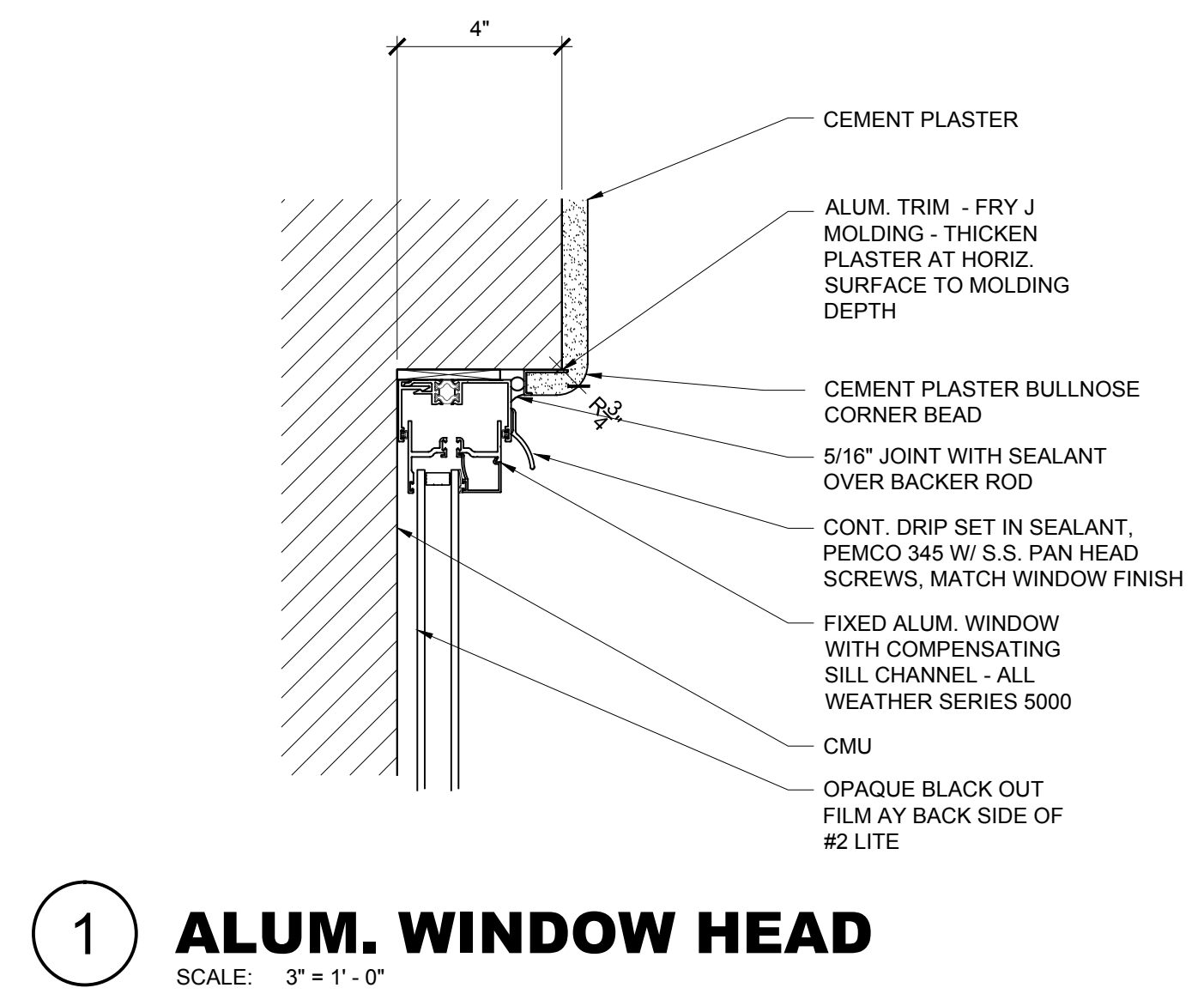
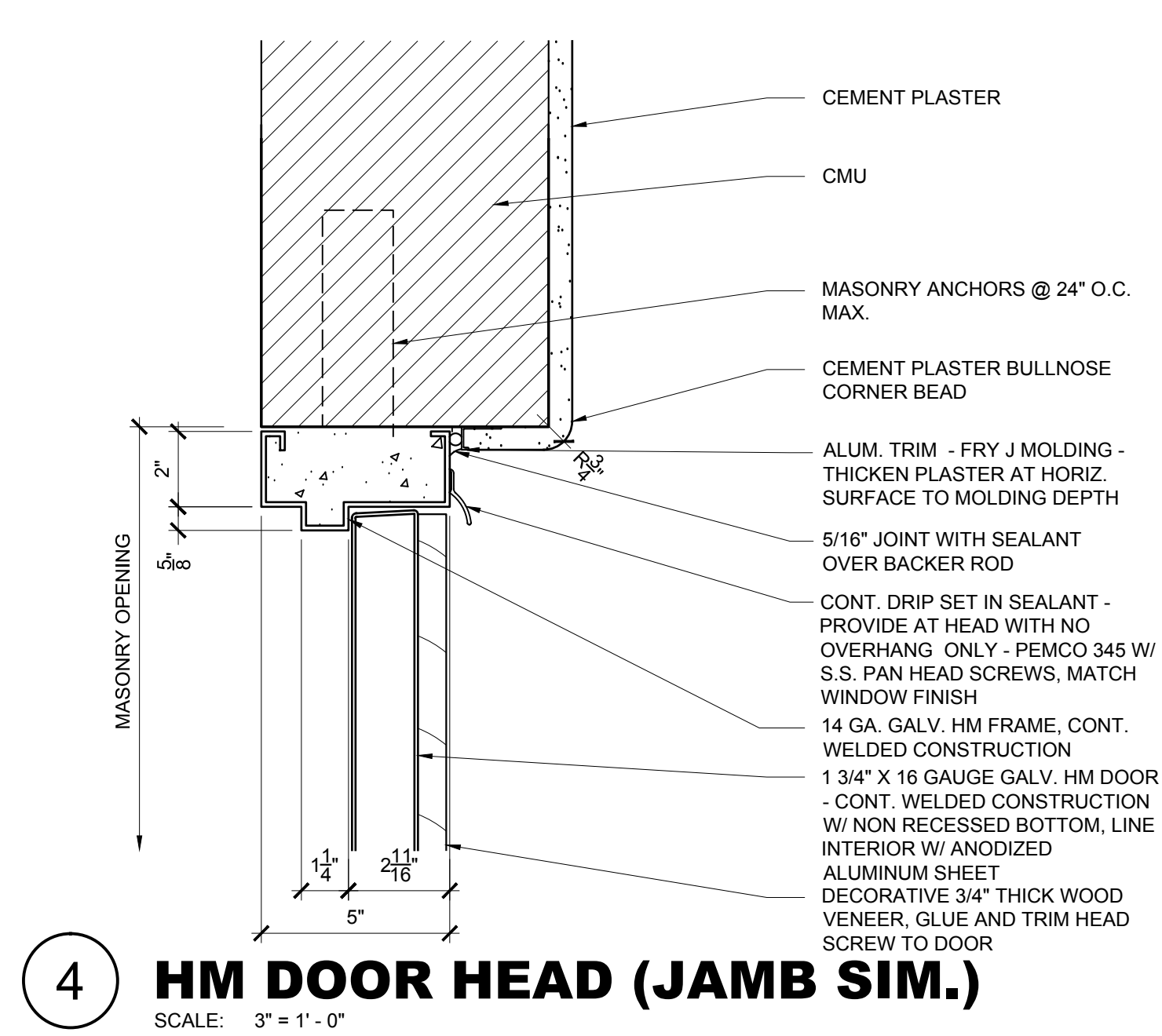
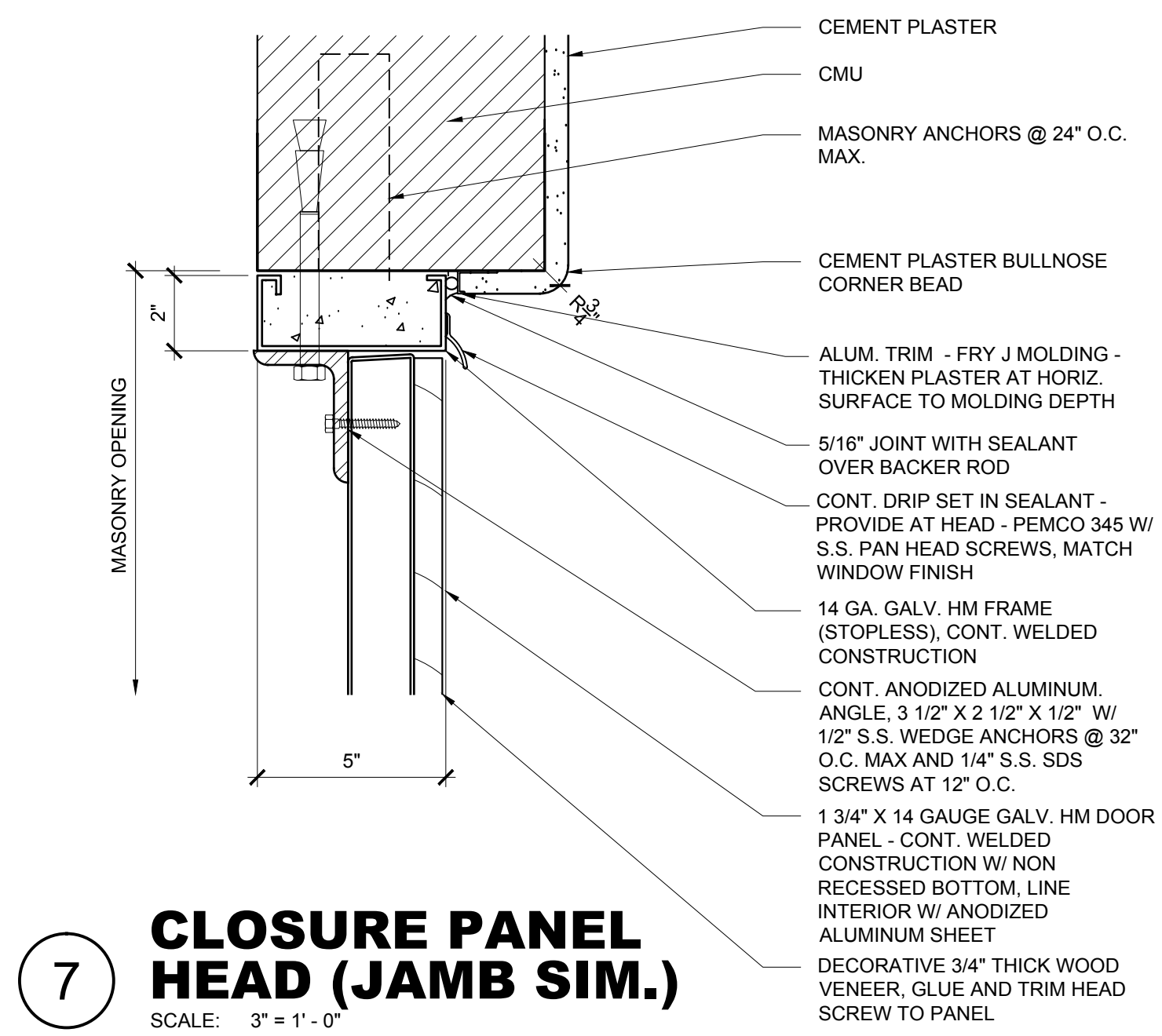


**6 CONC. FLOOR ASSEMBLY**  
SCALE: 3" = 1'-0"

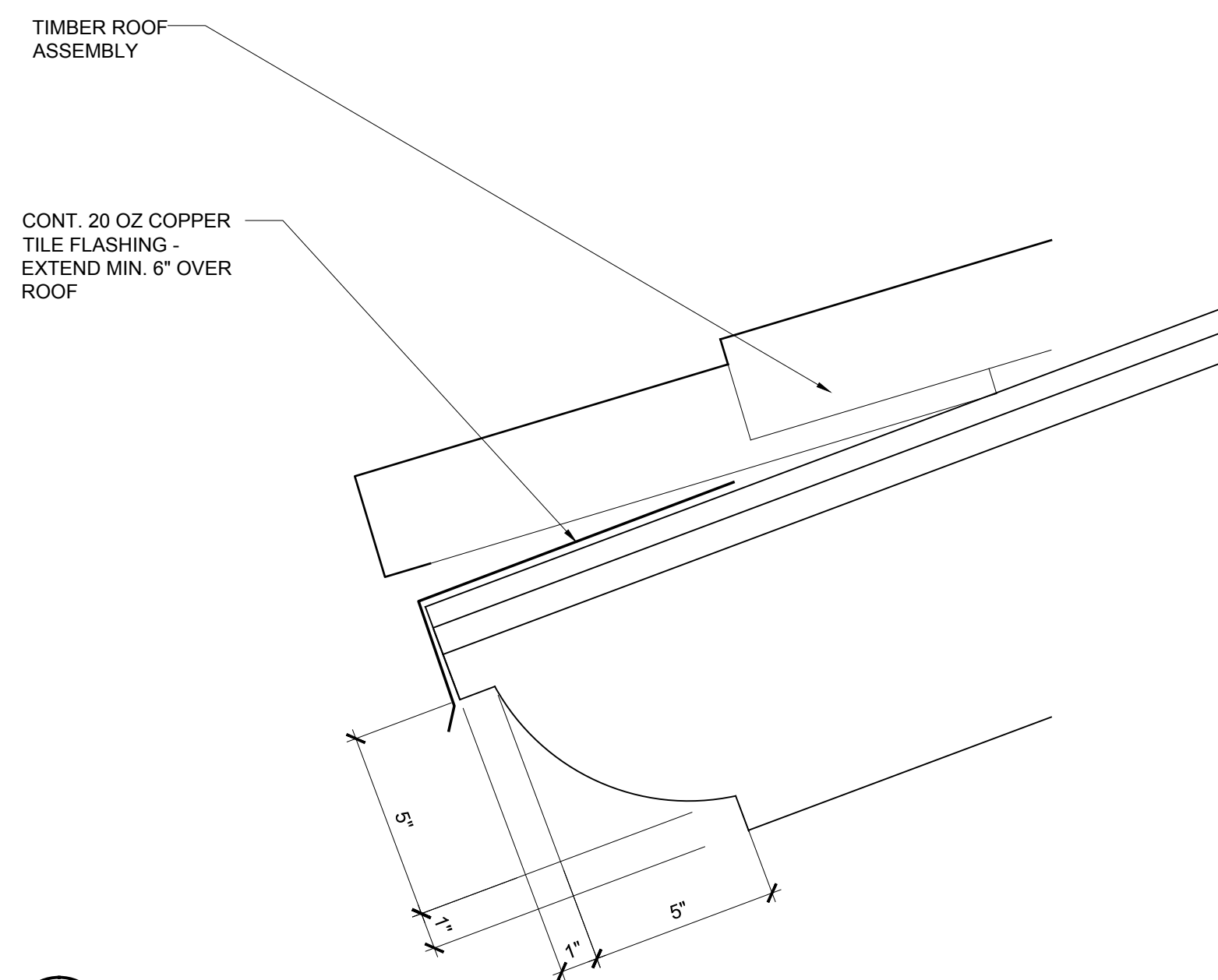


**3 WALL BASE DETAIL**  
SCALE: 3" = 1'-0"

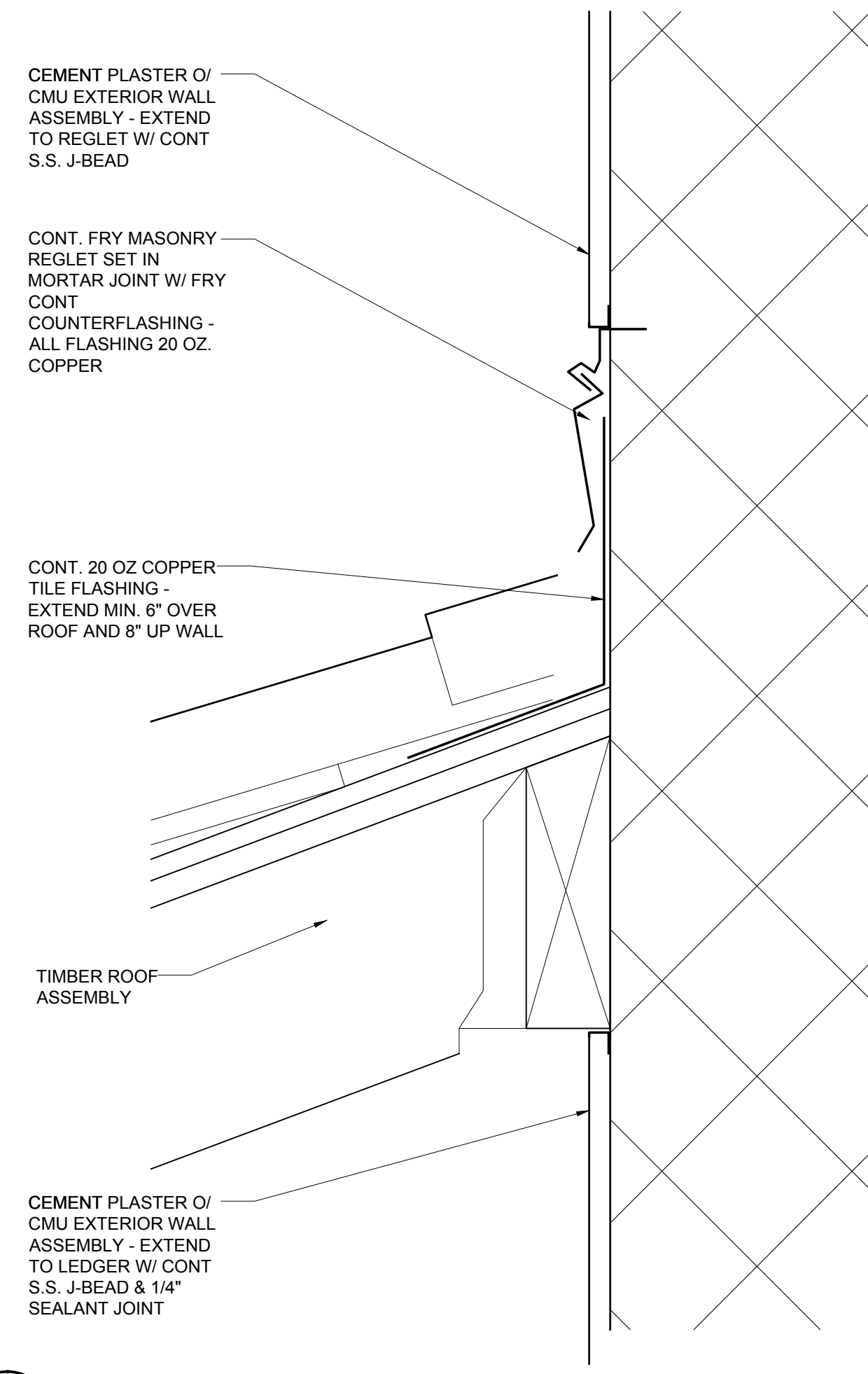
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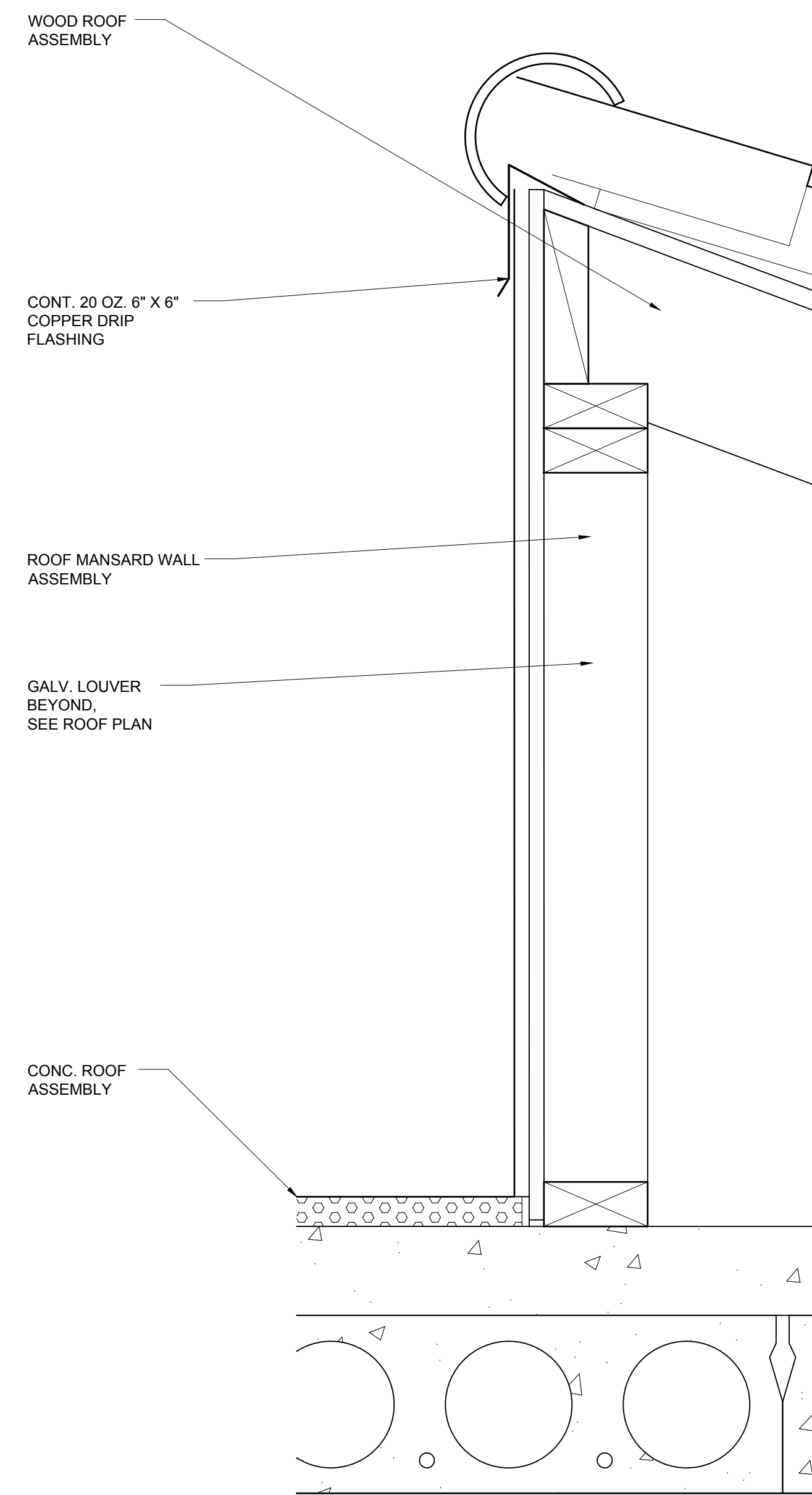




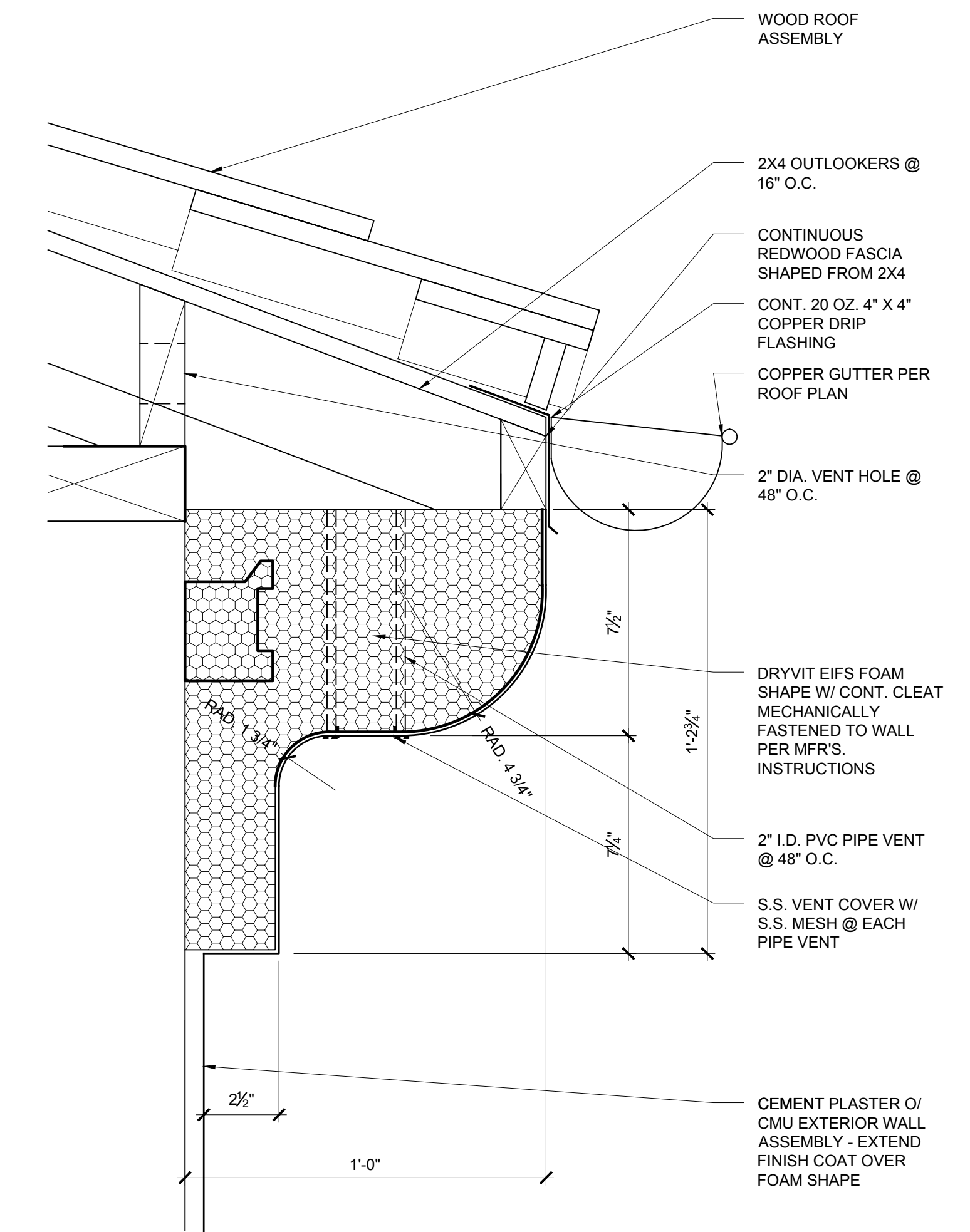
**4 ROOF EAVE DETAIL**  
SCALE: 3" = 1' - 0"



**3 ROOF TO WALL DETAIL**  
SCALE: 3" = 1' - 0"



**2 ROOF / WALL DETAIL**  
SCALE: 3" = 1' - 0"



**1 EAVE DETAIL**  
SCALE: 3" = 1' - 0"



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**MPWMD SANTA MARGARITA ASR FACILITY  
CHLORINATION BUILDING**

1910 GENERAL JIM MOORE BLVD.  
SEASIDE, CA

JOB NO.:  
**18014.2**  
PRINT DATE:  
PLOT DATE: 8.2.2019  
E.D.  
CHECKED BY: L.B.  
SET ISSUED:

60% DESIGN REVIEW 5/17/19  
100% DESIGN REVIEW 6/25/19  
ISSUED FOR BID 8/5/19

SHEET NAME:

**DETAILS**

SHEET NO.:

**A803**

FILE NAME: 18014.2 A803



SHEATHING SCHEDULE								
MARK	SHEATHING	SHEATHING NAILING		PLATE NAILING	SILL TO CONCRETE	SHEAR TRANSFER CLIPS	ALLOW. SHEAR #/FT.	NOTES
		EDGE (T.E.N.)	FIELD					
(R) TYP. ROOF SHEATHING U.O.N.	5/8" APA RATED SHTG. EXPOSURE 1 SPAN RATING 24/0	8d @ 6" o.c.	8d @ 12" o.c.	N . A .	N . A .	A35 @ 24" o.c. MINIMUM, U.O.N.	240 <sup>2</sup>	UNBLOCKED DIAPHRAGM
TYPICAL ALL EXTERIOR SHTG. U.O.N.	1/2" OSB, EXP 1	8d @ 6" o.c.	8d @ 12" o.c.	16d @ 8" o.c. STAGGERED	SEE DETAILS	A35 OR LTP4 @ 24" o.c., MIN.	260 <sup>3</sup>	ALL EXT. WALLS U.O.N. SOLID BLOCKED

- UNLESS OTHERWISE SPECIFIED IN DRAWINGS.
- NDS TABLE 4.2B & ESR-1472 FOR SIMPSON QUIK DRIVE SCREW SYSTEM (WSNTL)
- NDS TABLE 4.3A
- ROOF, FLOOR & WALL SHEATHING SHALL BE APPLIED FACE GRAIN PERPENDICULAR TO FRAMING - TYP.
- CONTINUE SHEATHING AND NAILING OVER SIDE OF POST AT END OF SHEARWALL.
- AT LEVEL ABOVE FROM BLOCKING/RIM JOIST TO DOUBLE TOP PLATE, LTP4 IF USED SHALL BE ORIENTED HORIZONTALLY.
- ALL A.B.'s SHALL HAVE 3"x3"x1/4" R. WASHERS. THE HOLE IN THE R. WASHER MAY BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE R. WASHER AND THE NUT. (2)-BOLT MIN. PER SILL R. WITH BOLTS LOCATED NOT MORE THAN 12" OR LESS THAN 4" FROM EACH END OF SILL R.
- ALL SILL PLATES SHALL BE PRESSURE TREATED DOUGLAS FIR, (U.O.N.). FASTENERS FOR TREATED WOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL, SILICON BRONZE OR COPPER. PLYWOOD JOINTS AND SILL R. NAILING SHALL BE STAGGERED IN ALL CASES.
- USE PLYWOOD CLIPS @ 24" o.c. @ UNSUPPORTED EDGES.

### ROOF NOTES

3" CONC. TOPPING w/ #3 @ 18" o.c. EA. WAY OVER  
6" SPANCRETE HOLLOWCORE SYSTEM. (SERIES 1.63J-6606T)

**NOTES:**  
(1) PRECAST CONC. PLANKS SHALL BE AS NOTED ON PLANS WITH 3" 4,000 PSI NORMAL WEIGHT CONC. TOPPING.  
(2) ALLOWABLE TYPICAL ROOF LOADS: (SUPERIMPOSED ON PLANKS)  
DEAD LOAD = 230 PSF + LIVE LOAD = 20 PSF  
(3) PLANKS SHALL BE DESIGNED BY PRECAST MANUFACTURER AND SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. VERIFY DUCTS, ANY ROOF EQUIPMENT & WEIGHTS WITH MECHANICAL DRAWINGS. PROVIDE COMPLETE SIGNED / STAMPED ENGINEERED SHOP DRAWINGS THAT INCLUDE ALL ROOFTOP ELEMENTS INDICATED ON ALL PLANS. DESIGN SHALL INCLUDE PLANKS DESIGNED TO ALLOW REASONABLE CORING OR CUTTING FOR OPENINGS FOR ELECTRICAL AND OTHER UTILITY PENETRATIONS AND SHOW ALLOWABLE SIZES FOR OPENINGS TO BE CORED OR CUT IN THE FIELD.  
(4) USE A 3" HIGH CONCRETE HOUSEKEEPING PLATFORM w/ #3 @ 16" o.c. EA. WAY. WHERE REQUIRED BY MECH. EQUIPMENT. VERIFY WITH ARCHITECT.

### FLOOR SLAB NOTES

(1) USE A 6" HIGH CONCRETE HOUSEKEEPING PLATFORM w/ #4 @ 16" o.c. EA. WAY WHERE REQUIRED FOR ELEC. EQUIPMENT. VERIFY WITH ARCHITECT.

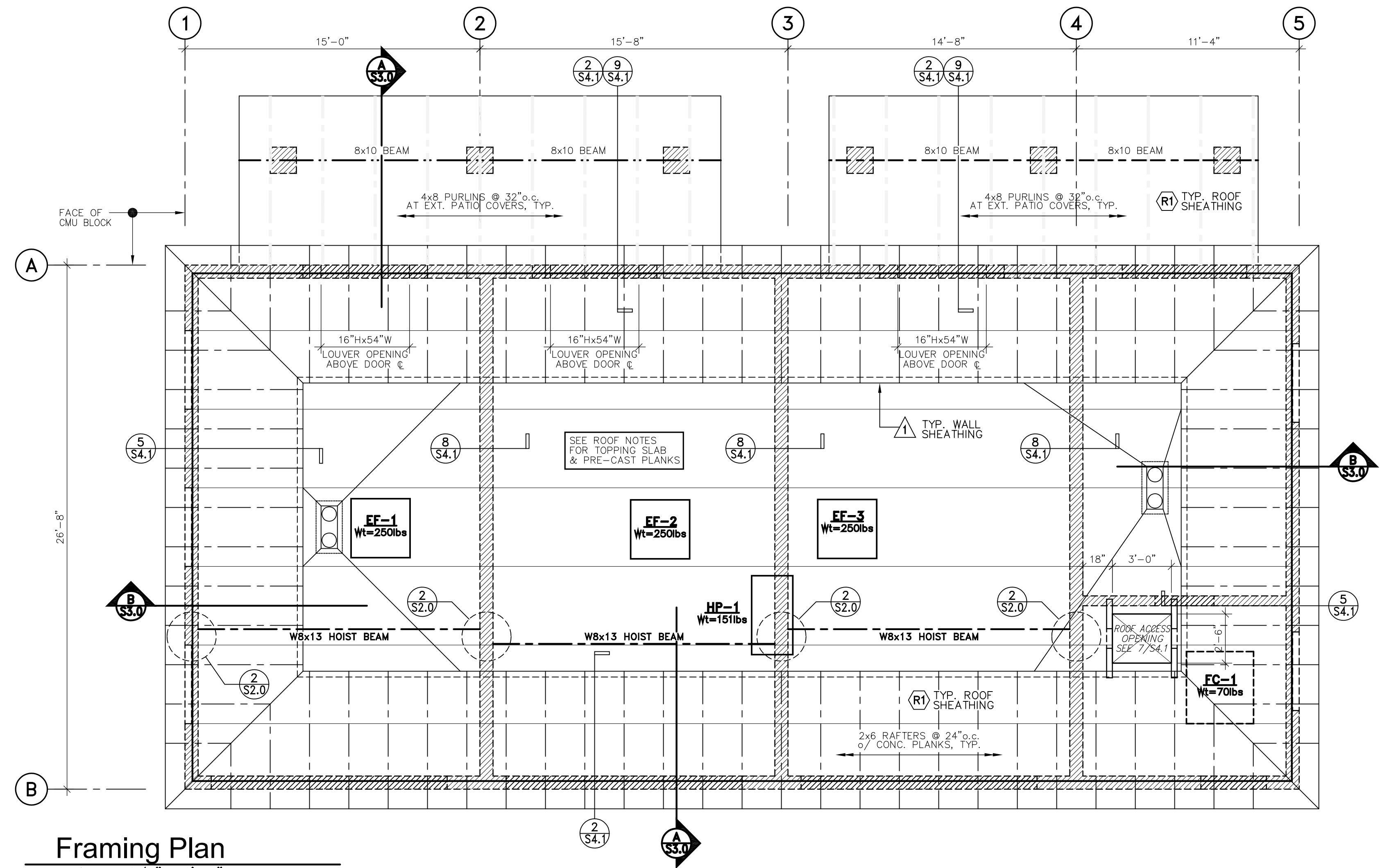
### FOUNDATION NOTES

**LOWER SLAB ON GRADE:**  
USE 6" CONCRETE SLAB ON GRADE w/ #4 @ 16" o.c. EA. WAY CENTERED IN SLAB OVER 2" OF CLEAN WET SAND ON 10 mil STEGO WRAP VAPOR BARRIER OVER 4" OF 3/4" CLEAN CRUSHED ROCK OVER 8" OF PROCESSED SUBGRADE COMPACTED TO A MINIMUM OF 95% RELATIVE DRY DENSITY. FOLLOW ADDITIONAL RECOMMENDATIONS FOUND IN THE PROJECT SOILS REPORT. NOTIFY THE E.O.R. AND SOILS ENGINEER OF ANY DISCREPANCIES.

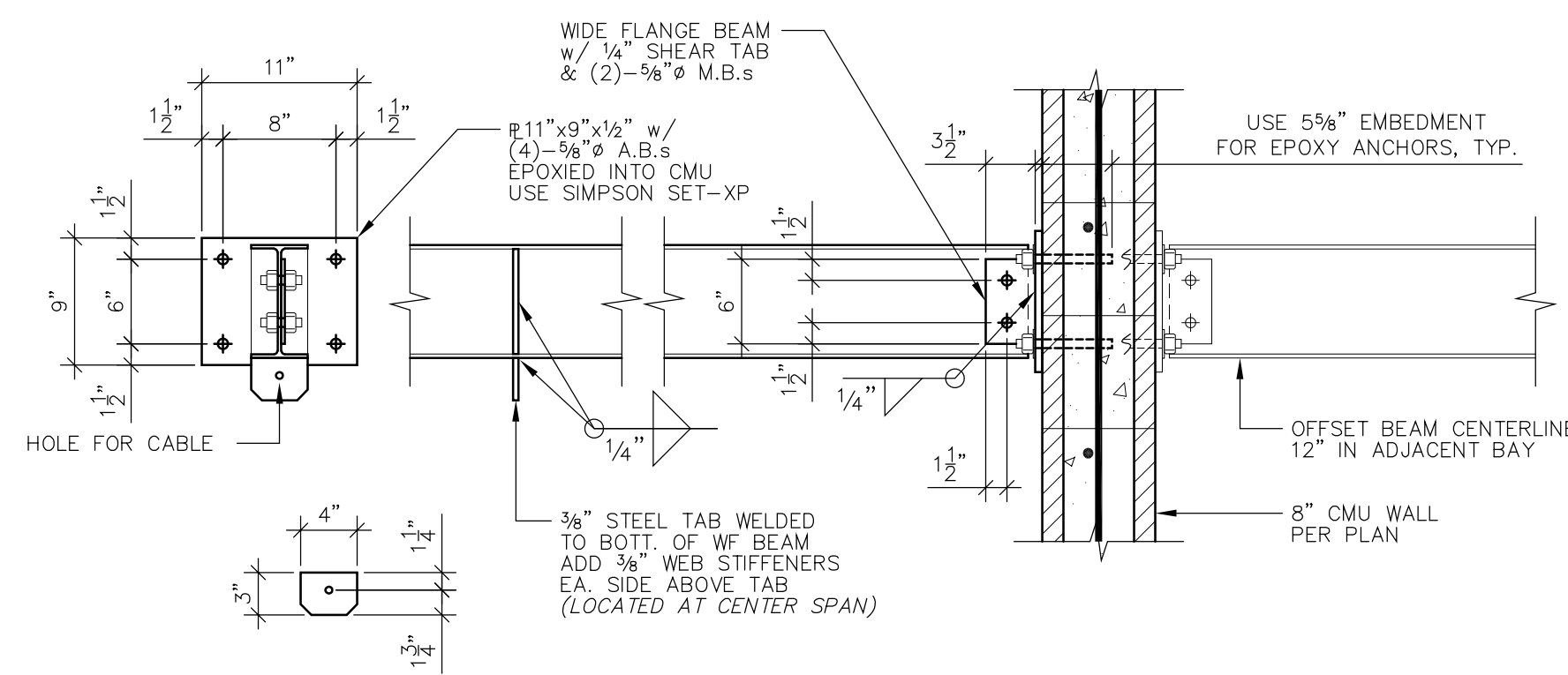
**UPPER SLAB ON GRADE:**  
USE 5" CONCRETE SLAB ON GRADE w/ #4 @ 16" o.c. EA. WAY CENTERED IN SLAB OVER 2" OF CLEAN WET SAND ON 10 mil STEGO WRAP VAPOR BARRIER OVER 4" OF 3/4" CLEAN CRUSHED ROCK OVER 8" OF PROCESSED SUBGRADE COMPACTED TO A MINIMUM OF 95% RELATIVE DRY DENSITY. FOLLOW ADDITIONAL RECOMMENDATIONS FOUND IN THE PROJECT SOILS REPORT. NOTIFY THE E.O.R. AND SOILS ENGINEER OF ANY DISCREPANCIES.

**PLATFORM STRUCTURAL SLAB:**  
USE 8" CONCRETE SLAB w/ #5 @ 16" o.c. EA. WAY AT BOTTOM OF SECTION.

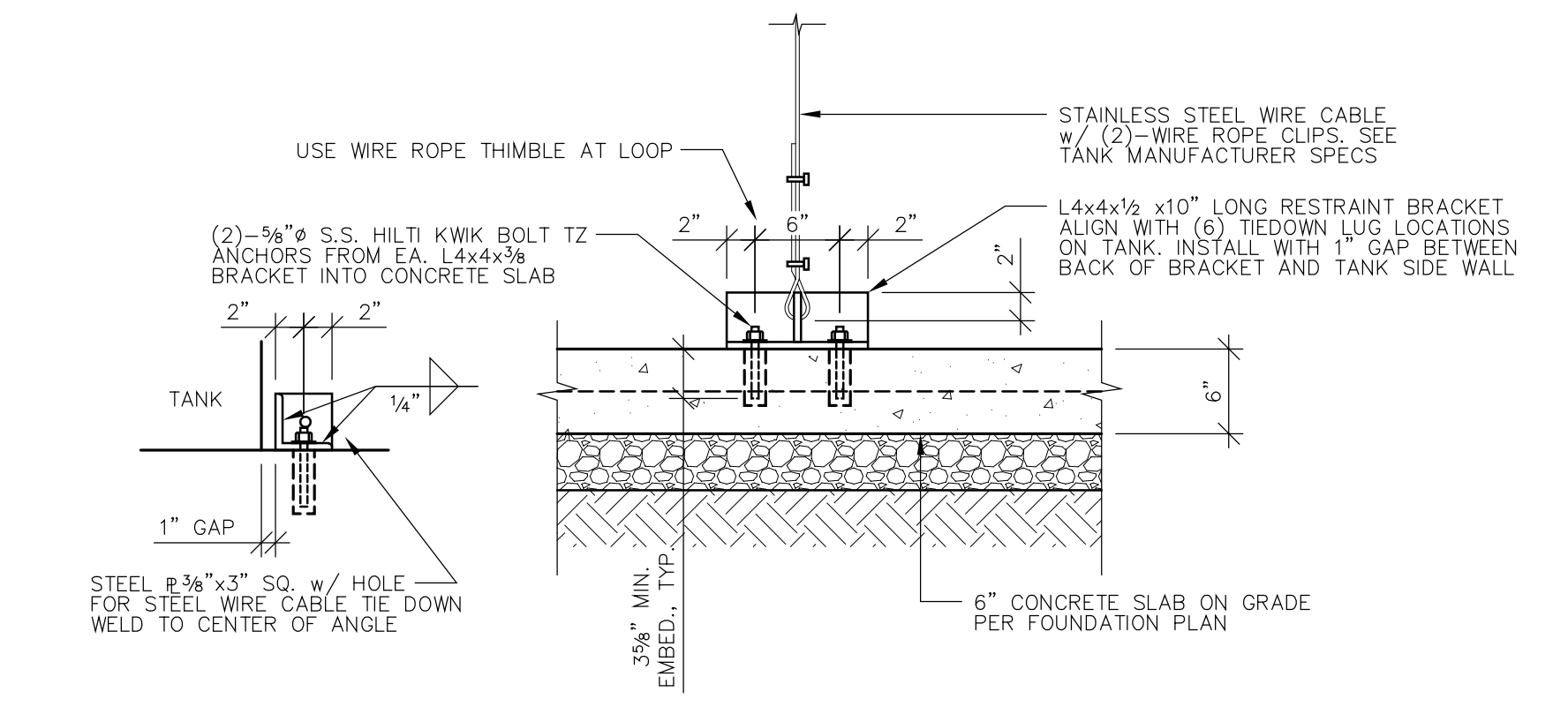
**NOTES:**  
(1) THE GEOTECHNICAL ENGINEER SHALL INSPECT THE BUILDING PAD AND FOOTING EXCAVATIONS, WITHOUT REINFORCING STEEL, AND SUBMIT WRITTEN APPROVAL TO THE BUILDING DEPARTMENT PRIOR TO REQUESTING THE FOUNDATION INSPECTION.  
(2) THE SLABS SHOULD BE SEPARATED INTO APPROXIMATELY 15'x15' SQUARE SECTIONS BY CONTRACTION JOINTS PER DETAIL 3/S1.0  
(3) USE A 3" HIGH CONCRETE HOUSEKEEPING PLATFORM w/ #3 @ 16" o.c. EA. WAY. WHERE REQUIRED BY MECH. EQUIPMENT. VERIFY WITH ARCH. PLANS.  
(4) SLURRY MIX SHALL BE TWO-SACK OR BETTER.



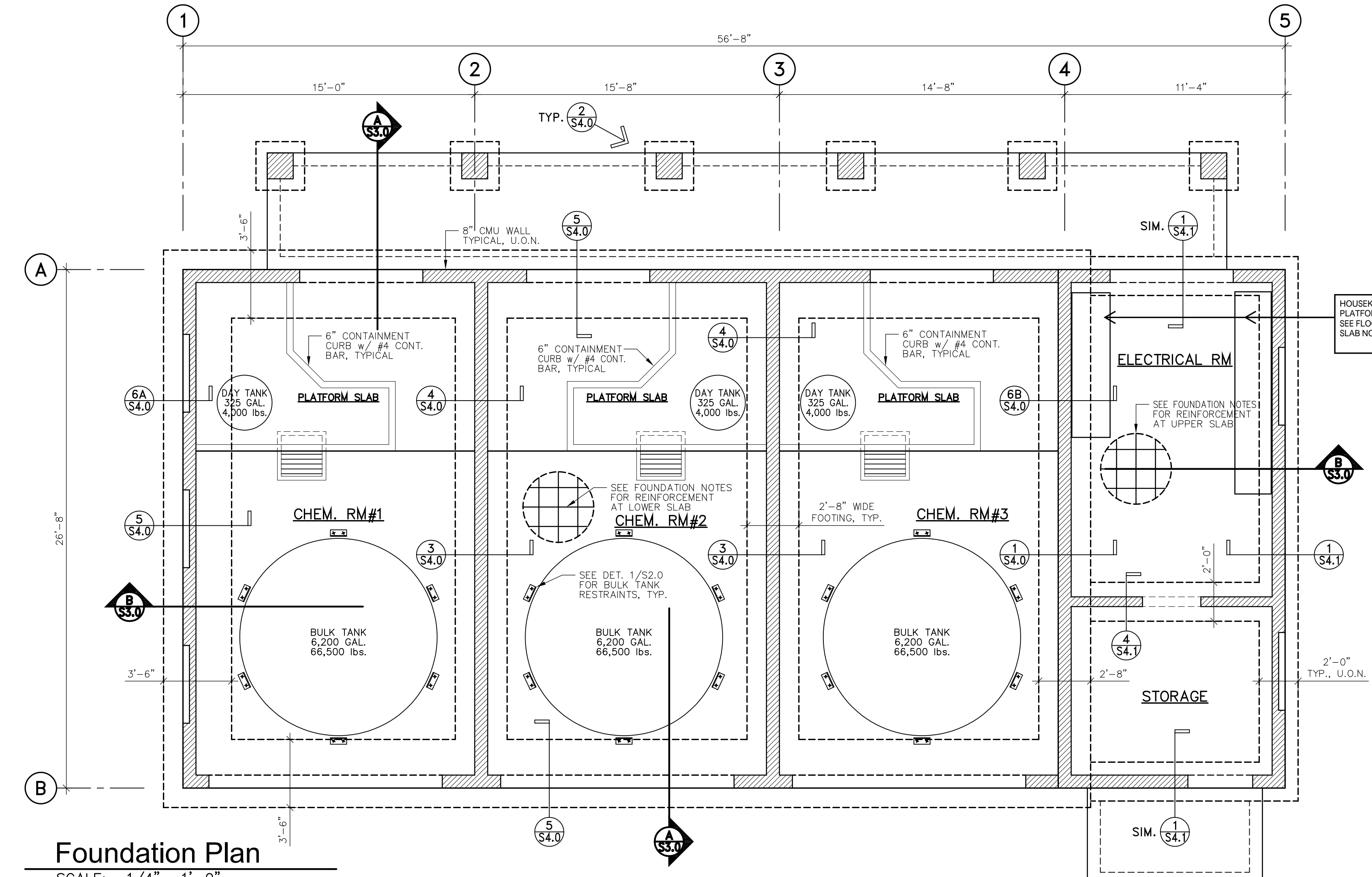
**Framing Plan**  
SCALE: 1/4" = 1'-0"



**2**  
S2.0  
**Hoist Beam Detail**  
SCALE: 1" = 1'-0"



**1**  
S2.0  
**Bulk Tank Anchor Restraints**  
SCALE: 1" = 1'-0"



**Foundation Plan**  
SCALE: 1/4" = 1'-0"

**WR&D**  
**WALD RUHNKE & DOST ARCHITECTS LLP**  
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REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA  
No. 069334  
Exp. 06-30-20  
CIVIL  
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**MPWMD SANTA MARGARITA ASR FACILITY  
CHLORINATION BUILDING**  
1910 GENERAL JIM MOORE BLVD.  
SEASIDE, CA

JOB NO.  
**HCA 18-057**  
PRINT DATE:  
PLOT DATE: 05.17.2019  
DRAWN BY: CG  
CHECKED BY:  
SET ISSUED:

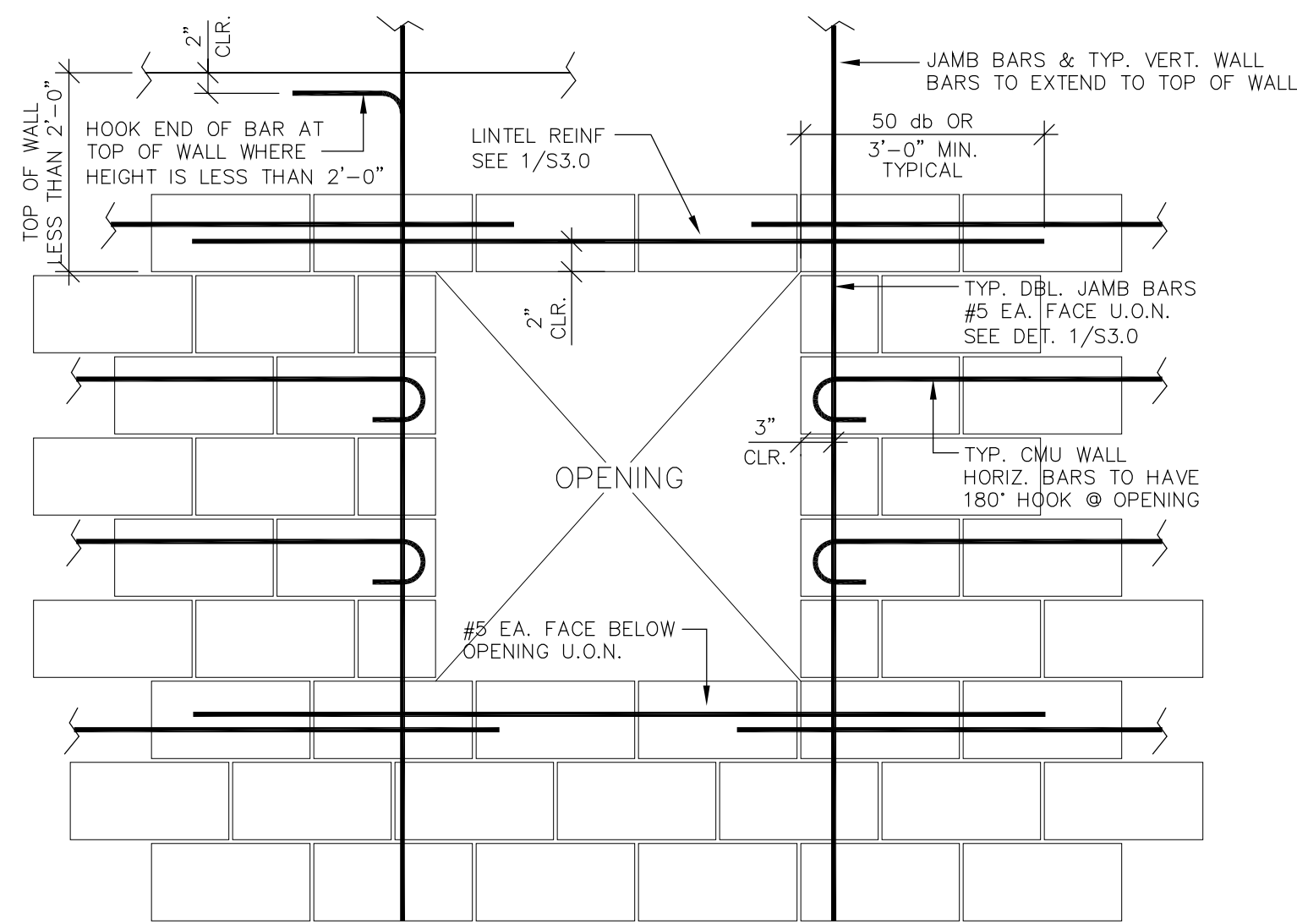
60% DESIGN REVIEW 5/17/19  
100% DESIGN REVIEW 6/25/19  
ISSUED FOR BID 8/5/19

SHEET NAME:  
**Foundation & Framing Plan**  
SHEET NO.:

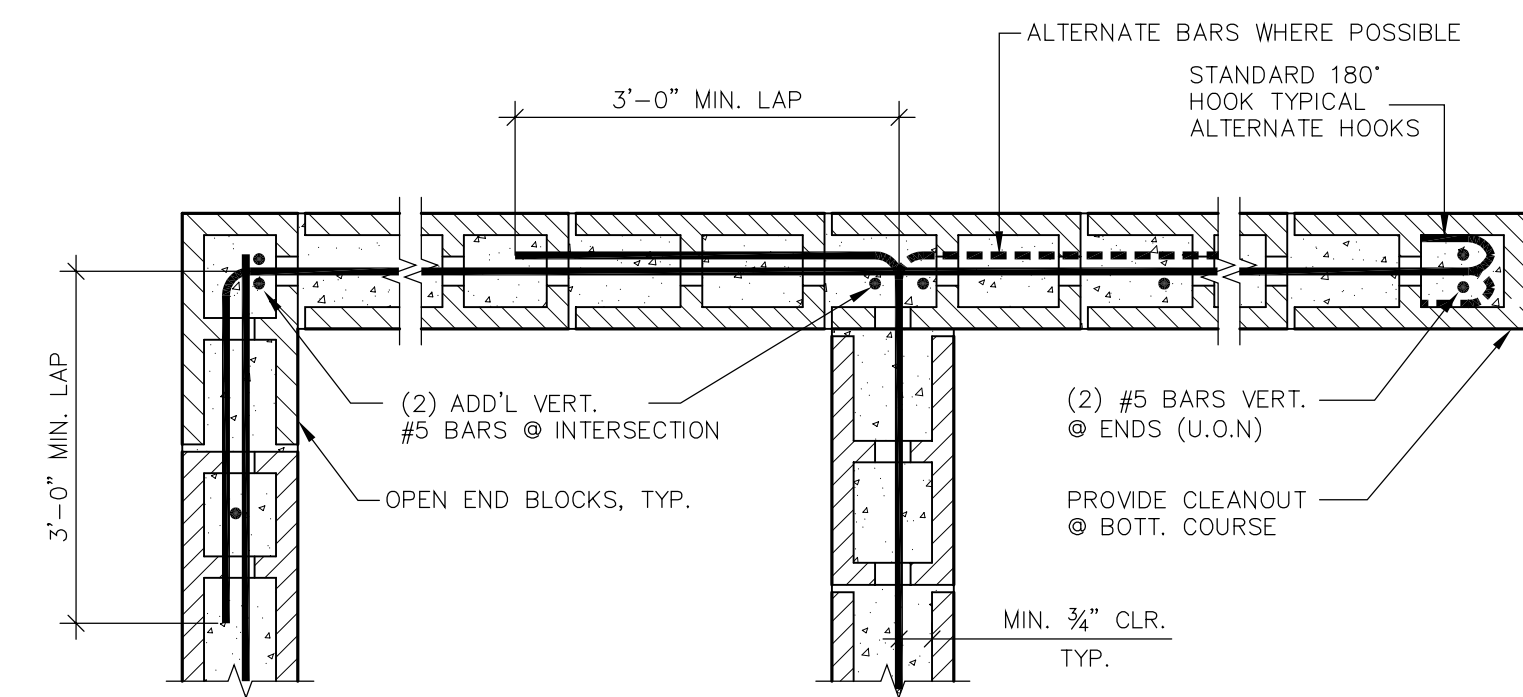
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FILE NAME:

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ACI STANDARD HOOKS				BAR HOOKS					
<b>SIZES OF 180-DEG HOOKS</b> GRADES 50-60-75 ksi D=6d for #3 through #8 D=8d for #9, #10 and #11 D=10d for #14 and #18		<b>SIZES OF 90-DEG HOOKS</b> GRADE 40 ksi D=5d for #3 through #11 D=10d for #14 and #18		<b>ALL GRADES</b> D=6d for #3 through #8 D=8d for #9, #10 and #11 D=10d for #14 and #18					
RECOMMENDED END HOOK DIMENSIONS				STIRRUPS (TIES SIMILAR)					
BAR SIZE	180° HOOKS		90° HOOKS		RECOMMENDED STIRRUP & TIE DIMENSIONS				
	'A' or 'G'	'J'	'A' or 'G'	'J'	GRADES 40-50-60 ksi				
					90 HOOK		135 HOOK		
					H O O K	H O O K	APPROX. 'H'		
					'A' or 'G'	'A' or 'G'			
#3	5	3	5	2 3/4	4	4	2 1/2		
#4	6	4	6	3 1/2	4 1/2	4 1/2	3		
#5	7	5	7	4 1/2	6	5 1/2	3 3/4		
#6	8	6	8	5 1/4	6 1/2	6 1/2	4 1/2		
#7	10	7	9	6 1/4					
#8	11	8	10	7					
#9	1-3	1 1/4	1-0	8					
#10	1-5	1-0 3/4	1-1	9					
#11	1-7	1-0 3/4	1-1	9					

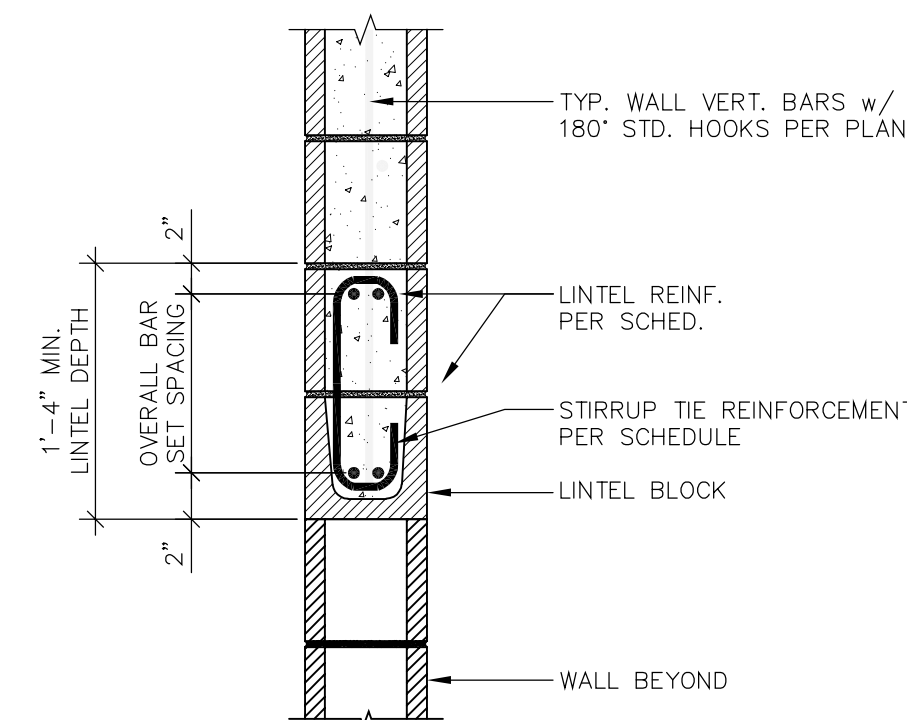


**2** Typ. Opening in CMU Wall  
 S3.0 SCALE: N.T.S.



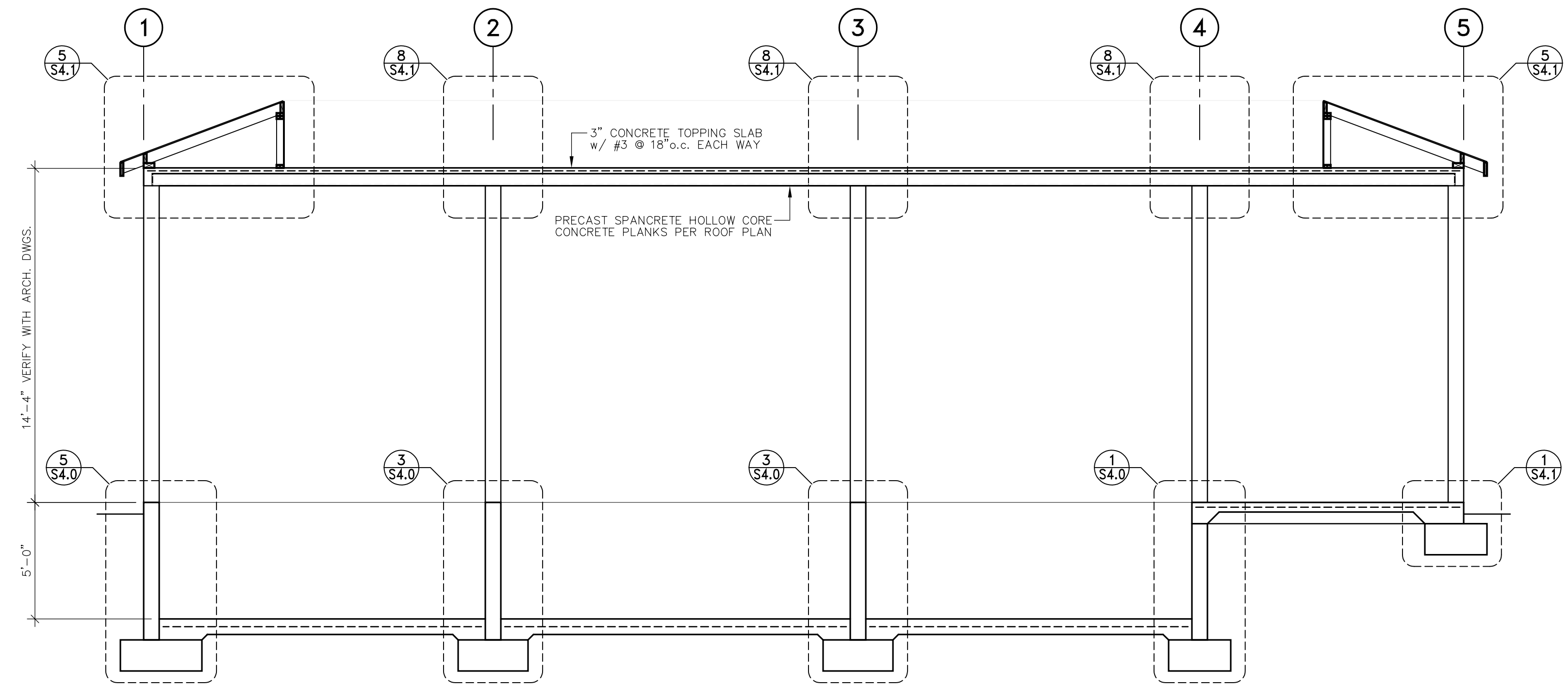
TYPICAL WALL REINFORCING SCHEDULE *					
DESIGNATION	WALL THICKNESS	VERT. REINF.	HORIZ. REINF.	SPECIAL INSPECTION	COMMENTS
1 TYPICAL	8"	#5 @ 16" o.c. CENTERED	#4 @ 16" o.c. CENTERED	YES	FULLY GROUTED

\* SPECIAL INSPECTION REQUIRED

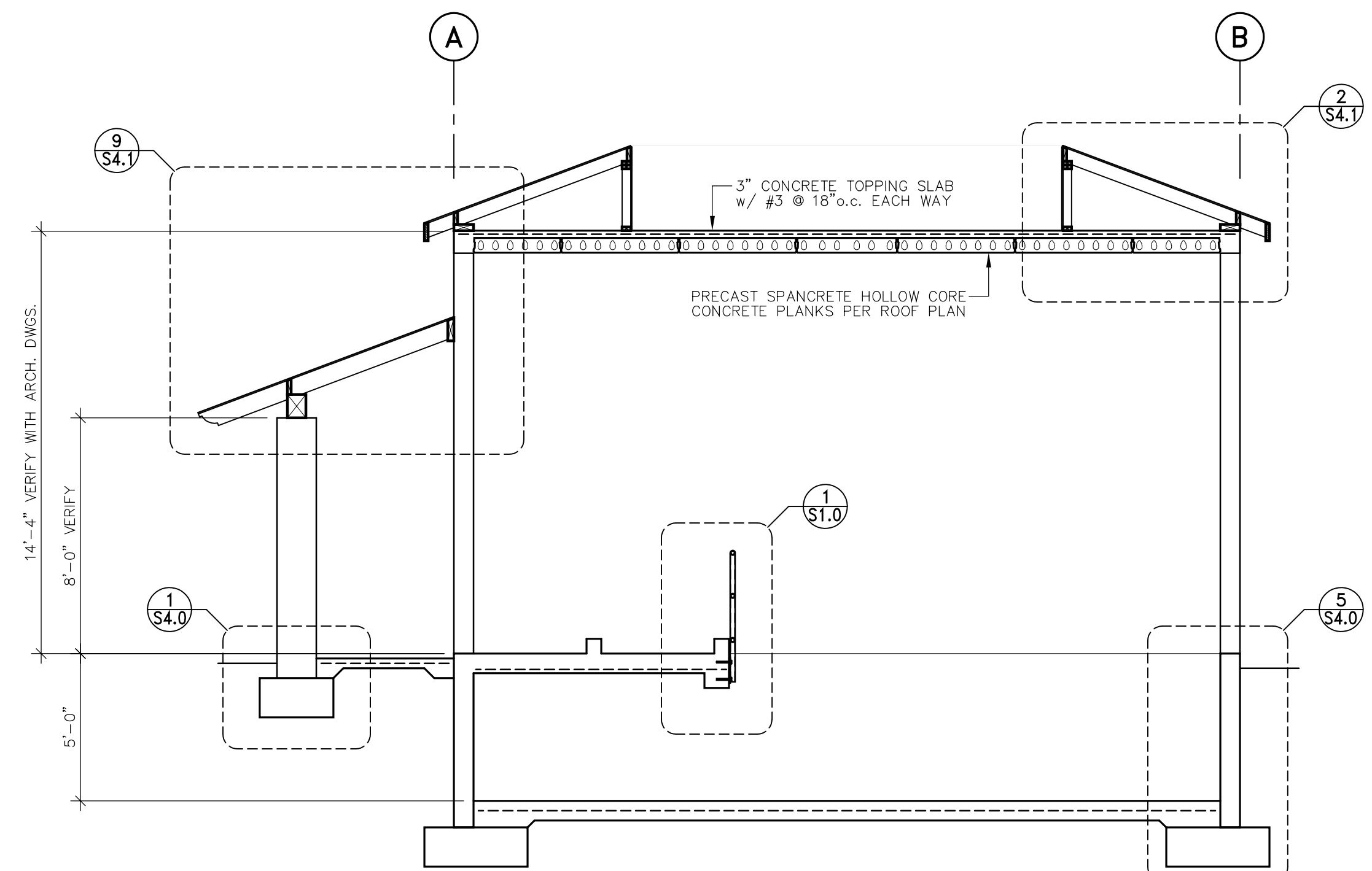


CMU LINTEL SCHEDULE				
BLOCK SIZE	LINTEL SPAN MAX. LENGTH	LINTEL REINF.	STIRRUPS	OVERALL BAR SET SPACING
8"	12'-0"	(2)-#5 BARS TOP & BOTT.	#3 @ 8" o.c.	12"

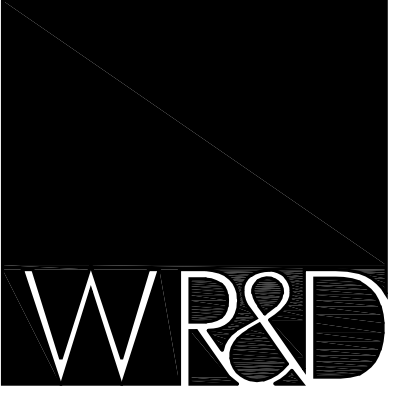
**1** CMU & Reinforcement Details  
 S3.0 SCALE: 1"=1'-0"



**Building Section "B"**  
 SCALE: 1/4"= 1'-0"



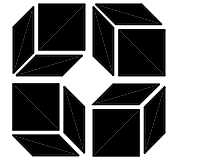
**Building Section "A"**  
 SCALE: 1/4"= 1'-0"



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MPWMD SANTA MARGARITA ASR FACILITY  
 CHLORINATION BUILDING  
 1910 GENERAL JIM MOORE BLVD.  
 SEASIDE, CA

JOB NO.  
**HCA 18-057**

PRINT DATE:  
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 DRAWN BY: CG  
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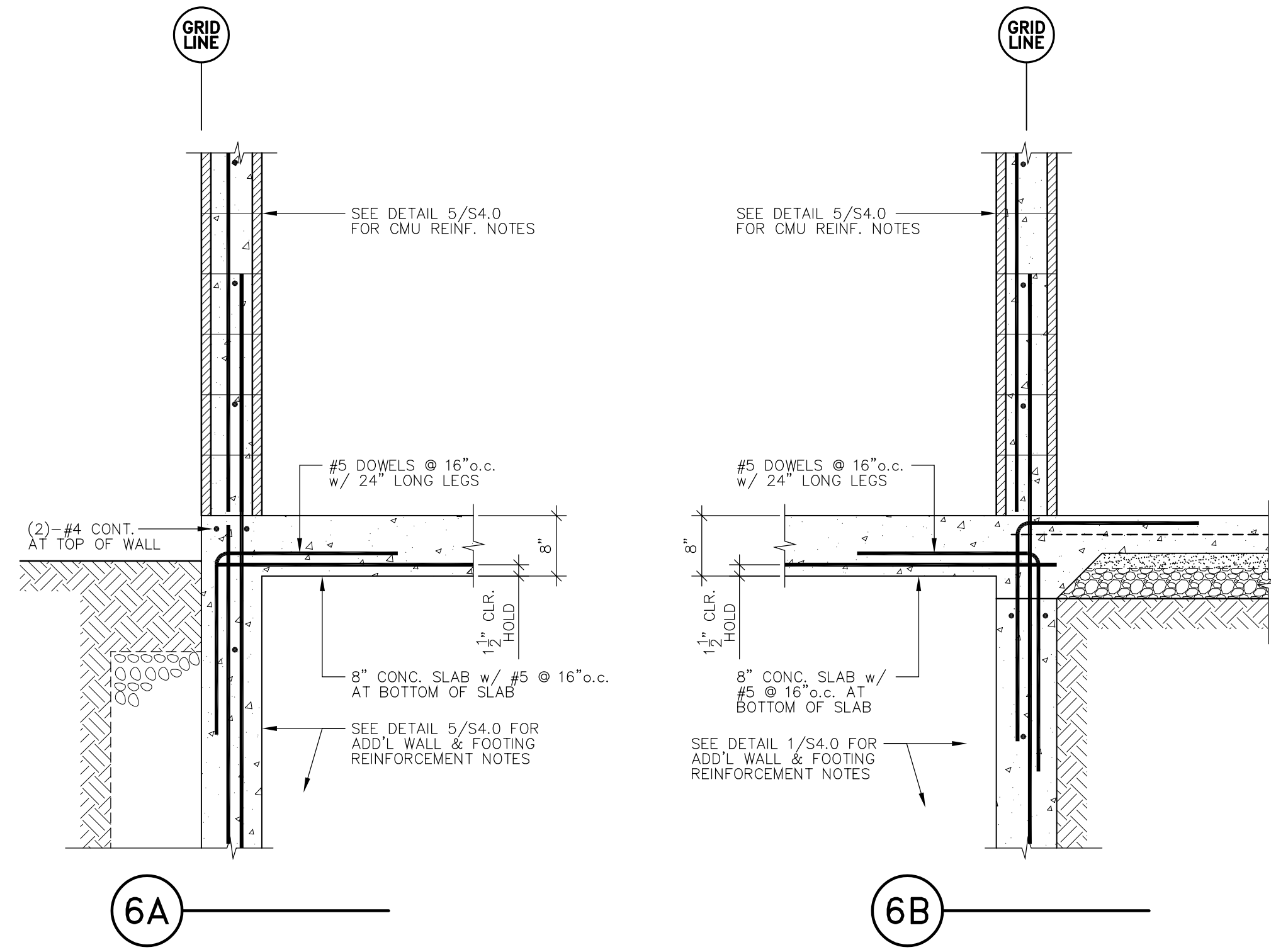
SHEET NAME:  
**Building Sections & CMU Details**

SHEET NO.:

**S3.0**

FILE NAME:

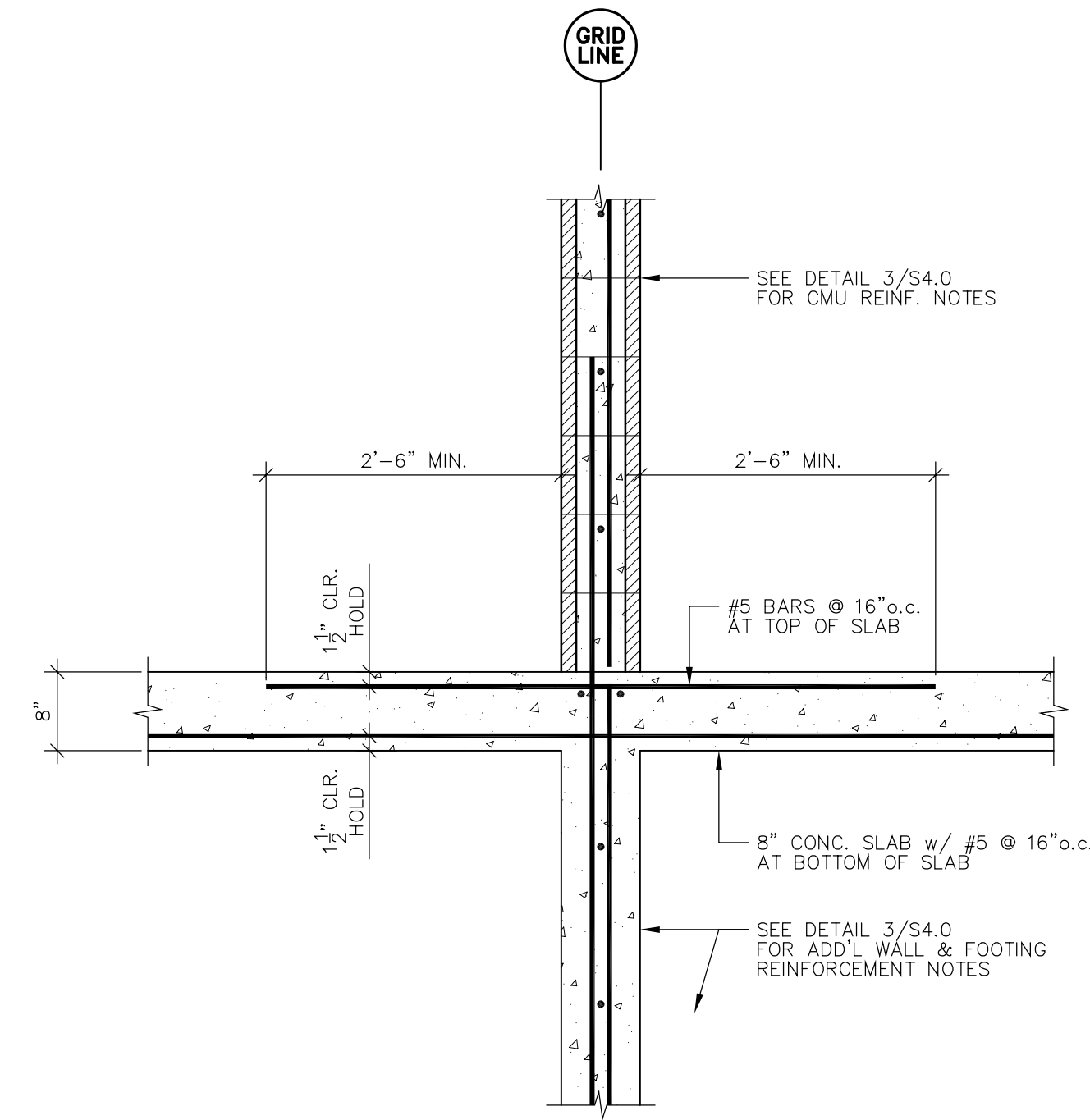
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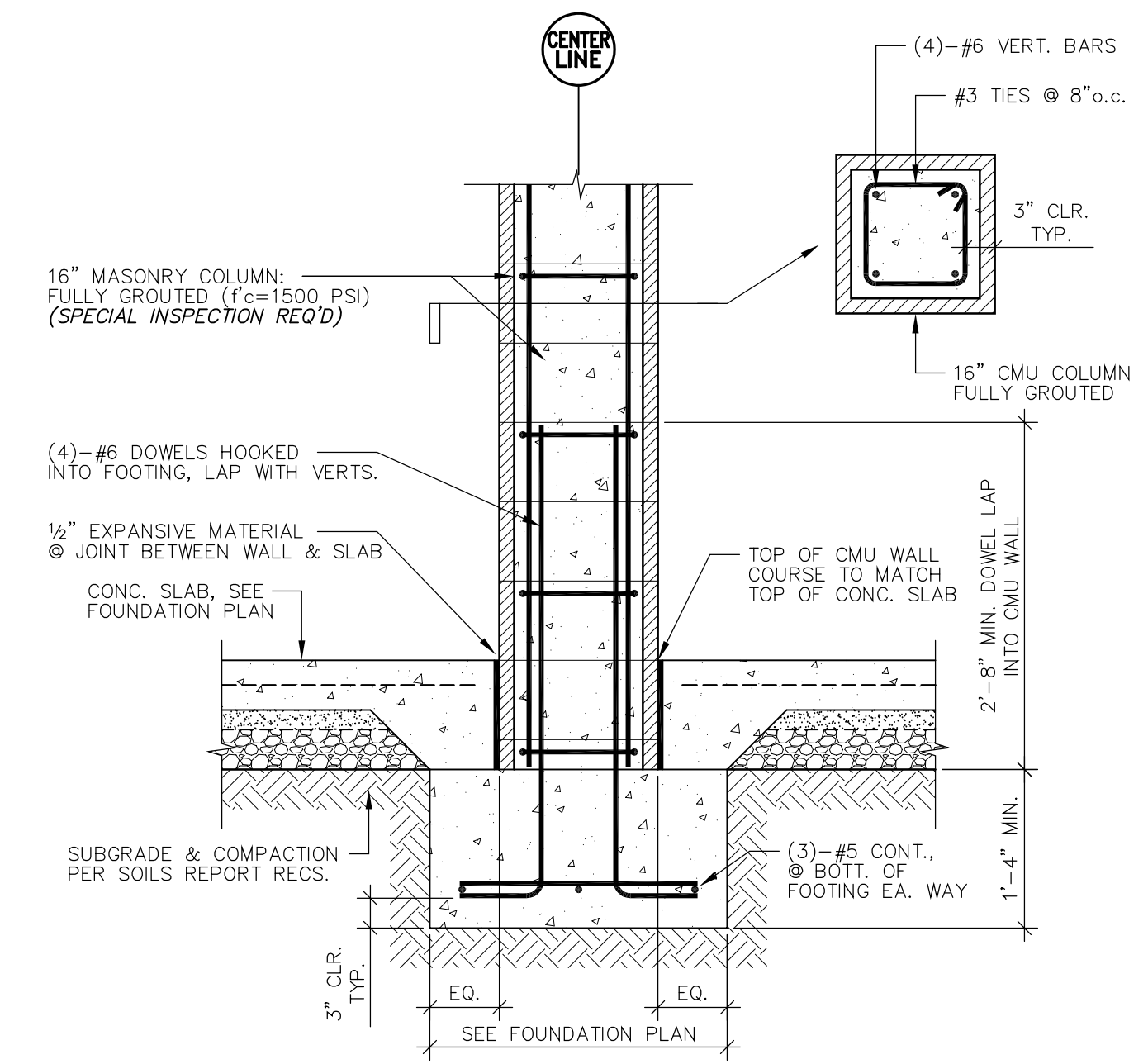
6A

6B

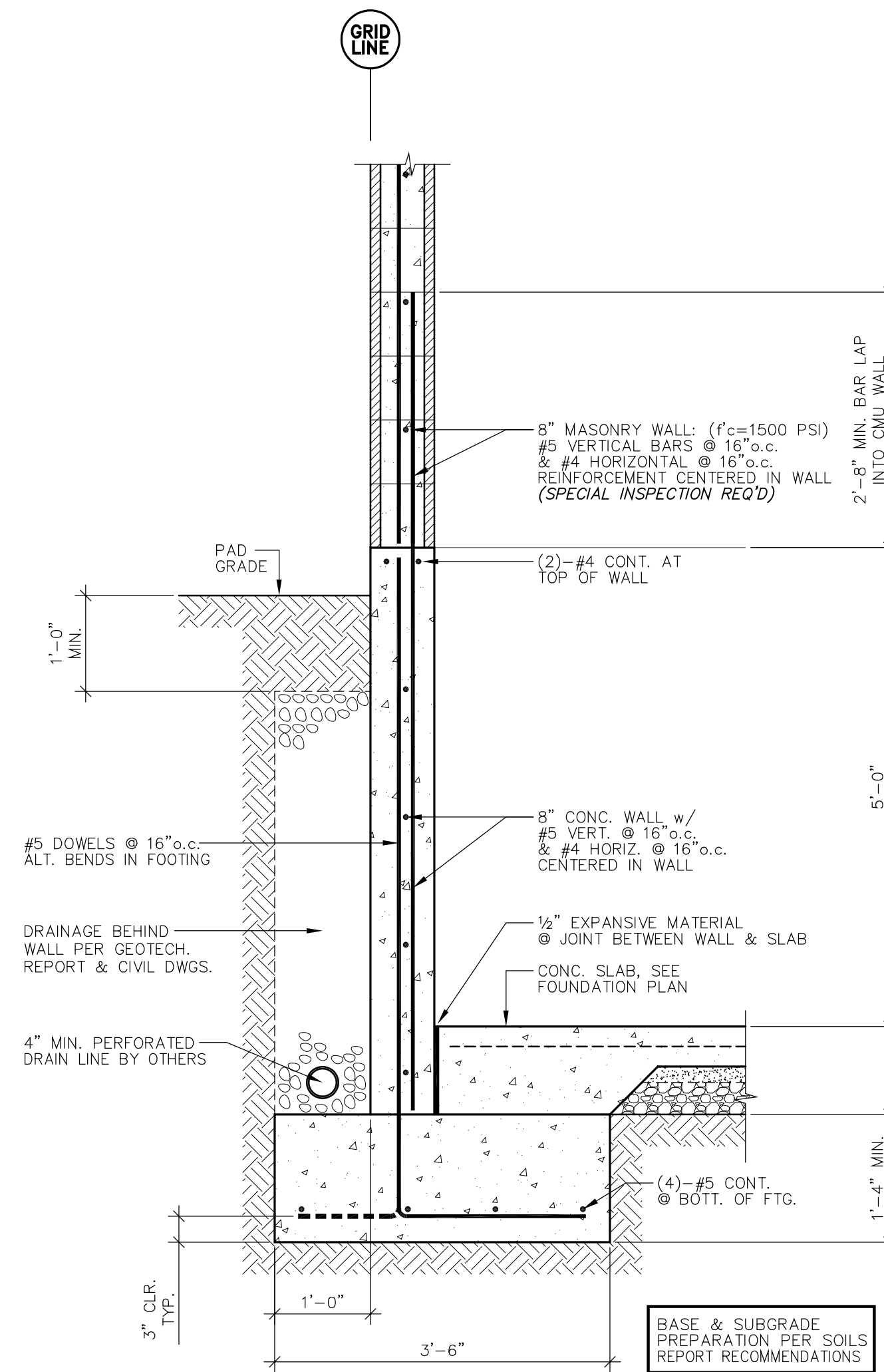
**6**  
S4.0 Detail  
SCALE: 3/4"=1'-0"



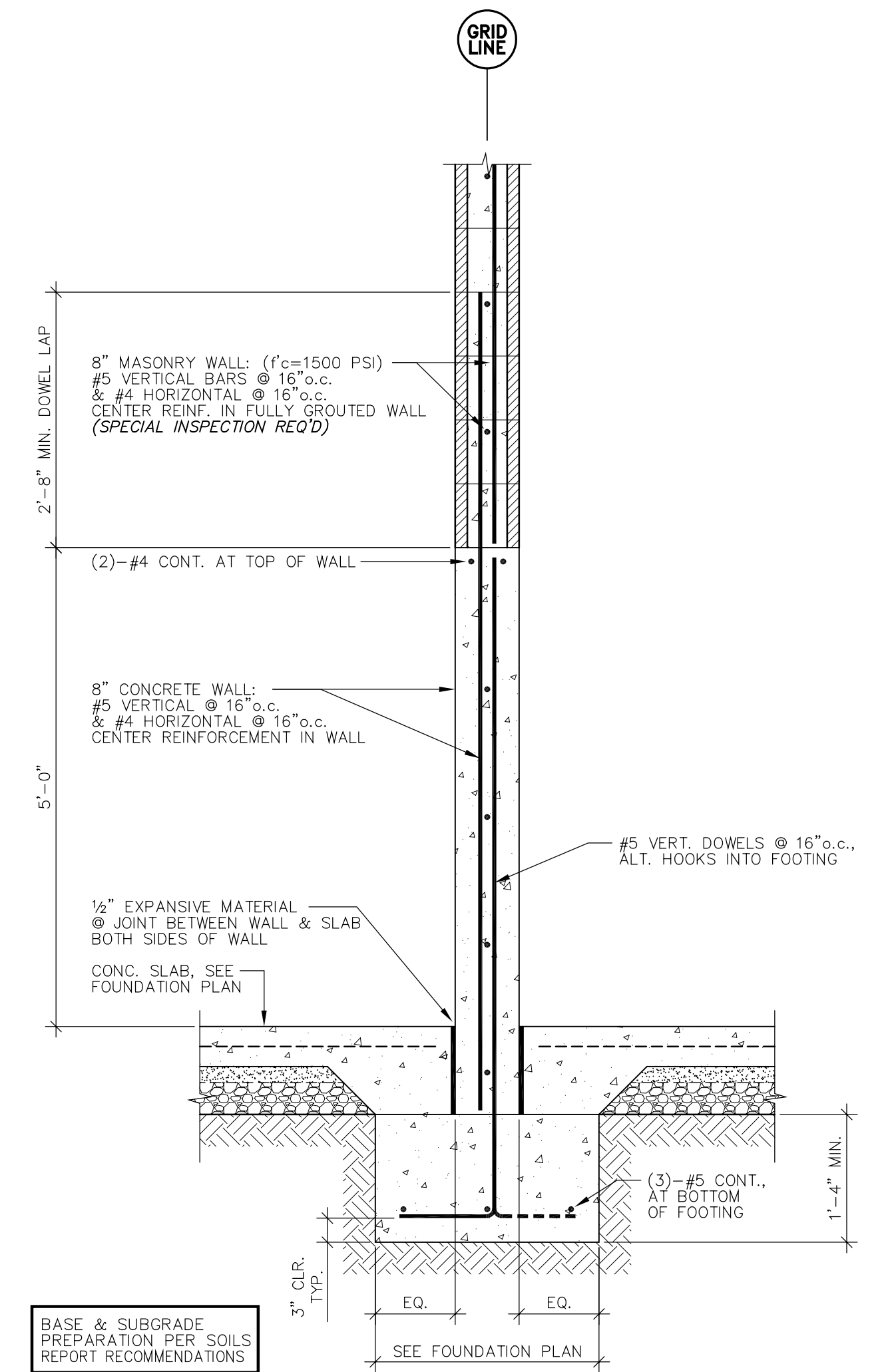
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S4.0 Detail  
SCALE: 3/4"=1'-0"



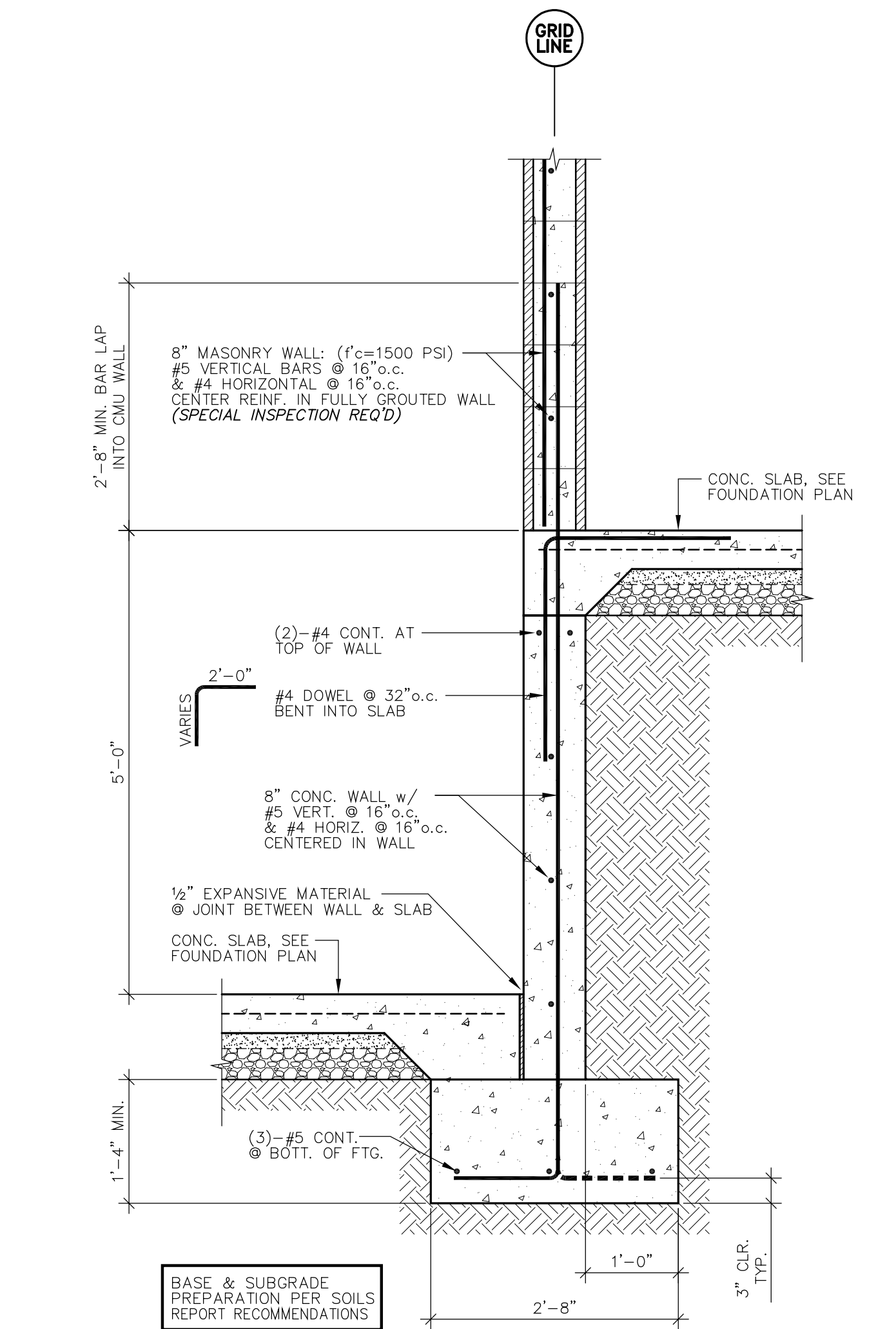
**2**  
S4.0 Detail  
SCALE: 3/4"=1'-0"



**5**  
S4.0 Detail  
SCALE: 3/4"=1'-0"



**3**  
S4.0 Detail  
SCALE: 3/4"=1'-0"



**1**  
S4.0 Detail  
SCALE: 3/4"=1'-0"

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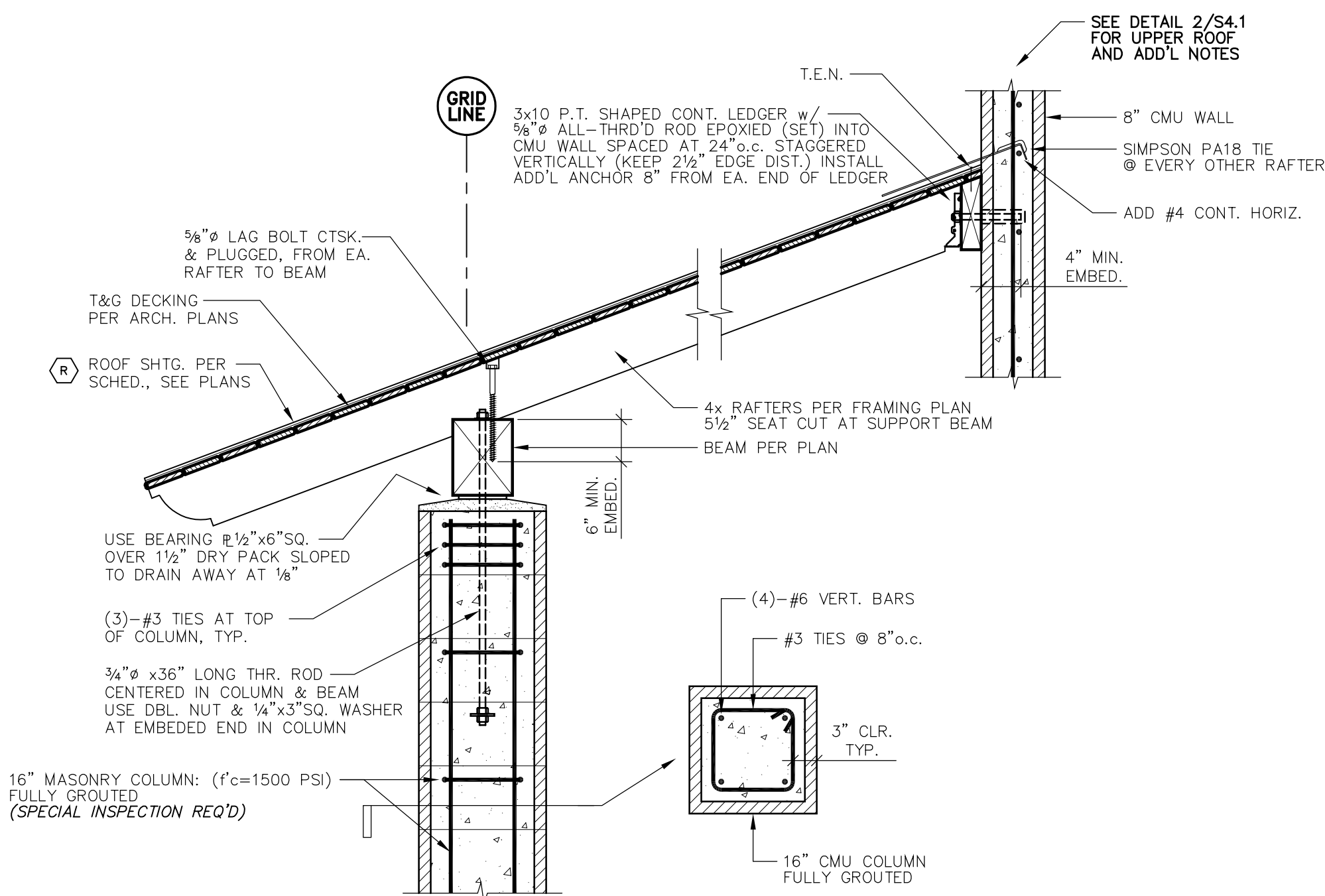
SHEET NAME:  
**Foundation & Framing Details**

SHEET NO.:

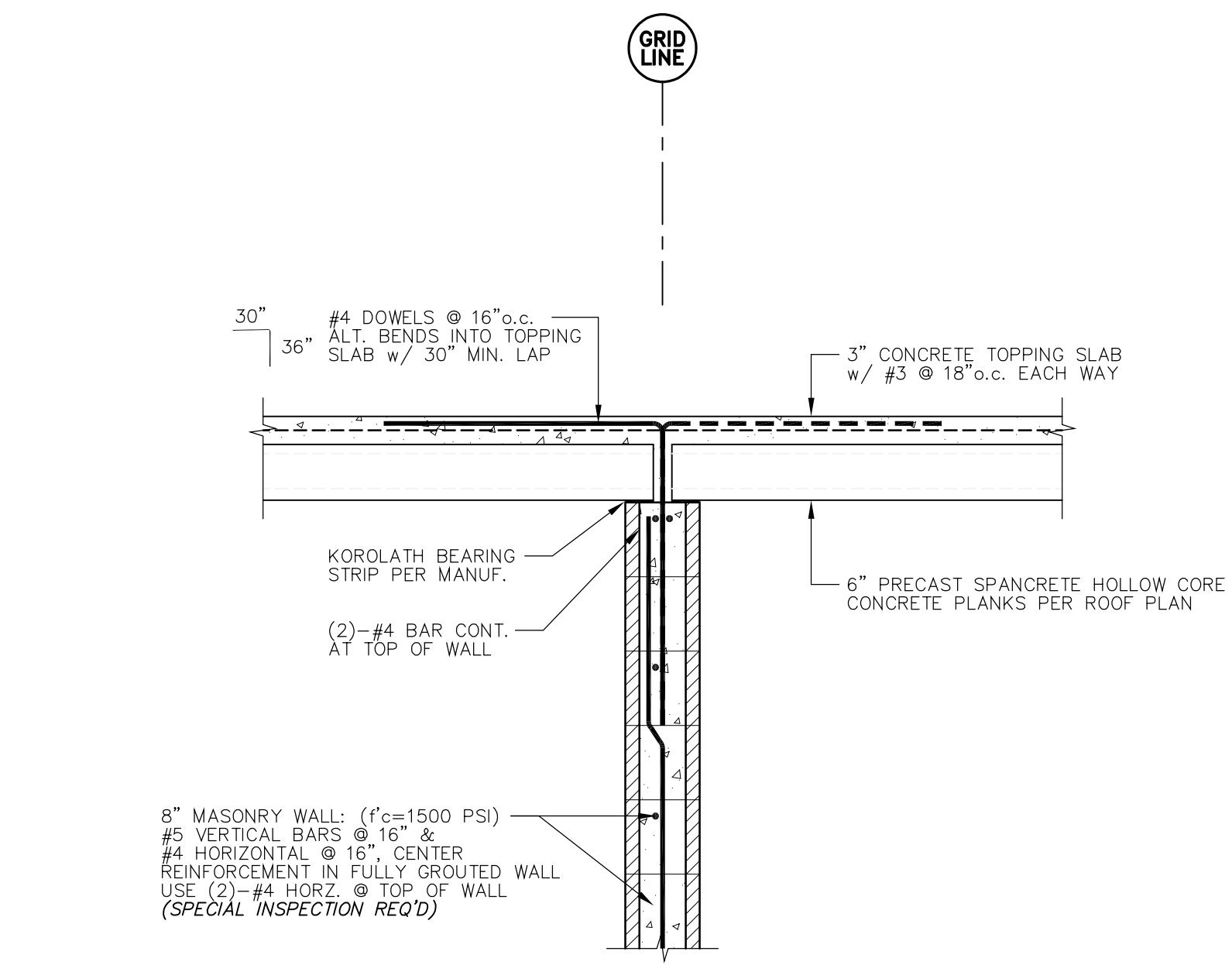
**S4.0**

FILE NAME:

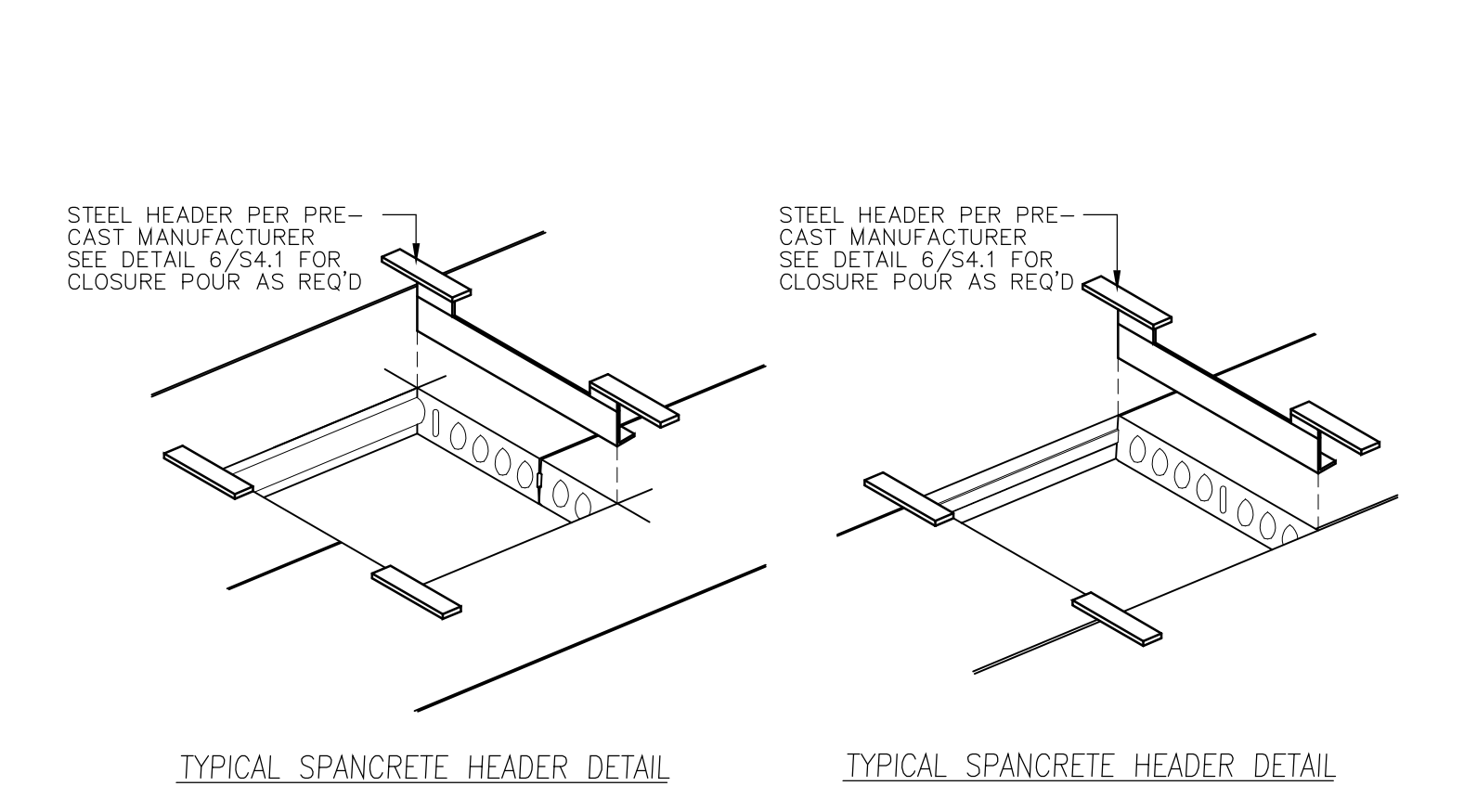
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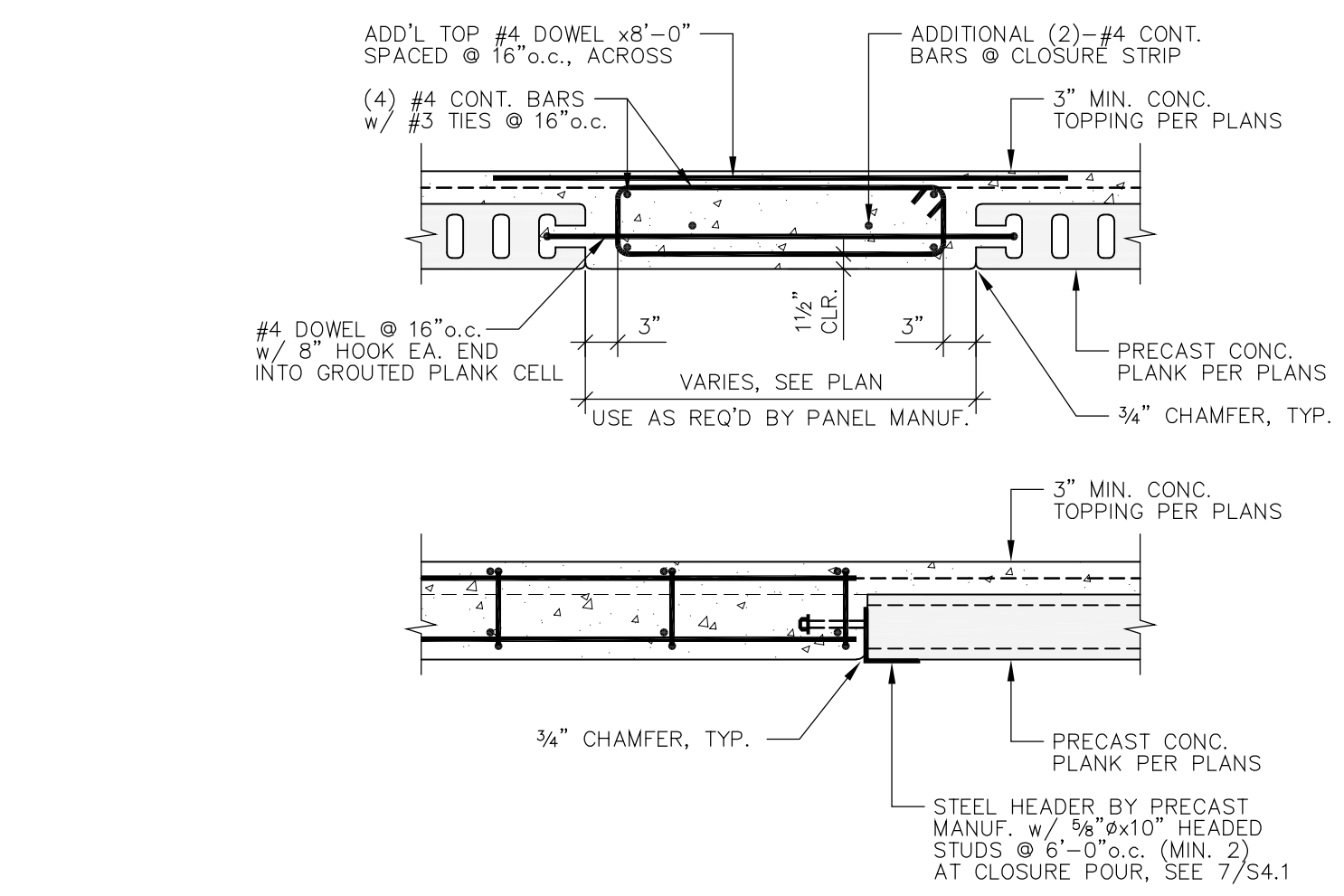
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**S4.1** Detail  
SCALE: 3/4"=1'-0"



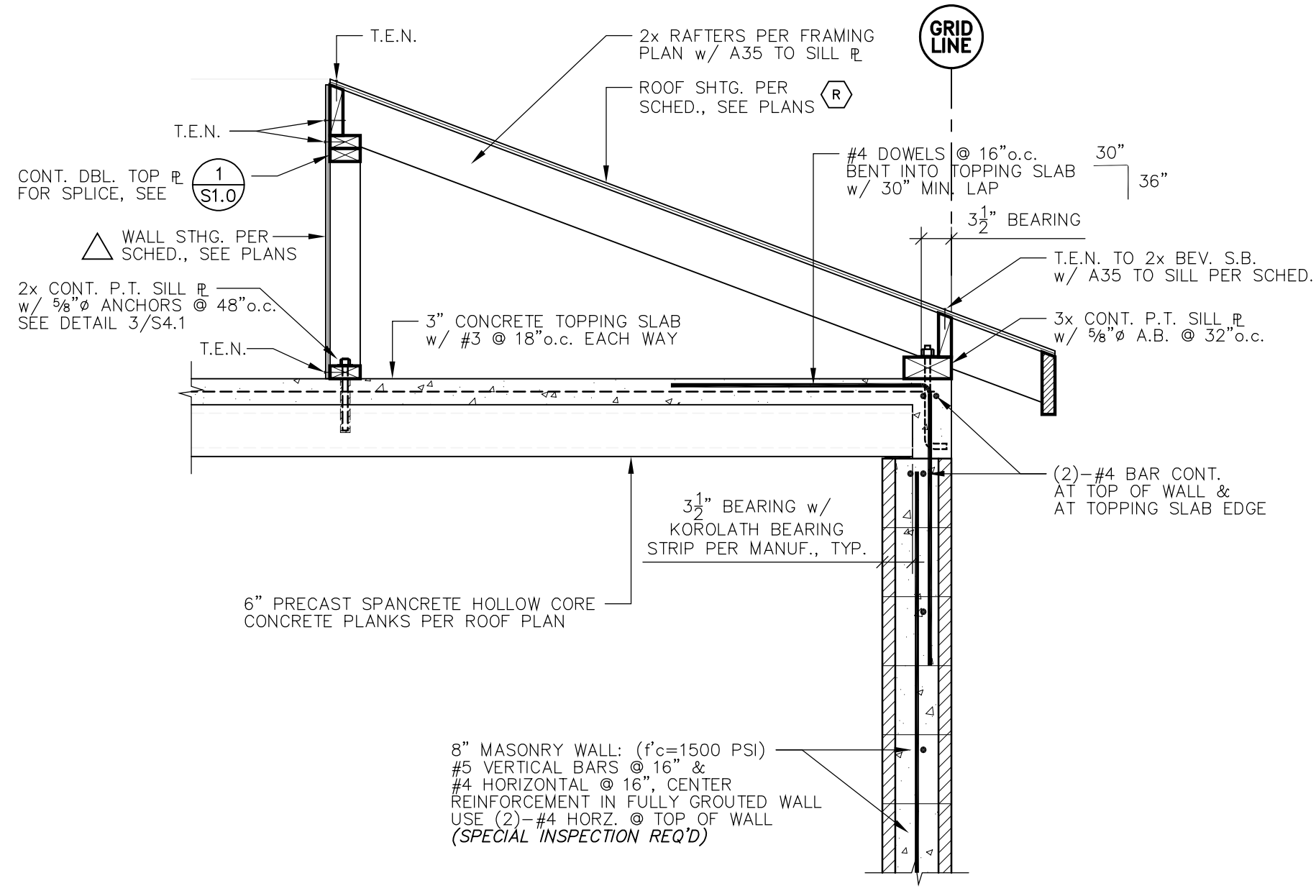
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**S4.1** Roof to Wall Detail  
SCALE: 3/4"=1'-0"



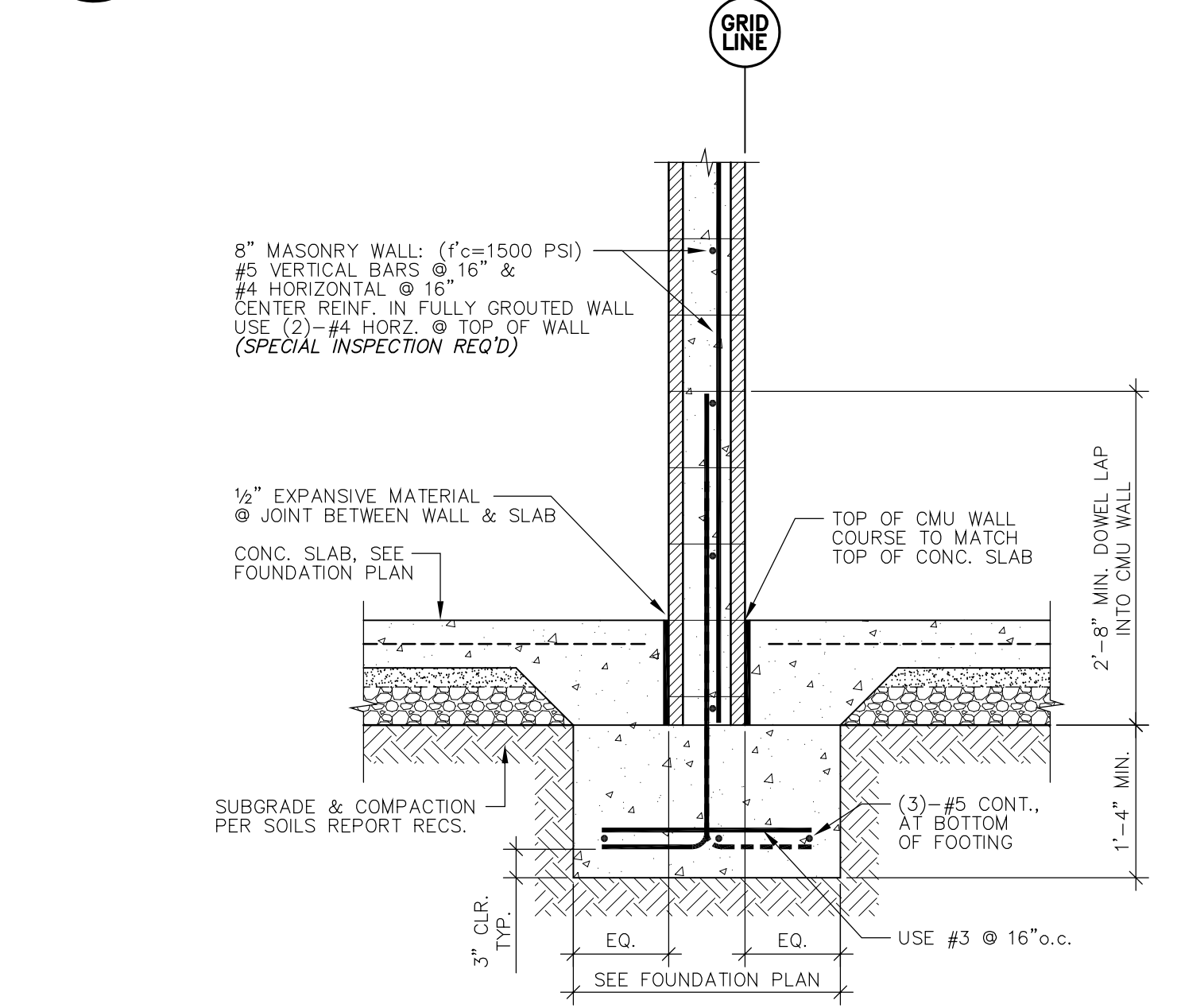
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**S4.1** Header Detail  
SCALE: N.T.S.



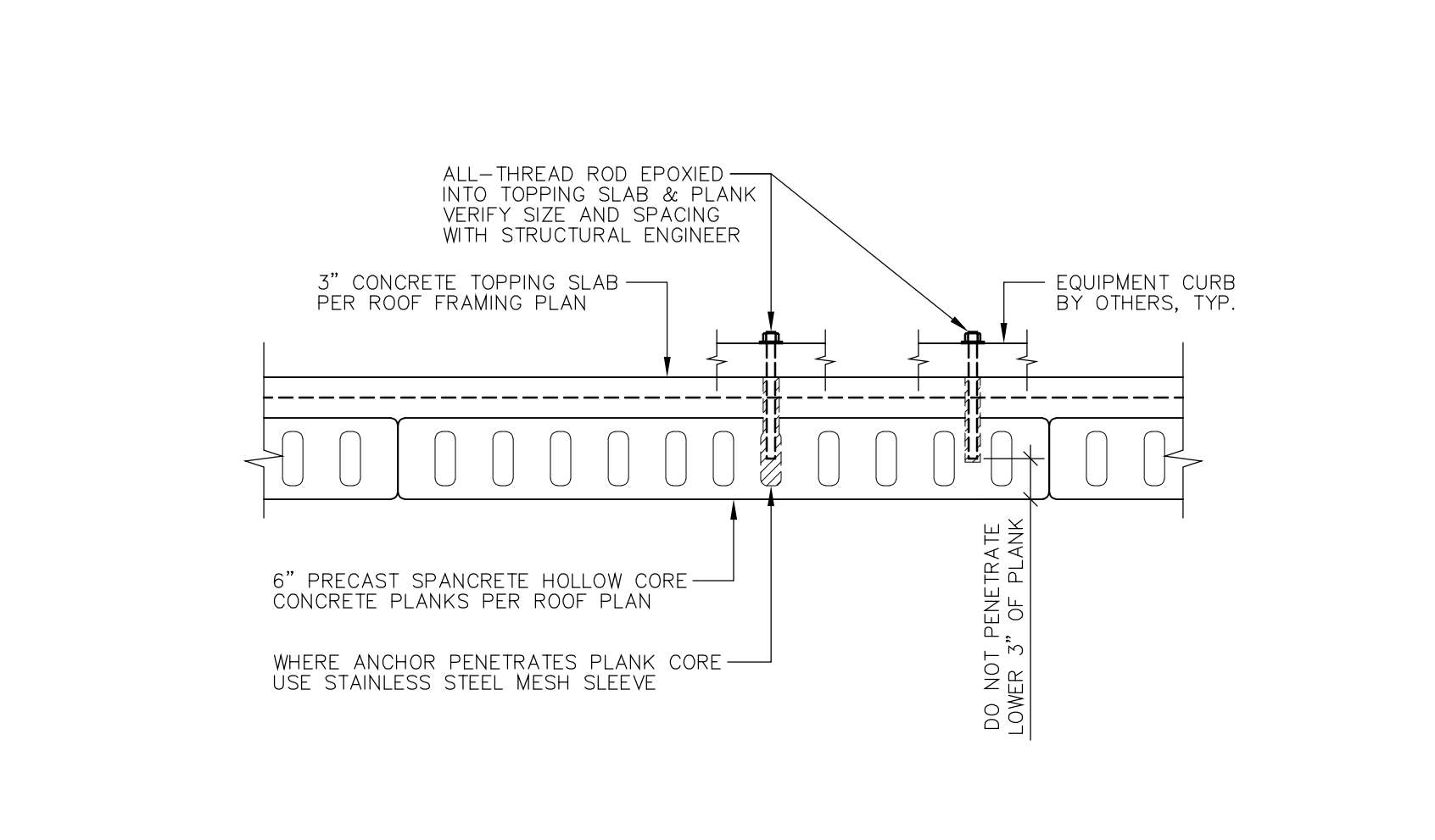
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**S4.1** Typical Closure Pour Details  
SCALE: N.T.S.



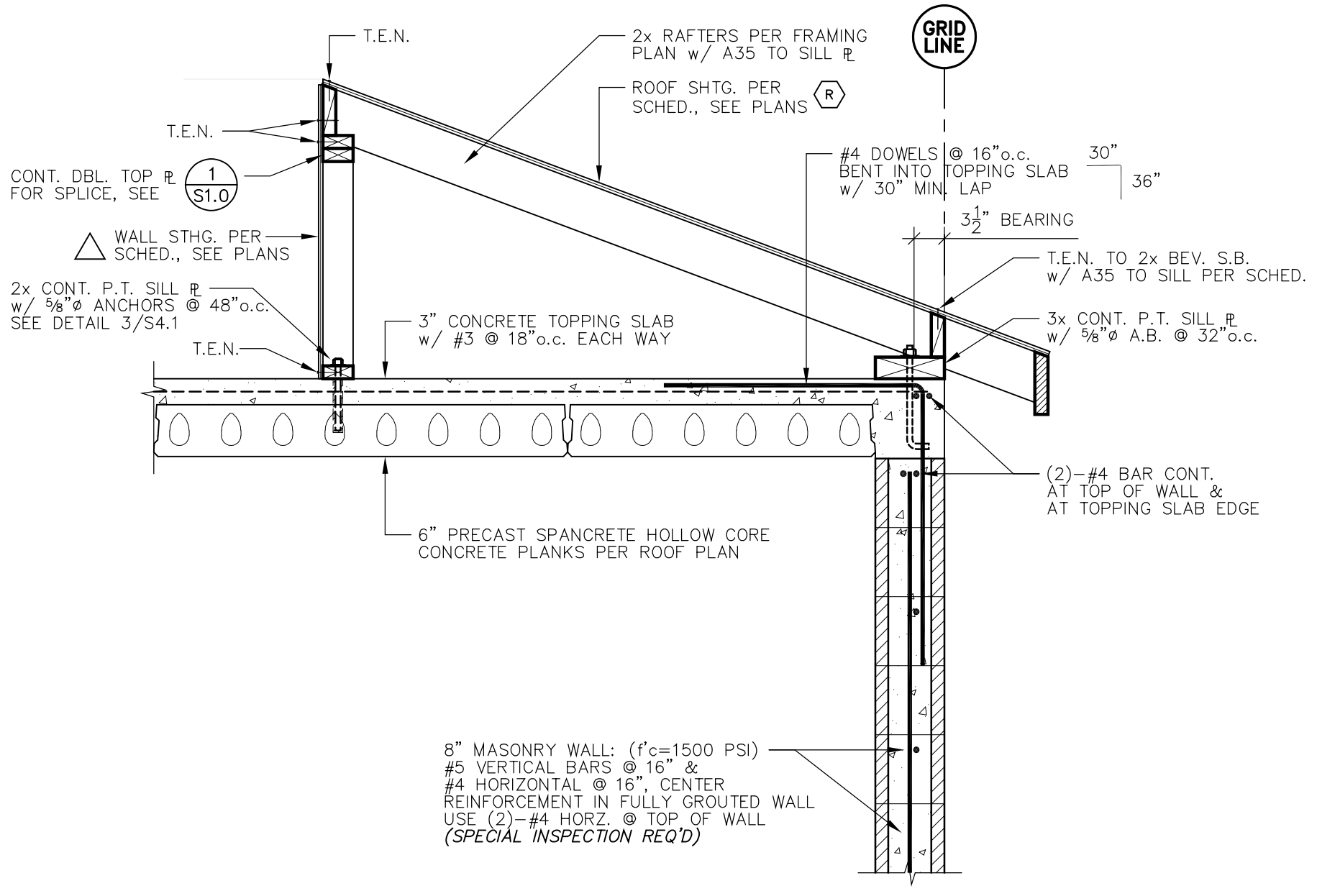
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**S4.1** Wall Detail  
SCALE: 3/4"=1'-0"



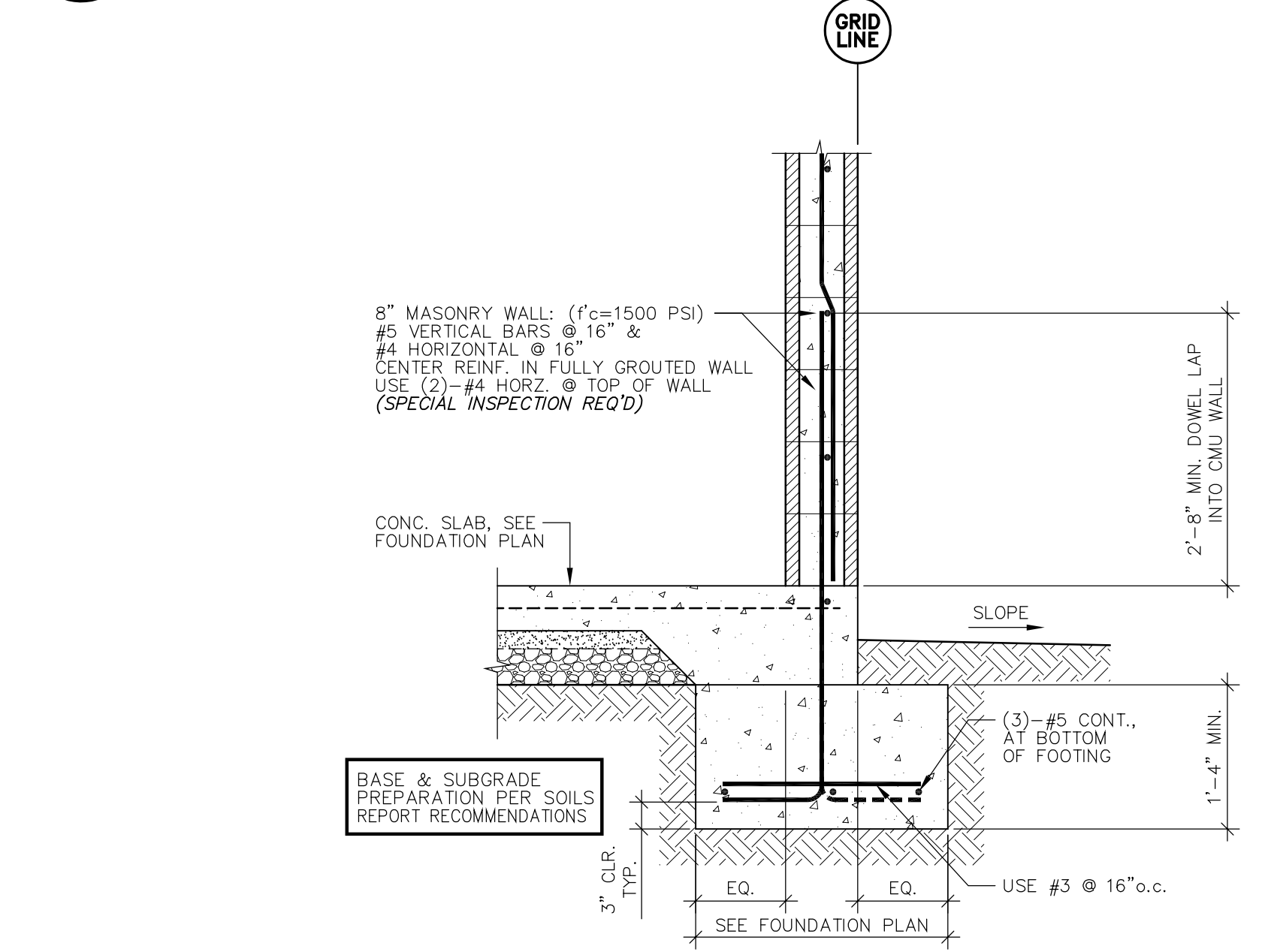
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**S4.1** Typ. Anchorage to Planks  
SCALE: 1"=1'-0"



**3**  
**S4.1** Typ. Anchorage to Planks  
SCALE: 3/4"=1'-0"



**2**  
**S4.1** Wall Detail  
SCALE: 3/4"=1'-0"



**1**  
**S4.1** Footing  
SCALE: 3/4"=1'-0"

**WR&D**  
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REGISTERED PROFESSIONAL ENGINEER  
No. 069334  
Exp. 06-30-20  
CIVIL  
STATE OF CALIFORNIA  
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**MPWMD SANTA MARGARITA ASR FACILITY**  
**CHLORINATION BUILDING**  
1910 GENERAL JIM MOORE BLVD.  
SEASIDE, CA

JOB NO.  
**HCA 18-057**  
PRINT DATE:  
PLOT DATE: 05.17.2019  
DRAWN BY: CG  
CHECKED BY: -  
SET ISSUED:  
60% DESIGN REVIEW 5/17/19  
100% DESIGN REVIEW 6/25/19  
ISSUED FOR BID 8/5/19

SHEET NAME:  
**Foundation & Framing Details**  
SHEET NO.:

**S4.1**  
FILE NAME:

# SPLIT SYSTEM HEAT PUMP

TAG	MANUFACTURER	MODEL No.	CFM	ESP	ELECTRICAL		APPROX. UNIT WT. (LBS.)	TAG	MANUFACTURER	MODEL No.	NOMINAL CAPACITY (TONS)	HEATING CAPACITY 70° EAT 47° AMBIENT (BTUH)	TOTAL COOLING CAPACITY 80°DB/67°WB 95° AMBIENT (MBH)	SENSIBLE COOLING CAPACITY 80°DB/67°WB 95° AMBIENT (MBH)	ELECTRICAL			APPROX. UNIT WT. (LBS.)	SEER	COP	HSPF	AREA SERVED BY OUTDOOR UNIT	NOTES
					MCA	VOLT-PH-Hz									BKR	MCA	VOLT-PH-Hz						
FC 1	MITSUBISHI	PEAD-A24AA7	700	0.6	2.63	208/230-1-60	70	HP 1	MITSUBISHI	PUZ-A24NHA7	2	26.0	24.0	16.3	26.0	19.0	208/230-1-60	151	19.6	4.35	10.8	STORAGE AND ELECTRICAL ROOM	① ② ③ ④ ⑤ ⑥
① CONTRACTOR SHALL PROVIDE ALL REFRIGERANT AND NECESSARY ACCESSORIES AND COMPONENTS FOR A COMPLETE OPERATING HEATING & COOLING SYSTEM.												⑤ POWER TO INDOOR FAN COIL SHALL BE POWERED THROUGH THE OUTDOOR UNIT VIA MITSUBISHI COMBINATION POWER AND CONTROL CABLE.											
② UNIT SHALL HAVE SAFETY SWITCH WITH DRAIN PAN LEVEL SENSOR TO SHUT COOLING OFF IF DRAIN PAN OVERFLOW. INSTALL PER MANUFACTURER'S INSTRUCTIONS.												⑥ FAN COIL SHALL HAVE INTEGRAL CONDENSATE PUMP.											
③ PROVIDE MANUFACTURER'S MEDIA FILTER BOX FBM2-3 WITH MINIMUM OF MERV 8 FILTERS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.																							
④ OUTDOOR UNIT SHALL BE PROVIDED WITH SEACOAST PROTECTION.																							

## MECH INSULATION NOTES

- ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE LATEST EDITIONS OF ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE REFERENCED CODES AND ORDINANCES, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
- ALL DUCTWORK INDICATED LINED SHALL HAVE FLEXIBLE INORGANIC FIBER ACOUSTIC DUCT LINER FOR THE LENGTH OF THE DUCT AS NOTED ON DRAWINGS.
- DUCT LINER SHALL BE ACOUSTIC FIBERGLASS DUCT LINER. THERMAL CONDUCTANCE (K) SHALL BE 0.24 BTU-IN/HR. SF °F RATED, HAVE A FIRE HAZARD CLASSIFICATION FLAME/FUEL/SMOKE MAX. OF 25/50/50, SURFACE ROUGHNESS (E) OF .0008 FEET AND VELOCITY RATING OF 5000 FPM. THE LINER SHALL BE SECURED TO THE DUCT INTERIOR WITH ADHESIVE WITH MINIMUM COVERAGE OF 90% OF METAL SURFACE, WITH 100 % COVERAGE AT THE EDGES. THE COATED SIDE OF THE DUCT LINER SHALL FACE THE AIR STREAM. LONGITUDINAL JOINT SHALL BE FORMED IN ONE CORNER OF THE DUCT WITH ALL JOINTS TIGHTLY BUTTED. EXPOSED EDGES OF INSULATION SHALL BE COATED WITH A HEAVY LAYER OF MASTIC PRIOR TO INSTALLATION OF THE DUCT SYSTEM. WHERE WIDTH OF DUCTS OR CASING EXCEED 12 INCHES, SHEET METAL FASTENERS, IN ADDITION TO ADHESIVE, SPECIFIED ABOVE, SHALL BE USED. SPACED NOT LESS THAN 12 INCHES ON CENTERS. INSULATION MAY BE APPLIED TO FLAT SHEETS AND FORMED WITH THE METAL IN THE BRAKE. JOHNS MANVILLE "LINACOUSTIC RC" OR APPROVED EQUAL.  
INSIDE BUILDING INSULATED ENVELOPE: 1" THICK  
OUTSIDE BUILDING INSULATED ENVELOPE: 2" THICK
- PRODUCTS NOT SPECIFIED WILL NOT BE ACCEPTED ON JOB SITE WITHOUT PRIOR APPROVAL.
- BIND SUBMITTALS IN BOOKLET FORM AND SUBMIT TO OWNER'S REPRESENTATIVE FOR APPROVAL.

## AIR TERMINAL NOTES

- FOR EXACT LOCATION AND ELEVATIONS OF AIR TERMINALS. SEE ARCH. PLANS.
- ALL VISIBLE INTERIOR PORTIONS OF DUCTWORK AND AIR TERMINALS SHALL BE PAINTED FLAT BLACK BY MECHANICAL CONTRACTOR.
- SIDEWALL SUPPLY REGISTERS SERVED BY FAN COIL UNIT SHALL BE KRUEGER MODEL 9880 DOUBLE DEFLECTION SIDEWALL REGISTER WITH OBD'S OR EQUAL. REGISTER SIZE INDICATED ARE INSIDE NECK DIMENSIONS. REGISTER SHALL BE STAINLESS STEEL CONSTRUCTION INCLUDING OBD.
- EXHAUST REGISTERS IN CHEMICAL/TANK ROOM SHALL BE KRUEGER MODEL 9S80 STAINLESS STEEL REGISTERS WITH 45° DEFLECTION 3" BLADE SPACING OR EQUAL. REGISTER SIZE INDICATED ARE INSIDE NECK DIMENSIONS.
- RETURN REGISTERS SERVED BY THE FAN COIL UNIT SHALL BE KRUEGER 9S80 STAINLESS STEEL REGISTERS WITH 45° DEFLECTION 3" BLADE SPACING WITH STAINLESS STEEL OBD OR EQUAL. REGISTER SIZE INDICATED ARE INSIDE NECK DIMENSIONS.
- PRODUCTS NOT SPECIFIED WILL NOT BE ACCEPTED ON JOB SITE WITHOUT PRIOR APPROVAL.
- BIND SUBMITTALS IN BOOKLET FORM AND SUBMIT TO OWNERS FOR APPROVAL.

## MECH. EQUIP ANCHORAGE

ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER 2016 C.B.C. TABLE 16A AND SMACNA GUIDELINES WHICHEVER IS MOST RESTRICTIVE.

## GENERAL NOTES

- ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE LATEST EDITIONS OF ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE REFERENCED CODES AND ORDINANCES, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
- DRAWINGS SHOW DUCTWORK DIAGRAMMATICALLY.
- COORDINATE FIELD DETAILS WITH OTHER TRADES TO AVOID CONSTRUCTION DELAYS AND MAINTAIN REQUIRED CLEARANCES.
- VARY RUN AND SHAPE OF DUCTWORK AND MAKE OFFSET DURING PROGRESS OF WORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCE AS APPROVED BY ARCHITECT.
- THE MECHANICAL CONTRACTOR SHALL VERIFY ALL SECTIONS AND ELEVATIONS PRIOR TO DUCTWORK FABRICATIONS.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL AIR TERMINALS WITH FINISH TRADES AND GET OWNER'S REPRESENTATIVE'S APPROVAL BEFORE PROCEEDING WITH FABRICATION.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR ALL SPECIAL FRAMING, SOFFITS, SHAFTS AND ANY OTHER COORDINATION ITEMS FOR A COMPLETE INSTALLATION.
- ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.
- DUCTWORK SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL SHEET METAL UNLESS OTHERWISE SPECIFIED. METAL GAUGES AND INSTALLATION STANDARDS SHALL BE PER 2005 3RD EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 2016 CALIFORNIA MECHANICAL CODE AND SPECIFICATIONS; WHICHEVER IS MORE STRINGENT SHALL GOVERN.
- FABRICATE DUCTWORK IN A WORKMANLIKE MANNER WITH AIRTIGHT JOINTS, PRESENTING SMOOTH SURFACES ON INSIDE, NEATLY FINISHED ON OUTSIDE; CHANGES IN DIRECTION SHALL BE MADE WITH LONG RADIUS ELBOWS (R=1-1/2 DIA.) OR MITERED ELBOWS WITH TURNING VANES. MAKE INTERNAL ENDS OF SLIP JOINTS IN DIRECTION OF AIR FLOW. TURNING VANES SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.
- CONSTRUCT, BRACE AND SUPPORT DUCTS AND AIR PLENUMS TO PREVENT SAGGING AND TO MINIMIZE VIBRATION PER SMACNA STANDARDS AND THE 2016 EDITION OF THE CALIFORNIA MECHANICAL CODE (CMC 2016) AND SPECIFICATIONS, WHICHEVER IS MORE STRINGENT SHALL GOVERN.
- SEAL SUPPLY AND RETURN DUCT JOINTS AND SEAMS AIRTIGHT WITH UL 181 LISTED DUCT SEALANT. DUCT SEALANT IN CHEMICAL TANK ROOMS SHALL BE COMPATIBLE WITH CHEMICALS IN ROOM.
- INSTALL MANUAL VOLUME DAMPERS AS SHOWN ON THE PLANS. MANUAL VOLUME DAMPERS INSTALLED IN 316 STAINLESS STEEL DUCT SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.
- MECHANICAL CONTRACTOR SHALL PROVIDE 316 STAINLESS STEEL BIRD-SCREENS AT ALL INTAKE AND EXHAUST OPENINGS.
- ALL VISIBLE INTERIOR PORTIONS OF DUCTWORK AND AIR TERMINALS SHALL BE PAINTED FLAT BLACK BY MECHANICAL CONTRACTOR.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION OF ELECTRICAL CONNECTIONS.
- INDEPENDENT AIR BALANCE CONTRACTOR SHALL BALANCE AIR SYSTEM TO WITHIN +/- 5% OF THE AIR QUANTITIES SHOWN. BALANCE SYSTEM PER "NEBB" OR "AABC" STANDARDS. ALL BALANCING EQUIPMENT SHALL BE CALIBRATED AND CERTIFIED BY THE EQUIPMENT MANUFACTURERS APPROVED AGENCY. CERTIFICATION SHALL BE DATED WITHIN 6 MONTHS OF TEST AND BALANCE. SUBMIT FOUR (4) COPIES OF THE AIR BALANCE REPORT WITH EQUIPMENT CALIBRATION CERTIFICATION FOR APPROVAL. PROVIDE AIR FLOW AT EACH AIR TERMINAL. PROVIDE DUCT TRAVERSE AIR FLOW AT EACH SYSTEM DUCT MAIN. PROVIDE FAN RPM'S, BHP, MOTOR VOLTAGE, MOTOR FLA AND FAN SHEAVE OPENING. PROVIDE AIR TEMPERATURE, OUTDOOR AIR TEMPERATURE. FAN COIL SUPPLY AIR TEMPERATURE, COOLING AND HEATING. FILTER TYPE. ROOM TEMPERATURE.
- ALL EQUIPMENT AND DUCTWORK SHALL BE LATERALLY RESTRAINED ACCORDING TO THE REQUIREMENTS OF CHAPTER 16 OF THE 2010 CALIFORNIA BUILDING CODE, THE LATEST EDITION OF THE SMACNA GUIDELINES FOR THE SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT AND PIPING SYSTEMS, OR AS DESCRIBED IN THESE PLANS AND SPECIFICATIONS, WHICHEVER IS THE MOST STRINGENT REQUIREMENT SHALL GOVERN. COMPLY WITH ADDENDUM #1 OF THE SMACNA GUIDELINES FOR THE SEISMIC RESTRAINT OF MECHANICAL EQUIPMENT AND PIPING SYSTEMS ISSUED SEPTEMBER 2000. ALL BRACING AND RESTRAINTS SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.

## GENERAL NOTES (cont.)

- PRODUCTS NOT SPECIFIED WILL NOT BE ACCEPTED ON JOB SITE WITHOUT PRIOR APPROVAL.
- LOW VOLTAGE CONTROL WIRING SHALL BE ROUTED IN STAINLESS STEEL EMT. EMT SHALL BE BY CONTROLS CONTRACTOR.
- CONTRACTOR SHALL INSTALL DUCT FLEX CONNECTIONS AT ALL FAN CONNECTIONS.
- PROVIDE SUBMITTALS PER SECTION 013300 OF THE TECHNICAL SPECIFICATIONS. SUBMIT FOUR (4) COPIES TO OWNER'S REPRESENTATIVE FOR REVIEW.
- LOCATION OF THERMOSTATS IS APPROXIMATE. EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE OWNER'S REPRESENTATIVE.
- ALL ROOF AND EXTERIOR WALL PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO SEAL WEATHER TIGHT.
- THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, 2016 CBC SECTION 1632A AND TABLE 16A-0.
- CONDENSATE PIPING FROM AC UNIT SHALL BE TYPE "L" COPPER WITH SOLDERED FITTINGS. CONDENSATE PIPING INSIDE THE BUILDING SHALL BE INSULATED WITH 3/8" THICK ARMAFLEX, RUBATEX OR EQUAL.
- REQUIREMENTS OF DIVISION 1 - GENERAL REQUIREMENTS OF THE TECHNICAL SPECIFICATION IS PART OF THE MECHANICAL WORK.
- PROVIDE "AS-BUILT" PLANS AND CLOSEOUT DOCUMENTS AS REQUIRED BY SECTION 017700, CLOSE OUT PROCEDURES.
- PROVIDE OPERATIONS AND MAINTENANCE MANUAL FOR ALL EQUIPMENT. PROVIDE SCHEDULE FOR MOTOR AND FAN BEARING LUBRICATION. SCHEDULE FOR FILTER CHANGE. PROVIDE ON CALL MAINTENANCE PERSONNEL PHONE NUMBER. PROVIDE ADDITIONAL ITEMS REQUIRED IN SECTION 017700 CLOSEOUT PROCEDURE.

## REFRIGERATION NOTES

- REFRIGERATION SUCTION AND LIQUID LINES SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATIONS FOR EXTENDED LENGTHS.
- BELOW GRADE REFRIGERANT LINES SHALL BE ACR RATED HARD DRAWN TYPE "L" COPPER. ALL PIPING JOINTS SHALL BE BRAZED WITH "SIL-FOS" OR "EASY FLOW" WITH DRY NITROGEN BEING CIRCULATED THROUGH THE PIPING DURING THE BRAZING PROCESS. ALL PIPING SHALL SLOPE TO THE CONDENSING UNITS OR TO SUCTION LINE RISER "P" TRAPS.
- INSTALL IN-LINE TYPE LIQUID LINE FILTER DRIER IN EACH LIQUID LINE (AS RECOMMENDED BY CONDENSING UNIT MFR).
- VRF SYSTEMS (ABOVE GRADE PIPING): SUCTION LINES SHALL BE INSULATED WITH 1-1/2" THICK ARMAFLEX, RUBATEX OR EQUAL. LIQUID LINES SHALL BE INSULATED WITH 1" THICK ARMAFLEX, RUBATEX OR EQUAL.
- WHERE LINES ARE EXPOSED TO OUTDOORS, PIPING AND INSULATION SHALL BE COVERED WITH (MIN. 4MM) WATER PROOF ALUMINUM JACKET. JACKET TO BE INSTALLED WITH METAL BANDS WITH ALL JOINTS AND SEAMS SEALED PER THE MFR'S INSTRUCTIONS. LONGITUDINAL SEAMS SHALL BE AT THE BOTTOM OF PIPE. JACKET SHALL BE UV RESISTANT. EQUAL BY PVC JACKETING SYSTEM, JOHNS MANVILLE ZESTON 2000 PVC PIPE JACKET SYSTEM
- SUCTION AND HP LIQUID/HG LINES SHALL BE INSULATED WITH CLASS I OR CLASS II INSULATION OR REQUIRED THICKNESS TO QUALIFY AS CLASS I OR CLASS II.
- INSTALL SUCTION LINE "P" TRAPS IN ALL SUCTION LINE RISERS WITH INVERTED "P" TRAPS AT THE TOPS OF SUCTION RISERS.
- ALL REFRIGERANT LINES SHALL BE TRIPLE EVACUATED AND VACUUM LEAK TESTED AT 500 MICRONS. FIRST TWO VACUUMS SHALL HOLD FOR A MINIMUM OF 8 HOURS EA. WITHOUT ANY CHANGE IN PRESSURE AND FINAL VACUUM SHALL HOLD 24 HOURS WITHOUT ANY CHANGE IN PRESSURE. AFTER VACUUM TESTING, FULLY CHARGE SYSTEM WITH REFRIGERANT AND CONDUCT FINAL LEAK TEST WITH A HALIDE LEAK DETECTOR.
- AIR CONDITIONING EQUIPMENT MANUFACTURER SHALL FURNISH ALL NECESSARY ACCESSORIES FOR A COMPLETE WORKING SYSTEM INCLUDING ACCESSORIES FOR THE EXTENDED REFRIGERANT LINES.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY REFRIGERANT FOR A FULL OPERATING CHARGE.

## LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
Ø	A	AMPERES
	ARCH	ARCHITECTURAL DRAWINGS
	CFM	CUBIC FEET PER MINUTE
	DIA	DIAMETER
	DN	DOWN
	DB	DRY BULB TEMPERATURE
	(E)	EXISTING
↗	EG	EXHAUST AIR GRILLE
☒	EA	EXHAUST AIR DUCT
	ESP	EXTERNAL STATIC PRESSURE
	FLA	FULL LOAD AMPS
	FLR	FLOOR
		FLEX DUCT
	GA	GAUGE
	GALV	GALVANIZED
	HP	HORSE POWER
	LBS	POUNDS
	LRA	LOCKED ROTOR AMPS
	MBH	THOUSAND BTU PER HOUR
	MVD	MANUAL VOLUME DAMPER
	MTL	METAL
	MCA	MINIMUM CIRCUIT AMPACITY
	NTS	NOT TO SCALE
	PLCS	PLACES
	POC	POINT OF CONNECTION
10X20		RECTANGULAR DUCT (IN INCHES)
↔	RA	RETURN AIR DUCT
↔	RAR	RETURN AIR REGISTER
	RG	RELIEF AIR GRILLE
	RLA	RATED LOAD AMPS
10"ø		ROUND DUCT/SIZE
SD		SMOKE DETECTOR (DUCT TYPE)
LD		LINED DUCT
SA		SUPPLY AIR DUCT
T'STAT		THERMOSTAT
TYP		TYPICAL
UTR		UP THRU ROOF
V		VOLT
WB		WET BULB TEMPERATURE
		DUCT TRANSITION (SMACNA STANDARDS)
SR		SUPPLY REGISTER
CD		CEILING DIFFUSER
FD		FIRE DAMPER
SFD		SMOKE FIRE DAMPER
		DUCTWORK & EQUIP. TO BE REMOVED
(N)		NEW INSTALLATION
CP		DDC CONTROL PANEL
DDC		DIRECT DIGITAL CONTROLS
MD		MOTORIZED DAMPER
BDD		BACKDRAFT DAMPER
		DUCT RISE
BAS		BUILDING AUTOMATION SYSTEM
		SENSOR
SS		STAINLESS STEEL



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MPWMD SANTA MARGARITA ASR FACILITY  
CHLORINATION BUILDING

1910 GENERAL JIM MOORE BLVD.  
SEASIDE, CA

JOB NO.:  
**18014.2**

PRINT DATE:

PLOT DATE: 6.25.2019

CHECKED BY: WA

SET ISSUED:

60% DESIGN REVIEW 5/17/19  
100% DESIGN REVIEW 6/25/19  
ISSUED FOR BID 8/5/19

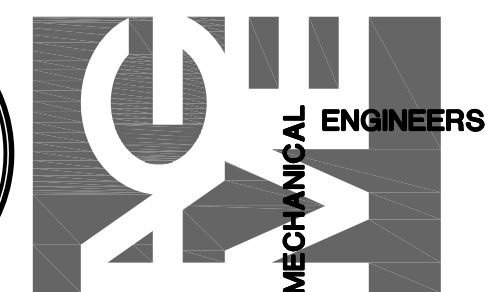
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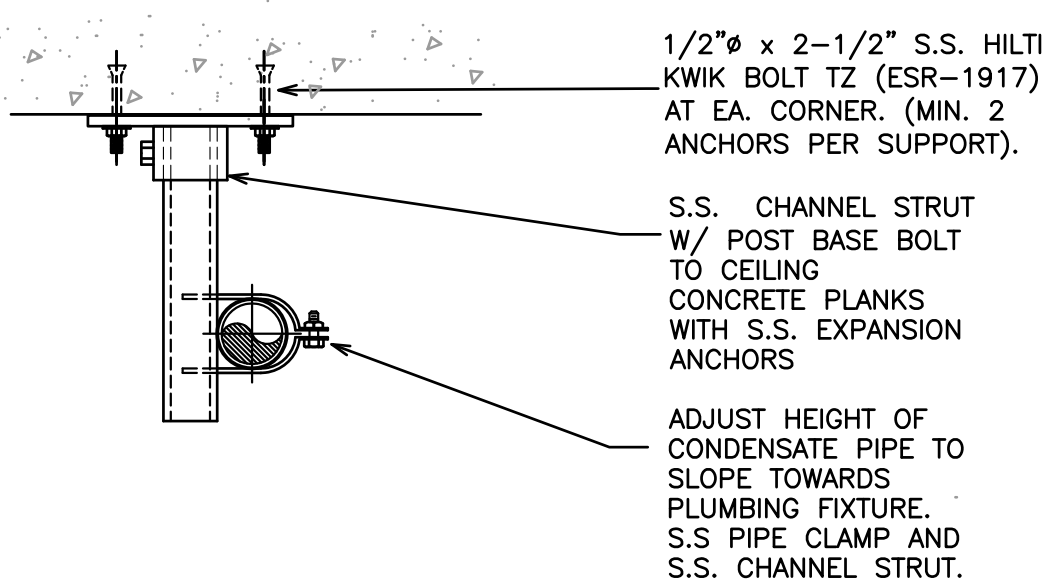
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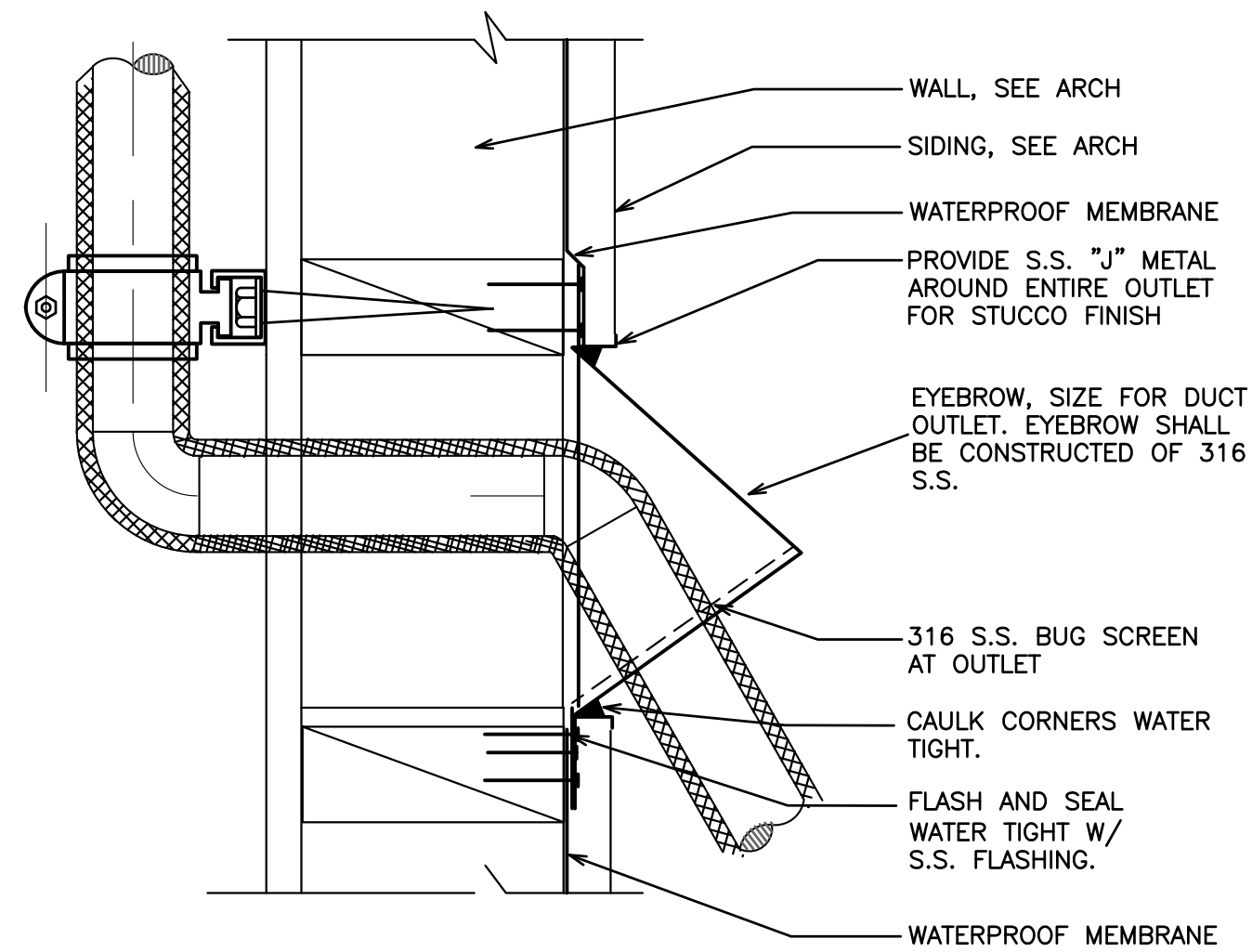


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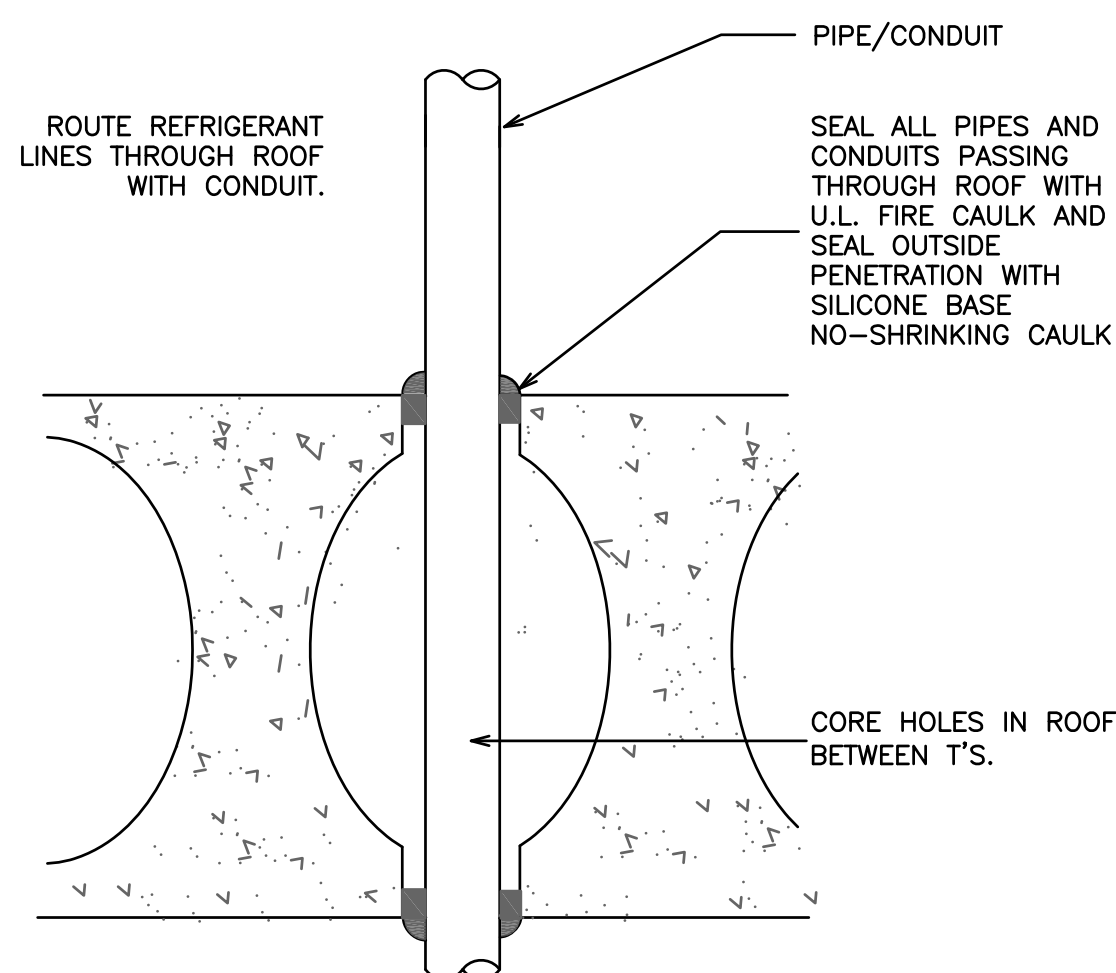
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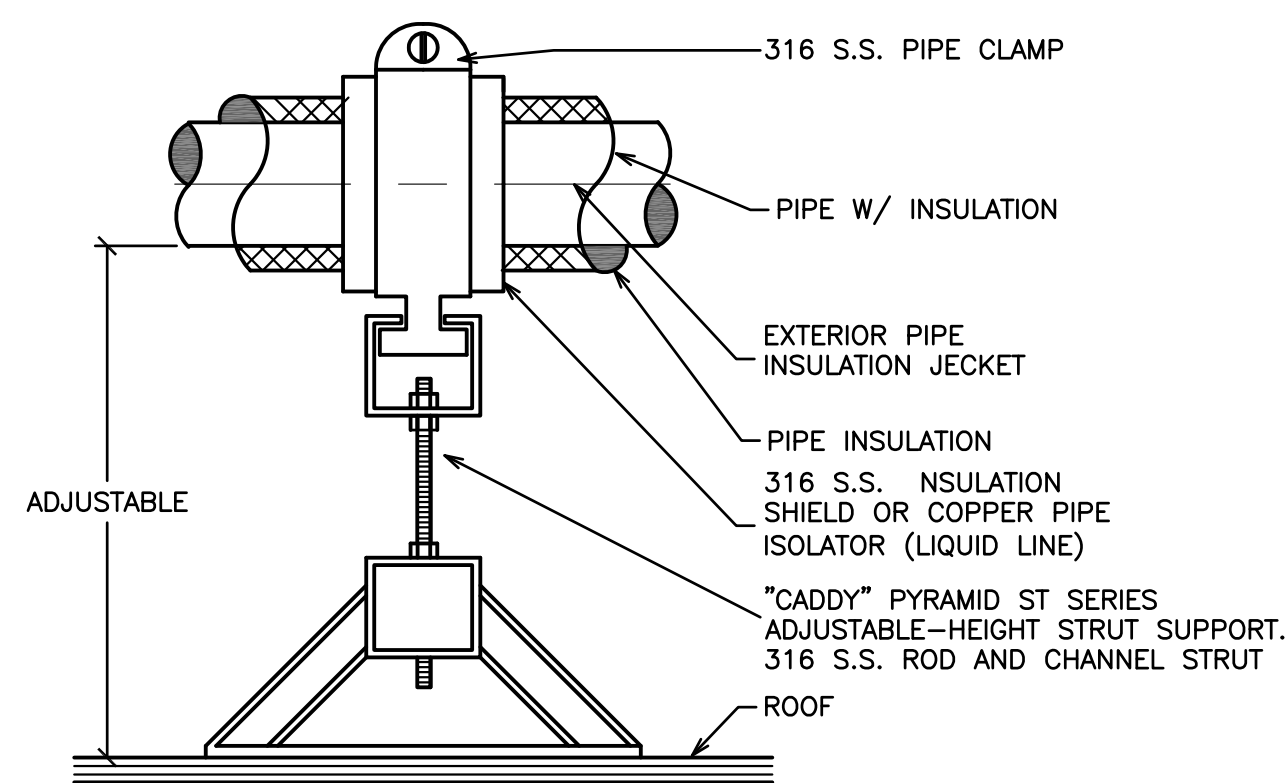
**SINGLE CEILING PIPE SUPPORT** NTS 16



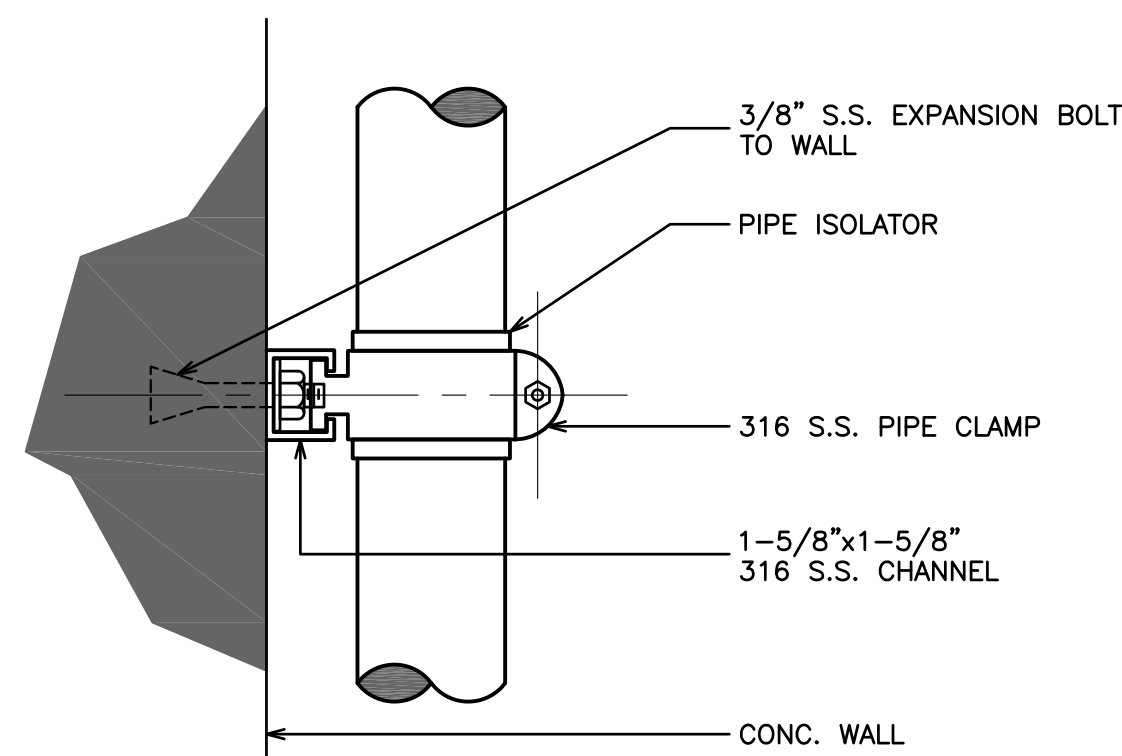
**REFRIG. PIPE THRU WALL** NTS 15



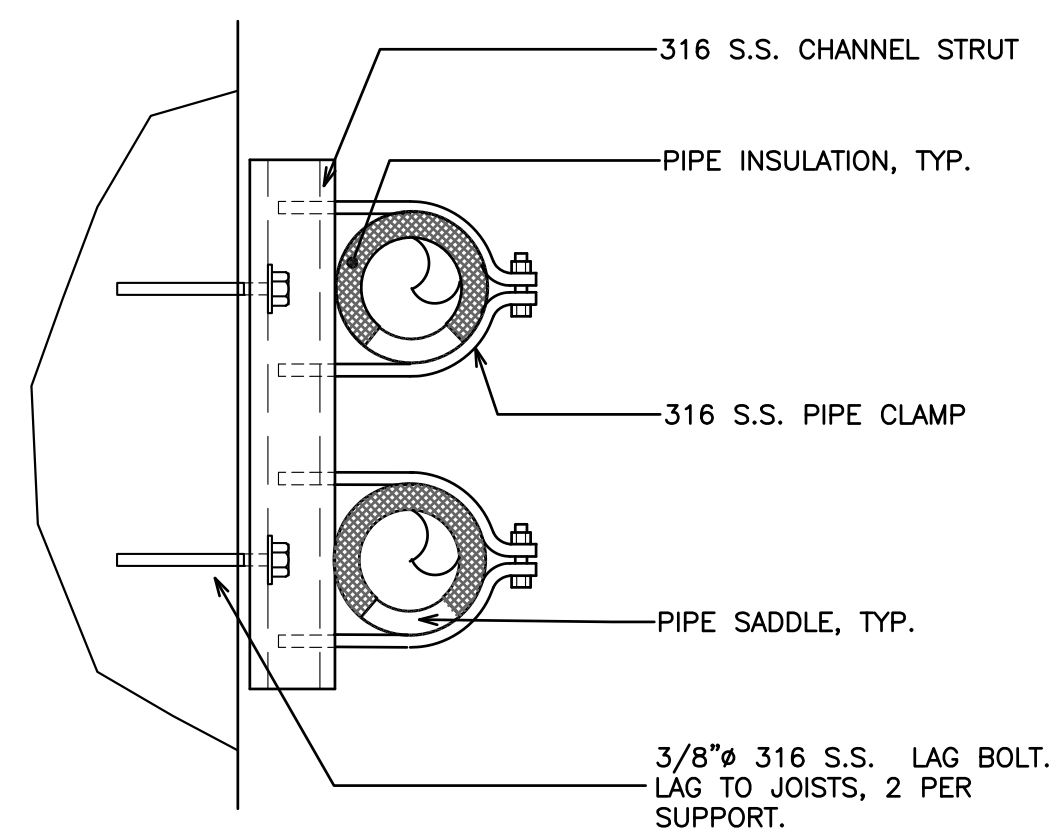
**PIPE/CONDUIT THRU ROOF @ ATTIC** NTS 14



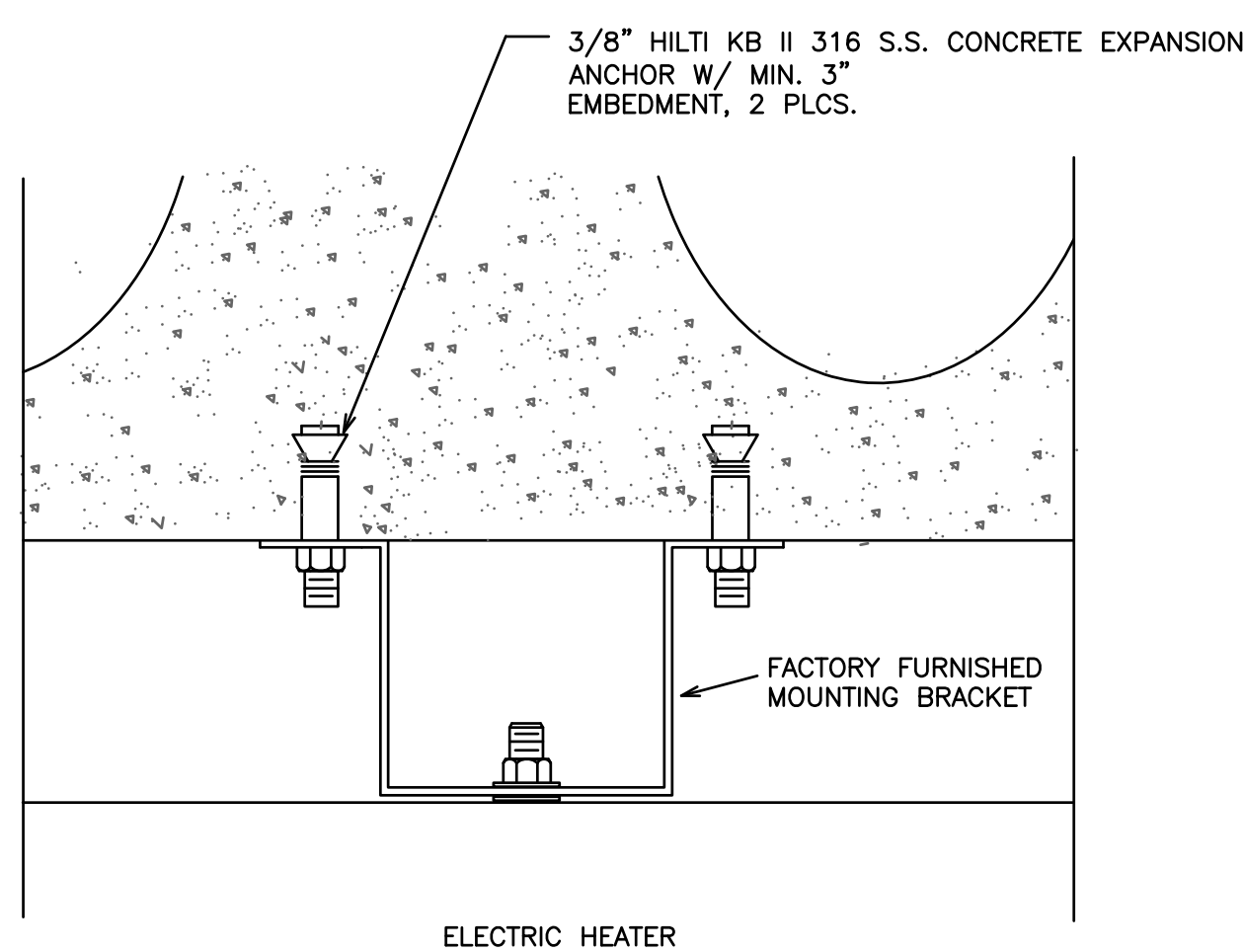
**PIPE SUPPORT ON ROOF** NTS 13



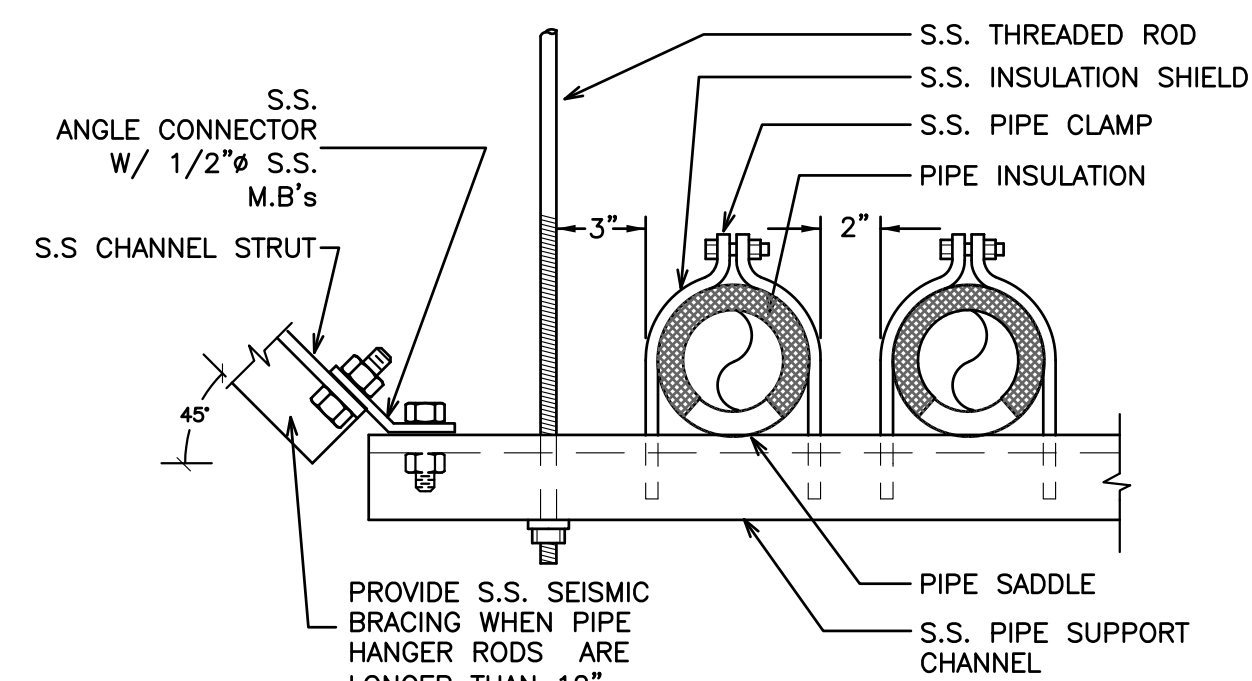
**VERTICAL PIPE SUPPORT CONCRETE WALL** NTS 12



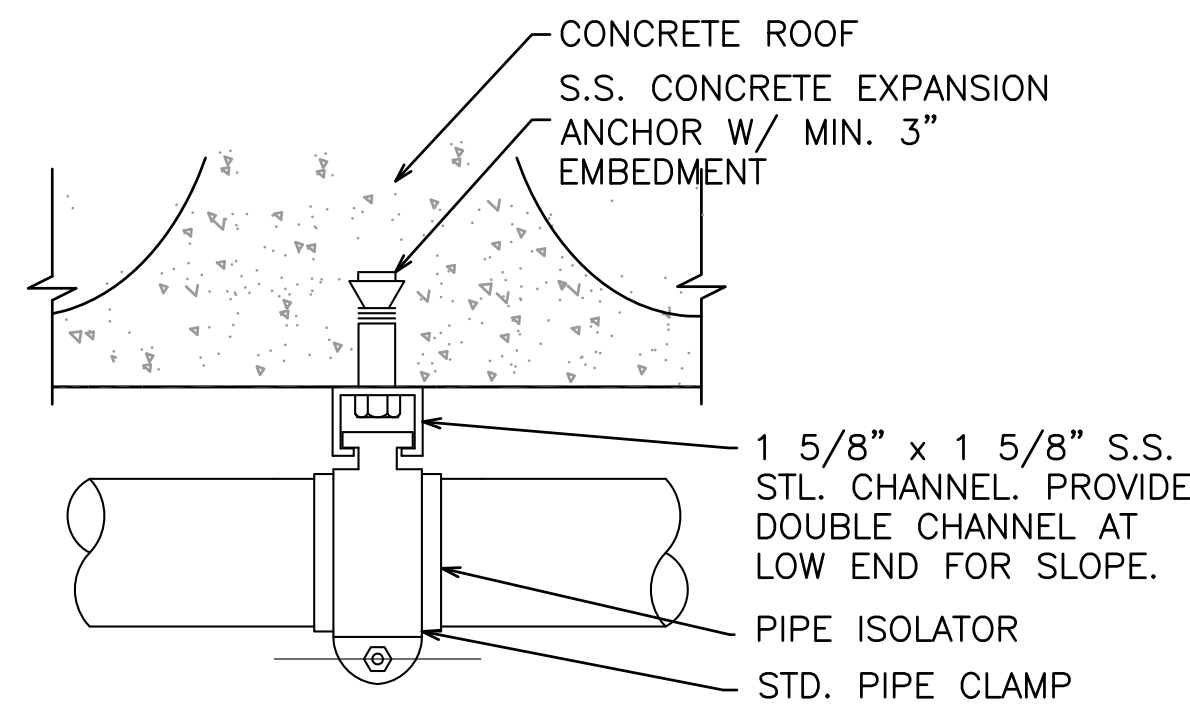
**PIPE SUPPORT @ FRAMED WALL** NTS 11



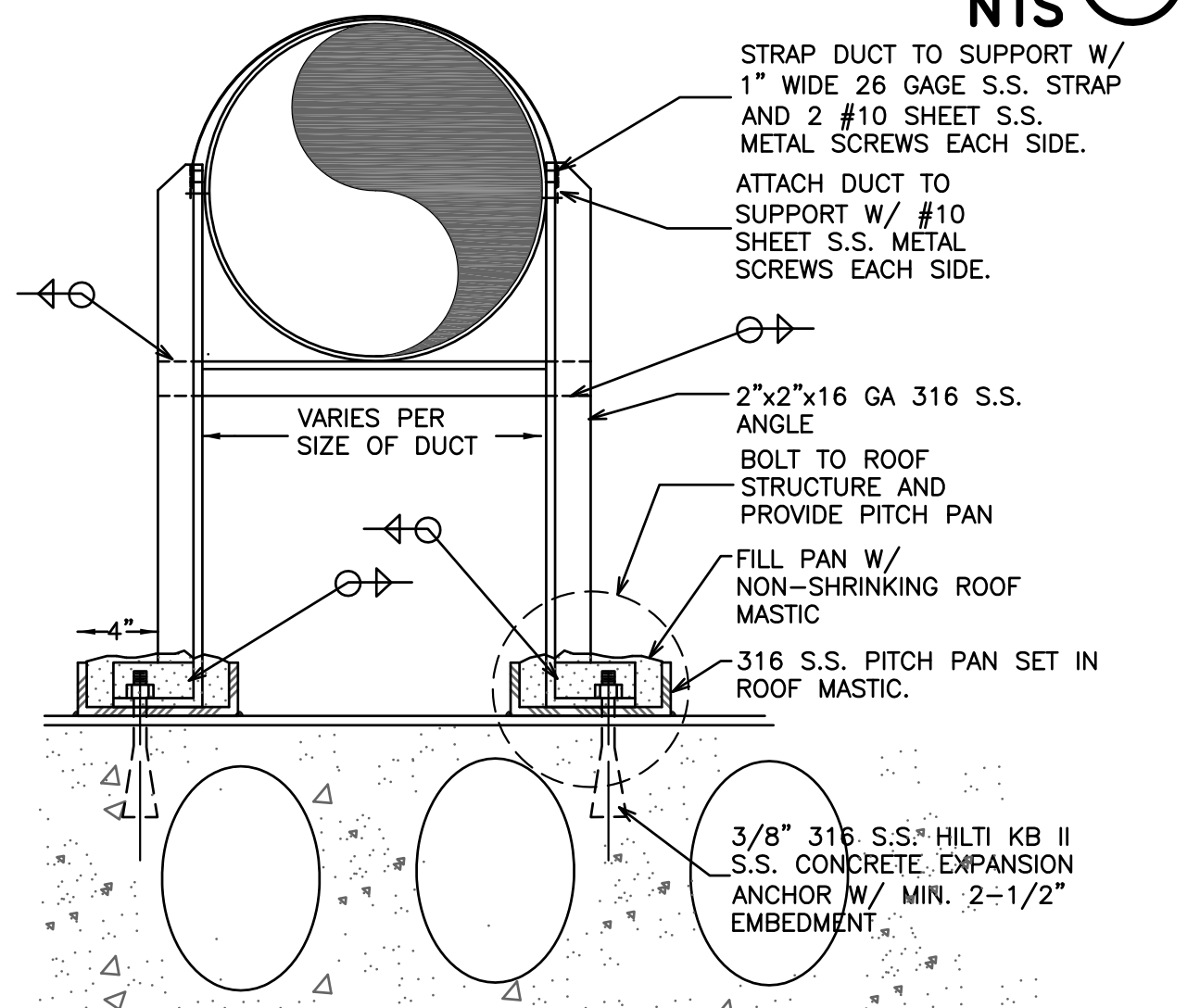
**ELECTRIC HEATER MTG** NTS 10



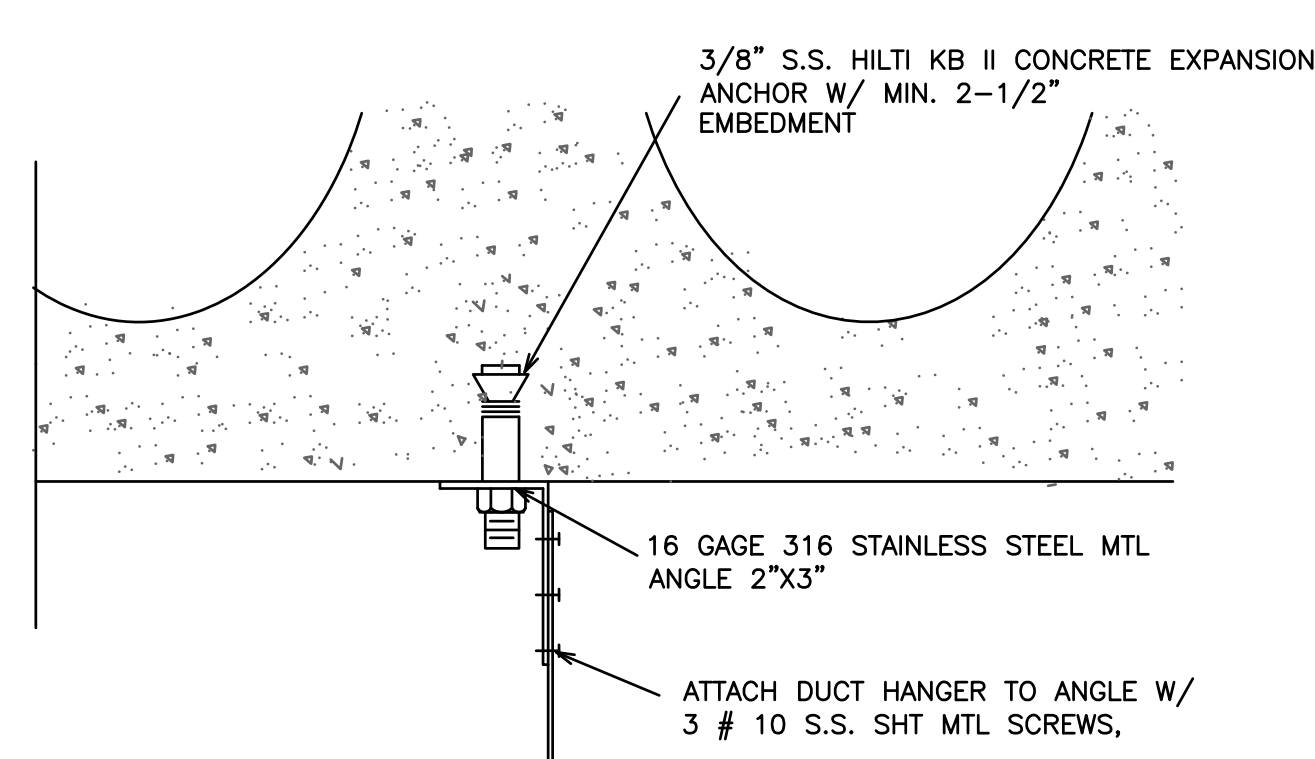
**PIPE HANGER** NTS 9



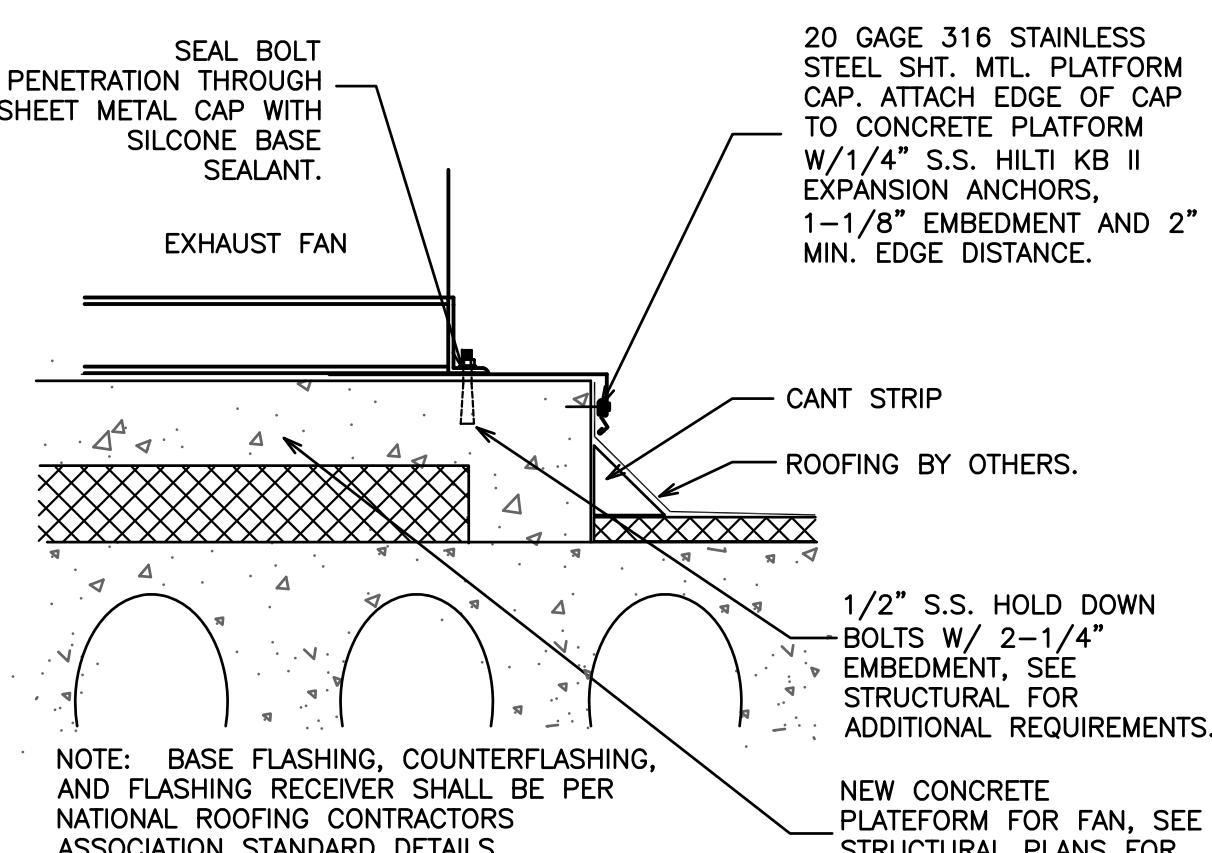
**PIPE HANGER DETAIL** NTS 8



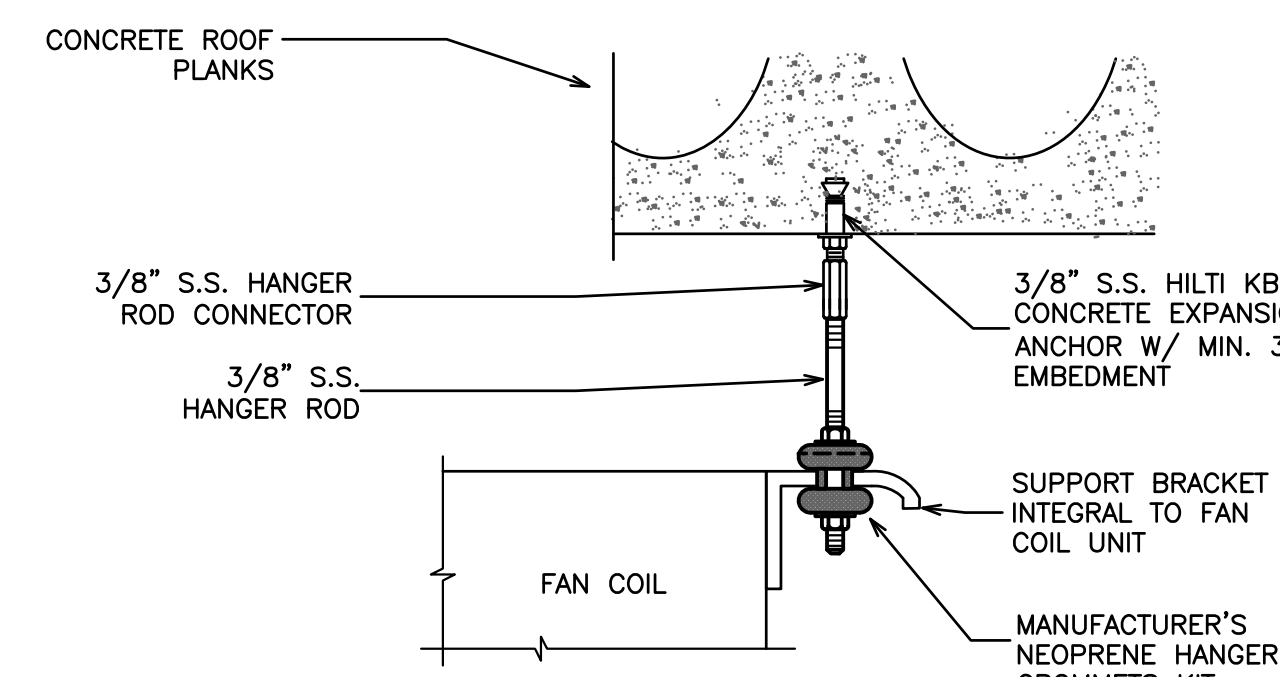
**DUCT SUPPORT** NTS 7



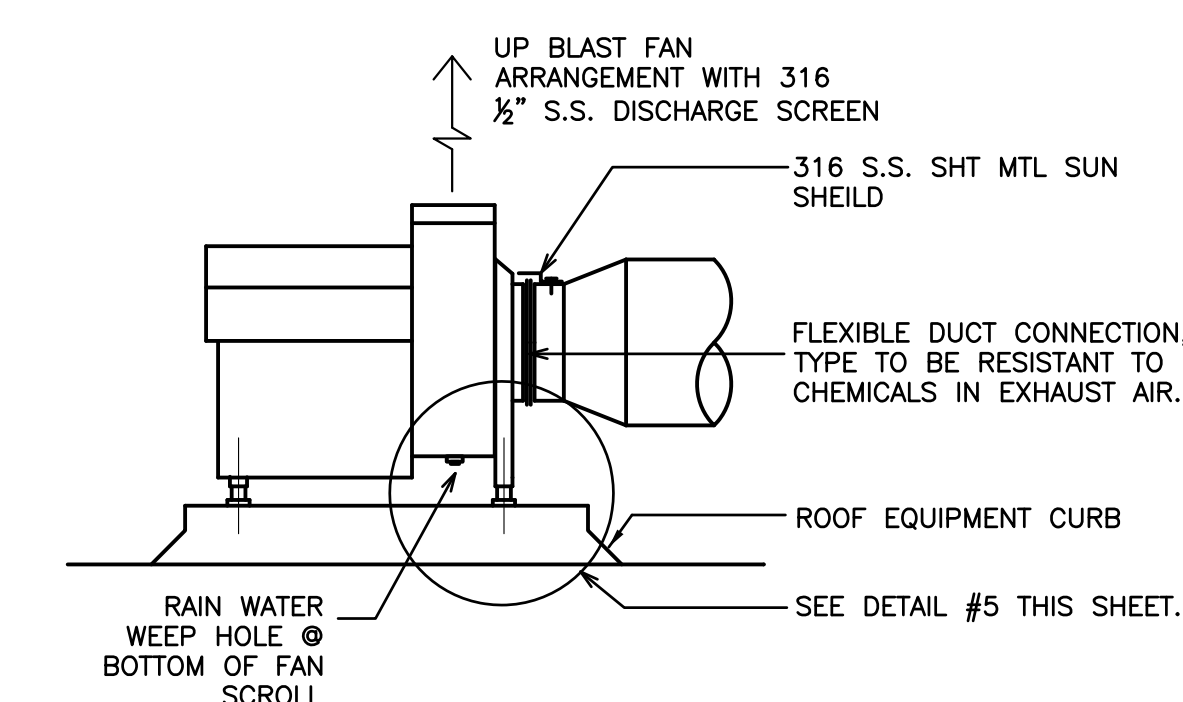
**DUCT HANGER ATTACHMENT** NTS 6



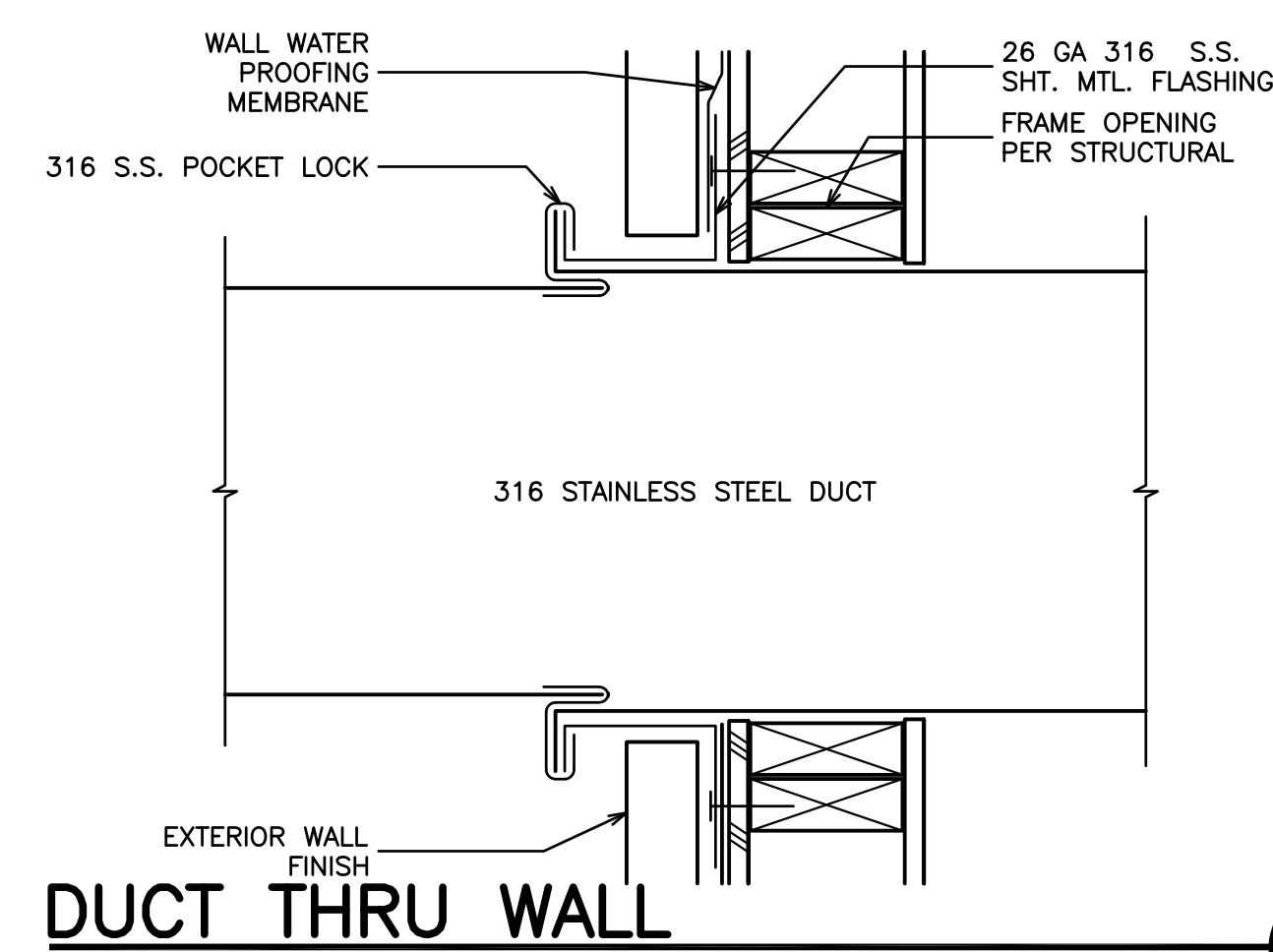
**FAN MOUNTING** NTS 5



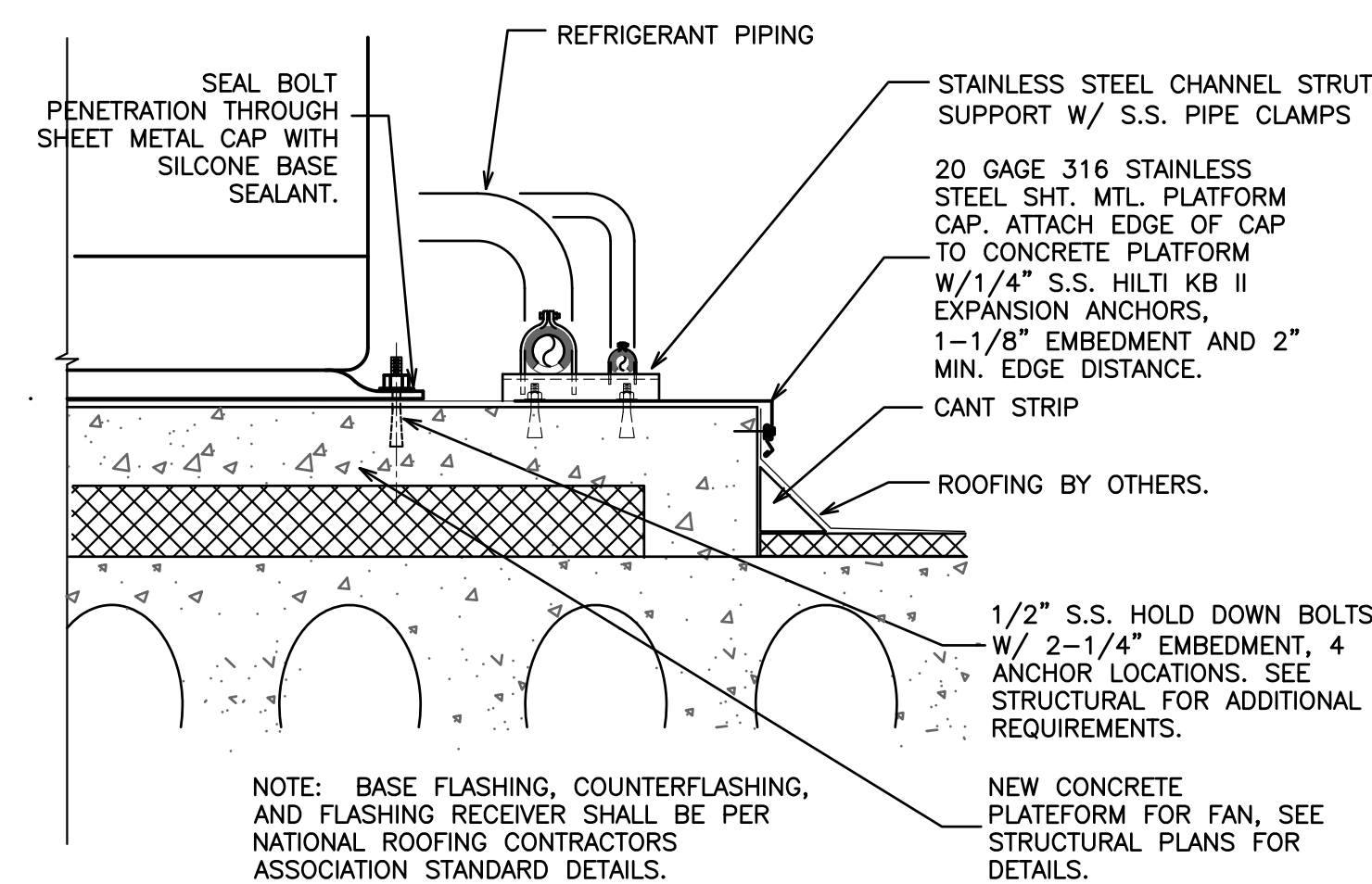
**FAN COIL MOUNTING** NTS 4



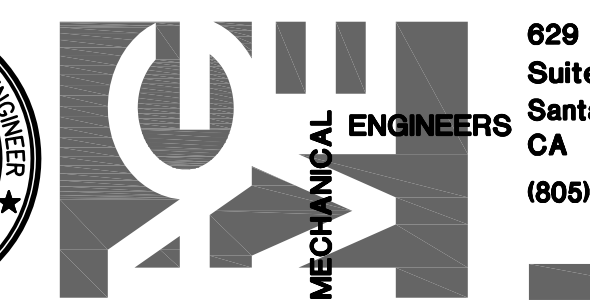
**UTILITY SET FAN ON ROOF** NTS 3



**DUCT THRU WALL** NTS 2



**OUTDOOR HEAT PUMP MOUNTING** NTS 1



629 State St.  
Suite 210  
Santa Barbara  
CA 93101  
(805) 968-0844

**HV1.1**

JOB NO: 18014.2

PRINT DATE: 6.25.2019

PLOT DATE: 6.25.2019

CHECKED BY: WA

SET ISSUED: WA

60% DESIGN REVIEW 5/17/19

100% DESIGN REVIEW 6/25/19

ISSUED FOR BID 8/5/19

SHEET NAME:



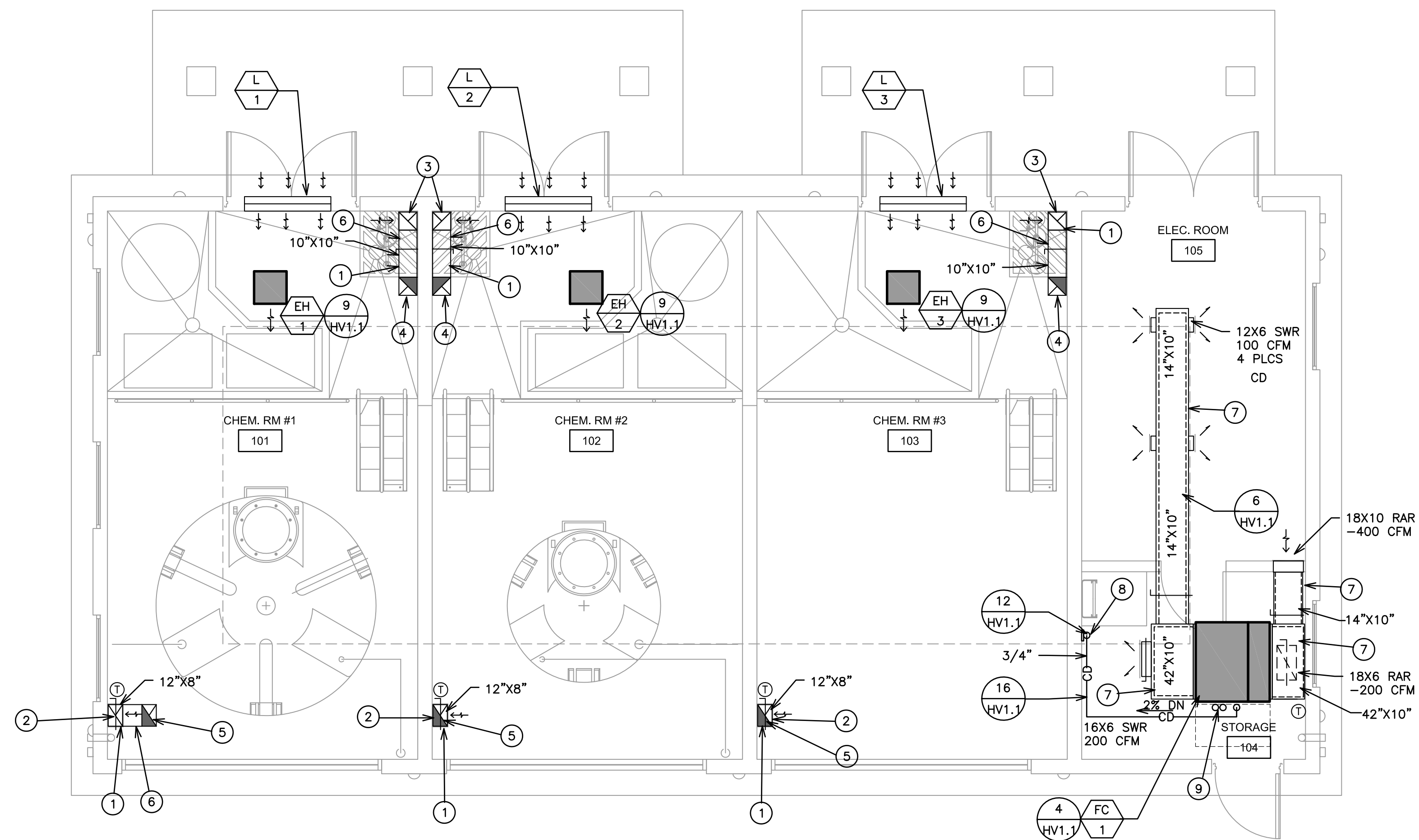
REFERENCE NOTES #

1. EXHAUST DUCT SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.
2. INLET OF EXHAUST SHALL BE MAX OF 12" ABOVE FLOOR. PROVIDE 12"x8" S.S. EXHAUST REGISTER. AIR BALANCE TO -450 CFM.
3. ROUTE DUCT THROUGH FLOOR AND INLET SHALL BE MAX 12" ABOVE LOWER FLOOR. PROVIDE 10"x10" S.S. EXHAUST REGISTER. AIR BALANCE TO -450 CFM.
4. 10"x10" DUCT UP THRU ROOF STRUCTURE INTO MANSARD ATTIC.
5. 12"x8" DUCT UP THRU ROOF STRUCTURE INTO MANSARD ATTIC.
6. OFFSET DUCT TIGHT AGAINST ROOF STRUCTURE.
7. HVAC DUCTWORK SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.
8. ROUTE CONDENSATE DRAIN PIPE DOWN WALL TO DRAIN IN FLOOR.
9. ROUTE REFRIGERANT LINES UP THROUGH CONCRETE PLANKS INTO MANSARD SPACE.



2340 GARDEN ROAD, SUITE 100  
MONTEREY, CALIFORNIA 93940  
PHONE: 831.649.4642  
FAX: 831.649.3530  
WWW.WRDARCH.COM

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MECHANICAL FLOOR PLAN

1/4"=1'-0"

MPWMD SANTA MARGARITA ASR FACILITY  
CHLORINATION BUILDING

1910 GENERAL JIM MOORE BLVD.  
SEASIDE, CA

JOB NO.:

18014.2

PRINT DATE:

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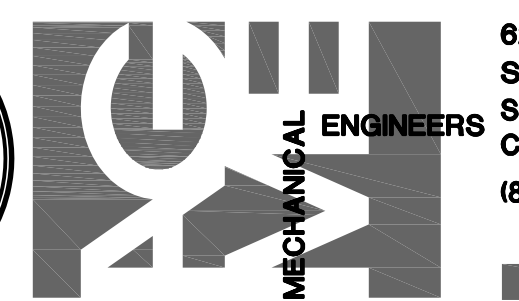
SHEET NAME:

MECHANICAL FLOOR PLAN

SHEET NO.:

HV2.0

FILE NAME: 19008HV2\_0



629 State St.  
Suite 210  
Santa Barbara  
CA 93101  
(805) 968-0844

AGME 19-08

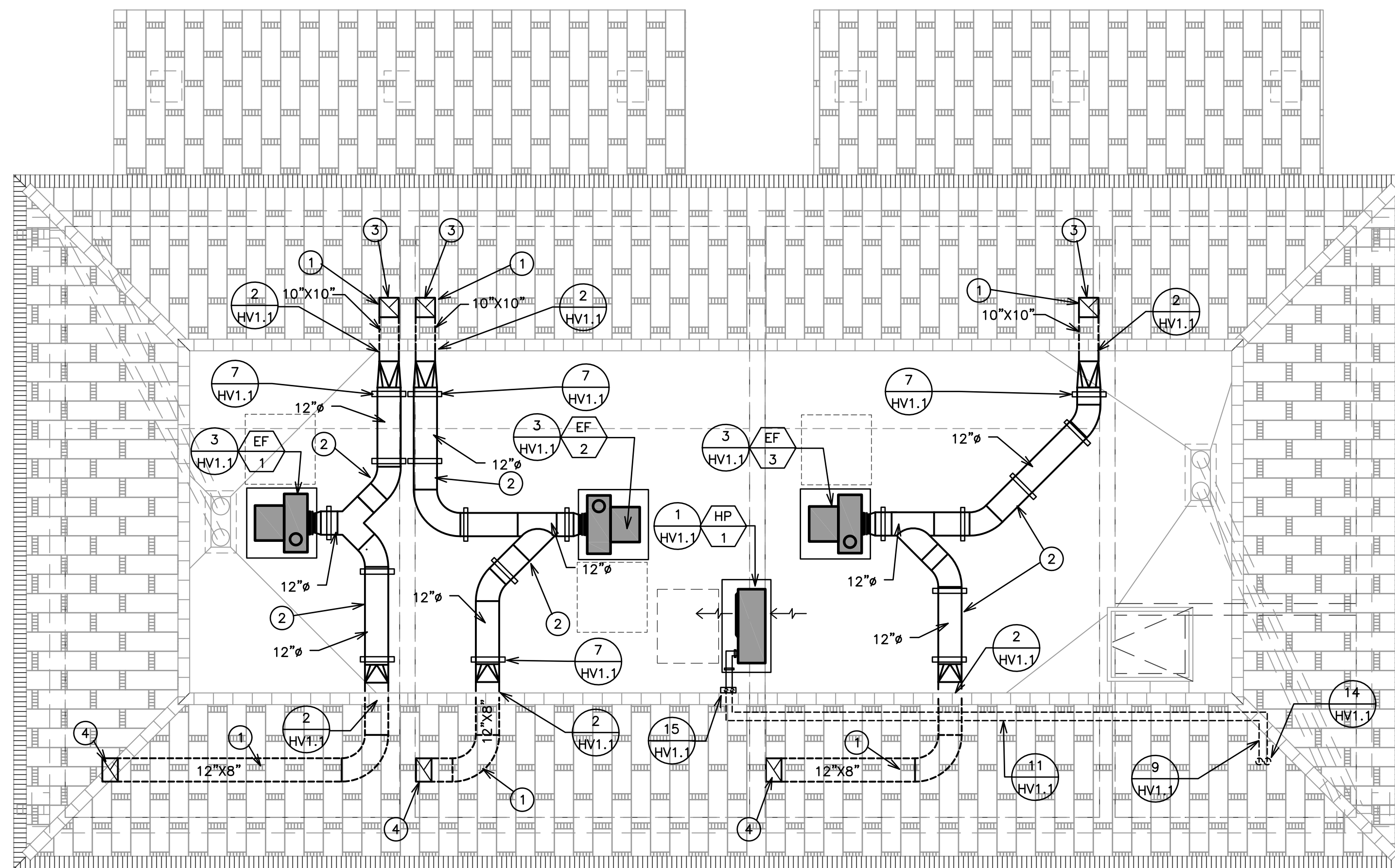
REFERENCE NOTES #

1. ROUTE DUCT IN MANSARD ATTIC.
2. EXHAUST DUCT SHALL BE CONSTRUCTED OF 316 STAINLESS STEEL.
3. 10"x10" S.S. EXHAUST DUCT DOWN THROUGH ROOF STRUCTURE.
4. 12"x8" S.S. EXHAUST DUCT DOWN THROUGH ROOF STRUCTURE.



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 MONTEREY, CALIFORNIA 93940  
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MECHANICAL ROOF PLAN 1/4"=1'-0" ⊕

MPWMD SANTA MARGARITA ASR FACILITY  
 CHLORINATION BUILDING

1910 GENERAL JIM MOORE BLVD.  
 SEASIDE, CA

JOB NO.: 18014.2  
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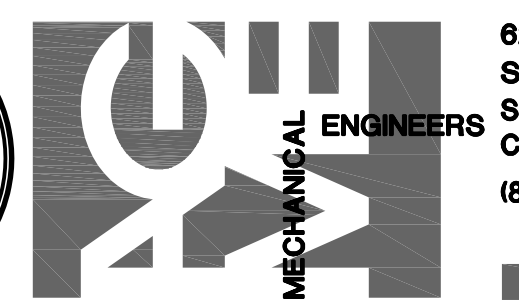
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SHEET NAME:

MECHANICAL ROOF PLAN

SHEET NO.:

HV2.1



629 State St.  
 Suite 210  
 Santa Barbara  
 CA 93101  
 (805) 968-0844

AGME 19-08 FILE NAME: 19008HV2\_1

ELECTRICAL PHYSICAL LAYOUT SYMBOLS		ELECTRICAL SINGLE LINE AND SCHEMATIC SYMBOLS		NOTES																										
CONDUIT RUN C-121 IDENTIFIES CONDUIT NO. HOT WIRES CIRCUIT HOME RUN, TO PANEL "LP1" HATCH MARKS INDICATE NUMBER OF WIRES "LP1" INDICATES PANEL "LP1" 5,6 ARE CIRCUIT NUMBERS CABLE TRAY (TR1A) IDENTIFIES TRAY NO. "1A" MAIN SERVICE CONDUIT UNDERGROUND (CAN REPRESENT ONE OR MORE CONDUITS) EXPOSED CONDUIT CONDUIT OR CABLE CONCEALED OR UNDERGROUND CONDUIT TURNING AWAY FROM VIEWER CONDUIT TURNING TOWARD VIEWER CONDUIT TEEING TOWARD AND AWAY FROM VIEWER CONDUIT TEEING TOWARD VIEWER CONDUIT TEEING AWAY FROM VIEWER FLEXIBLE CONDUIT "L" FITTING CONDUIT TEEING UNION CLASS 1 SEAL (HAZARDOUS LOCATIONS) DRAIN SEAL X LIGHTING FIXTURE: LETTER INDICATES TYPE NUMBERS INDICATE NUMBER OF LAMPS AND WATTAGE (SEE LIGHTING FIXTURE SCHEDULE)	BILL OF MATERIAL 20-INDICATES ITEM NO. PULL BOX (PB) OR TERMINAL BOX (JB) JUNCTION BOX (WITHOUT TERMINALS) OUTLET BOX LIGHTING FIXTURE ANGLE FIXTURE WALL MOUNT FIXTURE CEILING MOUNTED LIGHT FIXTURE FLOODLIGHT SINGLE POLE SWITCH SUBSCRIPTS: a,b,c SWITCH DESIGNATION TWO POLE SWITCH THREE-WAY SWITCH DISCONNECT SWITCH COMBINATION CONTROLLER DISCONNECT SWITCH FLOAT SWITCH - MECHANICAL SINGLE RECEPTACLE DUPLEX RECEPTACLE: SUBSCRIPT INDICATES WEATHERPROOF & C20 CIRCUIT NUMBER IN PANEL "C" GFI = GROUND FAULT INTERRUPTED WELDING OUTLET SPECIAL PURPOSE OUTLET TELEPHONE OUTLET SPEAKER OR INTERCOM OUTLET FLOOR SPECIAL PURPOSE OUTLET BELL, OR CHIME BUZZER COMBINATION BUZZER & BELL H-S-HORN S-S-SIREN PUSH BUTTON SINGLE PUSHBUTTON STATION PENDANT THERMOSTAT FAN CONTROL UNIT HEATER CONTACT DEVICES, I.E., LIMIT SWITCH, SOLENOID VALVES, ETC.	INTERNAL EQUIPMENT WIRING FIELD WIRING JUNCTION POINT FIELD DEVICE TERMINAL TERMINAL LUG FOR CABLE CONNECTION VFD DEVICE TERMINAL SPLICE GROUND FUSE (E.G. CERAMIC, GLASS) FUSED DISCONNECT SWITCHED FUSE FUSE: "CLF" INDICATES CURRENT LIMITING FUSE COIL R-RELAY; CR-CONTROL RELAY 100-RELAY NO. RELAY COIL WITH DIODE SUPPRESSOR OPEN CONTACT ON RELAY, CONTACTOR OR CONTROL DEVICE N.O. CLOSED CONTACT ON RELAY, CONTACTOR OR CONTROL DEVICE N.C. N.O., ON DELAY RELAY CONTACT TIMED CLOSED WHEN ENERGIZED N.C., ON DELAY RELAY CONTACT TIMED OPEN WHEN ENERGIZED N.O., OFF DELAY RELAY CONTACT INSTANTANEOUS CLOSE WHEN ENERGIZED. TIME DELAY OPEN WHEN DE-ENERGIZED N.C., OFF DELAY RELAY CONTACT INSTANTANEOUS CLOSE WHEN ENERGIZED. TIME DELAY OPEN WHEN DE-ENERGIZED PILOT LIGHT R-RED; G-GREEN; Y-YELLOW; A-AMBER; W-WHITE; B-BLUE PUSH TO TEST INDICATING LIGHT LIGHT WITH TERMINAL POINTS FUSED INDICATING LIGHT BELL, BUZZER OR CHIME HORN TELEPHONE HEATER THREE PRONG PLUG TWO PRONG PLUG DUPLEX D.C. BATTERY BATTERY CHARGER MASTER TEST MODULE SOLENOID VALVE MOMENTARY CLOSING PUSHBUTTON SWITCH, SPRING OPEN - N.O. MOMENTARY OPENING PUSHBUTTON SWITCH, SPRING CLOSE - N.C. PUSHBUTTON, MOMENTARY, 2-POLE (1-N.C., 1-N.O.) PUSHBUTTON, MAINTAINED MOMENTARY OPENING PUSHBUTTON WITH LOCK OPENING ATTACHMENT - N.C. EMERGENCY START BUTTON - N.O. EMERGENCY STOP BUTTON - N.C. SELECTOR SWITCH - N.O. SELECTOR SWITCH - N.C. MULTI-POSITION SELECTOR SWITCH X-INDICATES CONTACT CLOSURE IN POSITION INDICATED BY DASHED LINE 3-POSITION SELECTOR SWITCH TIME CLOCK SWITCH CLOSED TIME CLOCK SWITCH OPEN TOGGLE, KNIFE OR SAFETY DISCONNECT SWITCH NON-FUSIBLE DISCONNECT SWITCH, NUMBER INDICATES NUMBER OF POLES FUSIBLE DISCONNECT SWITCH, NUMBER INDICATES FUSE RATING, TRANSFER OR 2-WAY SWITCH TORQUE SWITCH - N.C. TORQUE SWITCH - N.O. LIMIT SWITCH-DIRECT ACTUATED, S.P.D.T. SWITCH LIMIT SWITCH - N.C. LIMIT SWITCH - N.O. FLOW SWITCH, N.O., CLOSES ON INCREASING FLOW RATE FLOW SWITCH, N.C., OPENS ON INCREASING FLOW RATE LIQUID LEVEL SWITCH, NORMALLY OPEN, CLOSES ON RISING LEVEL LIQUID LEVEL SWITCH, NORMALLY CLOSED, OPENS ON RISING LEVEL PRESSURE SWITCH, N.O., CLOSES ON INCREASING PRESSURE PRESSURE SWITCH, N.C., OPENS ON INCREASING PRESSURE PRESSURE ACTIVATED S.P.D.T. SWITCH TEMPERATURE SWITCH, N.O., CLOSES ON RISING TEMPERATURE TEMPERATURE SWITCH, N.C., OPENS ON RISING TEMPERATURE TEMPERATURE ACTIVATED S.P.D.T. SWITCH CIRCUIT BREAKER: NUMBERS INDICATE AMPERE RATING AND NUMBER OF POLES THERMAL OVERLOAD ALTERNATING CURRENT CAPACITOR OR CAPTIVE DEVICE ADJUSTABLE OR VARIABLE CAPACITOR CAPACITOR WITH FACTORY INSTALLED TERMINALS SURGE CAPACITOR GENERATOR INDUCTION MOTOR, 500=HP SYNCHRONOUS MOTOR, 500=HP POTENTIAL TRANSFORMER CURRENT TRANSFORMER: 3 INDICATES QUANTITY AND 600/5 INDICATES RATIO POTENTIAL TRANSFORMER INDUCTOR WINDING, COIL VARIABLE SPEED DRIVE dv/dt FILTER	<p><b>GENERAL REQUIREMENTS</b></p> <ol style="list-style-type: none"> <li>CONTRACTOR SHALL PROVIDE ALL POWER, LIGHTING, AND INSTRUMENT WORK AND MATERIALS AS SHOWN ON THE DRAWINGS AND AS CALLED FOR IN THE SPECIFICATIONS, AND AS IS NECESSARY TO FURNISH A COMPLETE AND WORKING FACILITY.</li> <li>THE INSTALLATION, ALL EQUIPMENT, AND ALL SYSTEMS SHALL COMPLY AND CONFORM WITH ALL THE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE, STATE OF CALIFORNIA CODES AND ALL LOCAL CODES ADOPTED BY THE AUTHORITY HAVING JURISDICTION, EVEN IF ALL DETAILS OF SUCH REQUIREMENTS ARE NOT SHOWN ON THE DRAWINGS.</li> <li>ALL ELECTRICAL AND INSTRUMENT EQUIPMENT AND WIRING SHALL BE UL LISTED AND LABELED FOR THE SERVICE INTENDED OR SHALL BE APPROVED BY A NATIONALLY RECOGNIZED TESTING LABORATORY APPROVED BY THE DISTRICT.</li> <li>ELECTRICAL TESTING PER THE SPECIFICATIONS IS REQUIRED. CONTRACTORS TEST PLAN SHALL BE SUBMITTED FOR APPROVAL.</li> </ol> <p><b>SPECIFIC REQUIREMENTS</b></p> <ol style="list-style-type: none"> <li>ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC, UL LISTED UNLESS NOTED OTHERWISE, EXCEPT THE FIRST AND LAST ELBOWS AT THE STUB-UPS SHALL BE PVC-COATED RIGID GALVANIZED STEEL (PVC-RGS).</li> <li>ABOVEGROUND CONDUITS SHALL BE RGS, UL LISTED UNLESS NOTED OTHERWISE.</li> <li>CONDUITS IN CHEMICAL ROOMS SHALL BE SCH. 40 PVC UNLESS NOTED OTHERWISE. SUPPORTS IN CHEMICAL ROOMS SHALL BE FIBERGLASS.</li> <li>CONDUIT ROUTING AND EQUIPMENT LOCATIONS ARE GENERALLY SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL COORDINATE ALL INSTALLATIONS WITH THE MECHANICAL AND CIVIL/STRUCTURAL CONTRACTORS TO DETERMINE EXACT ROUTING AND LOCATIONS AND TO AVOID INTERFERENCES.</li> <li>POWER CONDUITS (CP-X) SHALL BE SPACED A MINIMUM OF 12" FROM INSTRUMENT CONDUITS (CJ-X) EXCEPT AT STUB-UPS.</li> <li>CONTRACTOR SHALL IDENTIFY EACH CONDUIT USED BY INSTALLING A STAINLESS STEEL TAG STAMPED WITH THE CONDUIT NUMBER AT ALL STUB-OUTS, STUB-UPS AND IN PULLBOXES AND TERMINATION BOXES. AN AS-BUILT SKETCH AND PHOTOGRAPH SHALL BE PROVIDED OF THE EXISTING END OF THE DUCTBANK IDENTIFYING THE CONDUITS USED BY CONDUIT NUMBER. ANY CONDUITS NOT EXTENDED SHALL ALSO BE SHOWN IN THE SKETCH.</li> <li>FOR CONDUITS NOT CONNECTED TO EQUIPMENT, STUB-UP CONDUITS NEXT TO THE INSTRUMENT OR EQUIPMENT TO THE TOP OF THE PIPING OR EQUIPMENT. INSTALL PULL STRING AND CAP. CONDUIT SHALL NOT BE SUPPORTED ON PIPING, DUCTS, TANKS OR GRATING.</li> <li>SEE SHEET 9 FOR TYPICAL INSTRUMENT CONDUIT SUPPORTS AND CONNECTIONS. SUPPORT CONDUITS IN CHEM ROOMS FROM CEILING AND WALLS.</li> <li>SEE SHEETS E-11 &amp; E-12 FOR CONTROL ELEMENTARY SCHEMATICS.</li> </ol>																											
<p><b>GROUNDING SYMBOLS</b></p> THERMAL OR BRAZED CONNECTION, CABLE TO TAP THERMAL OR BRAZED CONNECTION, CABLE TO ROD COMPRESSION CONNECTION, CABLE TO TAP COMPRESSION CONNECTION, CABLE TO ROD GROUND ROD (3/4" x 8" LONG STD) EQUIPMENT GROUND GROUND TEST WELL GROUND CABLE, MAIN RUN, GRID OR TAPS																														
<p><b>ABBREVIATIONS</b></p> <table border="0"> <tr> <td>EGC EQUIPMENT GROUNDING CONDUCTOR</td> <td>PRV PRESSURE RELIEF VALVE</td> </tr> <tr> <td>GEC GROUNDING ELECTRODE CONDUCTOR</td> <td>PIT PUSH TO TEST</td> </tr> <tr> <td>CP CONTROL PANEL</td> <td>SPDT SINGLE POLE, DOUBLE THROW</td> </tr> <tr> <td>DP DISTRIBUTION PANEL</td> <td></td> </tr> <tr> <td>IP INSTRUMENT PANEL (POWER)</td> <td></td> </tr> <tr> <td>LC LIGHTING CONTROLLER</td> <td></td> </tr> <tr> <td>LCP LOCAL CONTROL PANEL</td> <td></td> </tr> <tr> <td>MOV MOTOR OPERATED VALVE</td> <td></td> </tr> <tr> <td>NIC NOT IN CONTRACT</td> <td></td> </tr> <tr> <td>N.O. NORMALLY OPEN, ENERGIZE TO CLOSE</td> <td></td> </tr> <tr> <td>N.C. NORMALLY CLOSE, ENERGIZE TO OPEN</td> <td></td> </tr> <tr> <td>OFCI OWNER FURNISHED, CONTRACTOR INSTALLED</td> <td></td> </tr> <tr> <td>OPE OWNER PROVIDED EQUIPMENT</td> <td></td> </tr> </table>		EGC EQUIPMENT GROUNDING CONDUCTOR	PRV PRESSURE RELIEF VALVE	GEC GROUNDING ELECTRODE CONDUCTOR	PIT PUSH TO TEST	CP CONTROL PANEL	SPDT SINGLE POLE, DOUBLE THROW	DP DISTRIBUTION PANEL		IP INSTRUMENT PANEL (POWER)		LC LIGHTING CONTROLLER		LCP LOCAL CONTROL PANEL		MOV MOTOR OPERATED VALVE		NIC NOT IN CONTRACT		N.O. NORMALLY OPEN, ENERGIZE TO CLOSE		N.C. NORMALLY CLOSE, ENERGIZE TO OPEN		OFCI OWNER FURNISHED, CONTRACTOR INSTALLED		OPE OWNER PROVIDED EQUIPMENT				
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MPWMD  
SANTA MARGARITA  
PUMP SITE BUILDING  
EXISTING MCC

PROJECT: MPWMD ASR FACILITY CHLORINATION BUILDING  
SITE LOAD: SWITCHBOARD  
VOLTAGE: 480.00  
PHASE: 3.00

MOTOR / LOAD TAG NO.	M OR F	PHASE	MOTOR (M) H.P. OR FEEDER(F) kW	F.L.A.	DESCRIPTION
<b>LOADS</b>					
EH-1	F	3	15.00	18.04	ELECTRIC HEATER
EH-2	F	3	15.00	18.04	ELECTRIC HEATER
EH-3	F	3	15.00	18.04	ELECTRIC HEATER
EF-1	M	3	1.00	2.10	EXHAUST FAN
EF-2	M	3	1.00	2.10	EXHAUST FAN
EF-3	M	3	1.00	2.10	EXHAUST FAN
SPARE	F	3	0.00		SPARE BREAKER
PMP-110A	M	3	2.00	3.40	SODIUM HYPO TRANSFER PUMP
PMP-110B	M	3	2.00		SODIUM HYPO TRANSFER PUMP (ALTERNATING)
PMP-310A	M	3	2.00	3.40	FUTURE TRANSFER PUMP
PMP-310B	M	3	2.00		FUTURE TRANSFER PUMP (ALTERNATING)
PMP-610A	M	3	2.00	3.40	FUTURE TRANSFER PUMP
PMP-610B	M	3	2.00		FUTURE TRANSFER PUMP (ALTERNATING)
AC-100	F	3	10.00	19.00	AIR COMPRESSOR
<b>LTG LOADS</b>					
TX-1	F	3	30.00	36.08	LTG LOADS, HEAT PMP SYS & CHEM METERING PMPs
TX-2	F	1	5.00	10.42	INSTRUMENT TRANSFORMER
<b>TOTAL CURRENT</b> 136.13					
<b>LARGEST MOTOR X .25</b> 4.75					
<b>FEEDER LCL X .25</b> 25.16					
<b>TOTAL CURRENT</b> 166.03					
<b>TOTAL KVA</b> 138.04					
<b>TOTAL KW (.90 P.F.)</b> 101.86					

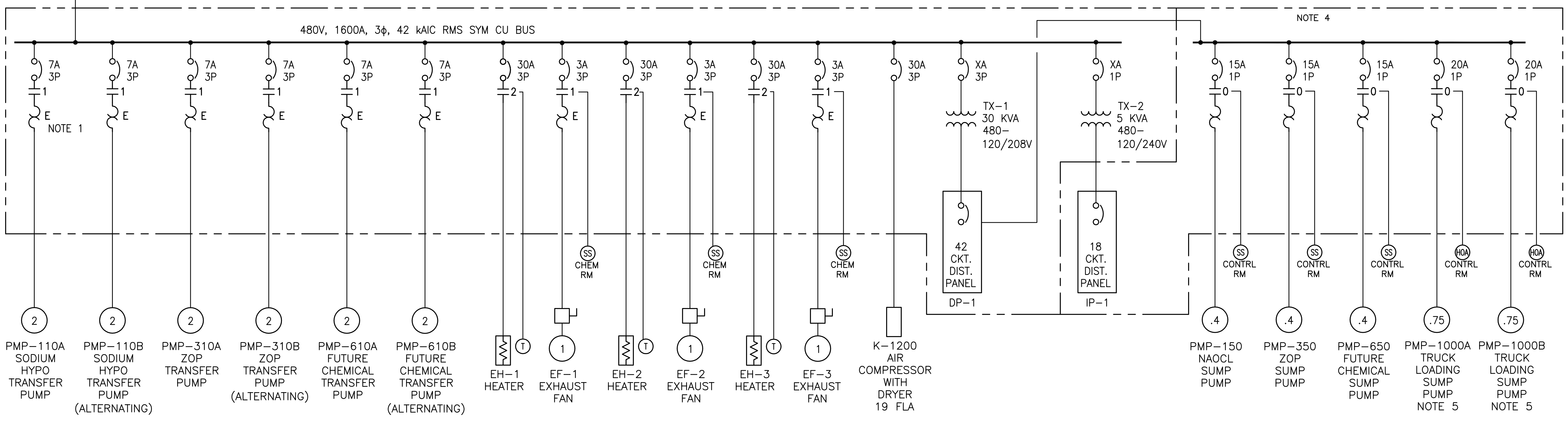
PANEL DP-1		VOLTAGE 208Y / 120		PHASE 3		MAIN BREAKER 100								
LOCATION MCC		MOUNTING FLUSH		WIRE 4		MAIN LUGS								
TYPE 225 AMP BUS		NUMBER OF SPACES 42		MANUFACTURER										
CIRCUIT NUMBER	VA LOAD			LOAD DESCRIPTION	CIRCUIT BREAKER POLES	RATING	CONT. LOAD	CIRCUIT BREAKER POLES	RATING	LOAD DESCRIPTION	VA LOAD			CIRCUIT NUMBER
	LINE A	LINE B	LINE C								LINE A	LINE B	LINE C	
1	500			CHEM PUMP PMP-216A & B	1	20	Y	3	60	SUMP PUMP STARTER PANEL	1176			2
3		500		CHEM PUMP PMP-220A & B	1	20	Y					1176		4
5			500	CHEM PUMP PMP-416A & B	1	20	Y						2832	6
7	500			CHEM PUMP PMP-420A & B	1	20	Y	1	30	GATE OPERATOR (NORTH)	1440			8
9		500		CHEM PUMP PMP-716A & B (F)	1	20	Y	N	1	15	SPARE			10
11			500	CHEM PUMP PMP-720A & B (F)	1	20	Y	N	1	15	SPARE			12
13	1440			GATE OPERATOR (SOUTH)	1	30	N	Y	1	20	XFR SWITCH SPACE HTR	150		14
15		150		PARKING AREA LIGHT	1	15	Y	Y			HVAC HEAT PUMP		2038	16
17			180	CHEM RM 101 LIGHTS	1	15	Y	Y	2	30			2038	18
19	180			STORAGE RM 104 LIGHTS	1	15	Y	Y	1	15	CHEM RM 103 LIGHTS	180		20
21		180		ELEC RM 105 LIGHTS	1	15	Y	Y	1	15	CHEM RM 102 LIGHTS		180	22
23			360	CHEM RM 101 RCPT	1	15	N	N	1	15	CHEM RM 102 RCPT			24
25	720			STOR & ELEC RM 104/105 RCPT	1	15	N	Y	1	15	OUTDOOR BLDG LIGHTS	231		26
27		200		16" PT HEATERS	1	15	Y	N	1	15	SPARE			28
29			200	20" PT HEATERS	1	15	Y	N	1	15	CHEM RM 103 RCPT			30
31	50			IRRIGATION CONT. (F)	1	15	Y	Y	1	15	OUTDOOR PARKING LIGHT	150		32
33		150		LCP-100 NAACL FILL STATION	1	20	Y	N	1	15	SPARE			34
35			150	LCP-300 ZOP FILL STATION	1	20	Y	N	2	30A	SPARE			36
37	150			LCP-600 CHEM FILL STATION	1	20	Y	Y	1	20	SPARE			38
39				SPARE	1	20	N	Y	1	20	SPARE			40
41				SPARE	1	20	N	Y	1	20	SPARE			42
LINE SUBTOTAL											3327	3394	5590	

1. BREAKER RATINGS DESIGNATED WITH "GF" SHALL BE GROUND FAULT INTERRUPTING BREAKERS WITH 30 mA GFI TRIP UNITS.  
(F) = FUTURE

PANEL IP-1		VOLTAGE 240/ 120		PHASE 1		MAIN BREAKER 100A								
LOCATION MCC		MOUNTING SURFACE		WIRE 3		MAIN LUGS TBD								
TYPE FLUSH MOUNT		NUMBER OF SPACES 18		MANUFACTURER (BOLT ON BREAKERS)										
CIRCUIT NUMBER	VA LOAD			LOAD DESCRIPTION	CIRCUIT BREAKER POLES	RATING	CONT. LOAD	CIRCUIT BREAKER POLES	RATING	LOAD DESCRIPTION	VA LOAD		CIRCUIT NUMBER	
	LINE A	LINE B	LINE C								LINE A	LINE B		
1	2800			PLC CONTROL PANEL	1	30	Y	Y	20	1	PLC CNTRL PANEL RELAYS	120		2
3		120		FQDIT-915	1	15	Y	Y	15	1	FQDIT-900		120	4
5	4			LT-101 NAACL STORAGE TK	1	20	Y	Y	20	1	LT-200 NAACL DAY TK		4	6
7		120		AIT-516	1	15	Y	Y	15	1	AIT-520			8
9	4			LT-301 ZOP STORAGE TK	1	15	Y	Y	15	1	LT-400 ZOP DAY TK		4	10
11		120		AIT-517	1	20	Y	Y	20	1	AIT-521			12
13	4			LT-601 FUTURE CHEM TK	1	15	N	Y	15	1	LT-700 FUTURE CHEM TK		4	14
15		120		FQDIT-925	1	15	Y	N	20	1	SPARE			16
17				SPARE	1	20	N	N	20	1	SPARE			18
SUBTOTAL														
ESTIMATED LOAD											2812	480		
ACTUAL LINE LOADS											6867	5074	7480	
LCL ADDER (25% OF CONT LOAD)											1591	975	892	
NEC LOAD FOR EQUIP. SIZING											8458	6049	8372	
NEC AMPS FOR EQUIP. SIZING											70.5	50.4	69.8	
TOTAL NEC 3 PHASE LOAD											22878			
TOTAL NEC LOAD											2944	840		
LCL ADDER (25% OF CONT LOAD)											735	210		
NEC LOAD FOR EQUIP. SIZING											3679	1050		
NEC AMPS FOR EQUIP. SIZING											30.7	8.6		

1. CONTRACTOR SHALL CONFIRM PANEL LOADS USING EQUIPMENT NAMEPLATE DATA AND ADJUST BREAKER SIZES AND BALANCE PANEL LOADS, IF REQUIRED.

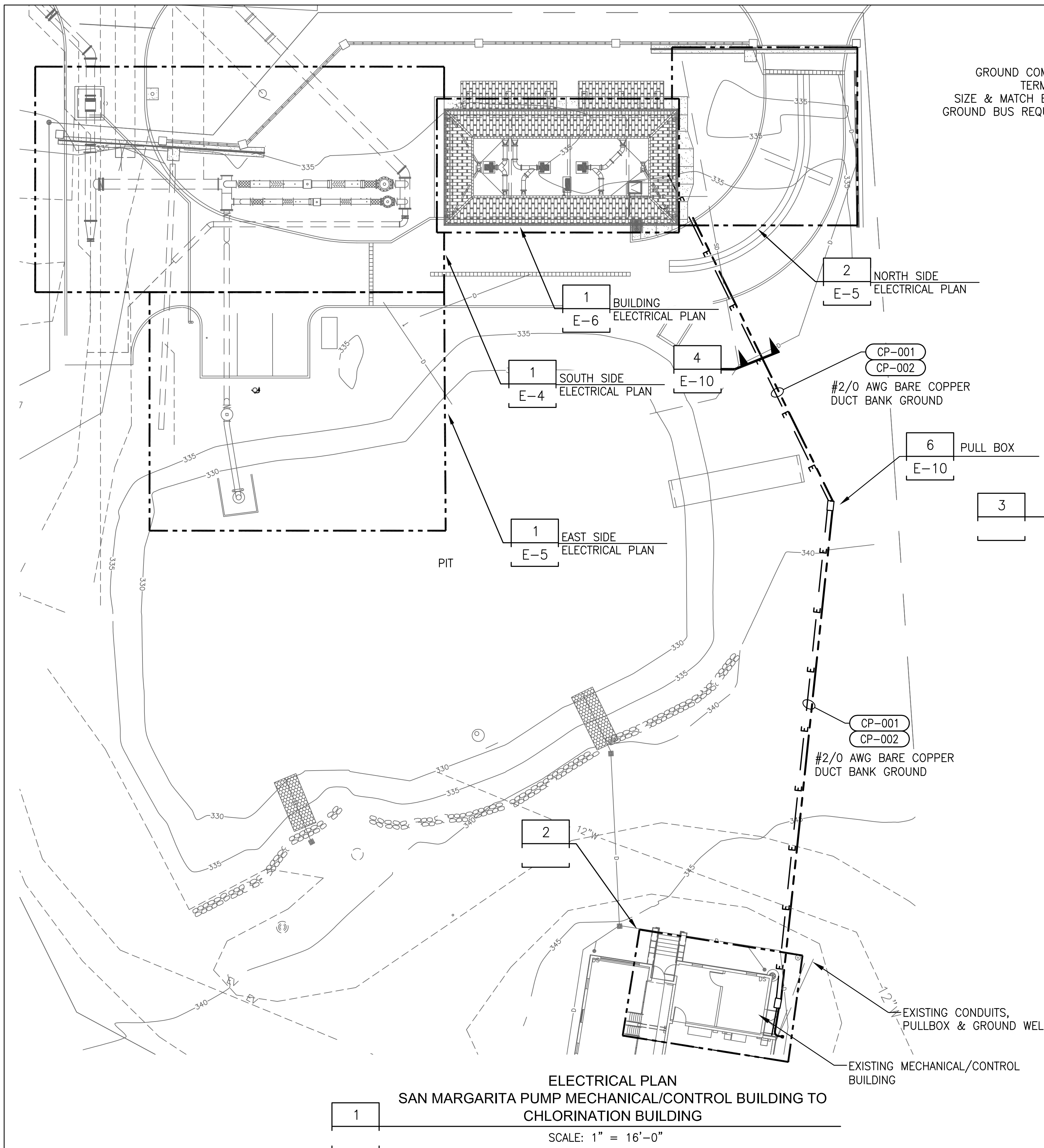
NOTES:  
1. 'E' ELECTRONIC OVERLOADS WITH PHASE LOSS, GROUND FAULT, CURRENT IMBALANCE, JAM, OVER/UNDER VOLTAGE, OVER/UNDER POWER, VOLTAGE, CURRENT, POWER, ENERGY, ETHERNET CAPABILITY AND DRY CONTACT FOR MOTOR FAILURE PLC INPUT, OPERATOR STATION ON UNIT CUBICLE.  
2. SEE DRAWINGS FOR MOTOR ELEMENTARY SCHEMATICS.  
3. NEW 200AT/250AF, 480V, 3 POLE, MOLDED CASE CIRCUIT BREAKER IN EXISTING MCC. SEE DRAWING E-3.  
4. THIS SECTION IS FED FROM TRANSFORMERS IN OTHER SECTIONS. MOTORS ARE SINGLE PHASE 120VAC. PROVIDE NAMEPLATE 208V/120V SECTION FED FROM TX-1 AND TX-2. NO 480V STARTERS OR BREAKERS TO BE INSTALLED IN THIS SECTION".  
5. PMP-1000A & 1000B SHALL ALTERNATE AND NOT RUN SIMULTANEOUSLY.



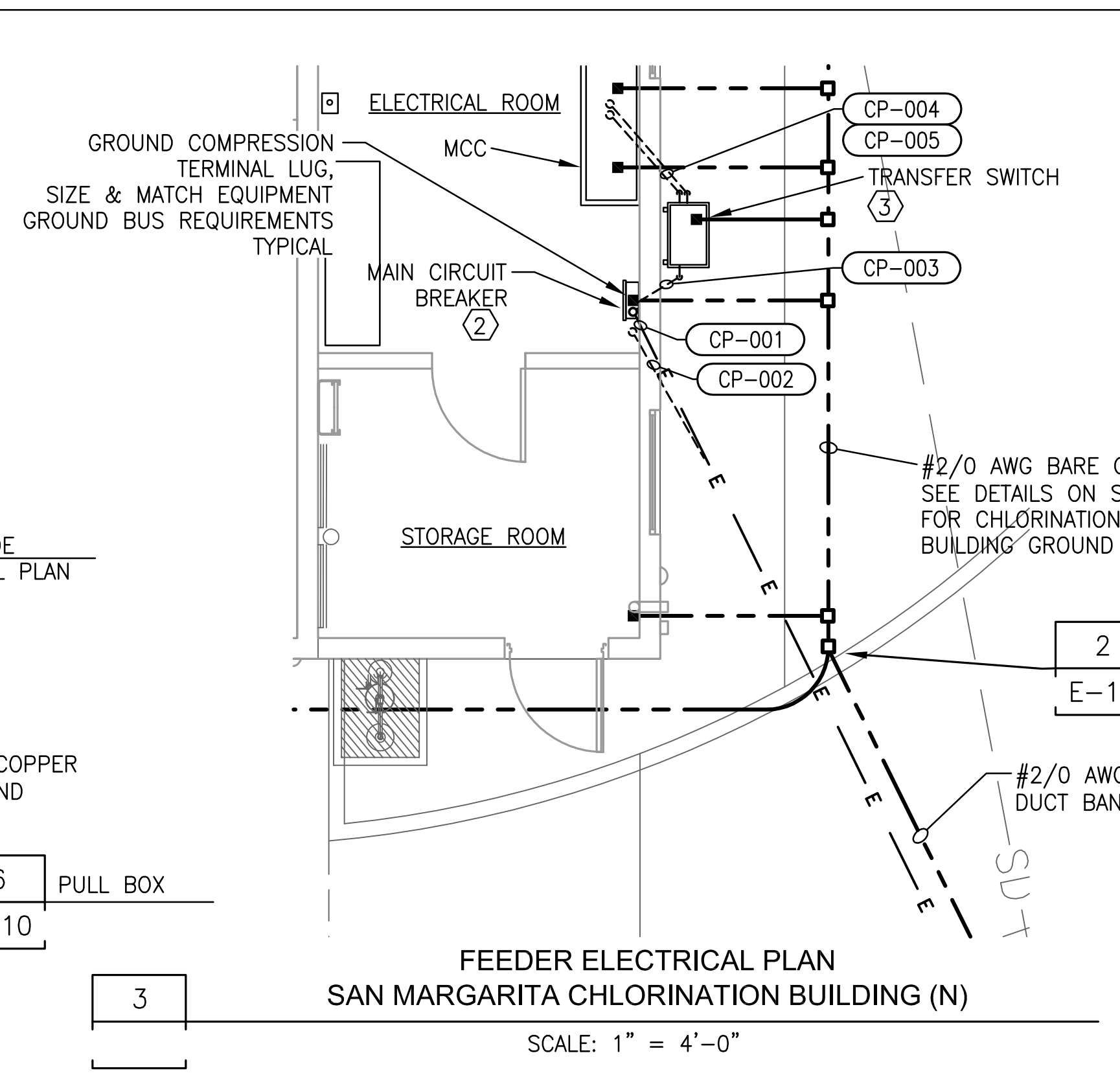
ONE-LINE DIAGRAM

<p>SCALE: HOR. 1"=1" VER. 1"=1"</p>	<p>WARNING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE</p>	<p>DESIGNED RLK DRAWN WS CHECKED RLK</p>	<p>UNAUTHORIZED CHANGES &amp; USES CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.</p>	<p>KIYOI ENGINEERING INC. 5266 Hollister Avenue #117 Santa Barbara, CA 93111 Phone: (805) 681-0980</p>	<p>PUEBLO water resources 4478 Market St., Suite 705 Ventura, CA 93003 (805) 644-0470</p>	<p>PROJECT NO. <b>E-2</b></p>
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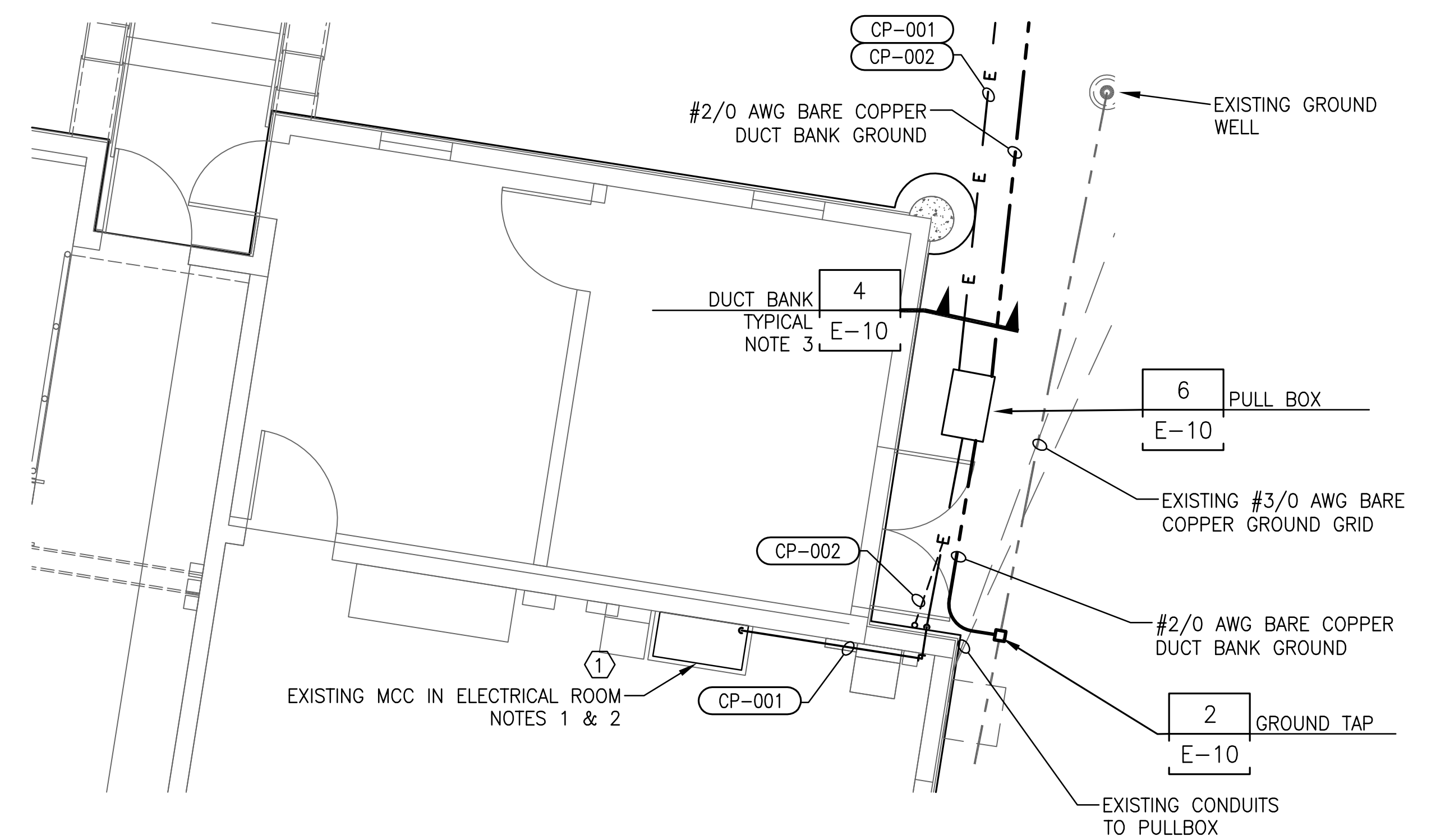
ONE LINE DIAGRAM  
SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT



**ELECTRICAL PLAN  
SAN MARGARITA PUMP MECHANICAL/CONTROL BUILDING TO  
CHLORINATION BUILDING**  
SCALE: 1" = 16'-0"



**FEEDER ELECTRICAL PLAN  
SAN MARGARITA CHLORINATION BUILDING (N)**  
SCALE: 1" = 4'-0"



**FEEDER ELECTRICAL PLAN  
SAN MARGARITA MECHANICAL/CONTROL BUILDING (E)**  
SCALE: 1" = 4'-0"

**MATERIAL LIST**

ITEM	QTY	DESCRIPTION
①	1	FEEDER CIRCUIT BREAKER, 200AT/250AF, 480V, 3 POLE, 60 HERTZ, 35 KAIC, LSGI ELECTRONIC TRIP MOLDED CASE CIRCUIT BREAKER. ALLEN-BRADLEY #140G-JT13-D25 OR APPROVED SUBSTITUTE
②	1	MAIN CIRCUIT BREAKER, 200AT/250AF, 480V, 3 POLE, 60 HERTZ, 35 KAIC, LSGI ELECTRONIC TRIP MOLDED CASE CIRCUIT BREAKER, SQUARE D #JGL36250CU44X OR APPROVED SUBSTITUTE
③	1	TRANSFER SWITCH, MANUAL TRANSFER SWITCH, 200A, 480V, 3 POLE, 60 HERTZ, 14 KAIC MINIMUM, SILVER PLATED COPPER BUS, MALE CAMLOCK PANEL MOUNT RECEPTACLES FOR GENERATOR CONNECTION, LSGI ELECTRONIC TRIP MOLDED CASE CIRCUIT BREAKER IN GENERATOR CONNECTION, WALL MOUNT NEMA 3R ENCLOSURE, LOCKABLE, WITH STRIP HEATER AND THERMOSTAT TRYSTAR #GDR-****-**** OR APPROVED SUBSTITUTE TRYSTAR TO DETERMINE FINAL CAT.NO.

PROVIDE NAMEPLATE, BLACK 1/2" LETTERS ON WHITE, "MCB-01 - BUILDING SERVICE DISCONNECT - FED FROM MECHANICAL EQUIPMENT CONTROL BUILDING MCC".

PROVIDE NAMEPLATE, BLACK 1/2" LETTERS ON WHITE, "MTS-01 - BUILDING SERVICE MANUAL TRANSFER SWITCH & GENERATOR CONNECTION BOX - FED FROM MCB-01 INSIDE".

- NOTES:**
- INSTALL IN EXISTING MCC. UNIT TO HAVE LOCKABLE OPERATING HANDLE, DOOR AND ALL PARTS NECESSARY FOR A COMPLETE INSTALLATION. PROVIDE NAMEPLATE, BLACK 1/2" LETTERS ON WHITE, "FCB-01 - CHEMICAL BUILDING FEEDER".
  - CONTRACTOR TO CONFIRM EXISTING MCC INFORMATION AND AVAILABLE CUBICLE - ALLEN BRADLEY MCC: ORDER # WLKWD55/01; SERIAL #2100WLKWD55/01, MARCH 7 2011
  - CONTRACTOR SHALL REPLACE SURFACES TO MATCH EXISTING.

REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

SCALE:	HOR. 1"=1"	VER. 1"=1"
DESIGNED	RLK	WS
DRAWN	WS	RLK
CHECKED	RLK	

**UNAUTHORIZED CHANGES & USES CAUTION:**  
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**KIYOI ENGINEERING INC.**  
5266 Hollister Avenue #117  
Santa Barbara, CA 93111  
Phone: (805) 681-0980

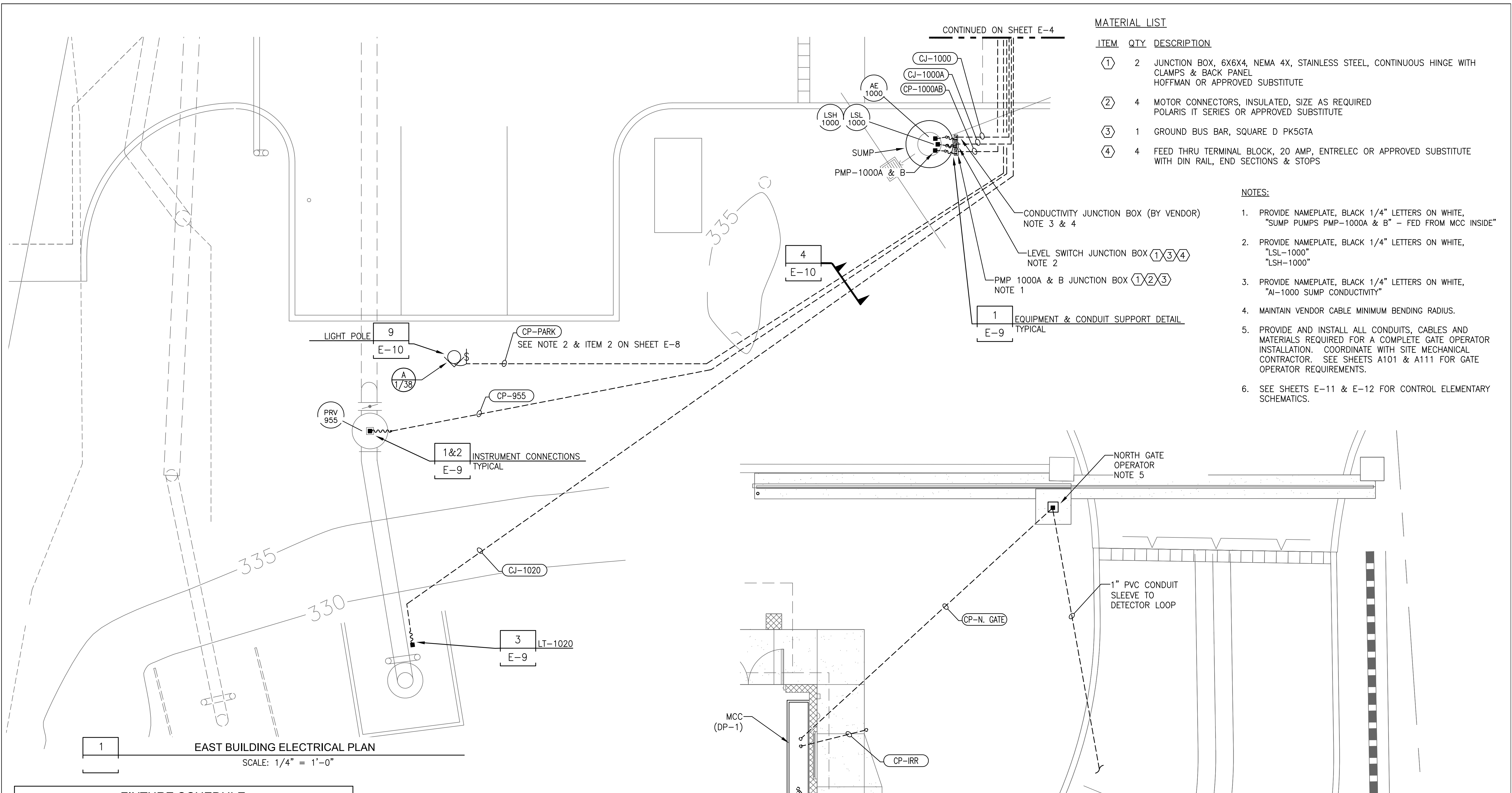
KEI PROJECT - 22020

**PUEBLO water resources**  
Pueblo Water Resources  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**MAIN FEEDER ELECTRICAL PLAN**  
SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**E-3**





**MATERIAL LIST**

ITEM	QTY	DESCRIPTION
①	2	JUNCTION BOX, 6X6X4, NEMA 4X, STAINLESS STEEL, CONTINUOUS HINGE WITH CLAMPS & BACK PANEL HOFFMAN OR APPROVED SUBSTITUTE
②	4	MOTOR CONNECTORS, INSULATED, SIZE AS REQUIRED POLARIS IT SERIES OR APPROVED SUBSTITUTE
③	1	GROUND BUS BAR, SQUARE D PK5GTA
④	4	FEED THRU TERMINAL BLOCK, 20 AMP, ENTRELEC OR APPROVED SUBSTITUTE WITH DIN RAIL, END SECTIONS & STOPS

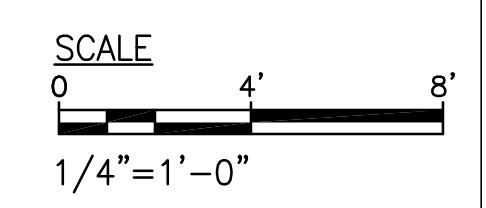
**NOTES:**

1. PROVIDE NAMEPLATE, BLACK 1/4" LETTERS ON WHITE, "SUMP PUMPS PMP-1000A & B" - FED FROM MCC INSIDE"
2. PROVIDE NAMEPLATE, BLACK 1/4" LETTERS ON WHITE, "LSL-1000" "LSH-1000"
3. PROVIDE NAMEPLATE, BLACK 1/4" LETTERS ON WHITE, "AI-1000 SUMP CONDUCTIVITY"
4. MAINTAIN VENDOR CABLE MINIMUM BENDING RADIUS.
5. PROVIDE AND INSTALL ALL CONDUITS, CABLES AND MATERIALS REQUIRED FOR A COMPLETE GATE OPERATOR INSTALLATION. COORDINATE WITH SITE MECHANICAL CONTRACTOR. SEE SHEETS A101 & A111 FOR GATE OPERATOR REQUIREMENTS.
6. SEE SHEETS E-11 & E-12 FOR CONTROL ELEMENTARY SCHEMATICS.

**1 EAST BUILDING ELECTRICAL PLAN**  
SCALE: 1/4" = 1'-0"

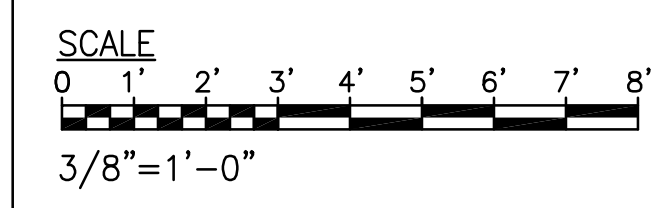
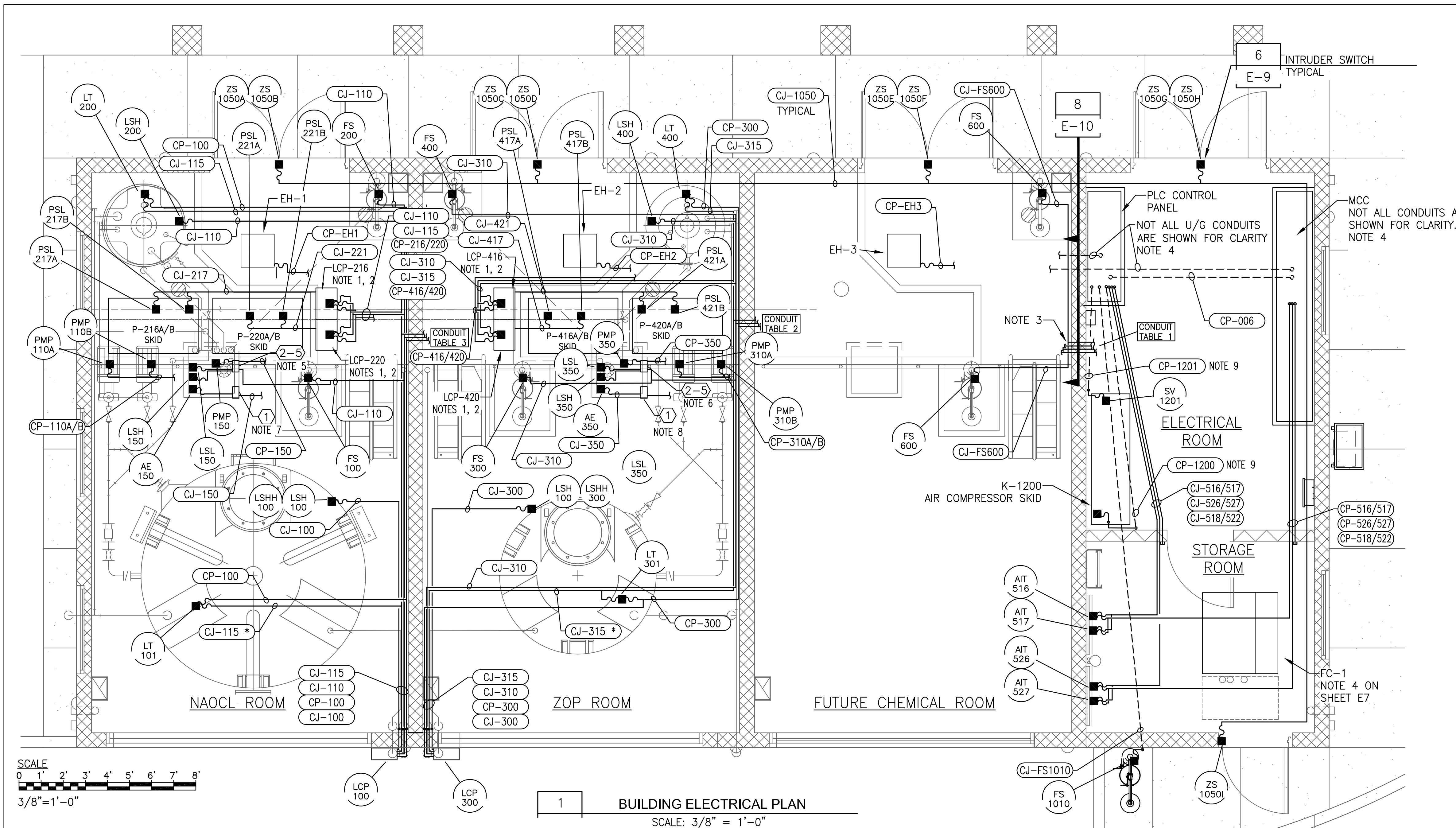
**2 NORTH BUILDING ELECTRICAL PLAN**  
SCALE: 1/4" = 1'-0"

FIXTURE SCHEDULE		
FIXTURE TAG	DESCRIPTION	QTY.
A 1/38	LED AREA SIZE 0 LUMINAIRE, 3000K COLOR TEMPERATURE, 120VAC, 20 LEDS, 38 WATTS, 10' SQUARE POLE WITH MOUNTING BASE AND BIRD SPIKES LITHONIA #DSXO LED P1 30K T3M MVOLT SPA PER DDBXD LITHONIA #BS LITHONIA #SSS 10-4C-DM19AS-UL-XXXX-DDBXD	1



<table border="1"> <tr> <td>DESIGNED</td> <td>RLK</td> </tr> <tr> <td>DRAWN</td> <td>WS</td> </tr> <tr> <td>CHECKED</td> <td>RLK</td> </tr> </table>	DESIGNED	RLK	DRAWN	WS	CHECKED	RLK	<p>UNAUTHORIZED CHANGES &amp; USES CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.</p>	<p><b>KIYOI ENGINEERING INC.</b> 5266 Hollister Avenue #117 Santa Barbara, CA 93111 Phone: (805) 681-0980</p>	<p><b>PUEBLO water resources</b> Pueblo Water Resources 4478 Market St., Suite 705 Ventura, CA 93003 (805) 644-0470</p>	<p><b>NORTH &amp; EAST SIDE ELECTRICAL PLAN</b> SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING MONTEREY PENINSULA WATER MANAGEMENT DISTRICT</p>	<p>PROJECT NO. <b>E-5</b></p>
DESIGNED	RLK										
DRAWN	WS										
CHECKED	RLK										

SCALE:	HOR. 1"=1"	VER. 1"=1"
WARNING:	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	
REV	DATE	BY
0	8/5/19	SPT
		BY
		DESCRIPTION
		ISSUE FOR BID



**1 BUILDING ELECTRICAL PLAN**  
SCALE: 3/8" = 1'-0"

**MATERIAL LIST**

ITEM	TOTAL QTY	DESCRIPTION
①	2	VENDOR JUNCTION BOX. MOUNT BOTTOM OF J.B. ABOVE 26" A.F.F. (AE-150 / AE-350 JB)
②	2	JUNCTION BOX, 6X6X4, NEMA 4X, STAINLESS STEEL, CONTINUOUS HINGE WITH CLAMPS & BACK PANEL. MOUNT BOTTOM OF J.B. ABOVE 26" A.F.F. HOFFMAN OR APPROVED SUBSTITUTE (PMP-150 & PMP-350)
③	4	MOTOR CONNECTORS, INSULATED, SIZE AS REQUIRED POLARIS IT SERIES OR APPROVED SUBSTITUTE
④	2	GROUND BUS BAR, SQUARE D PK5GTA
⑤	8	FEED THRU TERMINAL BLOCK, 20 AMP, ENTRELEC OR APPROVED SUBSTITUTE WITH DIN RAIL, END SECTIONS & STOPS

**NOTES:**

- CONTRACTOR SHALL PROVIDE CABLES AND CONNECTORS FROM LCP TO CHEMICAL PUMPS AS REQUIRED BY VENDOR DRAWINGS.
- CONTRACTOR SHALL PROVIDE TERMINAL BLOCKS IN LCP-216, 220, 416 & 420 FOR PSL CONTROLS
- STUB FUTURE CONDUITS 12" FROM WALL, PULL STRING & CAP.
- REFERENCE SHEETS E-3, E-4, E-5, E-7, E-8 AND CABLE & CONDUIT SCHEDULE FOR CONDUITS TO/FROM MCC
- PROVIDE NAMEPLATE, BLACK 1/4" LETTERS ON WHITE, "SUMP PUMP PMP-150 - FED FROM MCC"
- PROVIDE NAMEPLATE, BLACK 1/4" LETTERS ON WHITE, "SUMP PUMP PMP-350 - FED FROM MCC"
- PROVIDE NAMEPLATE, BLACK 1/4" LETTERS ON WHITE, "AI-150 SUMP CONDUCTIVITY"
- PROVIDE NAMEPLATE, BLACK 1/4" LETTERS ON WHITE, "AI-350 SUMP CONDUCTIVITY"
- LOCATE CONDUIT STUB-UPS FOR COMPRESSOR PER FINAL MANUFACTURERS SPECIFICATIONS.
- SEE SHEETS E-11 & E-12 FOR CONTROL ELEMENTARY SCHEMATICS.

**TABLE 1**

CONDUIT #	TO	FROM
CJ-FS600	PLC CONTROL PNL	FUTURE CHEM ROOM
CJ-610	PLC CONTROL PNL	FUTURE CHEM ROOM
CJ-611	PLC CONTROL PNL	FUTURE CHEM ROOM
CJ-615	PLC CONTROL PNL	FUTURE CHEM ROOM
CJ-650	PLC CONTROL PNL AIT-350/650	FUTURE CHEM ROOM
CP-600	DP-1 / IP-1	FUTURE CHEM ROOM
CP-601	MCC	FUTURE CHEM ROOM
CP-610A/B	MCC	FUTURE CHEM ROOM
CP-650	MCC	FUTURE CHEM ROOM
CP-716/720	MCC DP-1	FUTURE CHEM ROOM
CJ-310	PLC CONTROL PNL	ZOP ROOM
CJ-311	PLC CONTROL PNL	ZOP ROOM
CJ-315	PLC CONTROL PNL	ZOP ROOM
CJ-350	PLC CONTROL PNL AIT-350/350	ZOP ROOM
CP-300	DP-1 / IP-1	ZOP ROOM
CP-301	MCC	ZOP ROOM
CP-310A/B	MCC	ZOP ROOM
CP-350	MCC	ZOP ROOM
CP-416/420	MCC DP-1	ZOP ROOM
CJ-110	PLC CONTROL PNL	NAOCL ROOM
CJ-111	PLC CONTROL PNL	NAOCL ROOM
CJ-115	PLC CONTROL PNL	NAOCL ROOM
CJ-150	PLC CONTROL PNL AIT-1000/150	NAOCL ROOM
CP-100	DP-1 / IP-1	NAOCL ROOM
CP-101	MCC	NAOCL ROOM
CP-110A/B	MCC	NAOCL ROOM
CP-150	MCC	NAOCL ROOM
CP-216/220	MCC DP-1	NAOCL ROOM
CJ-1050	PLC CONTROL PNL	DOOR INTRUDER SWITCHES

**TABLE 2**

CONDUIT #	TO	FROM
CJ-310	PLC CONTROL PNL	ZOP ROOM
CJ-311	PLC CONTROL PNL	ZOP ROOM
CJ-315	PLC CONTROL PNL	ZOP ROOM
CJ-350	PLC CONTROL PNL AIT-350/650	ZOP ROOM
CP-300	DP-1 / IP-1	ZOP ROOM
CP-301	MCC	ZOP ROOM
CP-310A/B	MCC	ZOP ROOM
CP-350	MCC	ZOP ROOM
CP-416/420	MCC DP-1	ZOP ROOM
CJ-110	PLC CONTROL PNL	NAOCL ROOM
CJ-111	PLC CONTROL PNL	NAOCL ROOM
CJ-115	PLC CONTROL PNL	NAOCL ROOM
CJ-150	PLC CONTROL PNL AIT-1000/150	NAOCL ROOM
CP-100	DP-1 / IP-1	NAOCL ROOM
CP-101	MCC	NAOCL ROOM
CP-110A/B	MCC	NAOCL ROOM
CP-150	MCC	NAOCL ROOM
CP-216/220	MCC DP-1	NAOCL ROOM
CJ-1050	PLC CONTROL PNL	DOOR INTRUDER SWITCHES

**TABLE 3**

CONDUIT #	TO	FROM
CJ-110	PLC CONTROL PNL	NAOCL ROOM
CJ-111	PLC CONTROL PNL	NAOCL ROOM
CJ-115	PLC CONTROL PNL	NAOCL ROOM
CJ-150	PLC CONTROL PNL AIT-1000/150	NAOCL ROOM
CP-100	DP-1 / IP-1	NAOCL ROOM
CP-101	MCC	NAOCL ROOM
CP-110A/B	MCC	NAOCL ROOM
CP-150	MCC	NAOCL ROOM
CP-216/220	MCC DP-1	NAOCL ROOM
CJ-1050	PLC CONTROL PNL	DOOR INTRUDER SWITCHES

REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

SCALE: HOR. 1"=1' VER. 1"=1'	WARNING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	DESIGNED RLK DRAWN WS CHECKED RLK
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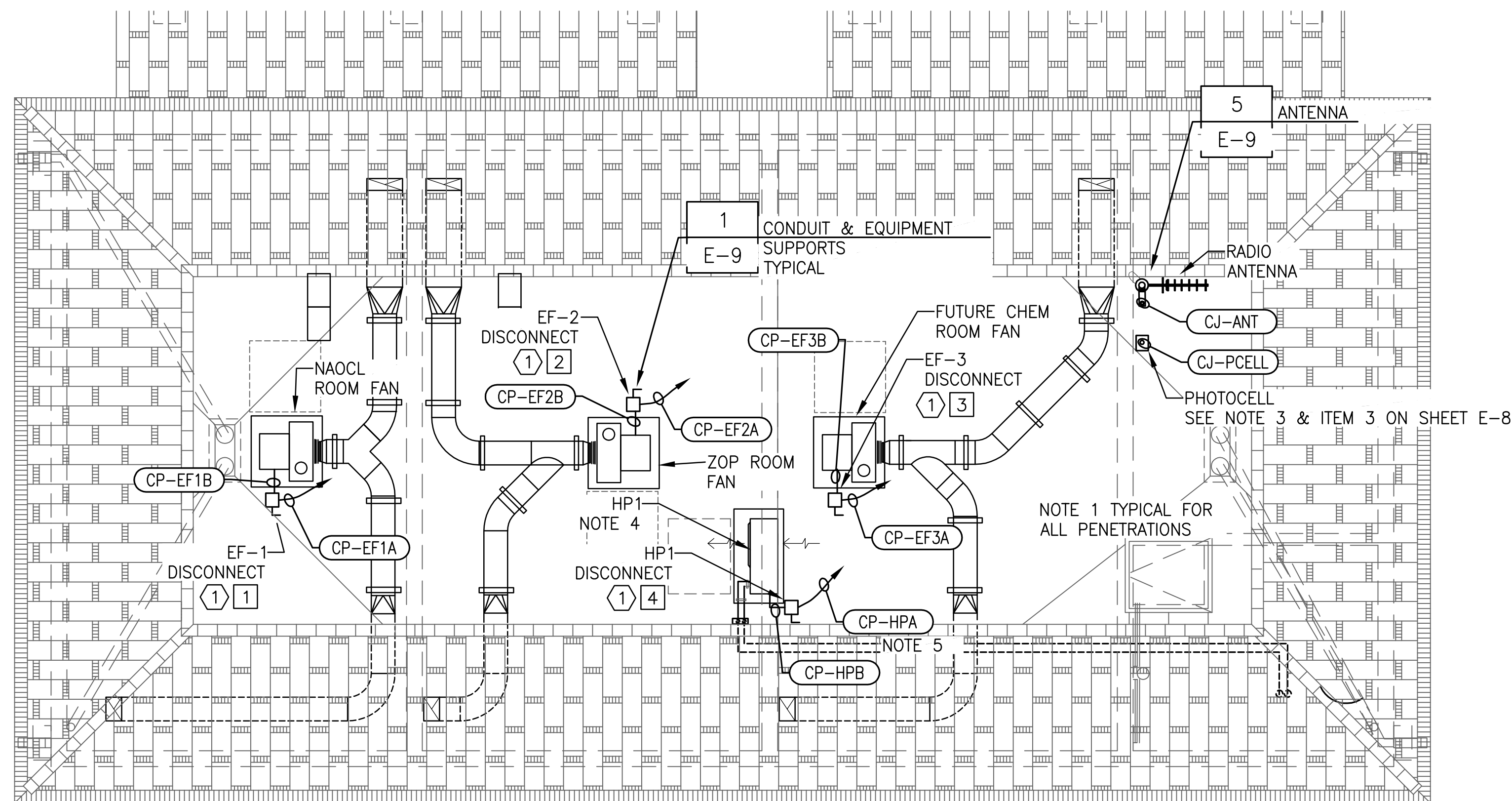
KEI PROJECT - 22020

**PUEBLO water resources** Pueblo Water Resources  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**BUILDING ELECTRICAL PLAN**  
SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**E-6**





**MATERIAL LIST**

ITEM	QTY	DESCRIPTION
①	4	DISCONNECT SWITCH, HEAVY DUTY, NON-FUSIBLE, 30A, 3 PH., 480 VAC, NEMA 3R, SQUARE D #HU361RB OR APPROVED SUBSTITUTE

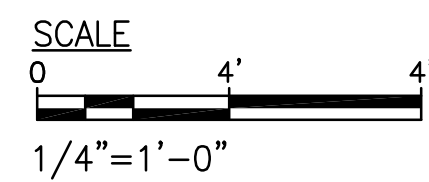
**NAME PLATE LIST:**

ITEM	QTY	DESCRIPTION	ITEM	QTY	DESCRIPTION
①	1	EF-1 ROOM 1 EXHAUST FAN	④	1	HP-1 HEAT PUMP
②	1	EF-2 ROOM 2 EXHAUST FAN			
③	1	EF-3 ROOM 3 EXHAUST FAN			

**GENERAL NOTES:**

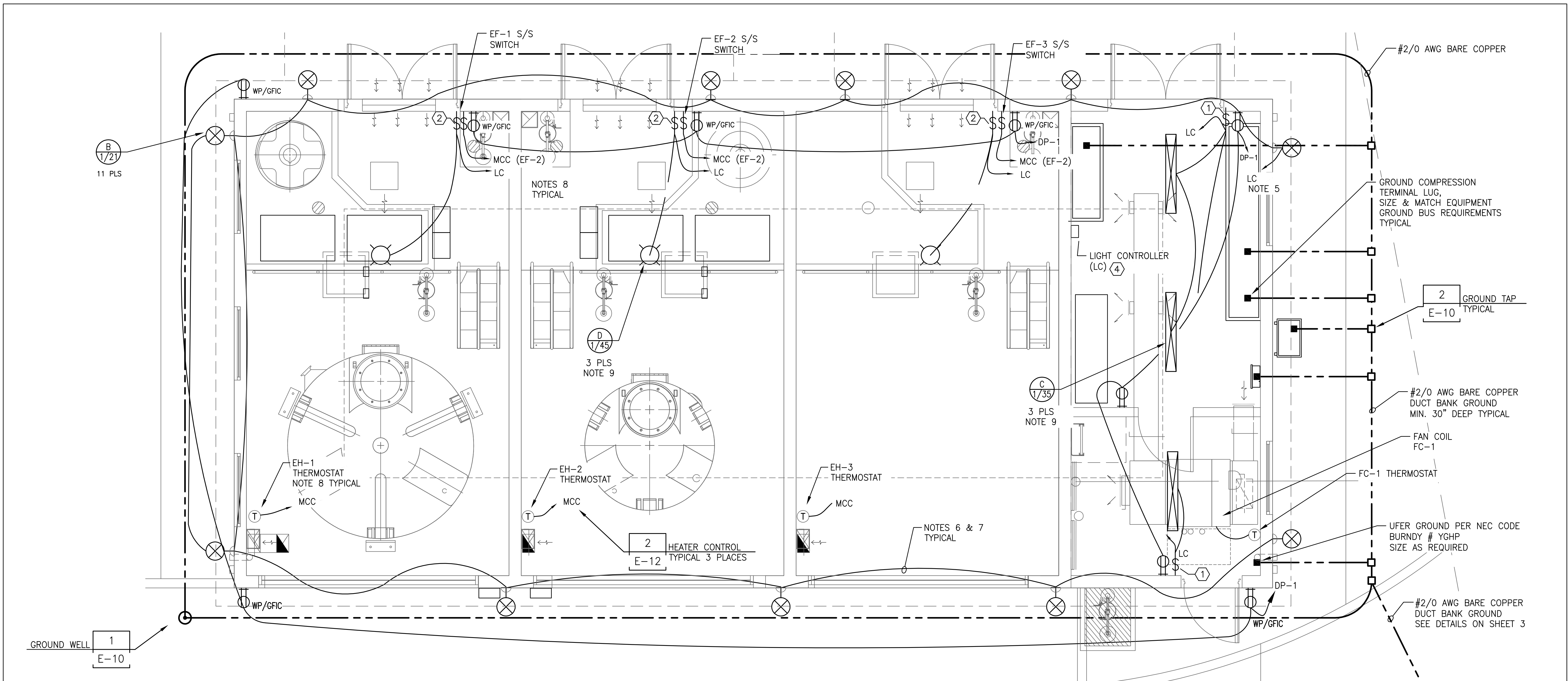
- SEE THE STRUCTURAL DRAWINGS FOR ROOF PENETRATION DETAILS. COORDINATE WITH STRUCTURAL CONTRACTOR.
- MOUNT ELECTRICAL EQUIPMENT TO GALVANIZED STRUT FRAMES BOLTED TO BASE OF MECHANICAL EQUIPMENT. DO NOT BLOCK ACCESS TO ANY ACCESS PANELS, FILTERS OR WHERE MAINTENANCE OF THE EQUIPMENT HAS TO BE PERFORMED.
- CONTRACTOR TO PROVIDE CORROSION RESISTANT STOP/START STATION LOCATED IN CHEMICAL ROOM AS SHOWN ON SHEET E-8. LABEL 'EF-1 FAN CONTROL' TYPICAL.
- SEE SHEETS E-11 FOR CONTROL ELEMENTARY SCHEMATICS.
- PROVIDE CONDUIT FOR VENDOR CABLE BETWEEN HP1 & FC-1 IN STORAGE ROOM.

**1** ROOF ELECTRICAL PLAN  
SCALE: 1/4" = 1'-0"

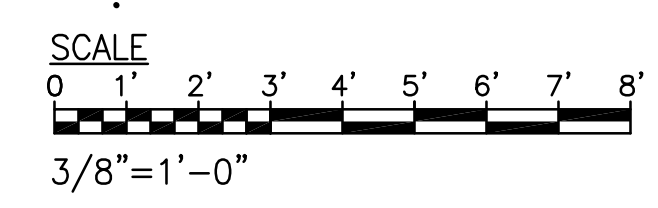


SCALE: HOR. 1"=1' VER. 1"=1'			<b>WARNING</b> IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE			DESIGNED RLK DRAWN WS CHECKED RLK			UNAUTHORIZED CHANGES & USES CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.			<b>KIYOI ENGINEERING INC.</b> 5266 Hollister Avenue #117 Santa Barbara, CA 93111 Phone: (805) 681-0980			<b>PUEBLO</b> Pueblo Water Resources 4478 Market St., Suite 705 Ventura, CA 93003 (805) 644-0470			<b>ROOF ELECTRICAL PLAN</b> SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING MONTEREY PENINSULA WATER MANAGEMENT DISTRICT			PROJECT NO. <b>E-7</b>		
0	8/5/19	SPT	ISSUE FOR BID																				
REV	DATE	BY	DESCRIPTION																				

KEI PROJECT - 22020



1 GROUNDING, INDOOR LIGHTING & INDOOR MECHANICAL PLAN  
SCALE: 3/8" = 1'-0"



FIXTURE SCHEDULE		
FIXTURE TAG	DESCRIPTION	QTY.
B 1/21	LED WALL LIGHT, 3500K COLOR TEMPERATURE, 120VAC, 1 LED, 21 WATTS, WHITE SMOOTH DIFFUSER, ANODIZED SILVER MESH CAGE, CENTER COMPLETE STYLE LIGHTWAY #MERW-616-LED-B-21W-3-M13-F-CC	11
C 1/35	LED LOW BAY LIGHT, PENDANT MOUNT, CORROSION RESISTANT, WIDE DISTRIBUTION PRISMATIC GLASS, 3000K COLOR TEMPERATURE, 5,000LM, 120VAC, ON/OFF, 36" SAFETY CHAIN KIT PETROLUX LED #PLW-5000LM-WD-120-30K-81CRI-PM-CRW-SCK36	3
D 1/45	LED SUSPENDED LED LIGHT, LOW PROFILE, ENCLOSED AND GASKETED, 4000K COLOR TEMPERATURE, 120VAC LITHONIA #FEM-L48-6000LM-LPAFL-MD-120-GZ10-40K-80CRI	3

- NOTES:
- WIRE TO LIGHTING CONTROLLER (LC) RELAY COMMON FOR ELECTRICAL ROOM & STORAGE ROOM
  - WIRE TO LC INDIVIDUAL RELAY FOR EACH CHEMICAL ROOM AND OUTSIDE PARKING LIGHT. PROGRAM CHEMICAL ROOM RELAYS FOR ALWAYS ON. PROGRAM PARKING LIGHT RELAY FOR PHOTOCELL ON, OFF AT 11:PM WITH AS-100 SWITCH OVERRIDE.
  - MOUNT PHOTOCELL ON ROOF FACING SOUTH AND WIRE TO LC AS SHOWN ON SHEET E-8
  - PROGRAM LC AS NOTED ABOVE. PROGRAM ASTRONOMIC CALENDAR FOR FUTURE USE. PROGRAM OUTDOOR SCONCES PER NOTE WITHOUT AS-100.
  - WIRE OUTDOOR SCONCES TO LC RELAY COMMON FOR ALL SCONCES.
  - SEE MECHANICAL DRAWINGS FOR SEALING CONDUIT PENETRATION REQUIREMENTS.
  - LIGHTING, RECEPTACLE AND FAN SWITCH CONDUITS SHALL BE INSTALLED INSIDE WALLS.
  - SEE SHEETS E-11 & E-12 FOR CONTROL ELEMENTARY SCHEMATICS.

MATERIAL LIST		
ITEM	QTY	DESCRIPTION
①	2	OCCUPANCY SENSOR, PASSIVE INFRARED & ULTRASONIC DUAL SENSING TECHNOLOGY, SINGLE WALL SWITCH, IVORY WATTSTOPPER #DSWE-301-1 OR APPROVED SUBSTITUTE NOTE 1
②	4	AUTOMATIC CONTROL SWITCH, 120VAC, SINGLE WALL SWITCH, IVORY WATTSTOPPER #AS-100 OR APPROVED SUBSTITUTE NOTE 2
③	1	PHOTO CELL, 24 VAC, RELAY CONTACT OUTPUT, OUTDOOR WATTSTOPPER #EM-24A2 OR APPROVED SUBSTITUTE NOTE 3
④	1	LIGHTING CONTROLLER, 120VAC, 8 MECHANICALLY LATCHING RELAY OUTPUTS, UNIVERSAL SWITCH INPUTS, GROUP SWITCHING RELAY CONTROL, ASTRONOMIC CONTROL, PHOTO CELL CAPABLE, SURFACE MOUNT ENCLOSURE WATTSTOPPER #LP8S-8-G-115 OR APPROVED SUBSTITUTE NOTE 4

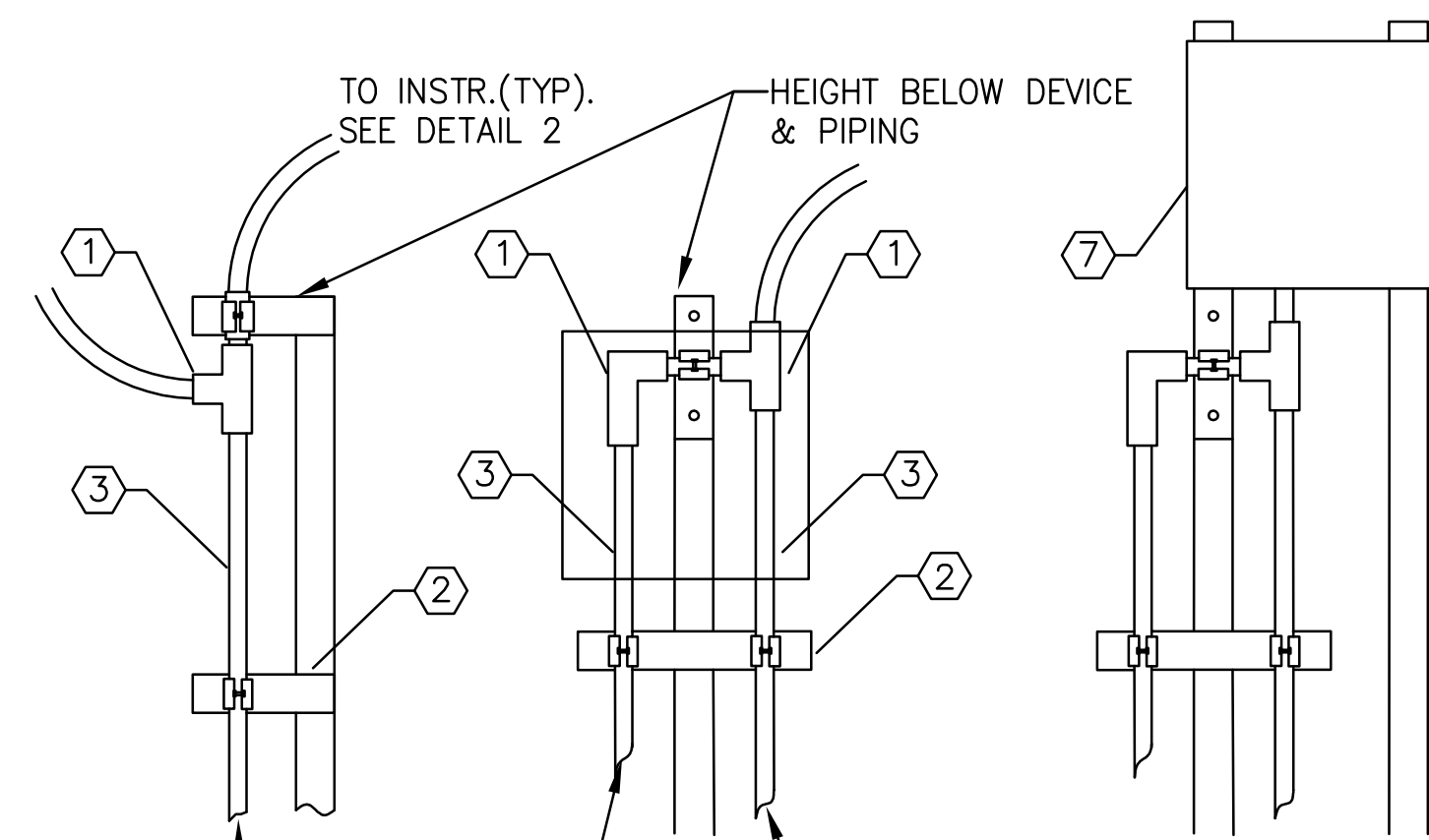
SCALE: HOR. 1"=1' VER. 1"=1'	<b>WARNING</b> 	DESIGNED RLK DRAWN WS CHECKED RLK	<b>UNAUTHORIZED CHANGES &amp; USES CAUTION:</b> The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.	 <b>KIYOI ENGINEERING INC.</b> 5266 Hollister Avenue #117 Santa Barbara, CA 93111 Phone: (805) 681-0980 KEI PROJECT - 22020	 <b>PUEBLO</b> Pueblo Water Resources 4478 Market St., Suite 705 Ventura, CA 93003 (805) 644-0470	<b>GROUNDING, INDOOR LIGHTING &amp; INDOOR MECHANICAL ELECTRICAL PLAN</b> SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	PROJECT NO. <b>E-8</b>
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REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

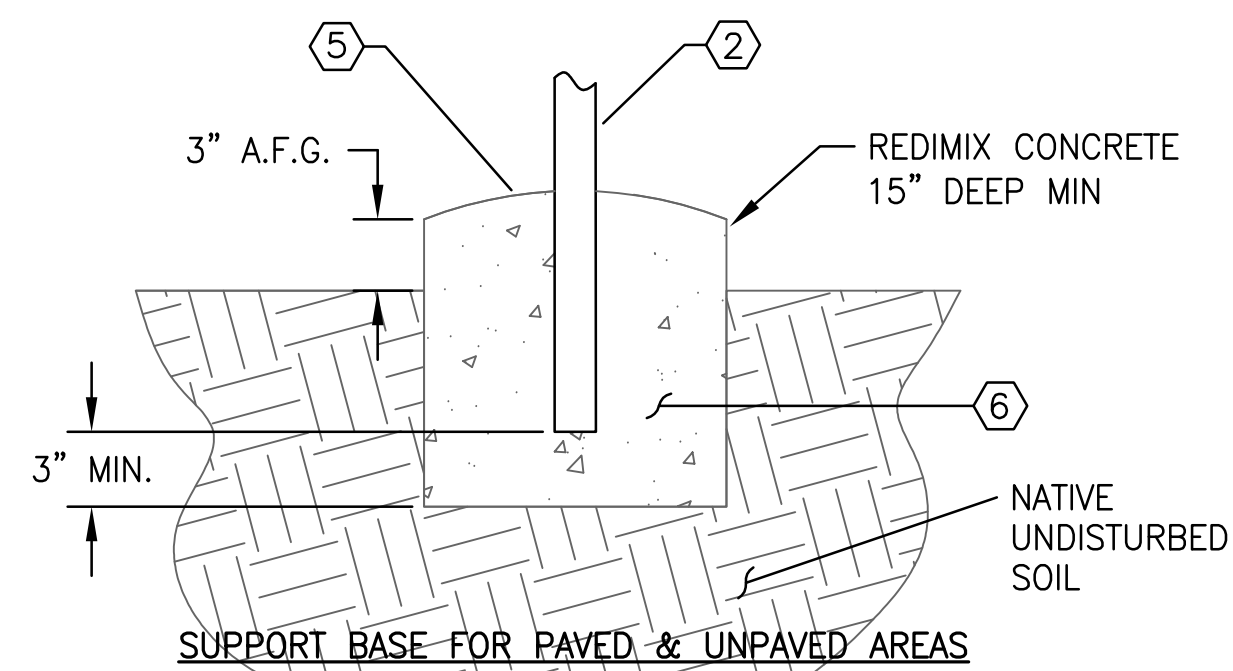
**MATERIAL LIST**

- ① 'C', 'LB', 'T', OR 'X' CONDULET AS NEEDED.
- ② ALL 1-5/8" UNISTRUT AND CONDUIT STRAPS SHALL BE GALVANIZED STEEL.
- ③ ALL ABOVE GROUND CONDUIT SHALL BE 40 MILL PVC COATED G.R.S.
- ④ TWO STRAPS PER CONDULET PER LATEST NAT'L. ELECTRIC CODE.
- ⑤ TOP OF CONCRETE DOMED FOR DRAINAGE. UNISTRUT BASE 1" A.F.G. AND DRY PACKED.
- ⑥ CONCRETE AROUND EACH INSTRUMENT UNISTRUT RISER PER THIS DETAIL.
- ⑦ STAINLESS STEEL OR GALVANIZED BACK PLATE FOR JB OR EQUIPMENT SUPPORT.

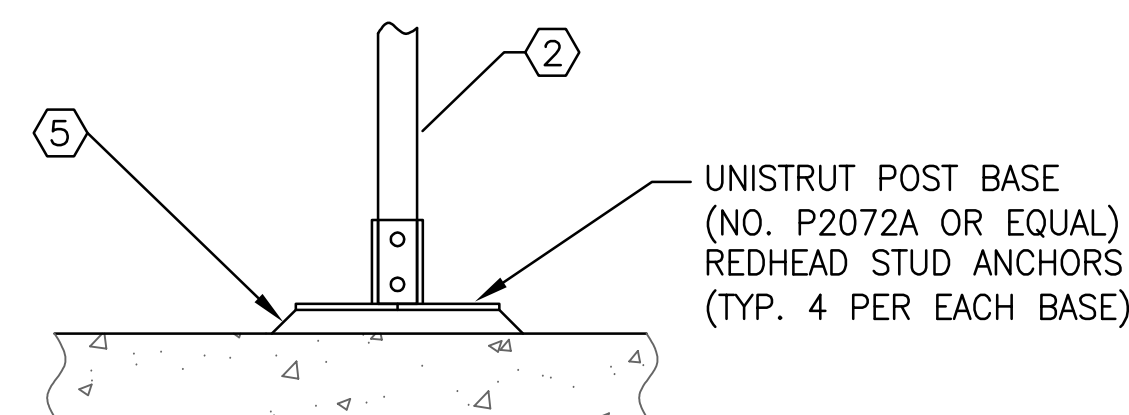
NOTE: CONTRACTOR MAY SUBSTITUTE ONE 2" GALVANIZED STEEL PIPE WITH WELDED ON BACK PLATE FOR STANDS WITH DUAL POST SUPPORTS.



SEE BELOW FOR UNISTRUT SUPPORT BASE DETAIL



SUPPORT BASE FOR PAVED & UNPAVED AREAS



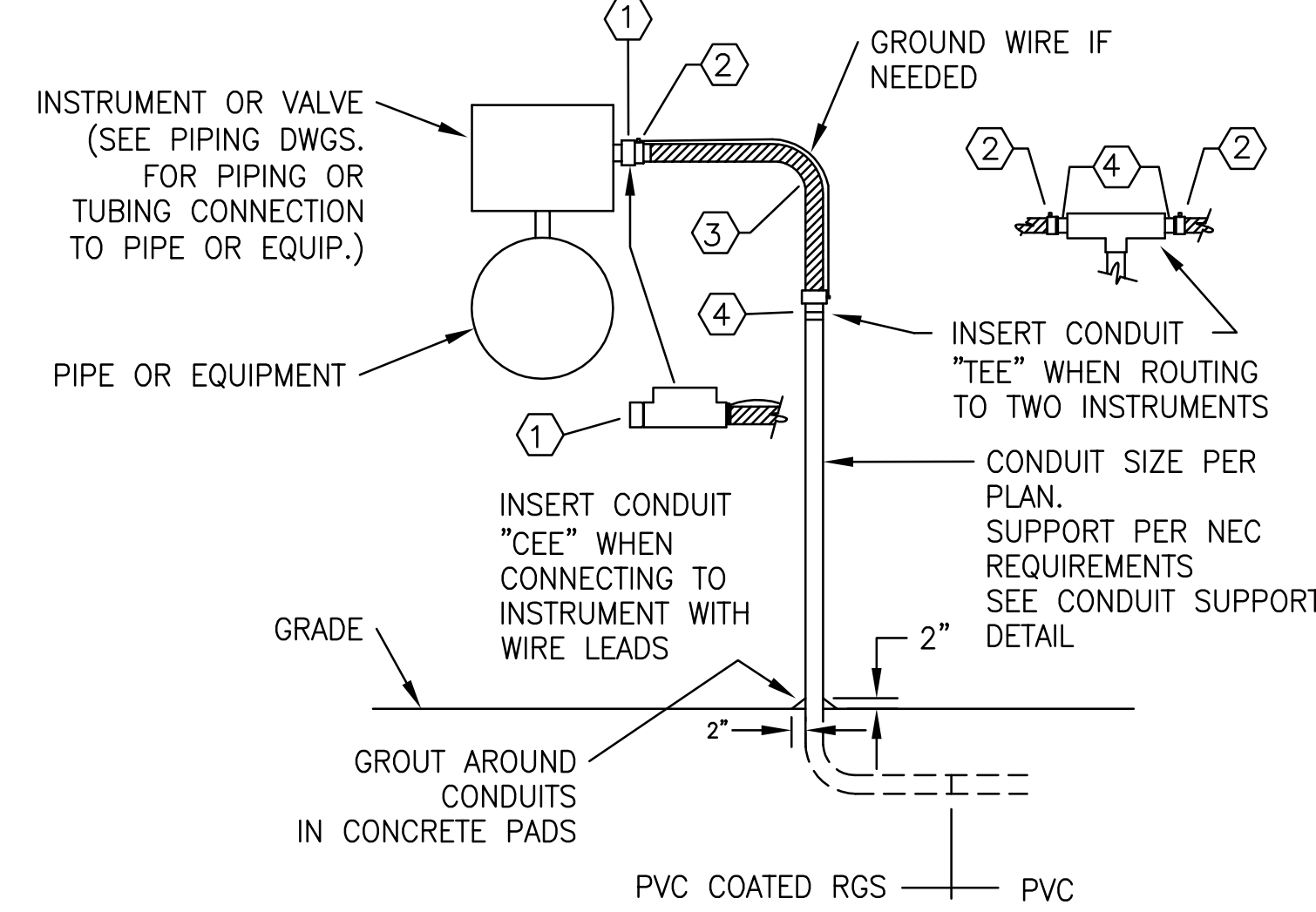
SUPPORT BASE FOR CONCRETE SLAB AREAS

TYPICAL INSTRUMENT & EQUIPMENT SINGLE & MULTIPLE CONDUIT SUPPORT

NOT TO SCALE

**MATERIAL LIST**

- ① UNION, SIZE AS REQUIRED
- ② FLEX CONNECTOR W/GROUND LUG IF NEEDED
- ③ 1/2" LIQUID TIGHT FLEX. CONDUIT TYPE UA 18" MAXIMUM LENGTH
- ④ REDUCER, SIZE AS REQUIRED.

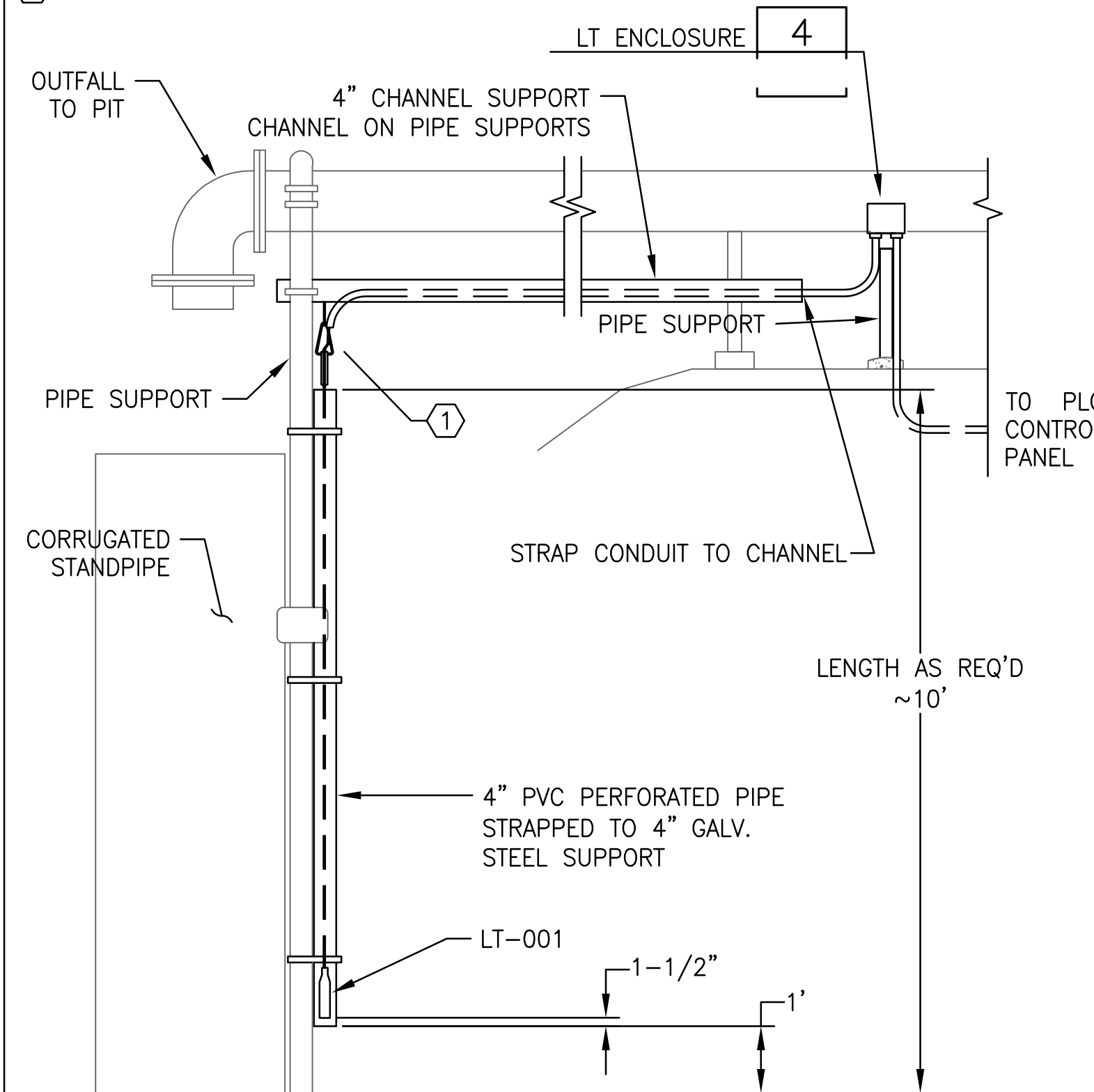


TYPICAL INSTRUMENT CONNECTION

NOT TO SCALE

**MATERIAL LIST**

- ① CABLE HANGER, DRUCK # 192-373-01 OR EQUAL

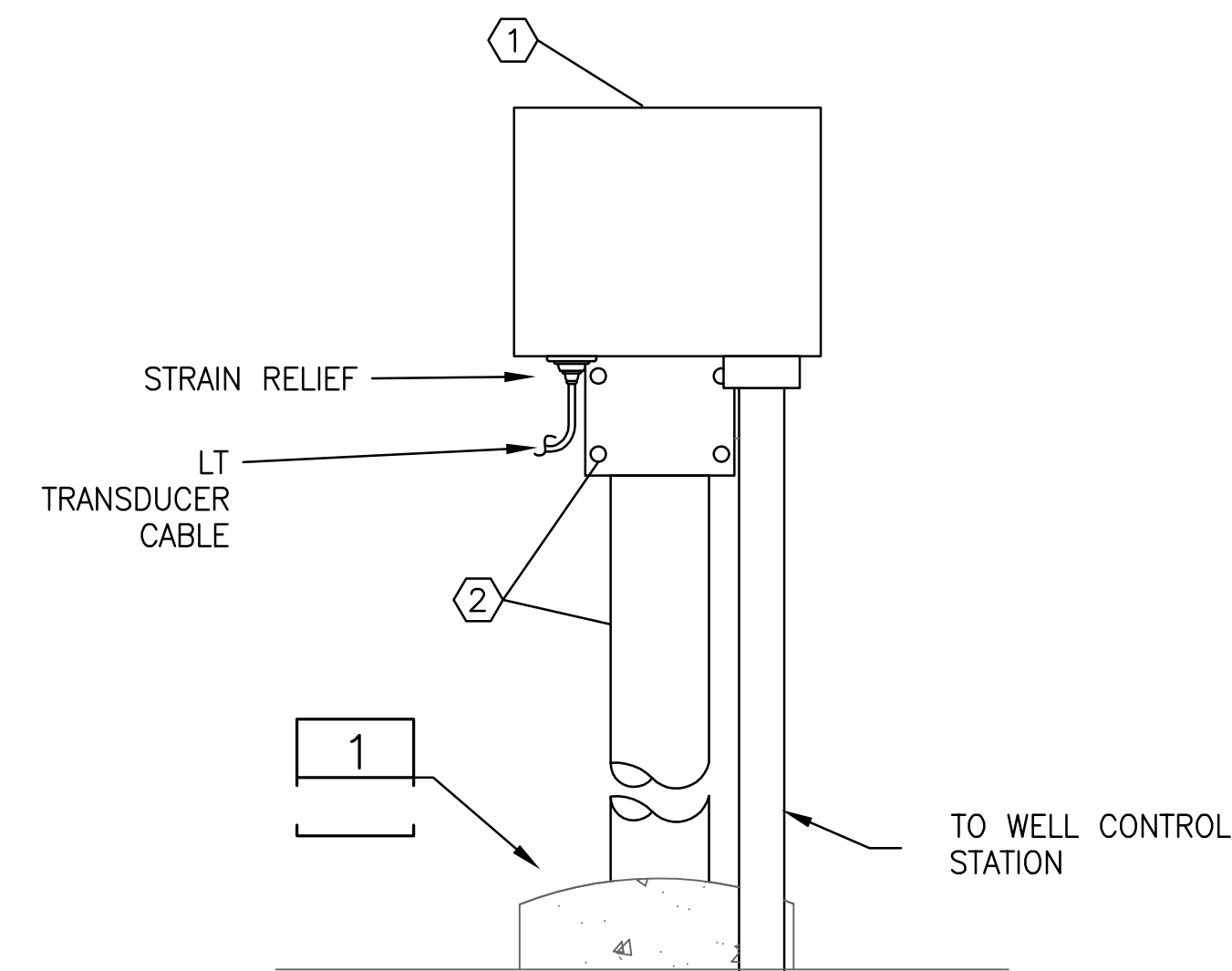


LT-1020

NOT TO SCALE

**MATERIAL LIST**

- ① SENSOR TERMINATION ENCLOSURE WITH OPTIONAL MOUNTING KIT & DESICCANT MODULE, DRUCK STE110
- ② 2" GALVANIZED PIPE, STAINLESS STEEL PIPE CLAMPS AND FITTINGS

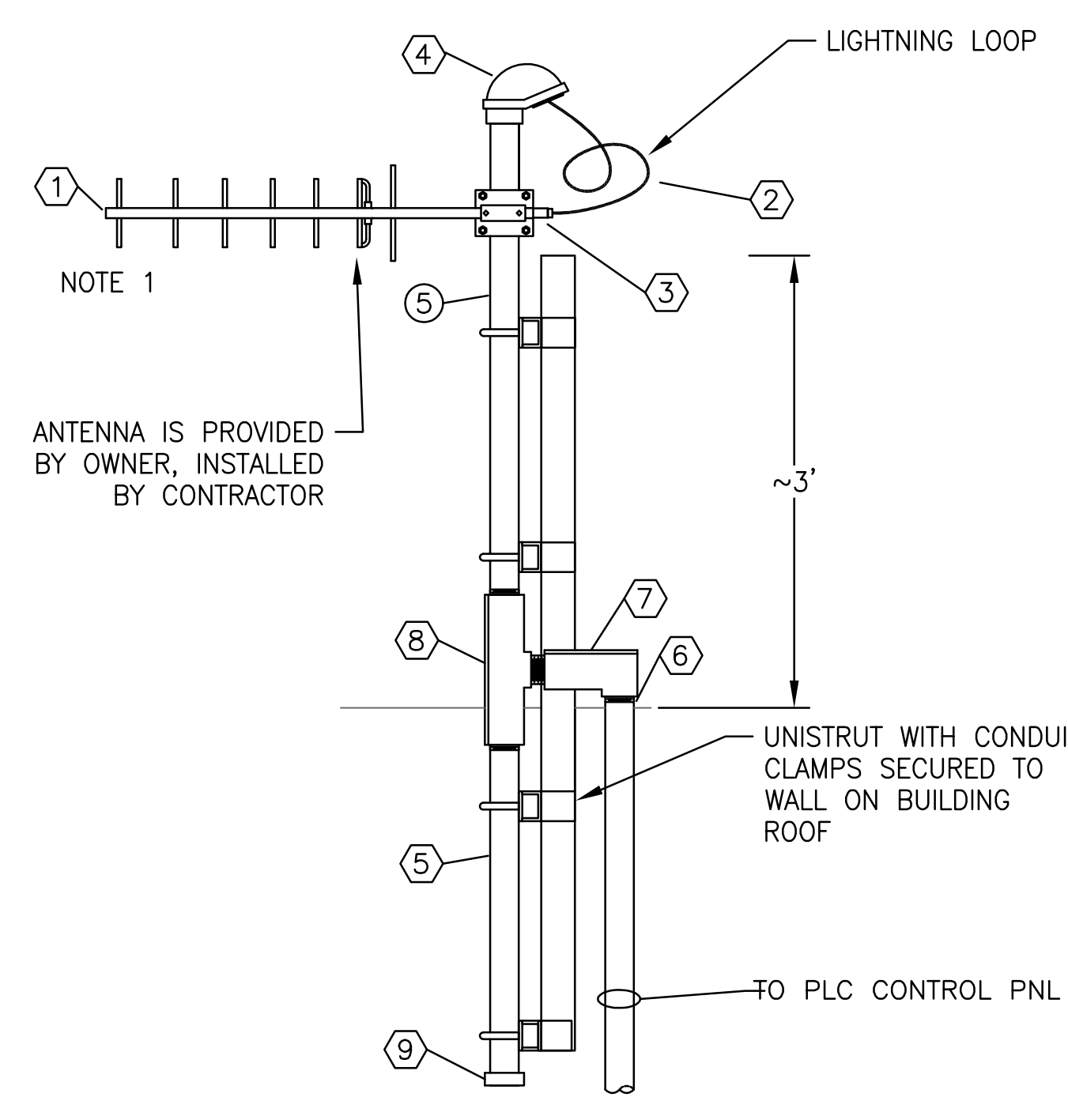


LT TERMINATION ENCLOSURE

NOT TO SCALE

**NOTES:**

- 1. VERIFY ANTENNA DIRECTION, HEIGHT AND LOCATION WITH THE DISTRICT.

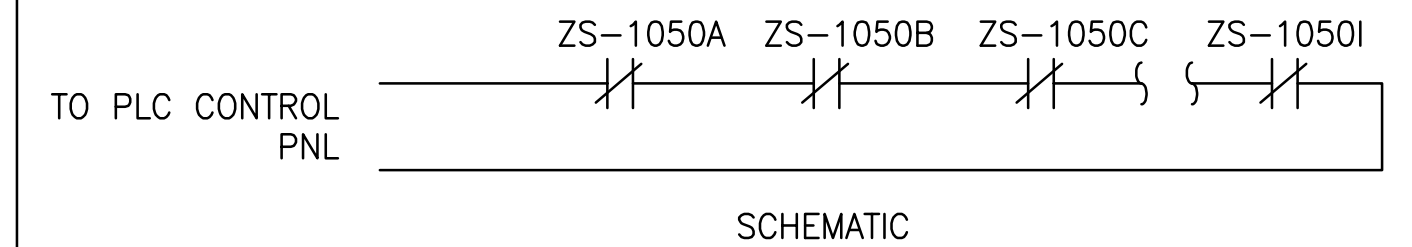
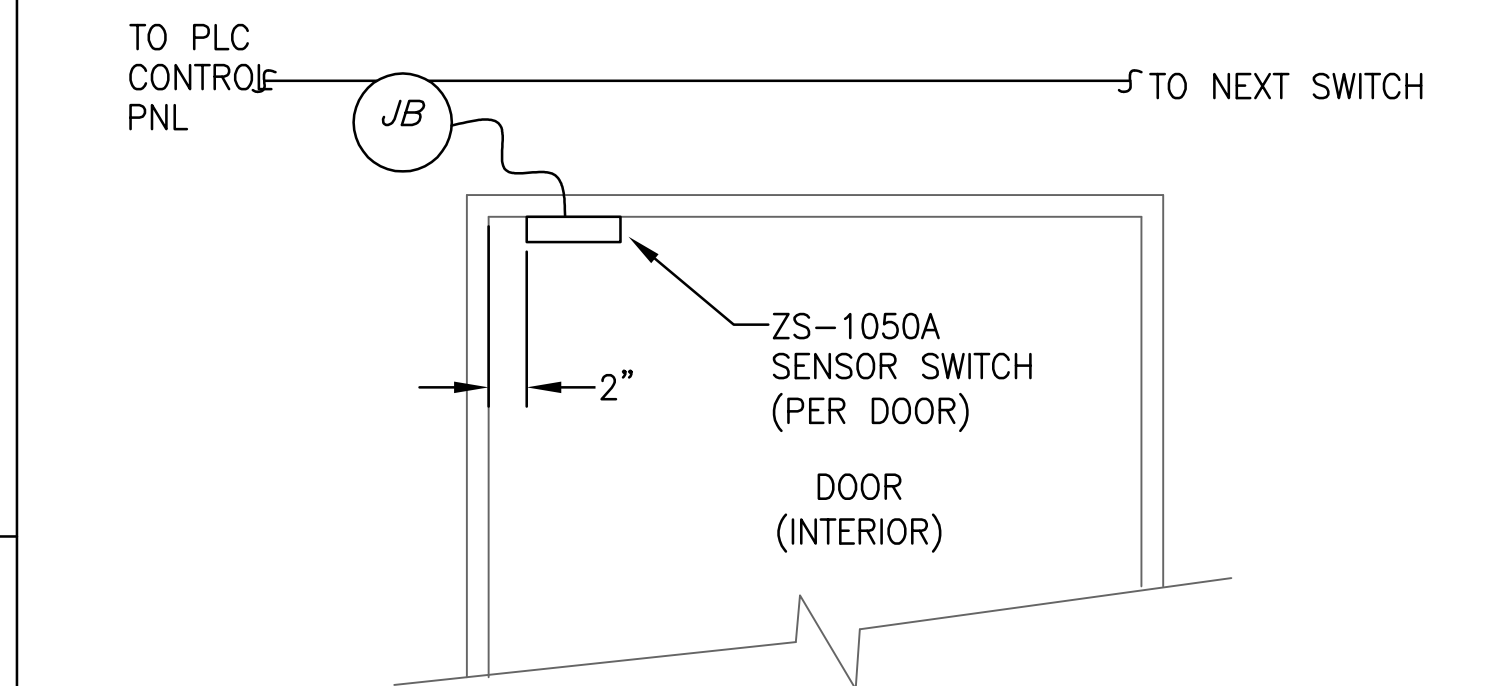
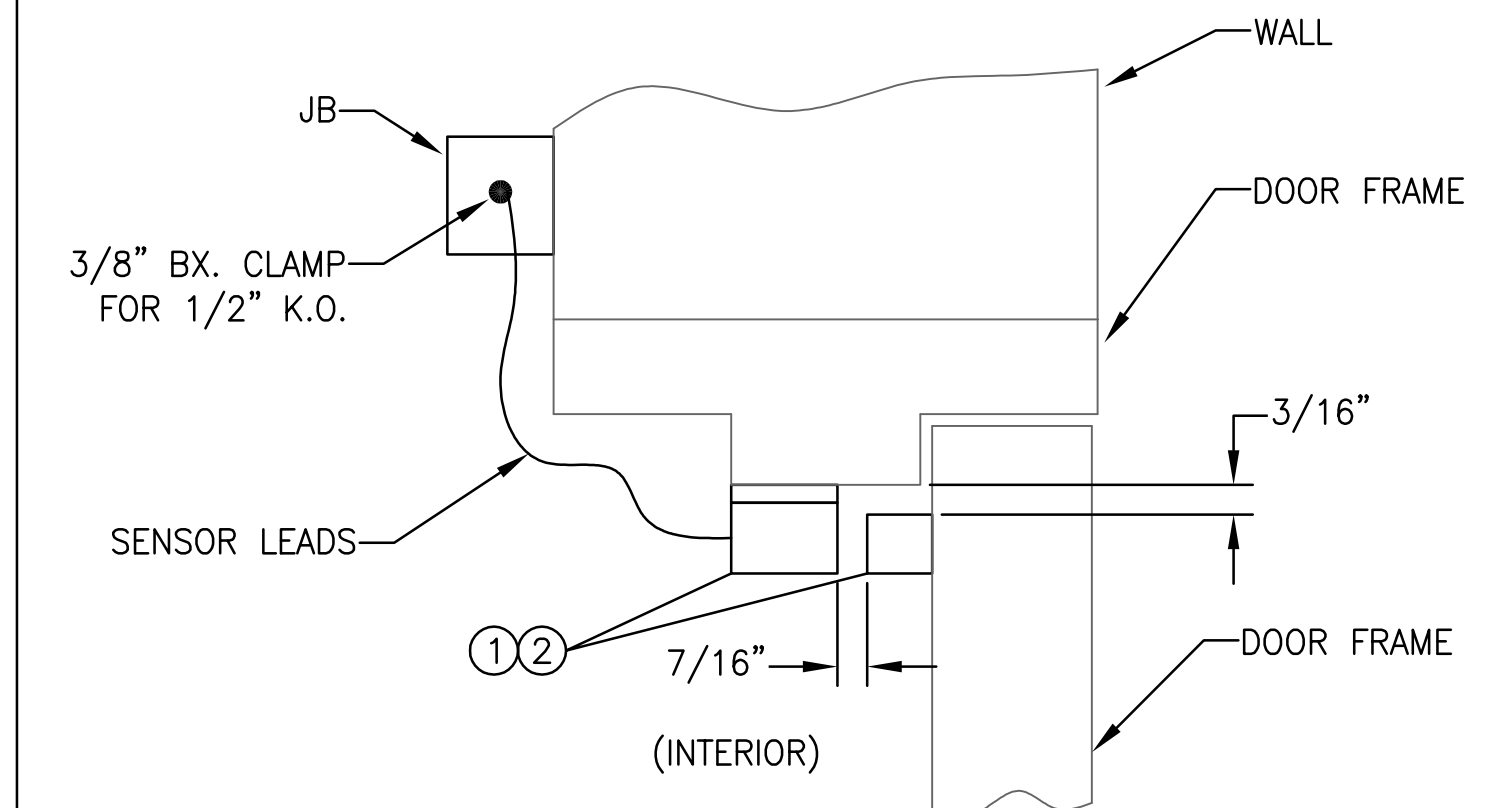


YAGI ANTENNA MOUNTING TERMINATION ENCLOSURE

NOT TO SCALE

**MATERIAL LIST**

- ① DOOR SECURITY CONTACTS, HONEYWELL-ADMECO #968XTP
- ② HEX BOLTS, WASHERS, LOCK WASHERS & NUTS, 1/4" SS



SCHEMATIC

DOOR INTRUSION SWITCH

NOT TO SCALE

**MATERIAL LIST:**

- ① ANTENNA, YAGI, 900 MHZ, TYPE N, 50 OHM, SCALA TY-XXX
- ② RADIO CABLE, 1/2" 50 OHM, FLEXIBLE COAX, ANDREW HELIAX
- ③ RADIO CABLE CONNECTORS, TYPE N, ANDREWS F4PNM
- ④ 2" RGS WEATHERHEAD FOR RADIO CABLE
- ⑤ 2" RGS CONDUIT, LENGTH AS REQUIRED
- ⑥ 1-1/2" X 2" REDUCER
- ⑦ 2" LB CONDUIT MOGUL FITTING
- ⑧ 2" TEE CONDUIT MOGUL FITTING
- ⑨ 2" CONDUIT CAP

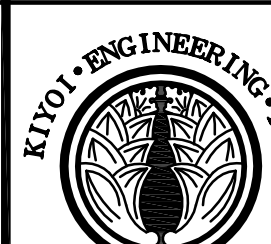
REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

SCALE:  
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VER. 1"=1'

**WARNING**  
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DESIGNED RLK  
DRAWN WS  
CHECKED RLK

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KEI PROJECT - 22020



**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**DETAILS-1**

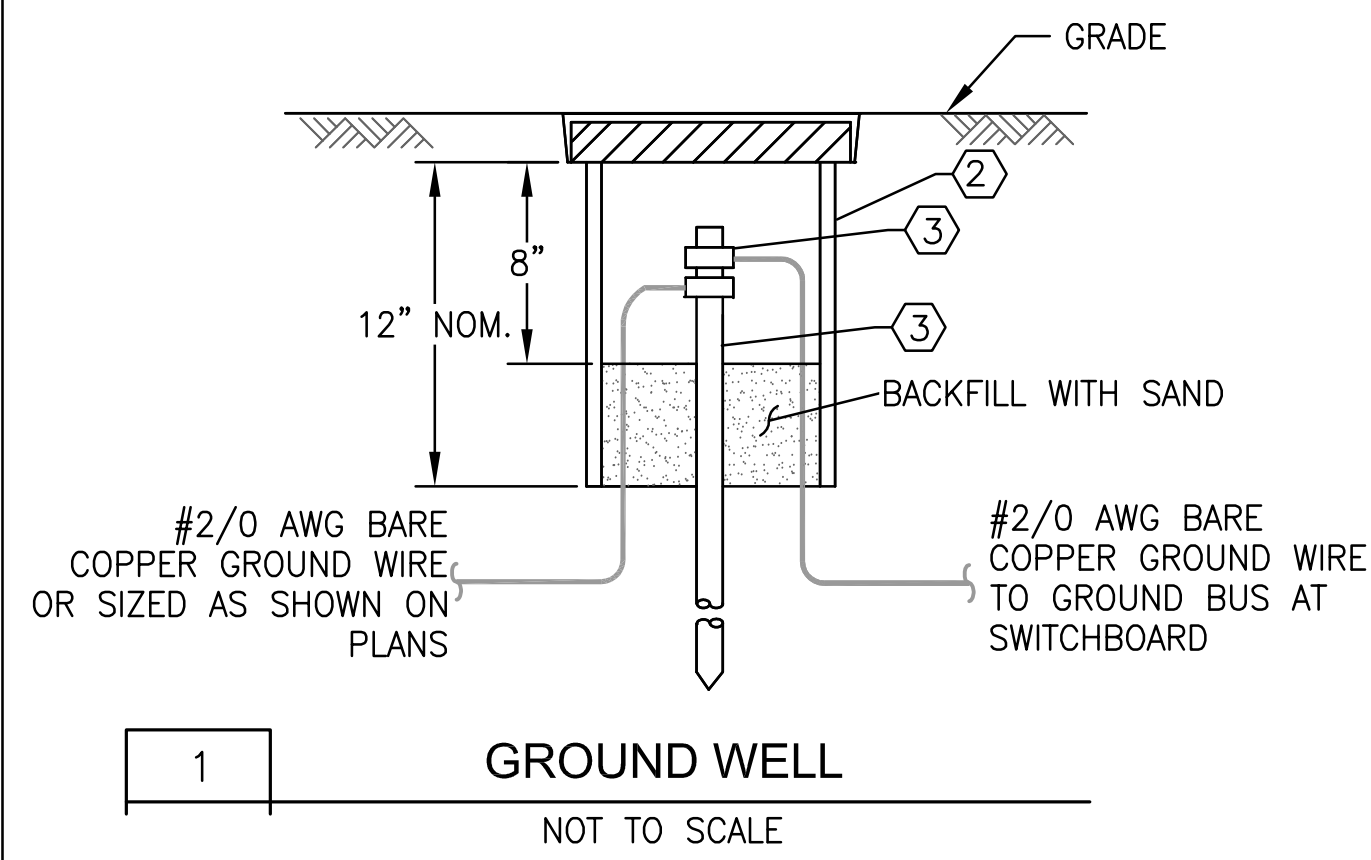
SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.

**E-9**

**MATERIAL LIST**

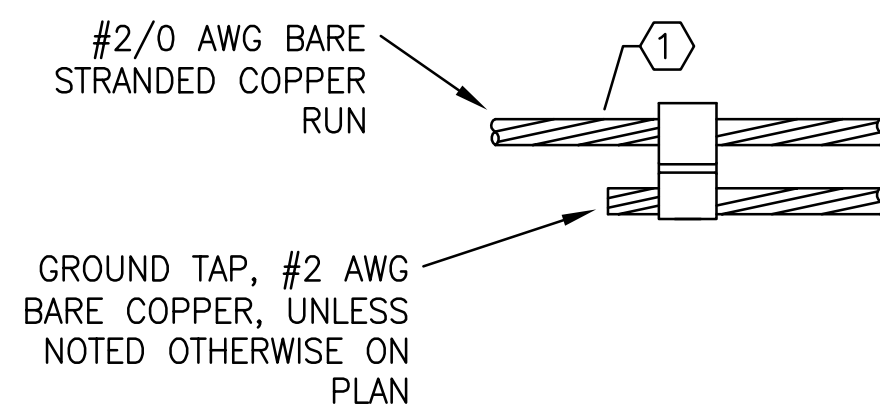
- ① GROUND ROD, 3/4"x 8'-0", COPPERWELD, UL CERT., ENRICO #613480
- ② GROUND WELL, 8" DIA. CONC. W/ GND EMBOSSED IN COVER
- ③ GROUND CONNECTOR, 3/4" ROD, SIZE AS REQUIRED, BURNDY #GAR\_\_\_\_\_



**1 GROUND WELL**  
NOT TO SCALE

**MATERIAL LIST**

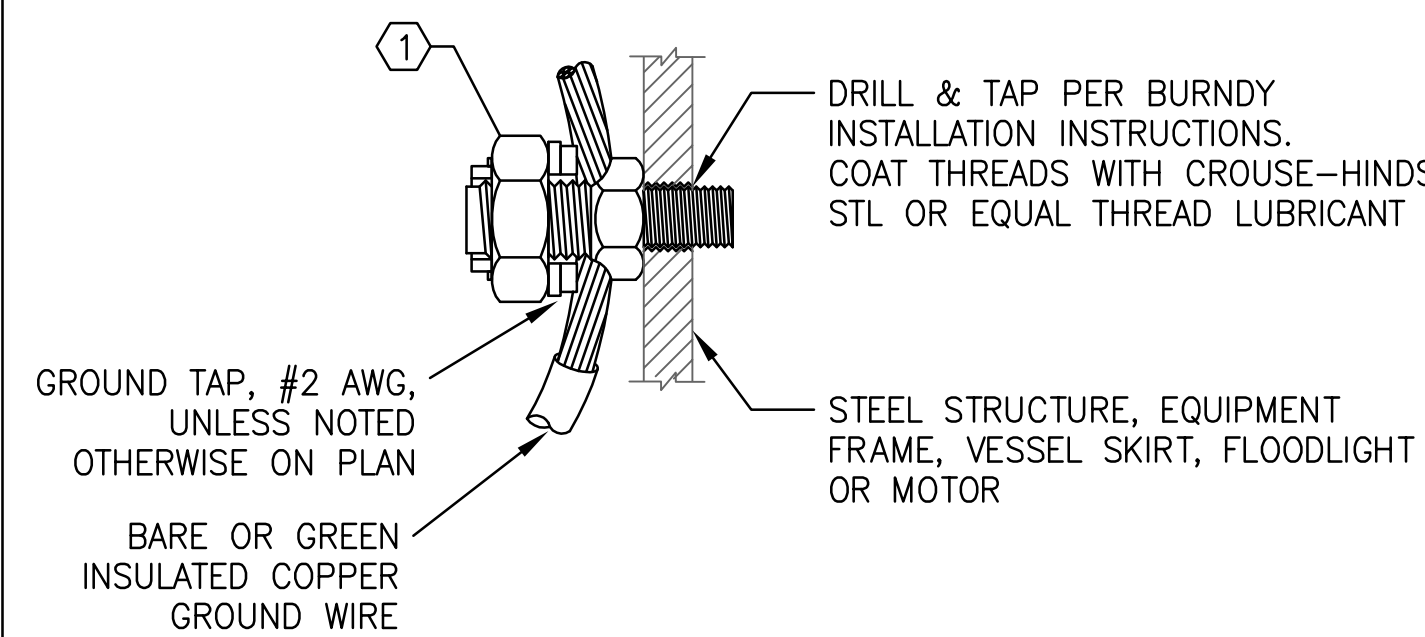
- ① COMPRESSION GROUNDING CONNECTOR, BURNDY #YGHC\_\_\_\_\_



**2 GROUND TAP**  
NOT TO SCALE

**MATERIAL LIST**

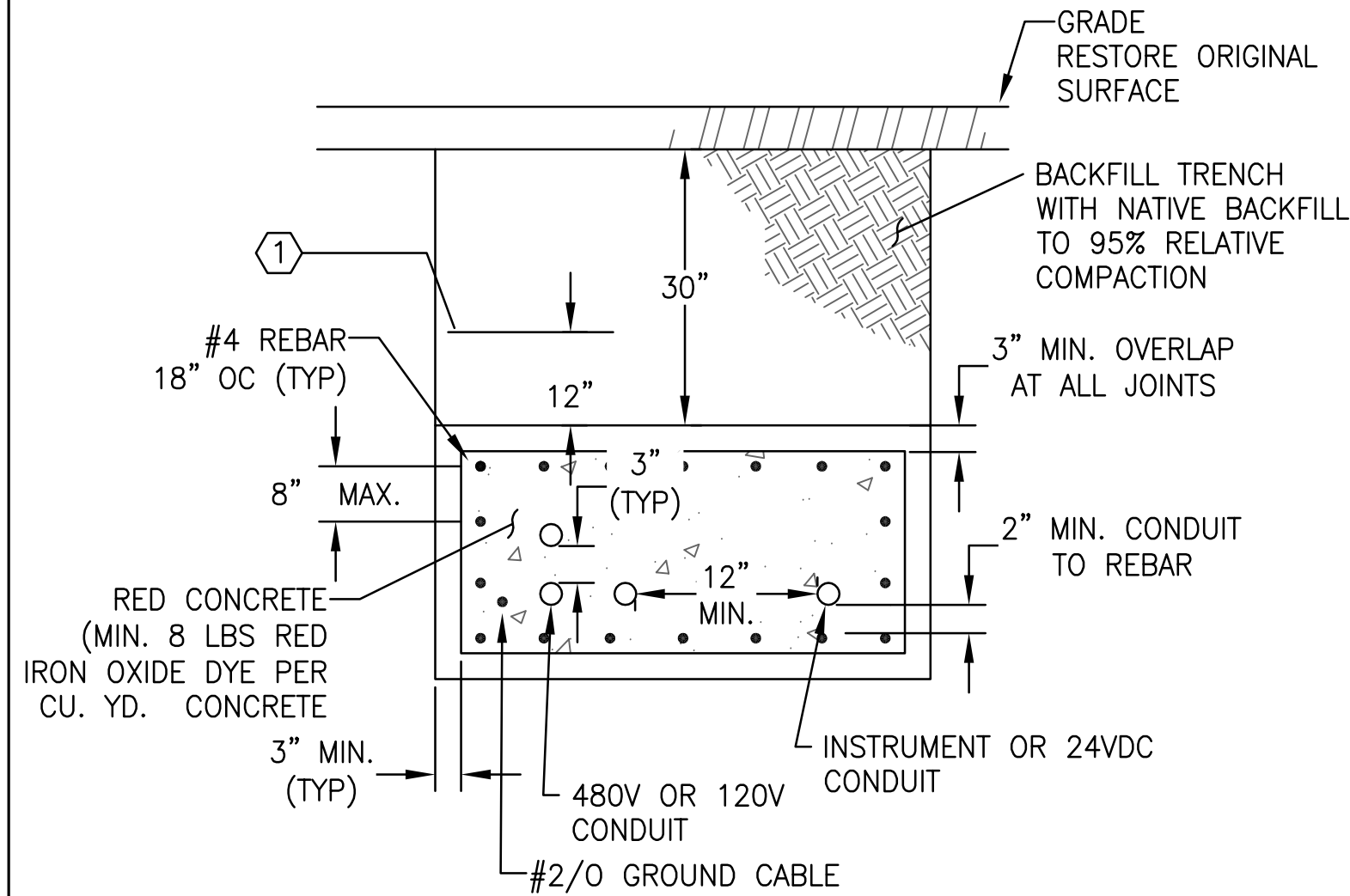
- ① SERVID POST, 1-WIRE, #2-#2/0 STRANDED COPPER, BURNDY #KC26 OR SERVID POST, 1-WIRE, #10-#3 STRANDED COPPER, BURNDY #KC22



**3 EQUIPMENT GROUND TAP (TYPICAL)**  
NOT TO SCALE

**MATERIAL LIST**

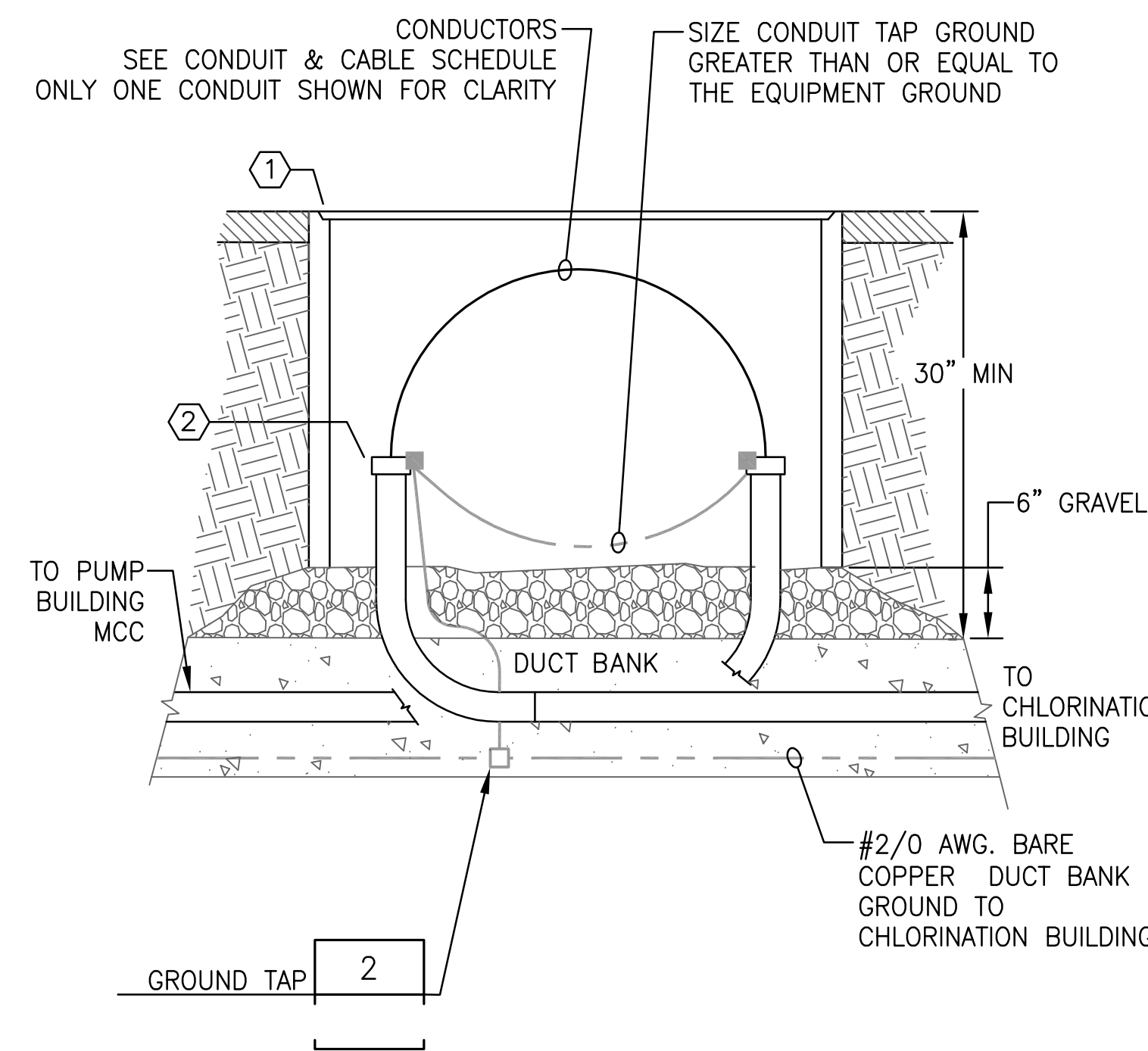
- ① RED 6" WIDE WARNING TAPE, BLACKBURN #RT6



**4 REINFORCED CONDUIT DUCT BANK**  
NOT TO SCALE

**MATERIAL LIST**

- ① 13" X 24 UTILITY TRAFFIC RATED BOX COMPLETE WITH STEEL CHECKER PLATE COVER. WELD "ELECTRICAL" TO TOP OF COVER WITH EXTENSIONS. CHRISTY CAT NO. N1324BOX, B132451JH, B1324X12
- ② INSULATED GROUNDING BUSHING, TYPICAL, SIZE AS REQUIRED

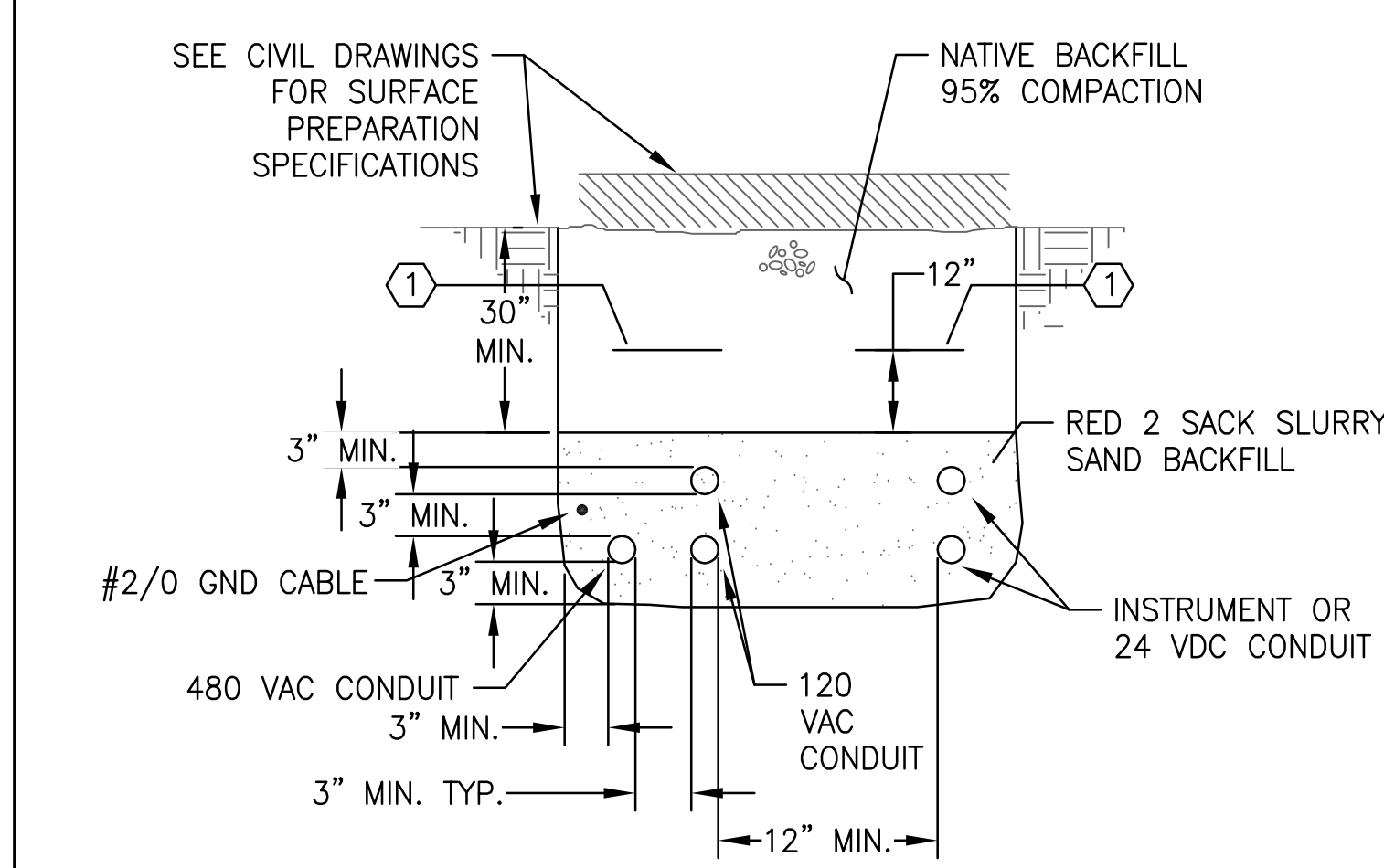


NOTE CONDUIT LAYOUT IN PULLBOX. CONTRACTORS SHALL MAINTAIN BENDING RADIUS PER NEC & MANUFACTURER REQUIREMENTS.

**6 PULL BOX**  
NOT TO SCALE

**MATERIAL LIST**

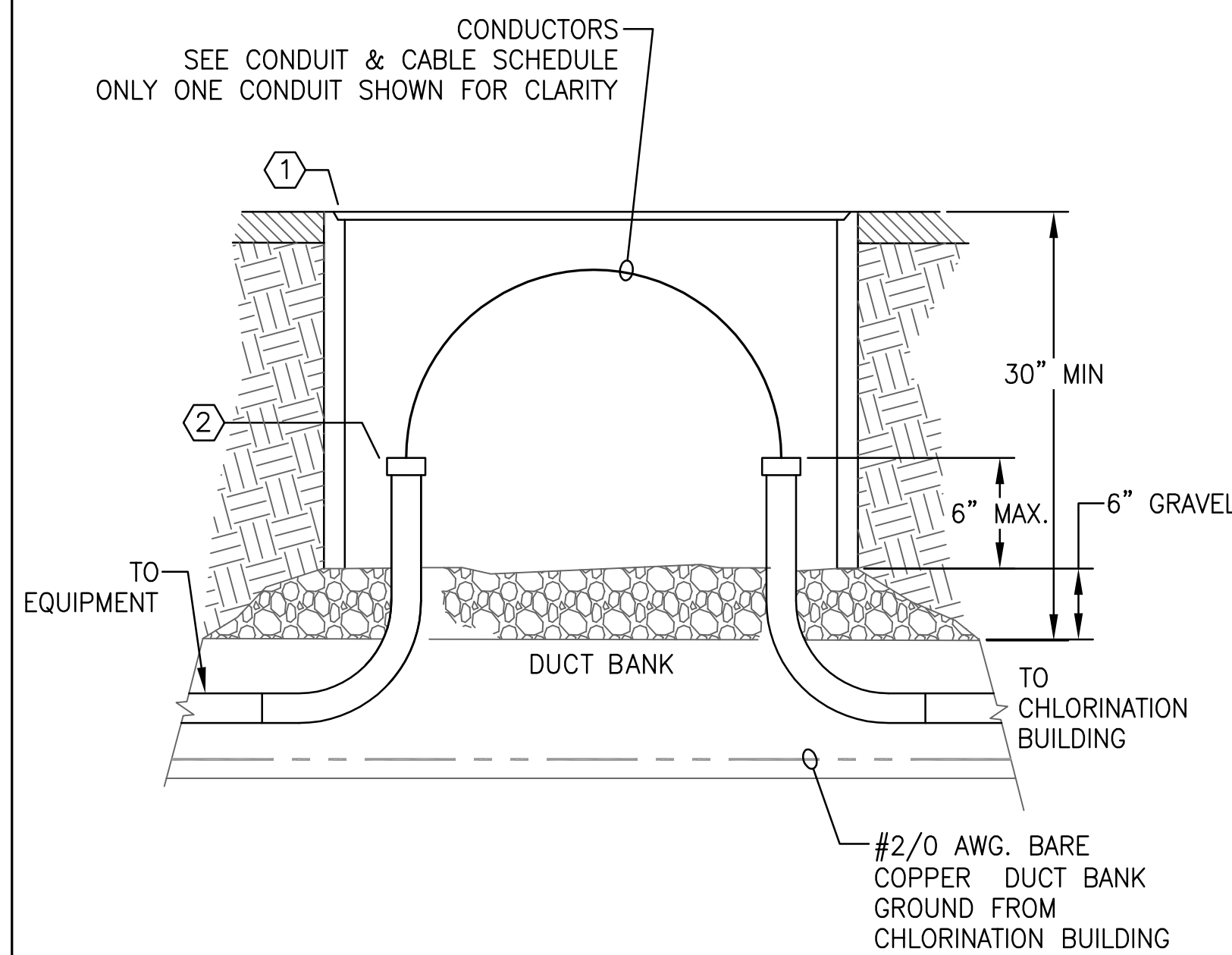
- ① RED 6" WIDE WARNING TAPE, BLACKBURN #RT6



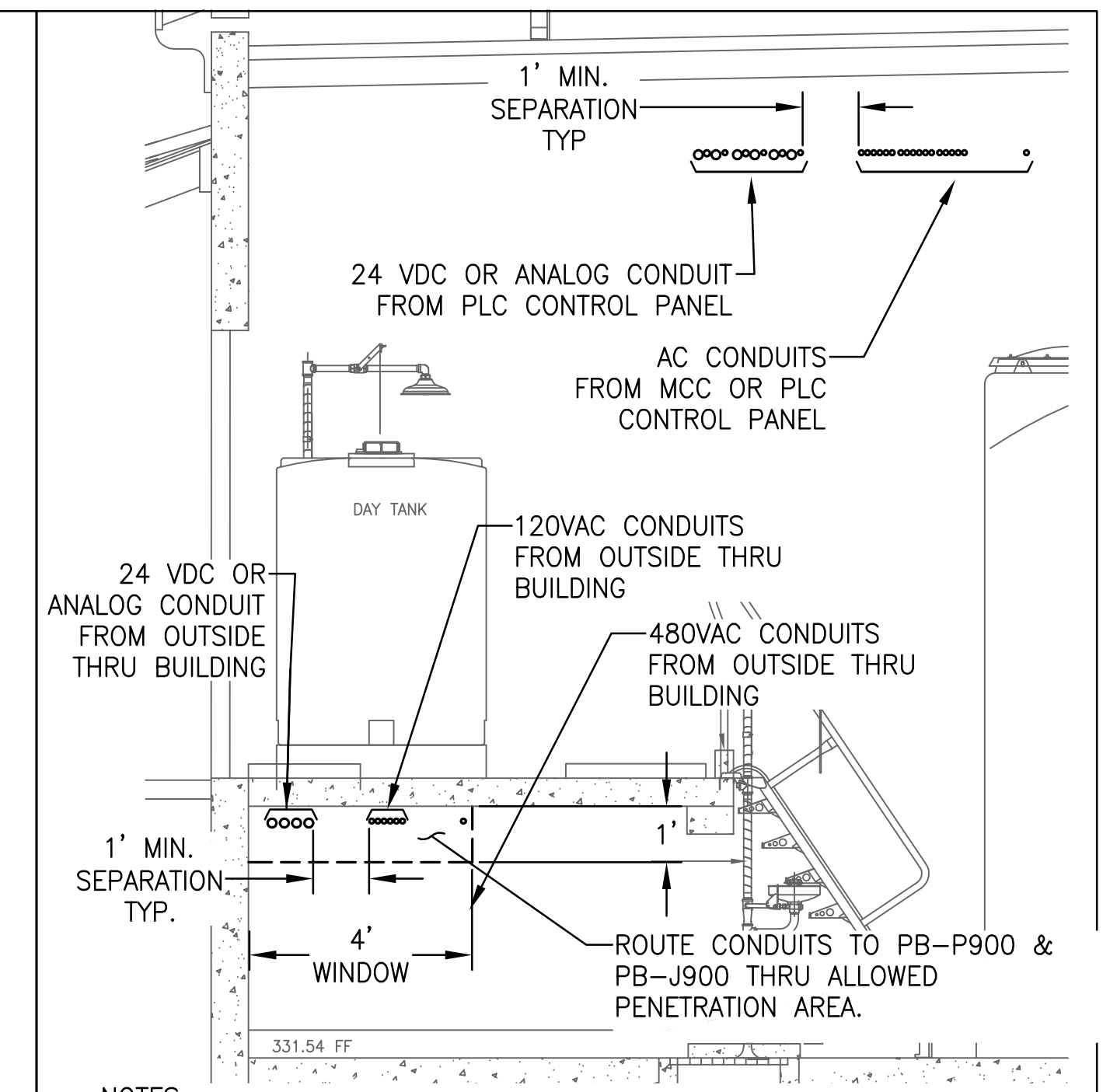
**5 UN-REINFORCED CONDUIT DUCT BANK**  
NOT TO SCALE

**MATERIAL LIST**

- ① 20" X 31-1/2 UTILITY BOX COMPLETE WITH STEEL CHECKER PLATE COVER. WELD "ELECTRICAL" TO TOP OF COVER WITH EXTENSIONS. CHRISTY CAT NO. B65BOX, B65-61D, B65X12 OR APPROVED SUBSTITUTE
- ② INSULATED GROUNDING BUSHING, TYPICAL, SIZE AS REQUIRED



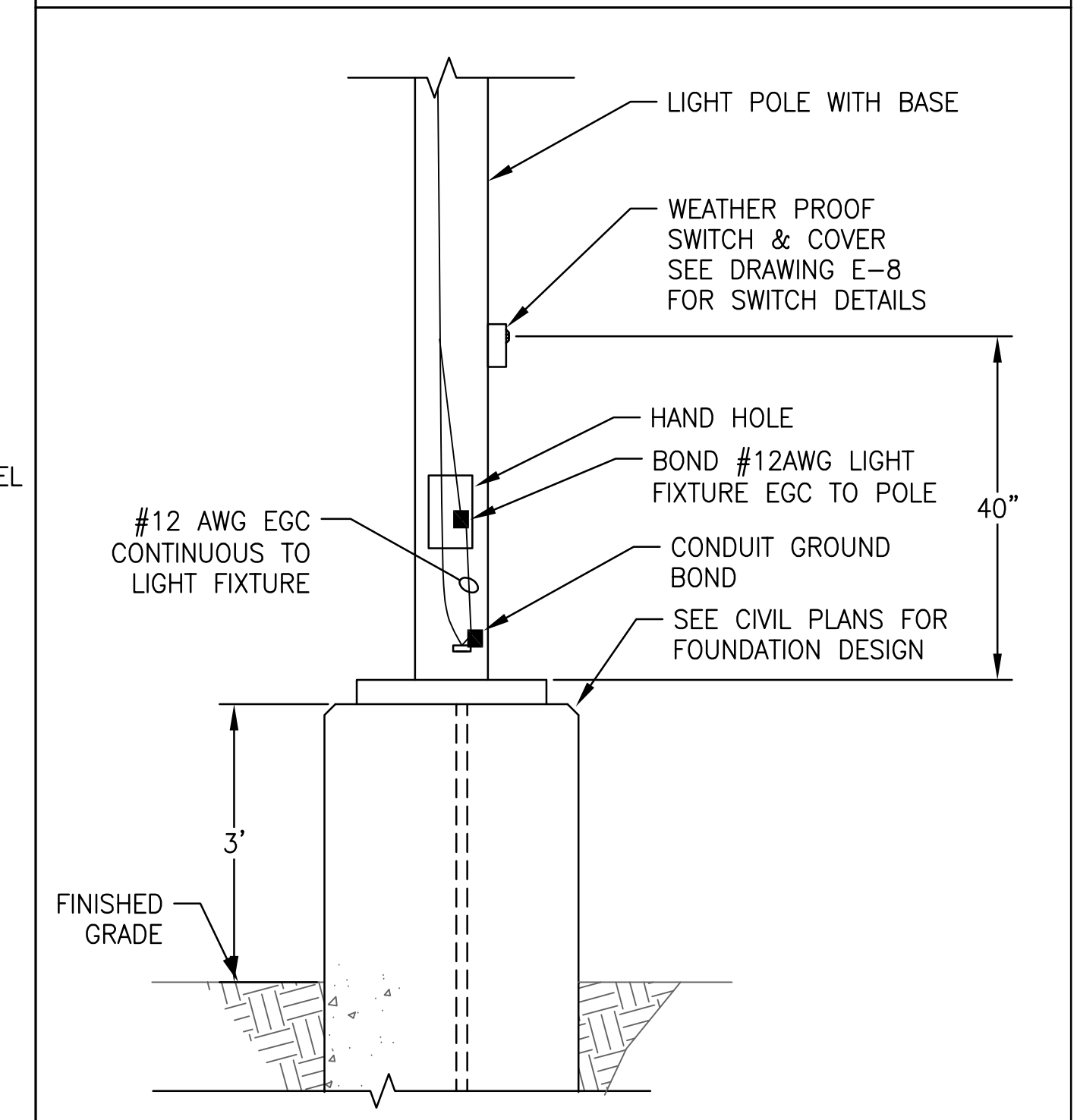
**7 PULLBOX**  
NOT TO SCALE



**NOTES:**

- 1. USE FIBERGLASS STRUT TO SUPPORT SCH. 40 PVC CONDUITS EVERY 5'-0" MAXIMUM.
- 2. COORDINATE WITH MECHANICAL PIPING TO AVOID INTERFERENCES. SEE MECHANICAL DRAWINGS FOR CONTAINMENT AREA PENETRATIONS & CONDUIT SEALING REQUIREMENTS

**8 CONDUIT WALL PENETRATION**  
NOT TO SCALE



**9 LIGHT POLE DETAIL**  
NOT TO SCALE

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**PUEBLO Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

**DETAILS-2**  
SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

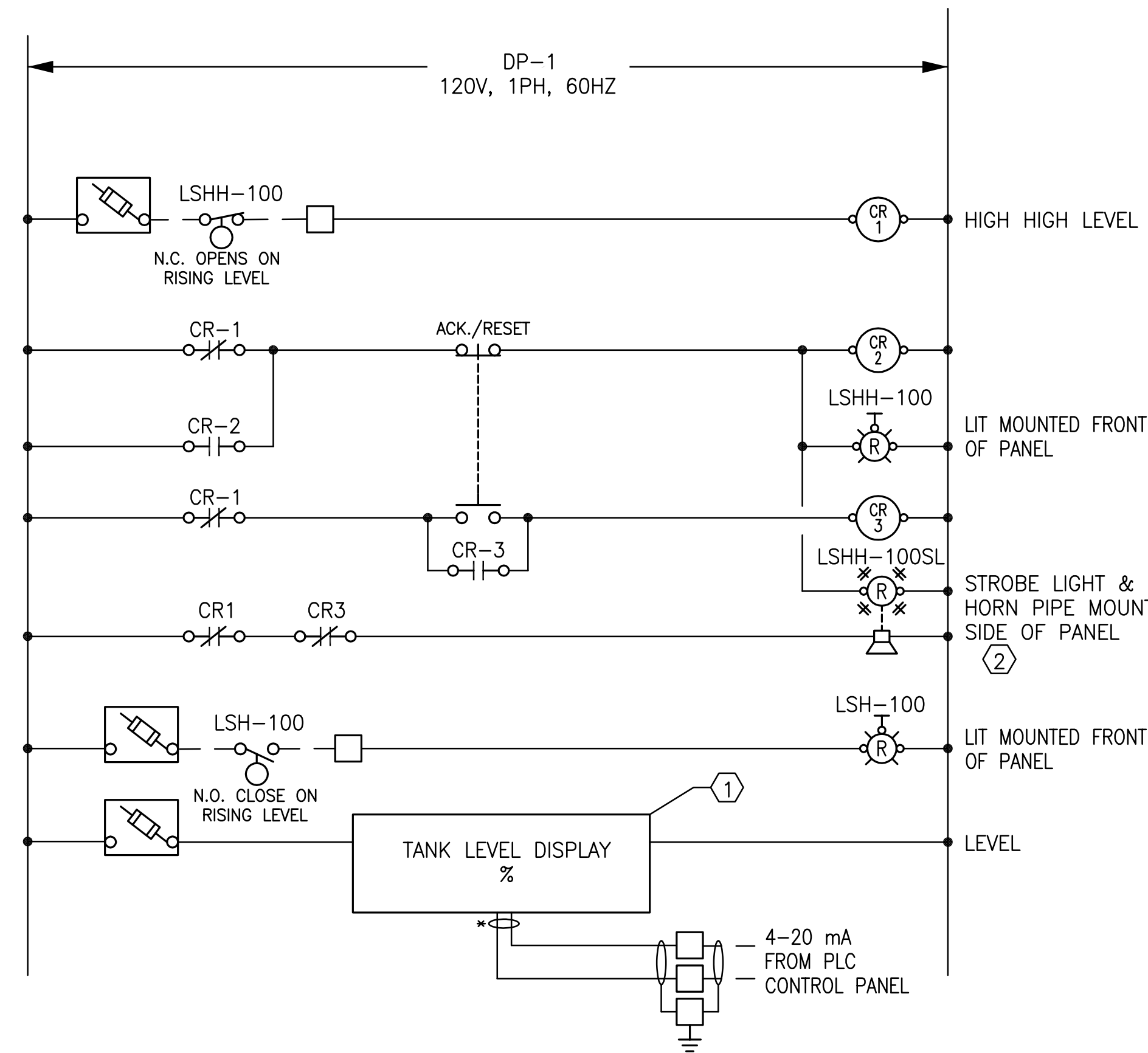
PROJECT NO.  
**E-10**

**MATERIAL LIST**

- ① LEVEL INDICATOR, PANEL MOUNT, % FILL, RED LION OR APPROVED SUBSTITUTE
- ② STROBE/HORN, FEDERAL AV1-LED OR APPROVED SUBSTITUTE

**NOTES:**

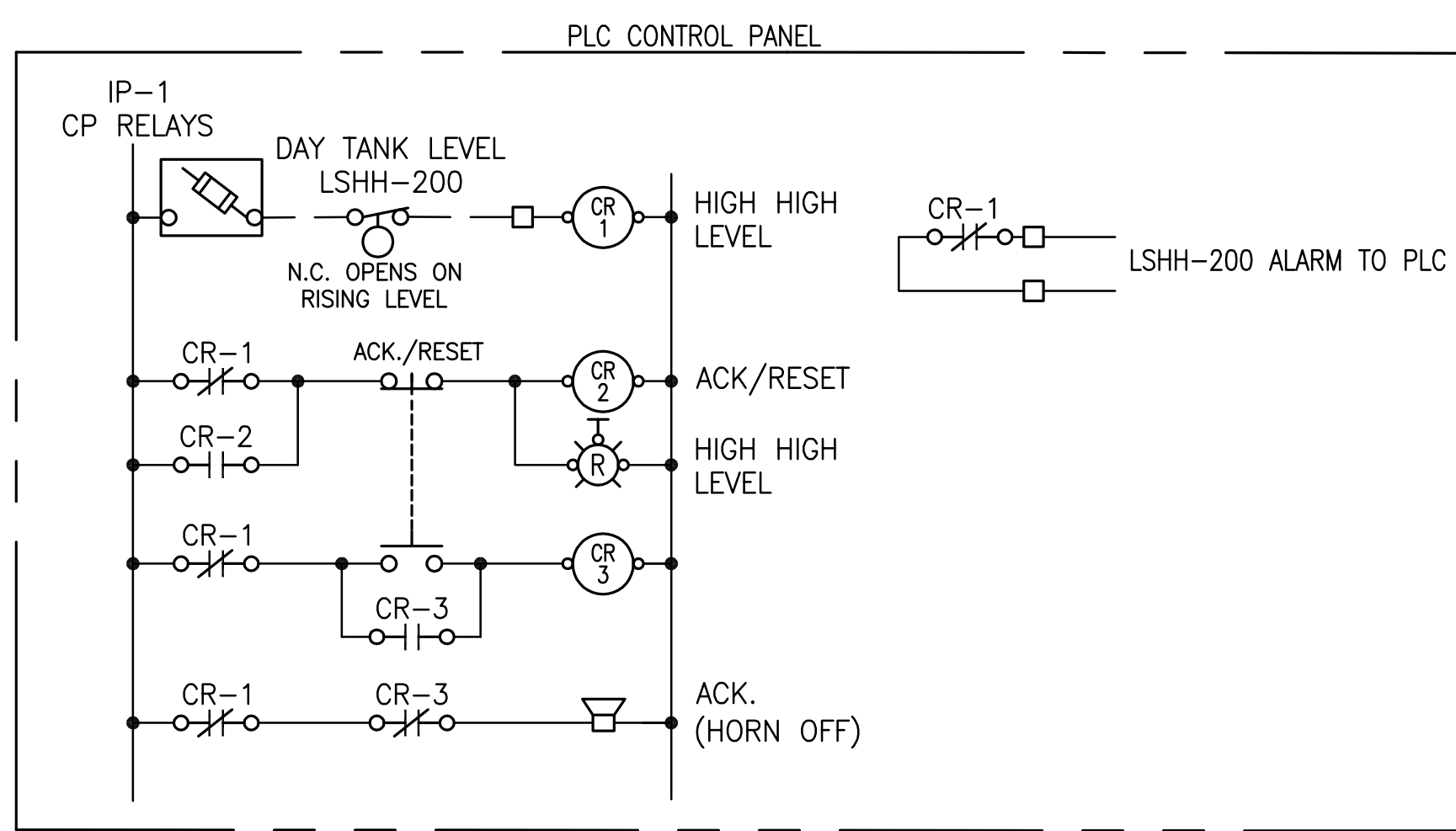
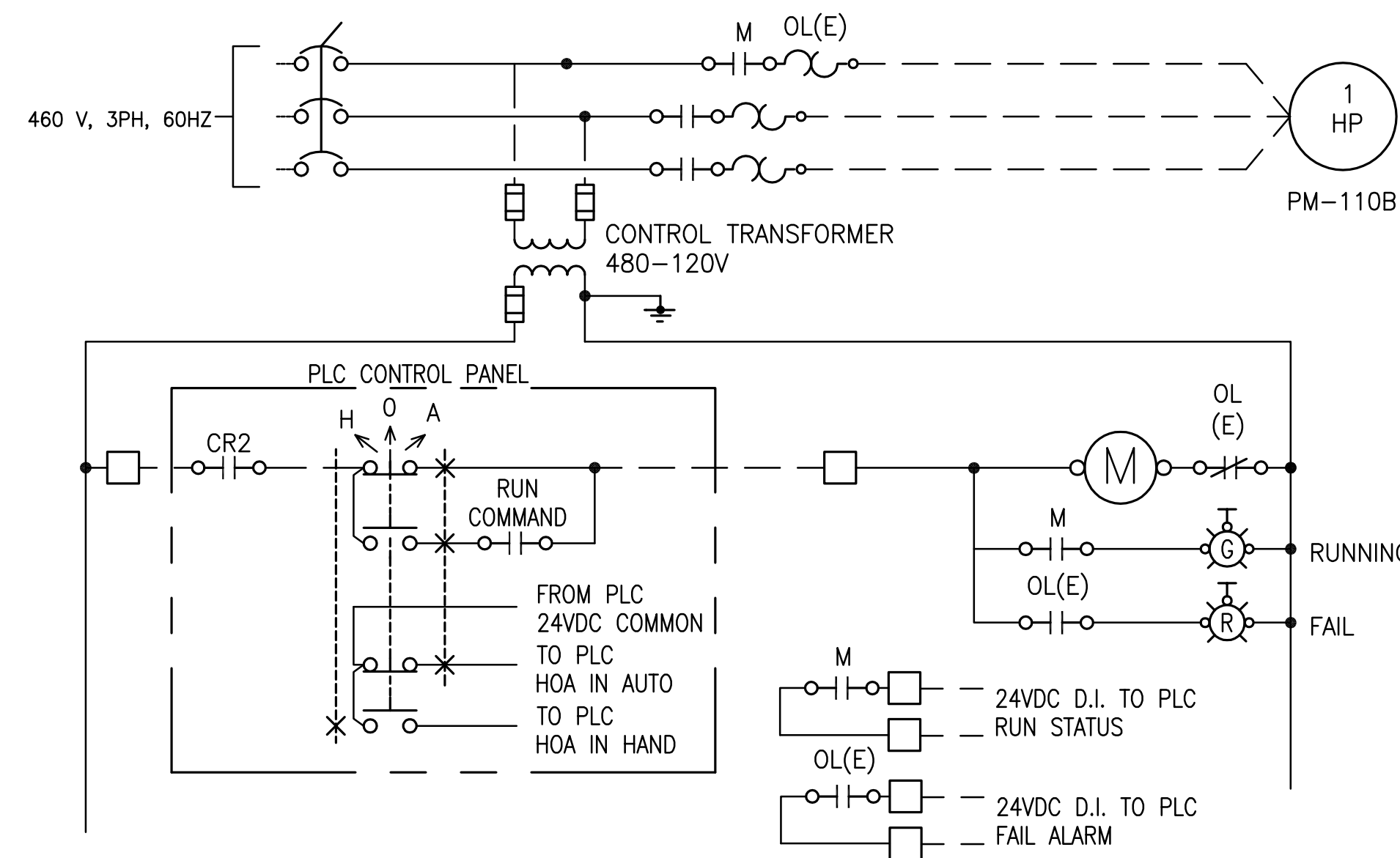
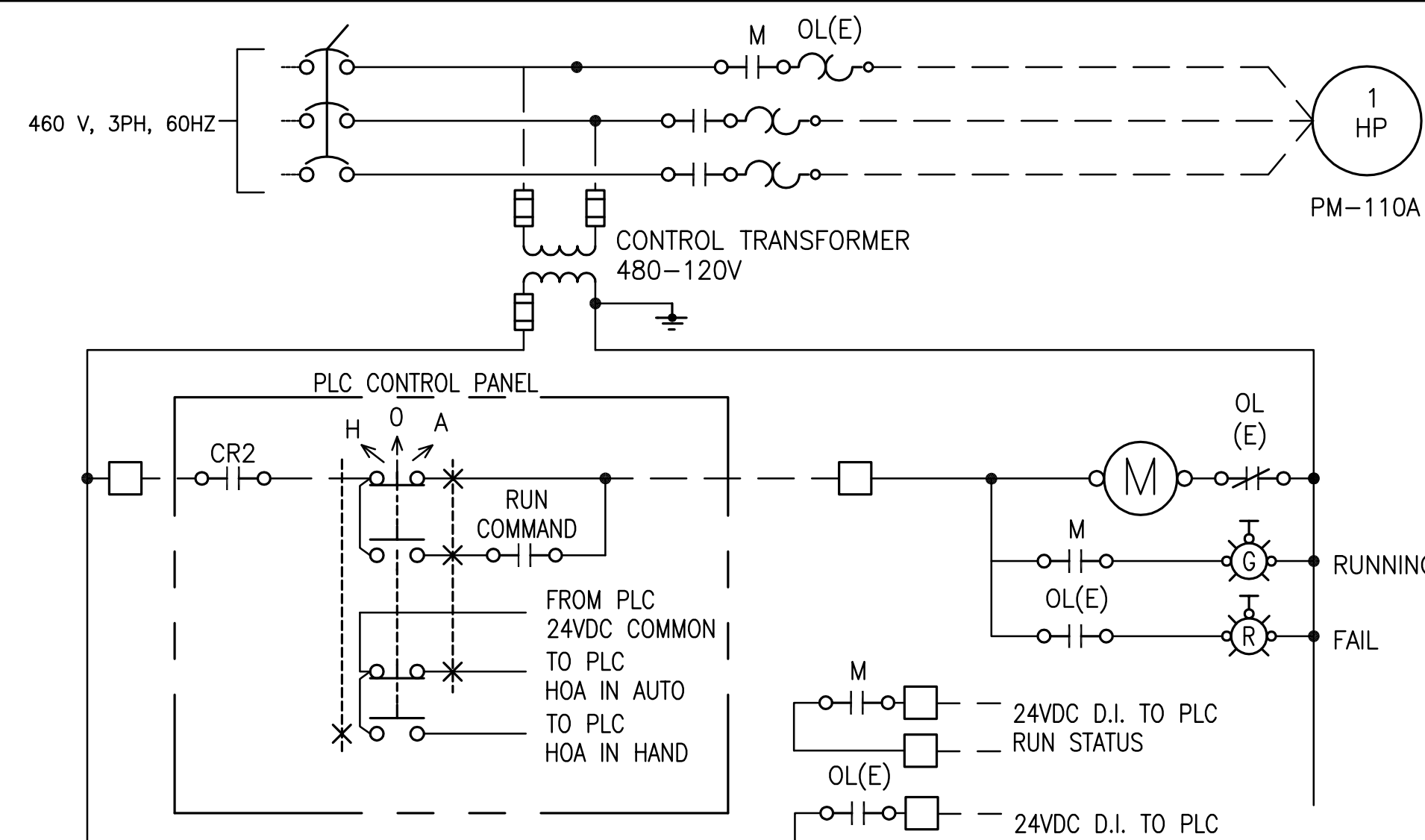
1. CONTRACTOR SHALL PROVIDE NEMA 4X STAINLESS STEEL, PADLOCKABLE ENCLOSURE SIZED TO FIT WALL LOCATION, TERMINALS, RELAYS, SWITCHES, LIGHTS AND LEVEL INDICATORS AS SHOWN BELOW WITH LABELS AND NAMEPLATES.
2. PROVIDE WHITE NAMEPLATE WITH BLACK 1/4" TEXT 'OPERATOR TO ENGAGE AIR COMPRESSOR VALVE PRIOR TO FILL' 'SWITCH LOCATED AT PLC CONTROL PANEL'



□ MCC CUSTOMER FIELD WIRING TERMINAL

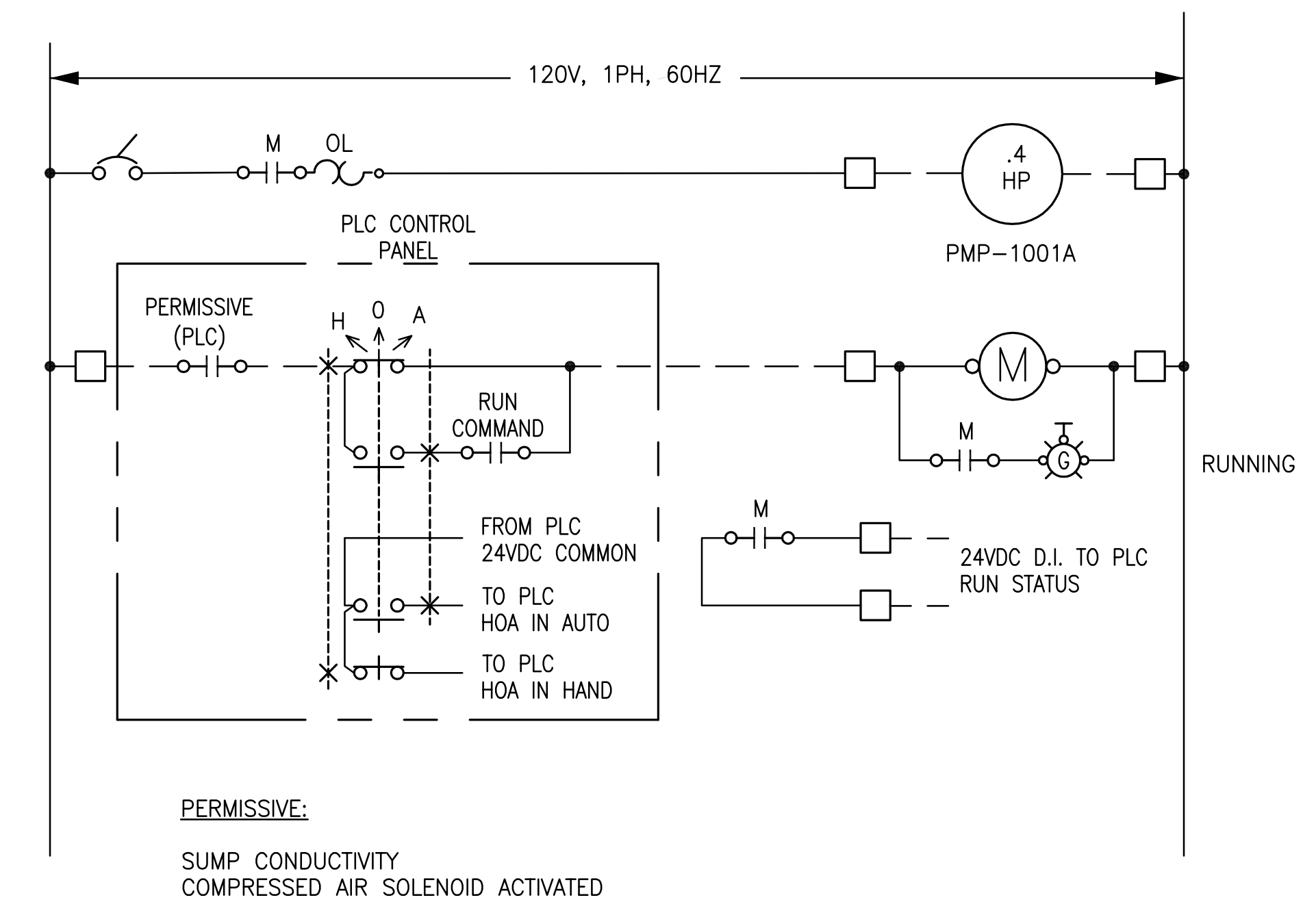
**1 LCP-100 NaOCl<sub>2</sub> FILL STATION PANEL**

LCP-300 & LCP-600 SIMILAR  
PUMPS ALTERNATE IN AUTO MODE  
NOTE: SIZE FUSES PER MANUFACTURERS RECOMMENDATIONS



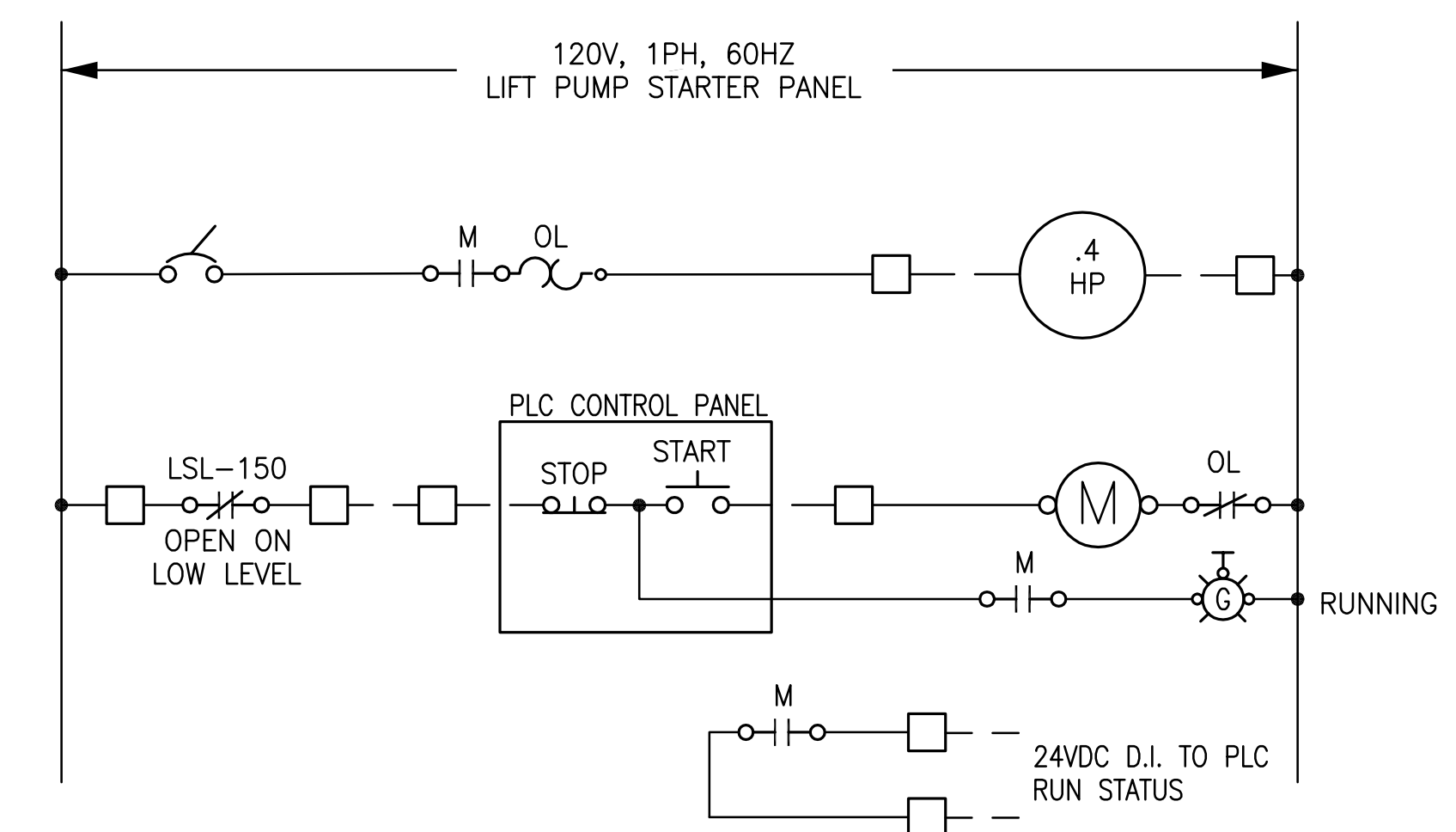
**2 PMP-110A CHEMICAL TRANSFER PUMP ELEMENTARY SCHEMATIC**

P-310A & B, P-710A & B SIMILAR  
PUMPS A & B ALTERNATE



**3 PMP-1000A TRUCK UNLOADING SUMP LIFT PUMP ELEMENTARY SCHEMATIC**

PMP-1000B SIMILAR  
PUMPS ALTERNATE IN AUTO MODE



**4 PMP-150 SUMP LIFT PUMP ELEMENTARY SCHEMATIC**

PMP-350 & PMP-650 SIMILAR

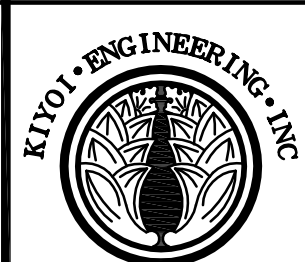
REV	DATE	BY	DESCRIPTION
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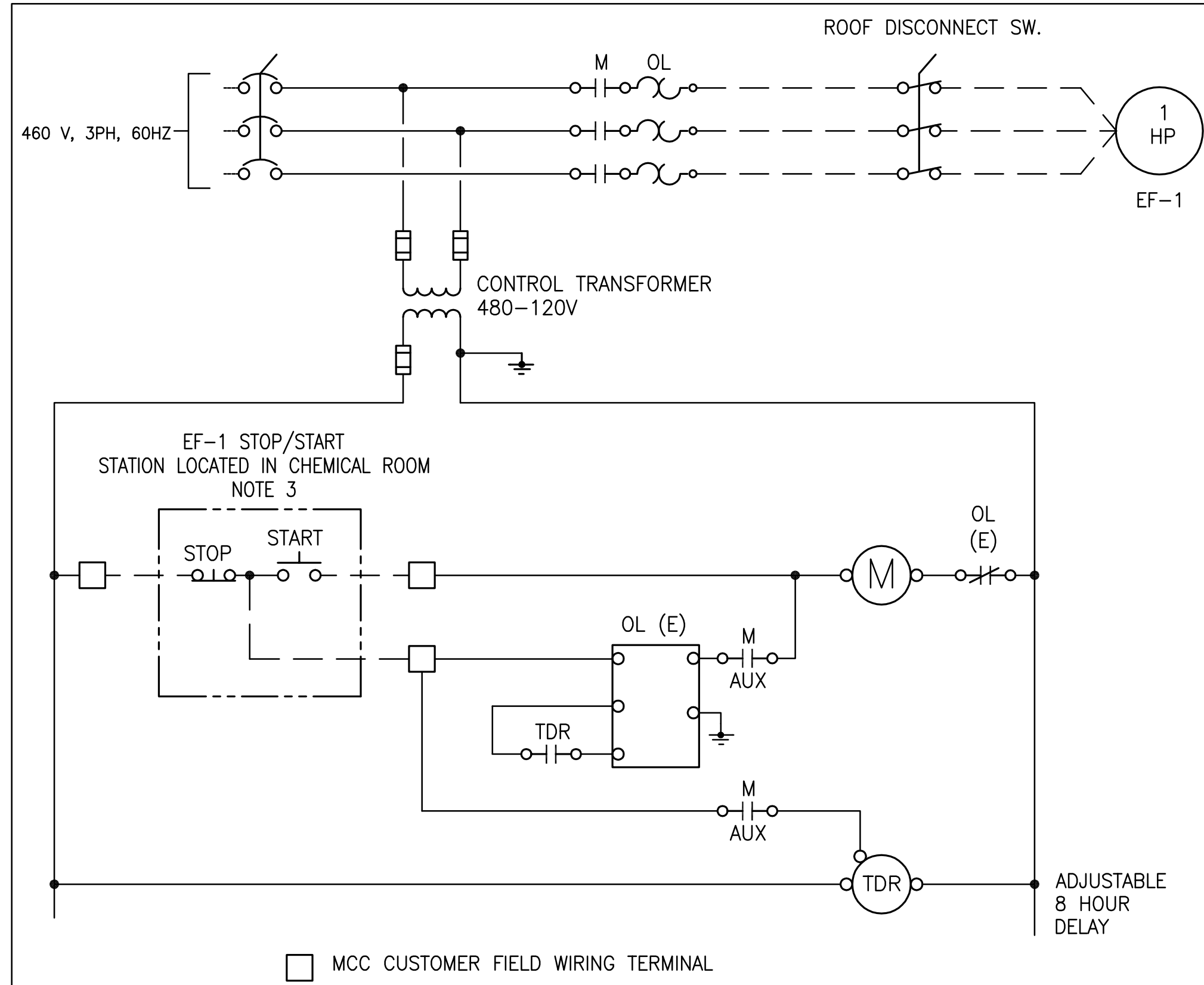


**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

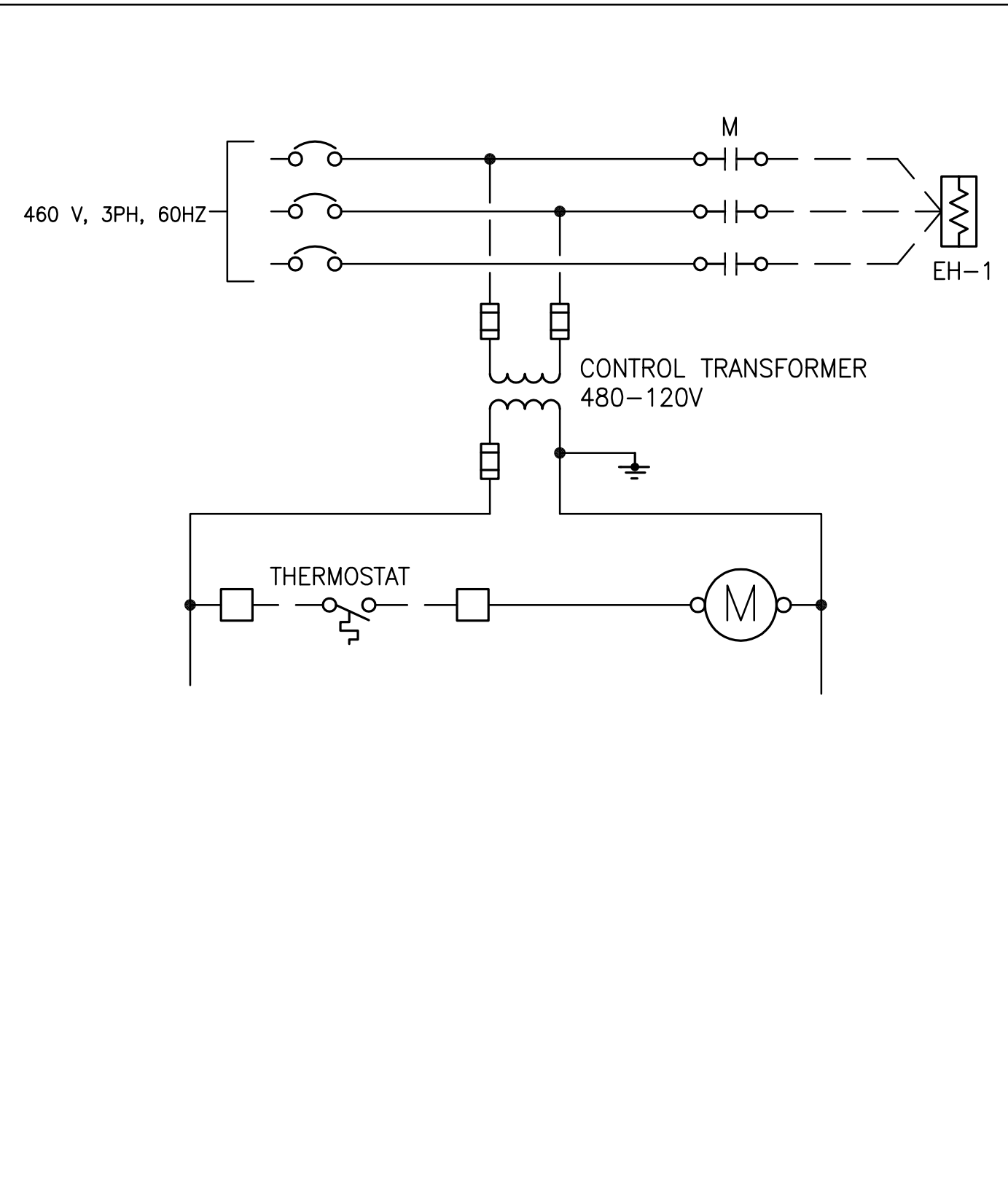
**CONTROL ELEMENTARY SCHEMATICS-1**  
SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.

**E-11**



**1** EF-1 CHEMICAL ROOM EXHAUST FAN  
EF-2 & EF-3 SIMILAR



**2** EH-1 CHEMICAL ROOM HEATER ELEMENTARY SCHEMATIC  
EH-2 & EH-3 SIMILAR  
MCC CUSTOMER FIELD WIRING TERMINAL

REV	DATE	BY	DESCRIPTION
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KEI PROJECT - 22020

**PUEBLO water resources**  
Pueblo Water Resources  
4478 Market St., Suite 705  
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**CONTROL ELEMENTARY SCHEMATICS-2**  
SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**E-12**

INSTRUMENT LETTER IDENTIFICATION TABLE			PIPING SYMBOLS				PUMP SYMBOLS		VALVE SYMBOLS		CONTROL VALVE SYMBOLS		LINE & SIGNAL DESIGNATORS	
FIRST LETTER MEASURED OR INITIATING VARIABLE	SUCCEEDING LETTER, MODIFIER READOUT OR INPUT FUNCTION	SUFFIX LETTER FOR DISCRETE FUNCTION (OUTSIDE BALLOON)												
A	ANALYSIS	ALARM												
B	BURNER, COMBUSTION													
C	CONDUCTIVITY (ELECTRICAL)	CONTROL (LER)												
D	DENSITY (MASS) /DAMPER	DIFFERENTIAL/DEVIATION												
E	VOLTAGE	SENSOR, PRIMARY ELEMENT												
F	FLOW RATE	RATIO/BIAS												
G	GAGING (DIMENSIONAL)	GLASS												
H	HAND	HIGH												
I	CURRENT (ELECTRICAL)	INDICATE (OR), (ING)												
J	POWER	SCAN (NCK)												
K	TIME													
L	LEVEL	LIGHT/LOW												
M	MOISTURE OR HUMIDITY													
N	USER'S CHOICE													
O	VIDEO	OPERATOR, ORIFICE												
P	PRESSURE, VACUUM	POINT (TEST)												
Q	QUANTITY, TORQUE	TOTALIZE												
R		RECORD (ER)												
S	SPEED/FREQUENCY	SAFETY/SWITCH												
T	TEMPERATURE	TRANSMITTER												
U	MULTI-POINT/VARIABLE													
V	VIBRATION	VALVE												
W	WEIGHT	WELL												
X	SPECIAL EQUIPMENT COMMAND													
Y	EVENT, STATE, COMPUTER CONTROL OUTPUT	RELAY, CONVERTER/SOLENOID												
Z	POSITION	DRIVER, ACTUATOR, FINAL CONTROL DEVICE												

**INSTRUMENT TAG**

**NOTES FOR TABLE**

- ANY UNASSIGNED LETTER IS DEFINED AS A USER'S CHOICE LETTER WHICH IS INTENDED TO BE USED TO COVER A MEANING FOR A PARTICULAR PROJECT.
- "X" IS USED TO REPRESENT ANY "SPECIAL" FUNCTION OR VARIABLE AND MAY BE DEFINED AS FOLLOWS:

**SPECIAL FUNCTION OR VARIABLE**

CL2	CHLORINE
COND	CONDUCTIVITY
FLUO	FLUORIDE
HOA	HAND-OFF-AUTO
I/P	CURRENT TO PNEUMATIC
OC	OPEN-CLOSED
OO	ON-OFF (E.G. FOR LAMPS)
SS	START-STOP
TURB	TURBIDITY

INSTRUMENTATION NUMBERING		INSTRUMENT CONTROL SYMBOLS	
EXAMPLE: FIC-X-1 OR FIC-100-1			
FIC	-100		FIELD LOCATED INSTRUMENT
FIC	X		FRONT FACE MAJOR CONTROL ROOM PANEL CONSOLE MOUNTED
	LOOP NO.		INSIDE MAJOR CONTROL ROOM PANEL CONSOLE MOUNTED
	000-099		FRONT FACE FIELD LOCAL CONTROL PANEL MOUNTED (OPERATOR ACCESSIBLE)
	100-199		LOCAL ON-OFF INDICATING LAMPS
	200-299		REMOTE ON-OFF INDICATING LAMPS
	300-399		STROBE LIGHT
	400-499		
	500-599		
	600-699		
	700-799		
	800-899		
	900-999		
	1000-1099		
	2100-2199		

DCS/PLC CONTROL SYMBOLS	
	INDICATES RTU LOOP NUMBER IF DIFFERENT FROM INSTRUMENT LOOP NUMBER
	BACKUP CONTROL AND DISPLAY TO CONFIGURABLE CONTROL SYSTEM
	CONFIGURABLE CONTROL SYSTEM ACCESSIBLE TO OPERATOR
	CONFIGURABLE CONTROL SYSTEM NOT ACCESSIBLE TO OPERATOR
	NORMALLY ACCESSIBLE TO OPERATOR AS PACKAGED PROGRAMMABLE LOGIC CONTROLLER (PLC) OR DIGITAL LOGIC CONTROL INTEGRAL TO CONTROL SYSTEM
	NORMALLY NOT ACCESSIBLE TO OPERATOR AS PACKAGED PROGRAMMABLE LOGIC CONTROLLER (PLC) OR DIGITAL LOGIC CONTROL INTEGRAL TO CONTROL SYSTEM
	MICROWAVE SYSTEM

RTU / COMPUTER SYMBOLS	
	NORMALLY ACCESSIBLE TO OPERATOR AS INDICATOR/CONTROLLER/RECORDER OR ALARM POINT (REMOTE LOCATION)
	NORMALLY ACCESSIBLE TO OPERATOR AS INDICATOR/CONTROLLER/RECORDER OR ALARM POINT (PRIMARY LOCATION)
	NORMALLY NOT ACCESSIBLE (FIELD MOUNTED) TO OPERATOR OR AS a. INPUT/OUTPUT INTERFACE b. COMPUTATION/SIGNAL CONDITIONING WITHIN THE COMPUTER c. BLIND CONTROLLER OR SOFTWARE CALCULATION MODULE

ABBREVIATIONS			
ACC	ACCUMULATOR	WSS	WASTE WATER SYSTEM
AI	ANALOG INPUT	SC	SAMPLE COCK
AO	ANALOG OUTPUT	SP	SUMP PUMP
A/V	AIR / VACUUM	SS	START-STOP
DI	DIGITAL INPUT	VFD	VARIABLE SPEED DRIVE
DO	DIGITAL OUTPUT		
QMS	QUALITY MONITORING SYSTEM		
DR	DRAIN		
FC	FAIL CLOSED		
FO	FAIL OPEN		
FCP	FILTER CONTROL PANEL		
FWS	FILTERED WATER SYSTEM		
LCP	LOCAL CONTROL PANEL		
MOA	MANUAL - OFF - AUTO		
NC	NORMALLY CLOSE		
NO	NORMALLY OPEN		
OAC	OPEN - AUTO - CLOSE		
PB	PUSH BUTTON		
RWS	RAW WATER SYSTEM		
RWW	REWASH WATER		
SC	SAMPLE COCK		
SDS	SLUDGE REMOVAL SYSTEM		
TWS	TREATED WATER SYSTEM		
UWS	UTILITY WATER SYSTEM		
WCP	WELL CONTROL PANEL		

**NOTES:**

- NOT ALL SYMBOLS USED FOR THIS PROJECT.

PROCESS INDICATORS	
	INTERFACE TO OR FROM PROCESS NUMBER INDICATES DRAWING WHERE CONTINUED
	INTERFACE TO OR FROM PROCESS EXTERNAL TO PROJECT
	EQUIPMENT NUMBER/IDENTIFIER

LOGIC SYMBOLS	
	INTERLOCK SYMBOL WITH NUMBER TO DESCRIBE CONTROL STATEMENTS OR INTERLOCK FUNCTIONS ON THE P & I DIAGRAMS
	CONTROL OUTPUT IS EFFECTIVE IF ALL INPUTS EXIST (TRUE)
	CONTROL OUTPUT IS EFFECTIVE IF ONE OR MORE INPUT EXISTS
	CONTROL OUTPUT IS EFFECTIVE (TRUE) IF INPUT IS FALSE. OUTPUT IS FALSE IF INPUT IS TRUE.

MISCELLANEOUS SYMBOLS	
	VOICE COMMUNICATION POINT
	MAGNETIC FLOW METER
	HORN
	FLOW METER

REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

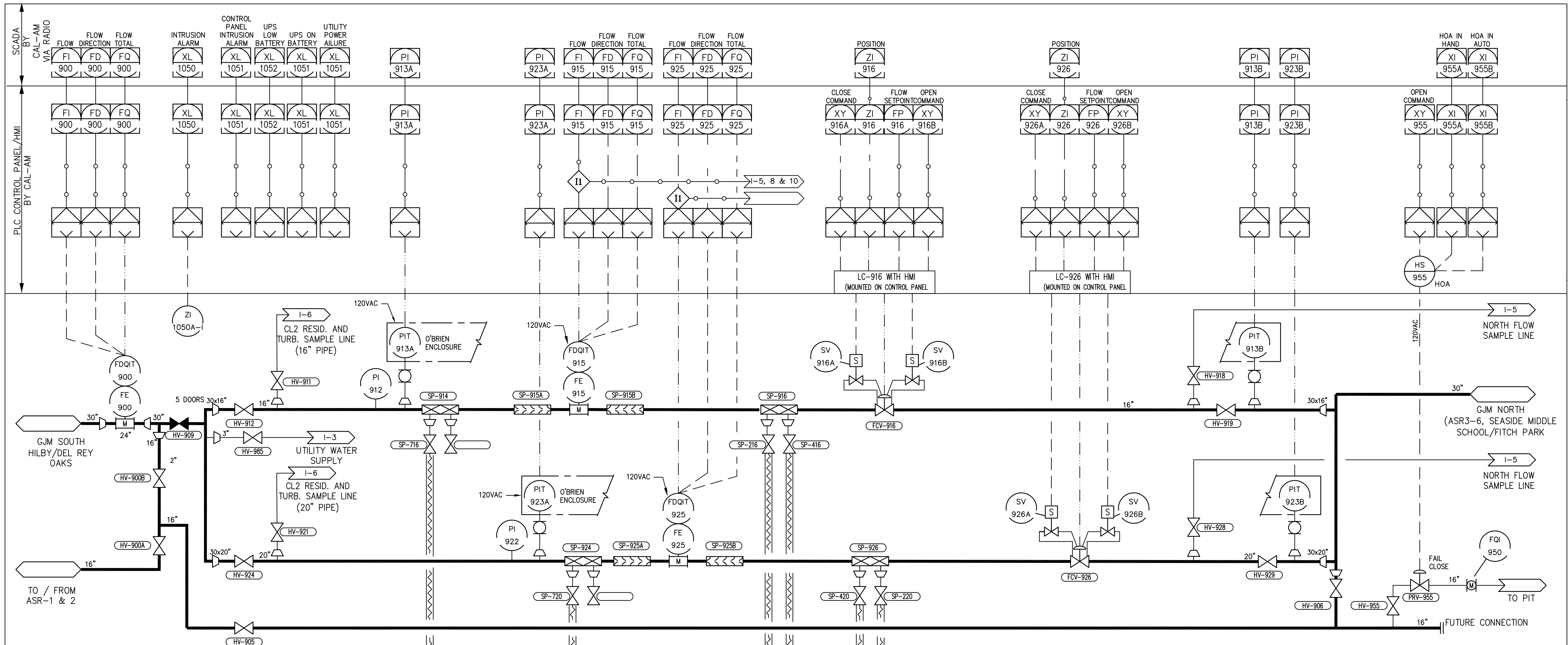
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WARNING	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE	
DESIGNED	SPT	
DRAWN	WNS	
CHECKED	SPT	

**PUEBLO water resources**

**Pueblo Water Resources**  
4478 Market St., Suite 705  
Ventura, CA 93003  
(805) 644-0470

UNAUTHORIZED CHANGES & USES CAUTION:  
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

**LEGENDS & SYMBOLS**  
**PIPING & INSTRUMENT DIAGRAM**  
SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT



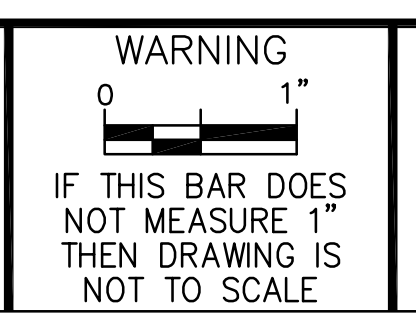
- INTERLOCKS:**
- I1** - NaOCl<sub>2</sub> CHEMICAL PUMPS WILL BE FLOW PACED BASED ON FDQIT-915 & FDQIT-925 WITH TRIM BASED ON CHLORINE ANALYZER AE-516 & AE-520.
  - I2** - ZOP CHEMICAL PUMPS WILL BE FLOW PACED BASED ON FDQIT-915 & FDQIT-925.
  - I3** - LOW DISCHARGE PRESSURE SHUTS DOWN CHEMICAL PUMPS
  - I4** - CHEMICAL TRANSFER PUMP WILL NOT OPERATE WHEN DAY STORAGE TANK LEVEL IS HIGH-HIGH.
  - I5** - TRUCK UNLOADING SUMP LIFT PUMPS  
 AUTO: START ON HIGH LEVEL AND STOP ON LOW LEVEL IN AUTO. HIGH CONDUCTIVITY OR ACTIVATED COMPRESSED AIR SOLENOID VALVE WILL NOT ALLOW THE PUMPS TO OPERATE  
 HAND: HIGH CONDUCTIVITY OR ACTIVATED COMPRESSED AIR SOLENOID VALVE WILL NOT ALLOW THE PUMPS TO OPERATE
  - I6** - SUMP LIFT PUMPS WILL NOT OPERATE IN AUTO IF CONDUCTIVITY IS NOT GREATER THAN XX MICRO OHMS.
  - I7** - CHEMICAL SUMP HIGH LEVEL WILL ALARM, THEN OPERATOR STARTS THE SUMP PUMP AT THE PLC CONTROL PANEL. THE SUMP PUMP WILL STOP AT LOW SUMP LEVEL.

- NOTES:**
1. SEE DRAWING I-1 FOR P&ID LEGEND & SYMBOLS.
  2. SEE DRAWING I-2 FOR CONTROL INTERLOCKS



REV	DATE	BY	DESCRIPTION
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SCALE:  
 HOR. 1"=1"  
 VER. 1"=1"



DESIGNED SPT  
 DRAWN WNS  
 CHECKED SPT

**PUEBLO** water resources  
**Pueblo Water Resources**  
 4478 Market St., Suite 705  
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 (805) 644-0470

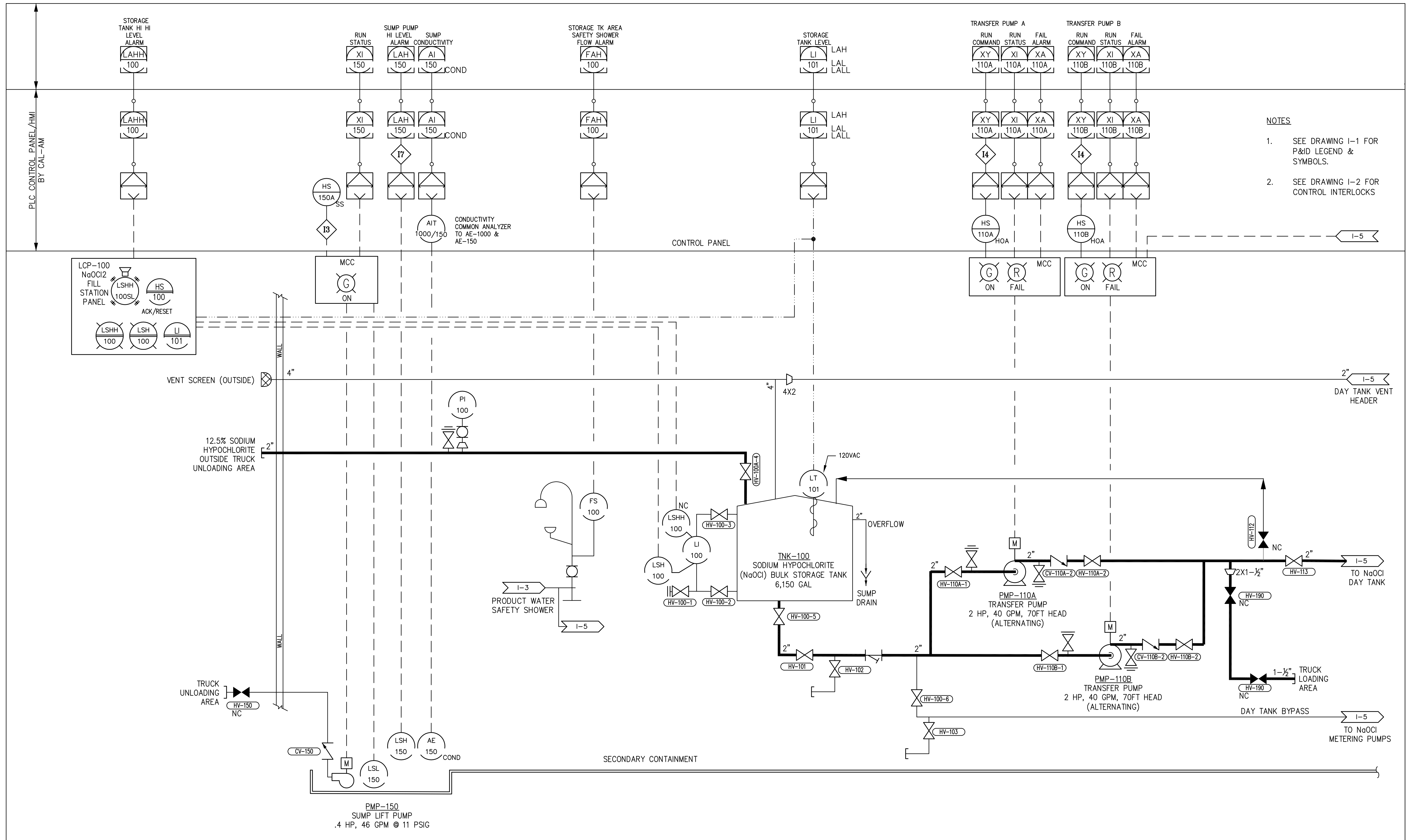
UNAUTHORIZED CHANGES & USES CAUTION:  
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**DISTRIBUTION PIPING & INSTRUMENT DIAGRAM**  
 SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
 MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**I-2**







- NOTES**
1. SEE DRAWING I-1 FOR P&ID LEGEND & SYMBOLS.
  2. SEE DRAWING I-2 FOR CONTROL INTERLOCKS

REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

SCALE:  
 HOR. 1"=1"  
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**WARNING**  
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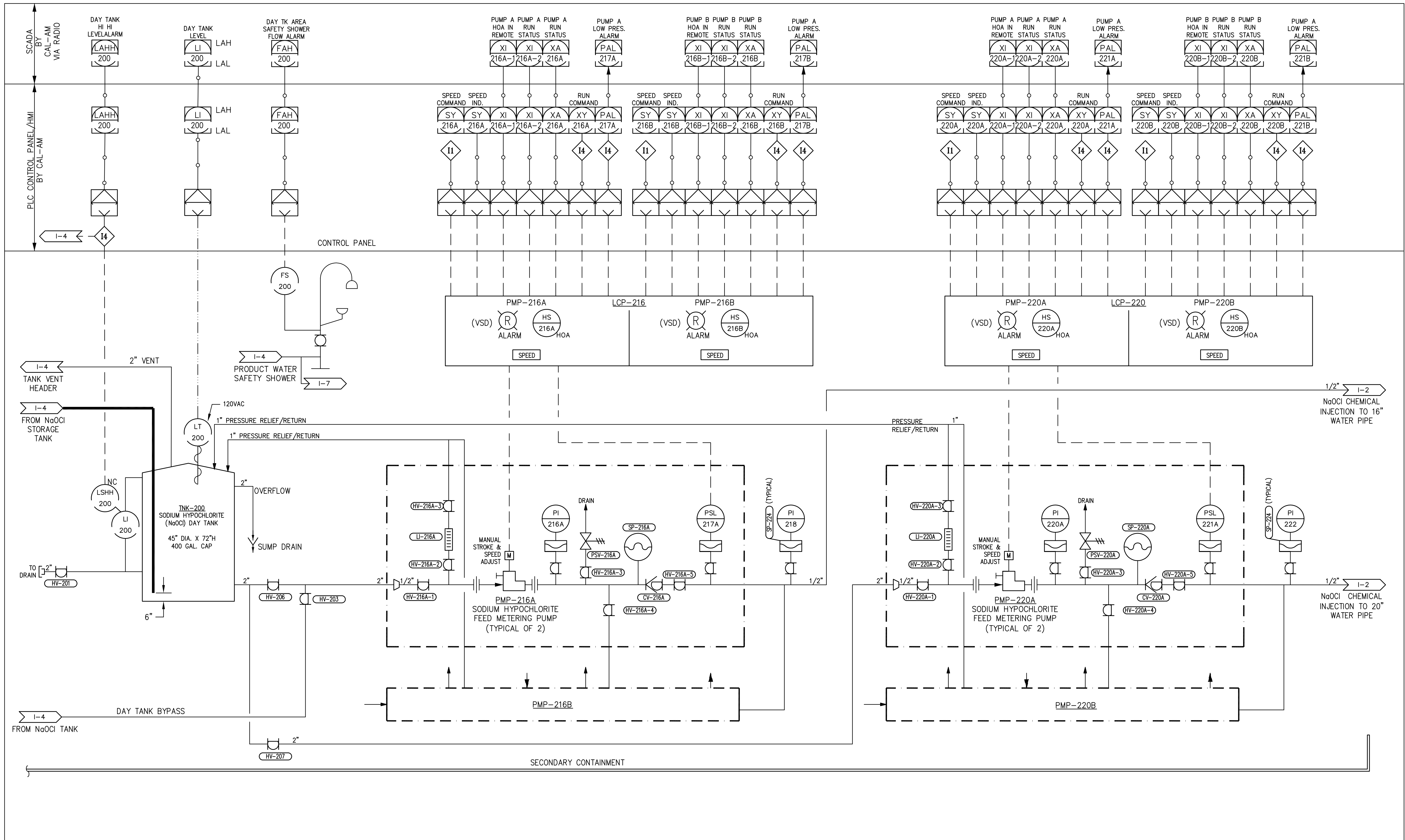
DESIGNED SPT  
 DRAWN WNS  
 CHECKED SPT

**PUEBLO water resources**  
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**SODIUM HYPOCHLORITE CHEMICAL STORAGE & TRANSFER PIPING & INSTRUMENT DIAGRAM**  
 SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
 MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**I-4**



REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

SCALE:  
 HOR. 1"=1'  
 VER. 1"=1'

WARNING  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED SPT  
 DRAWN WNS  
 CHECKED SPT

**PUEBLO**  
 water resources

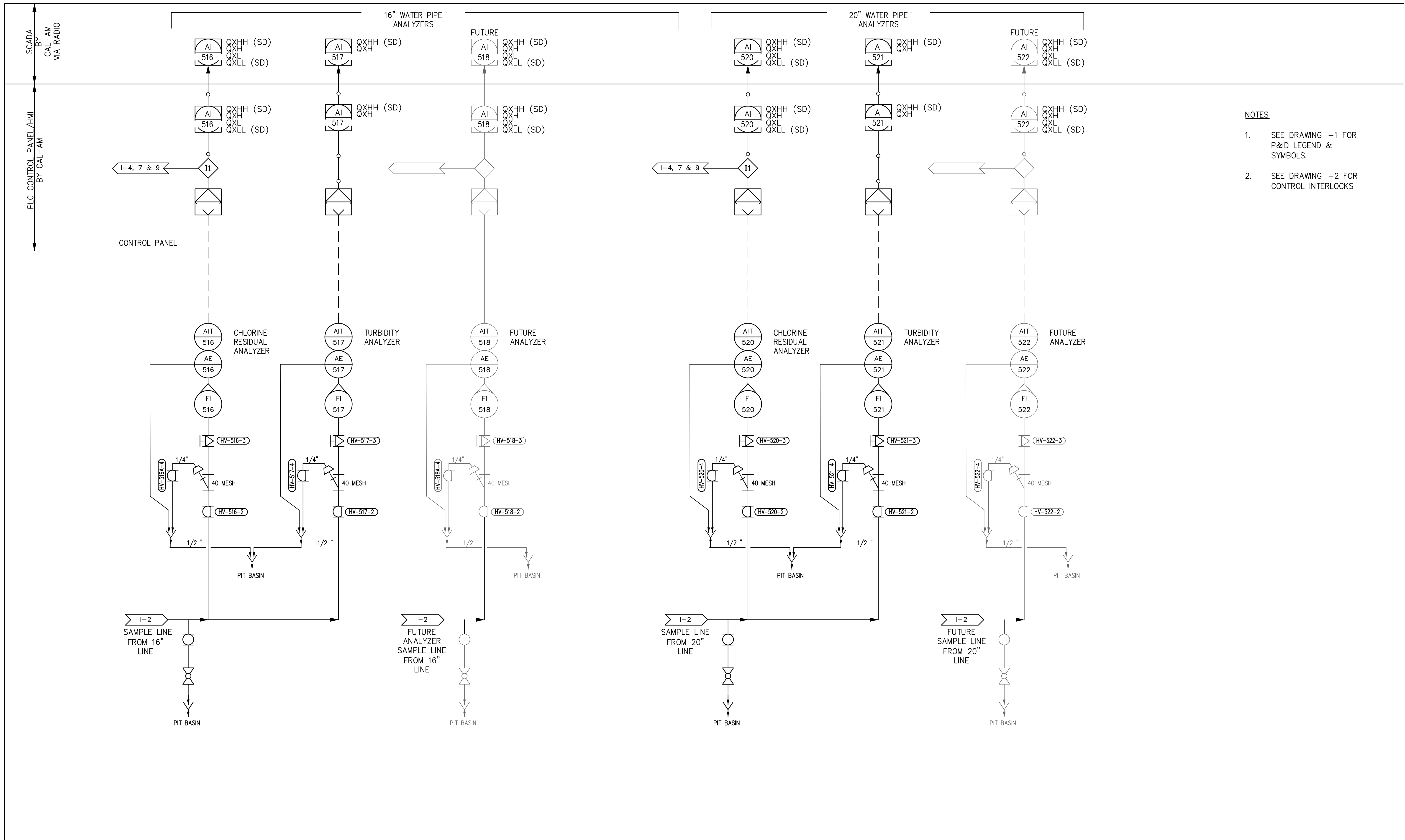
**Pueblo Water Resources**  
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 Ventura, CA 93003  
 (805) 644-0470

UNAUTHORIZED CHANGES & USES CAUTION:  
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**SODIUM HYPOCHLORITE CHEMICAL METERING SYSTEM  
 PIPING & INSTRUMENT DIAGRAM**

SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
 MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**I-5**



- NOTES**
1. SEE DRAWING I-1 FOR P&ID LEGEND & SYMBOLS.
  2. SEE DRAWING I-2 FOR CONTROL INTERLOCKS

REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

SCALE:  
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**WARNING**  
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED SPT  
 DRAWN WNS  
 CHECKED SPT

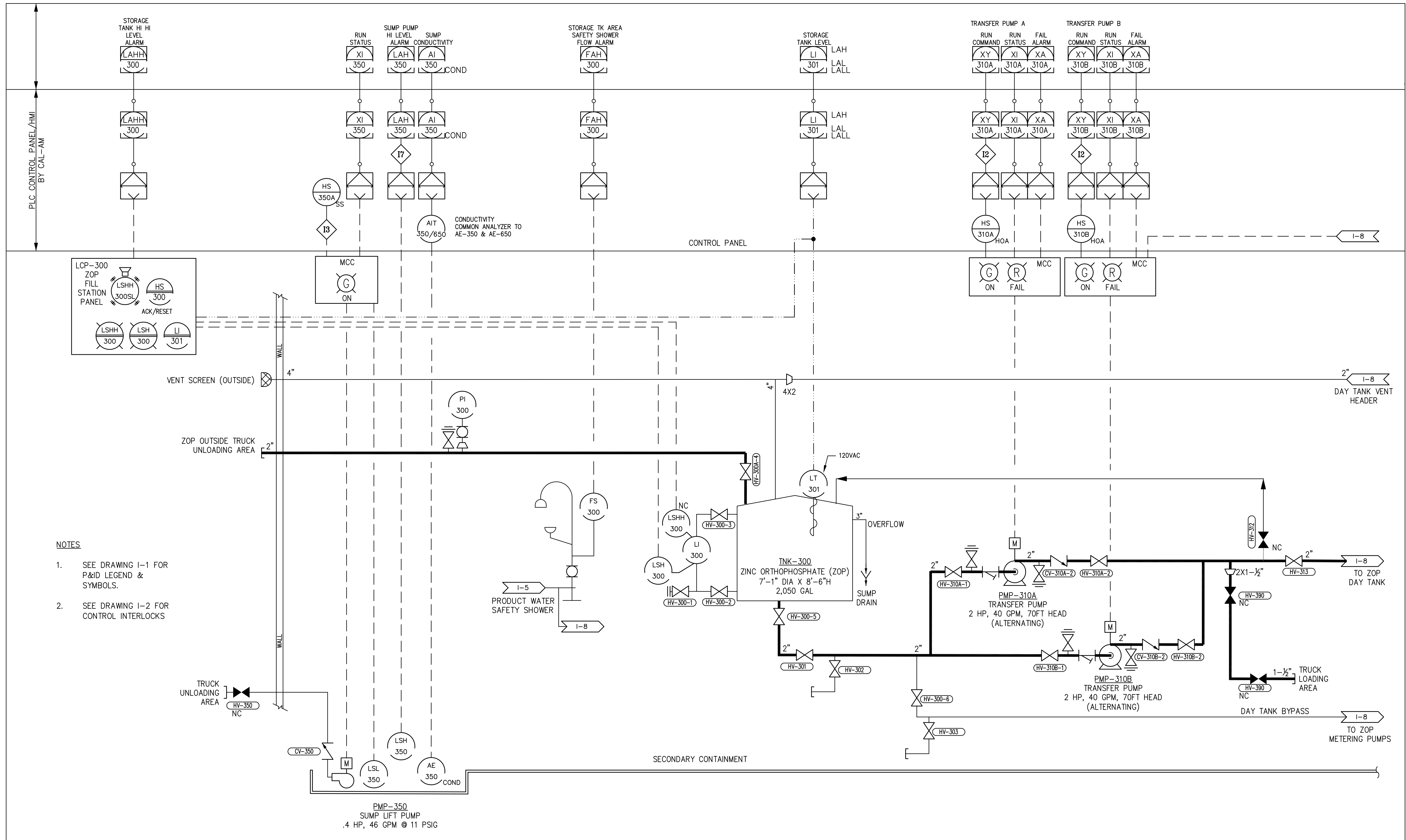
**PUEBLO**  
**water resources**  
**Pueblo Water Resources**  
 4478 Market St., Suite 705  
 Ventura, CA 93003  
 (805) 644-0470

UNAUTHORIZED CHANGES & USES CAUTION:  
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**ANALYZERS  
 PIPING & INSTRUMENT DIAGRAM**

SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
 MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**I-6**



- NOTES**
- SEE DRAWING I-1 FOR P&ID LEGEND & SYMBOLS.
  - SEE DRAWING I-2 FOR CONTROL INTERLOCKS

REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

SCALE:  
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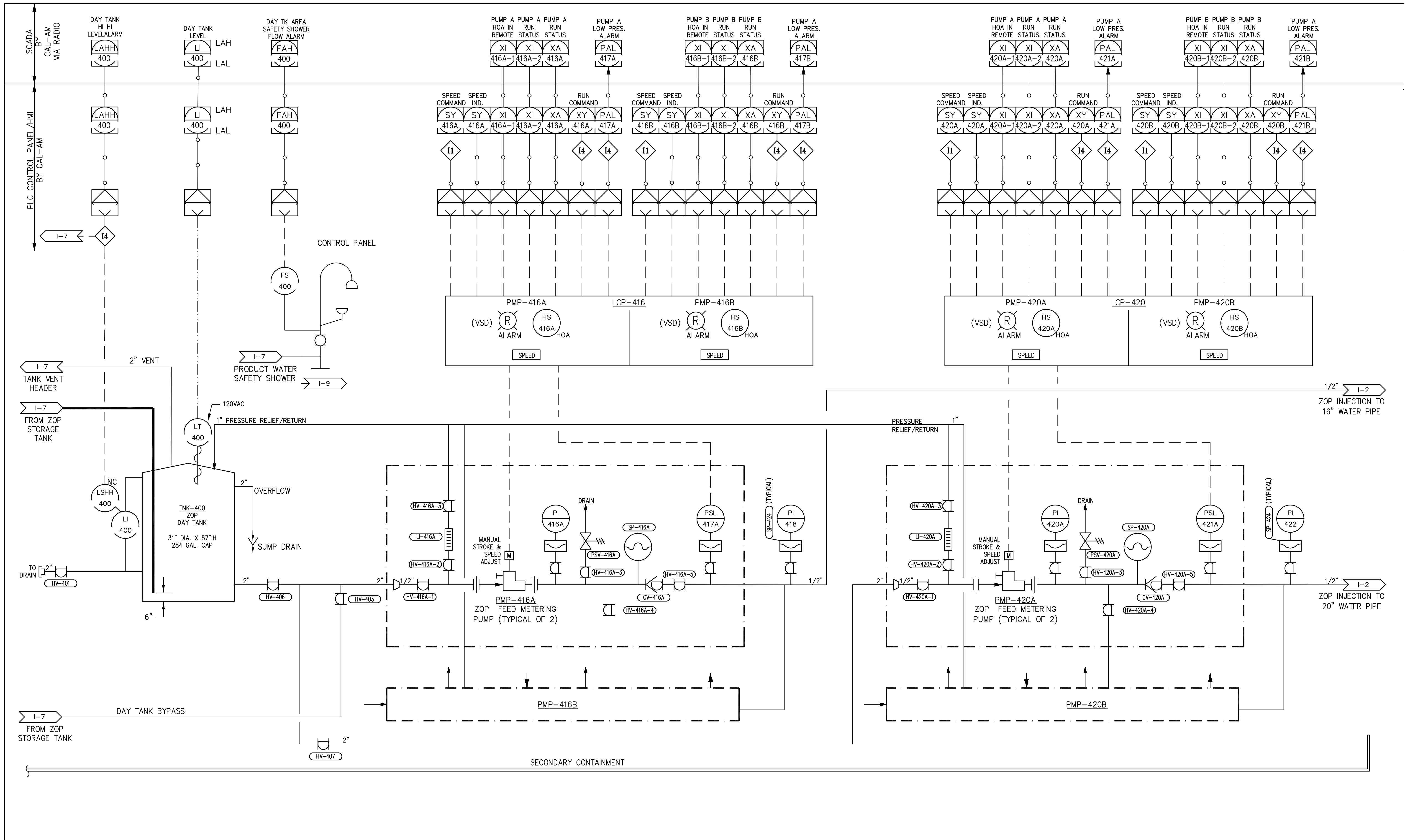
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**PUEBLO**  
**water resources**  
**Pueblo Water Resources**  
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**ZINC ORTHOPHOSPHATE CHEMICAL STORAGE & TRANSFER  
 PIPING & INSTRUMENT DIAGRAM**  
 SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
 MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**I-7**



REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

SCALE:  
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 VER. 1"=1"

WARNING  
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DESIGNED SPT  
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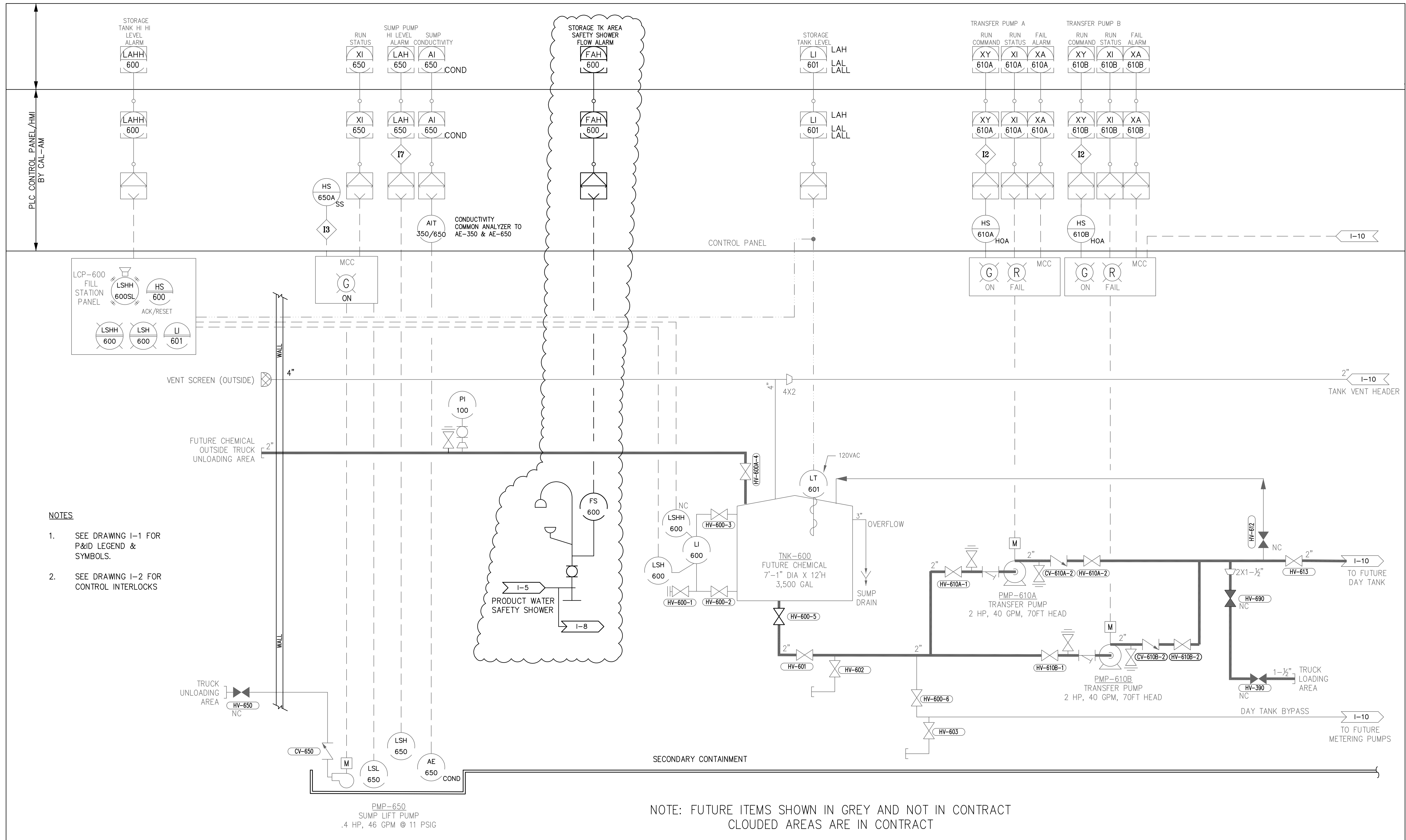
**PUEBLO**  
 water resources

**Pueblo Water Resources**  
 4478 Market St., Suite 705  
 Ventura, CA 93003  
 (805) 644-0470

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ZINC ORTHOPHOSPHATE CHEMICAL METERING SYSTEM  
 PIPING & INSTRUMENT DIAGRAM  
 SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
 MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**I-8**

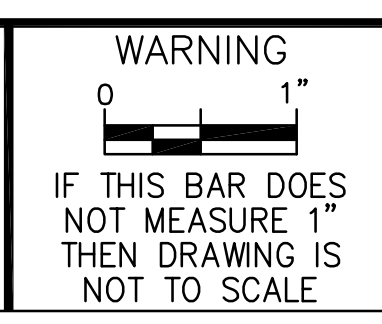


**NOTES**

- SEE DRAWING I-1 FOR P&ID LEGEND & SYMBOLS.
- SEE DRAWING I-2 FOR CONTROL INTERLOCKS

REV	DATE	BY	DESCRIPTION
0	8/5/19	SPT	ISSUE FOR BID

SCALE:  
HOR. 1"=1"  
VER. 1"=1"



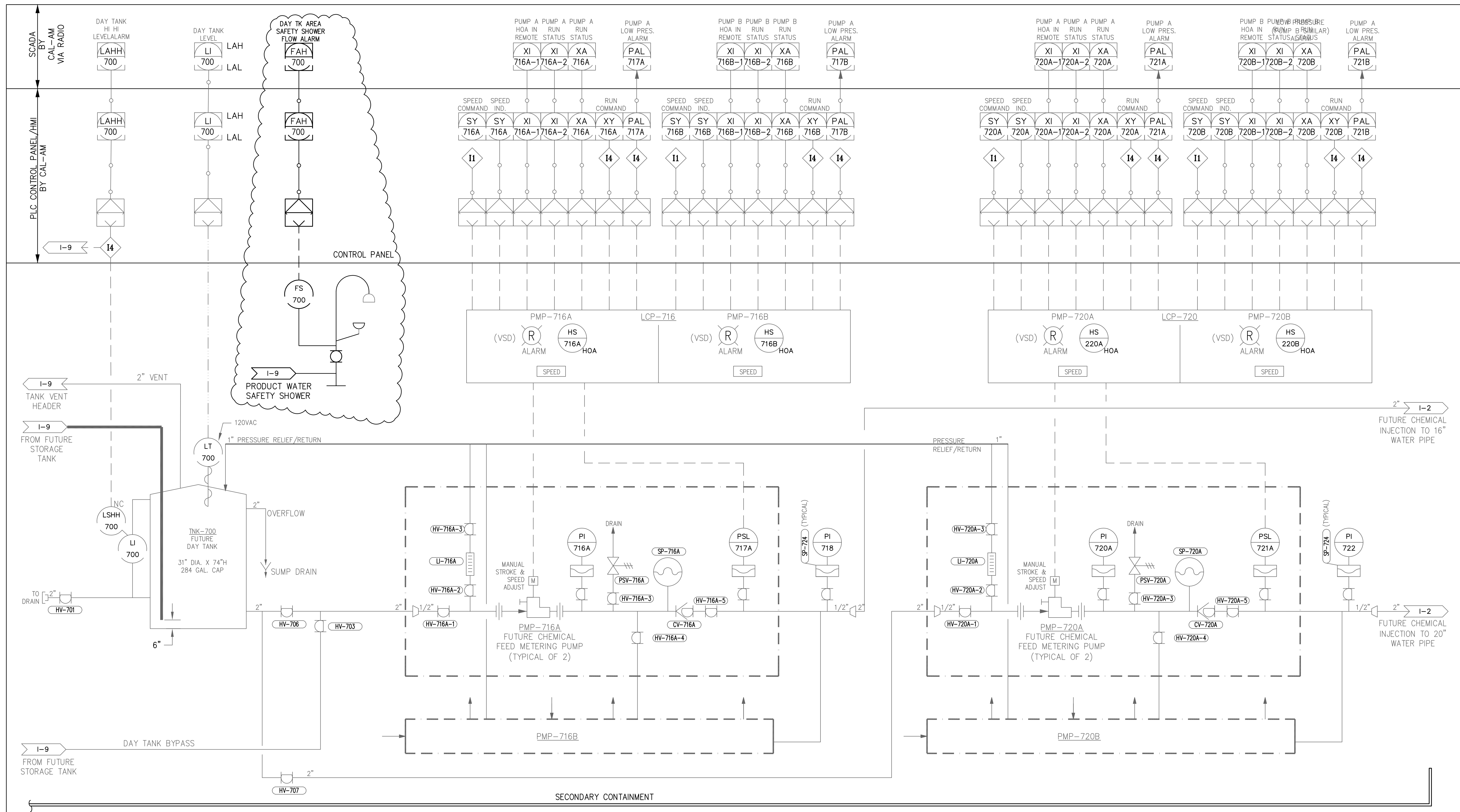
DESIGNED SPT  
DRAWN WNS  
CHECKED SPT

**PUEBLO water resources**  
**Pueblo Water Resources**  
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FUTURE CHEMICAL STORAGE & TRANSFER  
 PIPING & INSTRUMENT DIAGRAM  
 SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING  
 MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

PROJECT NO.  
**I-9**



NOTE: FUTURE ITEMS SHOWN IN GREY AND NOT IN CONTRACT  
 CLOUDED AREAS ARE IN CONTRACT

<table border="1"> <tr> <td>0</td> <td>8/5/19</td> <td>SPT</td> <td>ISSUE FOR BID</td> </tr> <tr> <td>REV</td> <td>DATE</td> <td>BY</td> <td>DESCRIPTION</td> </tr> </table>		0	8/5/19	SPT	ISSUE FOR BID	REV	DATE	BY	DESCRIPTION	SCALE: HOR. 1"=1" VER. 1"=1"	WARNING 	DESIGNED SPT DRAWN WNS CHECKED SPT	<b>Pueblo Water Resources</b> 4478 Market St., Suite 705 Ventura, CA 93003 (805) 644-0470	UNAUTHORIZED CHANGES & USES CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.	FUTURE CHEMICAL METERING SYSTEM PIPING & INSTRUMENT DIAGRAM SANTA MARGARITA ASR FACILITY CHLORINATION BUILDING MONTEREY PENINSULA WATER MANAGEMENT DISTRICT	PROJECT NO. <b>I-10</b>
0	8/5/19	SPT	ISSUE FOR BID													
REV	DATE	BY	DESCRIPTION													