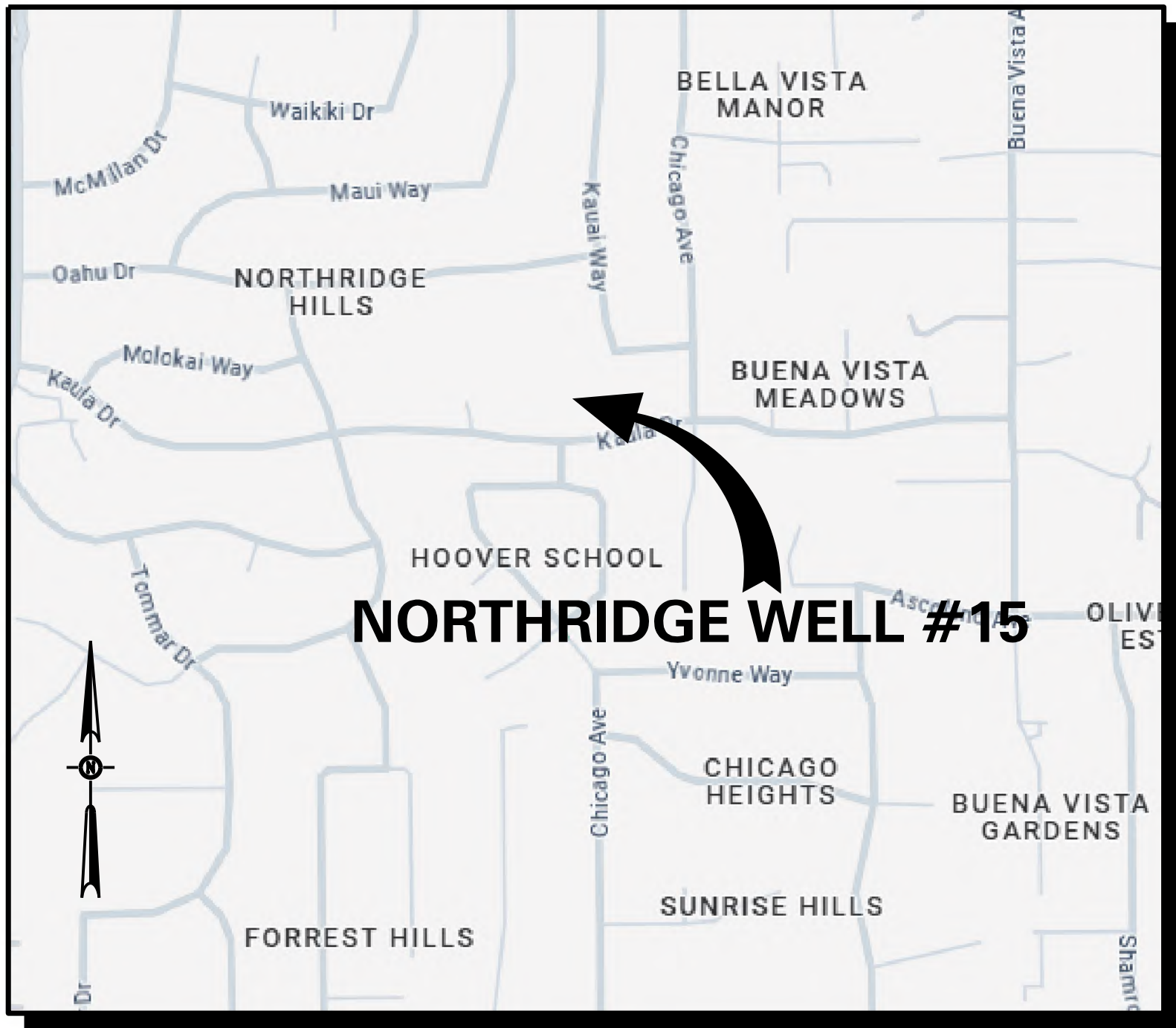
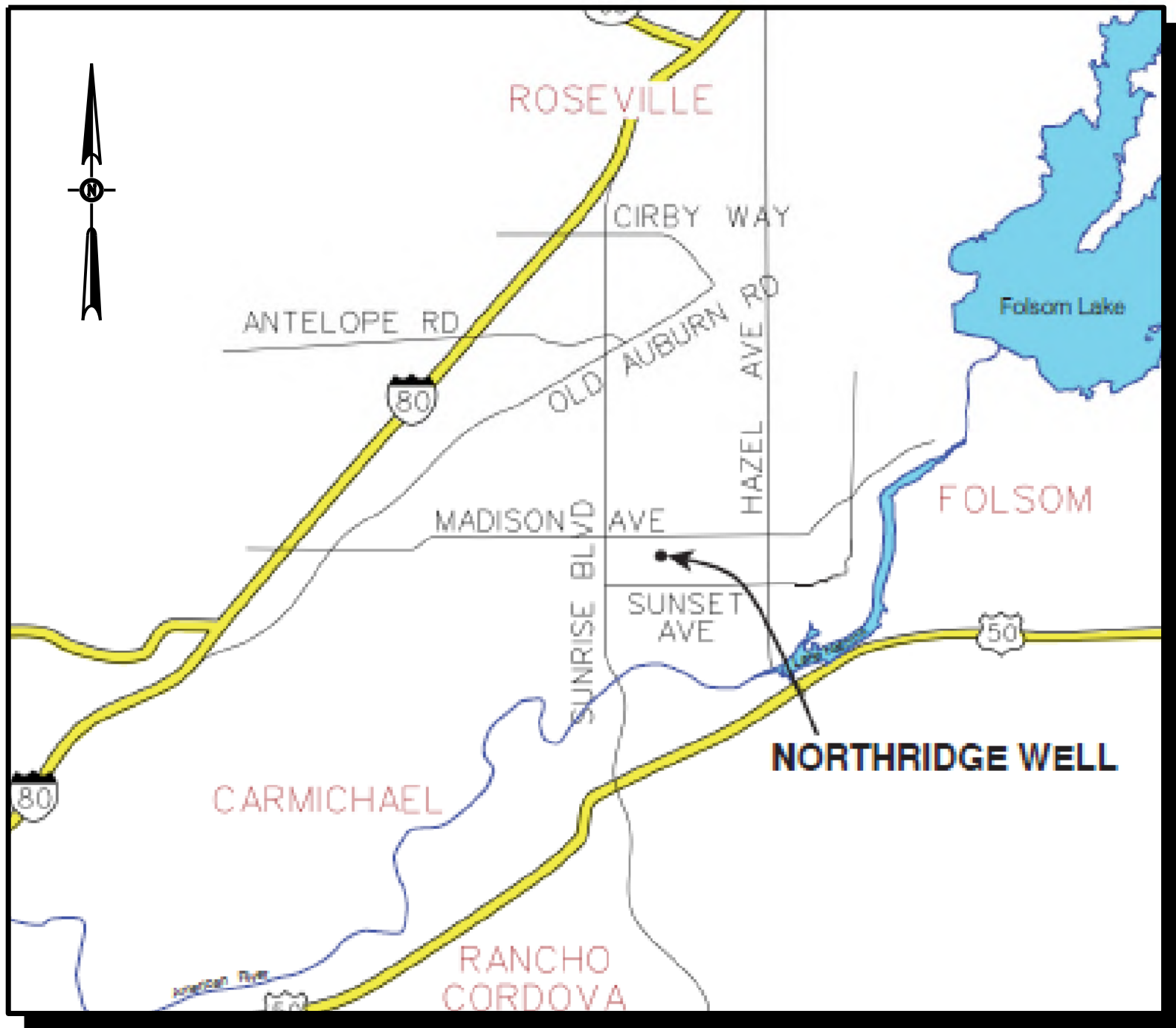


FAIR OAKS WATER DISTRICT
FAIR OAKS, CALIFORNIA

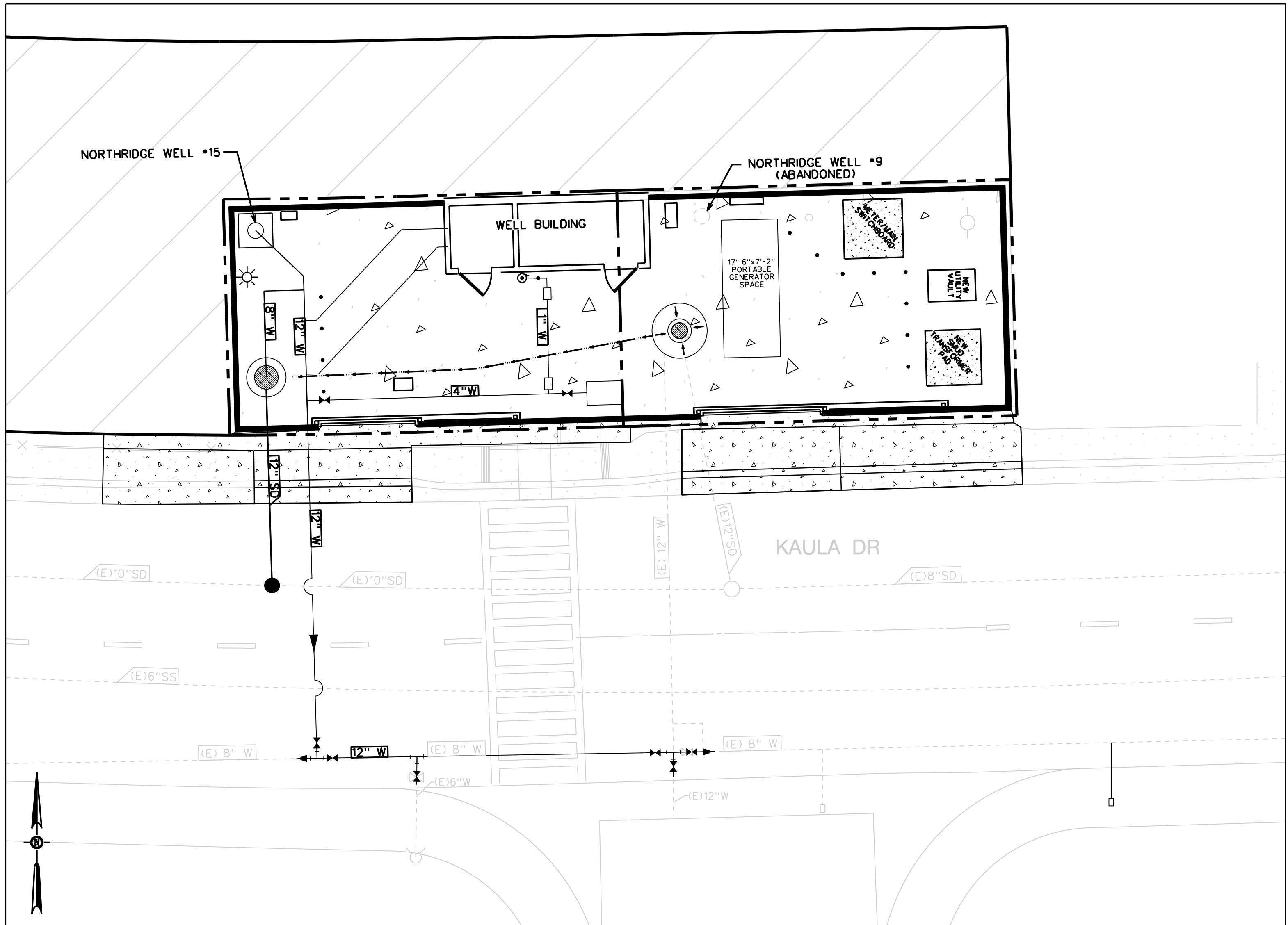
NORTHRIDGE WELL #15
PROJECT: C26WTNWRE
SACRAMENTO COUNTY, CALIFORNIA
PLANS FOR NORTHRIDGE WELL #15
EQUIPPING AND SITE IMPROVEMENTS



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



SITE PLAN
NOT TO SCALE

INDEX OF SHEETS

GENERAL

- T1 TITLE SHEET
G1 GENERAL NOTES
D1 DEMOLITION PLAN

CIVIL

- C1. SITE PLAN
C2. GRADING & DRAINAGE PLAN
C3. PAVEMENT PLAN
C4. EROSION CONTROL PLAN
C5. BEST MANAGEMENT PRACTICE DETAILS
C6. CIVIL DETAILS 1
C7. CIVIL DETAILS 2
C8. CIVIL DETAILS 3
C9. CIVIL DETAILS 4
C10. MANUAL ROLLING GATE PLANS
C11. WALL 'A', 'B', & 'C' PROFILES
C12. WATER MAIN PLAN & PROFILE

MECHANICAL

- M1. WELL HEAD SECTIONS AND DETAILS 1
M2. WELL HEAD SECTIONS AND DETAILS 2
M3. CHEMICAL ROOM PLAN

ARCHITECTURAL

- A1. FLOOR PLAN
A2. ROOF PLAN
A3. REFLECTED CEILING PLAN
A4. ELEVATIONS
A5. ELEVATIONS, SECTIONS
A6. DETAILS - 1
A7. DETAILS - 2

STRUCTURAL

- S1.0 GENERAL NOTES 1
S1.1 GENERAL NOTES 2
S1.2 TYPICAL DETAILS
S2.0 PLANS
S3.0 SECTIONS & DETAILS
S3.1 RETAINING WALL DETAILS

ELECTRICAL

- E1. ELECTRICAL SYMBOLS AND ABBREVIATIONS
E2. MAIN SWITCHBOARD ONE-LINE & ELEVATION
E3. POWER MONITOR PANEL AND SCHEDULES
E4. VFD ELEMENTARY & ELEVATION
E5. PLC CONTROL PANEL ELEVATION
E6. PLC CONTROL PANEL POWER SCHEMATIC
E7. EXAMPLE PLC I/O WIRING DIAGRAMS - ANALOG
E8. EXAMPLE PLC I/O WIRING DIAGRAMS - DIGITAL
E9. ELECTRICAL SITE PLAN
E10. BUILDING ELECTRICAL PLAN & CONDUIT SCHEDULE
E11. LIGHTING AND RECEPTACLE PLAN
E12. ELECTRICAL DETAILS 1
E13. ELECTRICAL DETAILS 2
E14. ELECTRICAL DETAILS 3

INSTRUMENTATION

- I1. INSTRUMENTATION SYMBOLS AND ABBREVIATIONS
I2. NORTHRIDGE WELL P&ID SHEET 1
I3. NORTHRIDGE WELL P&ID SHEET 2

BENCHMARK ELEV. 156.24
DESCRIPTION: DATUM: NAVD 88
2" BRASS DISC STAMPED "SAC CO. DEPT. OF PUBLIC WORKS
CO. BM 14-200" NE CORNER OF SIGNAL STD. LOCATED AT
SW CORNER OF SUNRISE BLVD & MADISON AVE.



UTILITY REPRESENTATIVES

SEWER	SACRAMENTO AREA SEWER DISTRICT	RAY VASSELLI	(916) 876-6140
WATER	FAIR OAKS WATER DISTRICT	BLAKE CHETCUTI	(916) 844-3520
STORM DRAIN	COUNTY OF SACRAMENTO	DIMITRY MEZENTSEV	(916) 874-5275
GAS	PACIFIC GAS & ELECTRIC	YVONNE CHATMAN	(916) 386-5453
TELEPHONE	AT&T	NATHAN DIXON	(916) 296-6359
CABLE T.V.	COMCAST	STEVE ABELIA	(916) 830-6757
ELECTRICAL	S.M.U.D.	JOHN YU	(916) 732-6321
FIRE PROTECTION	SACRAMENTO METRO FIRE DISTRICT	JENAE CALLISON	(916) 859-4318
U.S.A.	UNDERGROUND SERVICE ALERT		(800) 227-2600

FAIR OAKS WATER DISTRICT
BOARD OF DIRECTORS

RANDY MARX	PRESIDENT
MARK DOLBY	VICE PRESIDENT
CHRIS PETERSEN	DIRECTOR
GEORGE BABCOCK	DIRECTOR
MISHA SARKOVICH	DIRECTOR

FAIR OAKS WATER DISTRICT

APPROVED BY:

Blake Chetcuti

10/14/26

FAIR OAKS WATER DISTRICT

DATE:



S: 10-14-26

BID SET

REVIEWED BY:	DATE:	DESIGNED BY:			
REVIEWED BY:	DATE:	DRAWN BY:			
REVIEWED BY:	DATE:	CHECKED BY:			
	DATE: 10/14/2026		REV.	DATE	DESCRIPTION
					APP.

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

TITLE SHEET

DATE: SEP 2026
SCALE:
VER.:



SHEET T1
OF 1 SHEETS 48
PROJECT NUMBER C26WTNWRE

FILE: C:\Users\NathonLee\KASL Consulting Engineers - Documents\Jobs\2695-08 Northridge Well Project\Plans - Phase 2\02_G1_GEN NOTES.dgn DATE: 10/14/2026

FOWD GENERAL NOTES: REVISED: APR 2023

1. THESE NOTES APPLY TO THE CONSTRUCTION OF PUBLIC WATER FACILITIES WITHIN THE FAIR OAKS WATER DISTRICT (FOWD) SERVICE AREA. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOWD APPROVED IMPROVEMENT PLANS AND THE MOST RECENT VERSION OF THE FOWD'S STANDARD SPECIFICATIONS MANUAL.

2. IMPROVEMENT PLANS APPROVAL FOWD'S APPROVAL IS VALID FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SIGNATURE. PLANS SHALL BE SUBJECT TO REVIEW AND RE-APPROVAL THEREAFTER. THE CONTRACTOR SHALL NOTIFY FOWD IMMEDIATELY IN WRITING OF ANY FIELD CHANGES, OR CHANGES TO THE APPROVED PLANS, THAT MAY IMPACT INSTALLATION OF WATER FACILITIES, AND SHALL OBTAIN WRITTEN APPROVAL FROM FOWD FOR SUCH CHANGES PRIOR TO CONSTRUCTION. IMPROVEMENT PLANS SHALL BE APPROVED BY THE SACRAMENTO METRO FIRE DEPARTMENT AND ANY NECESSARY EASEMENT/S RECORDED PRIOR TO FOWD'S APPROVAL.

3. PRE-CONSTRUCTION MEETING - A PRE-CONSTRUCTION MEETING IS REQUIRED WITH FOWD AND THE CONTRACTOR (AND SACRAMENTO COUNTY INSPECTOR WHEN APPLICABLE) A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO COMMENCING WORK.

4. EXISTING FACILITIES AND PRE-WORK SITE CONDITIONS - THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE MARKING AND UNDERGROUND SERVICE ALERT (USA) PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY LOCATING, INCLUDING POTHOLING, ALL EXISTING UTILITIES AND WATER LINE CONNECTION POINTS TO CONFIRM SIZE, DEPTH, AND MATERIAL TYPE OF EXISTING FACILITIES BEFORE THE START OF WATER FACILITIES INSTALLATION.

5. SAFETY - CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY CURRENTLY APPLICABLE SAFETY LAW AND PRIOR APPROVALS OF ANY JURISDICTIONAL AGENCY, INCLUDING TRAFFIC CONTROL, SLOPING, BORING, AND SHORING. CONTRACTOR IS ALSO RESPONSIBLE FOR PROJECT SITE SAFETY AND FOR PUBLIC SAFETY INCLUDING TRAFFIC CONTROL, 24 HOURS/DAY FOR ALL DAYS, FROM THE NOTICE TO PROCEED THROUGH THE NOTICE OF FINAL COMPLETION.

6. PERMITTING - CONTRACTOR IS RESPONSIBLE TO VERIFY ACQUISITION AND SUBMITTAL OF, AND COMPLIANCE WITH, ANY APPLICABLE PERMITS, INCLUDING BUT NOT LIMITED TO SWPPP, NPDES, ENCROACHMENT PERMITS, AND REQUIRED CERTIFICATES/PERMIT FOR WORKING WITH ASBESTOS CEMENT MATERIALS, FOR EXCAVATION DEEPER THAN 5 FEET, AND FOR ACTIVITIES TO BE PERFORMED IN CONFINED SPACES.

7. NOTIFICATIONS - THE CONTRACTOR SHALL CONTACT FOWD AT (916) 967-5723 A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO THE BEGINNING OF WORK OR TO SCHEDULE ANY MEETING.

8. TRAFFIC CONTROL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL PLAN APPROVED BY SACRAMENTO COUNTY (IF NEEDED) AND ANY TRAFFIC CONTROL NECESSARY FOR CONSTRUCTION OF WATER SYSTEM IMPROVEMENTS.

9. SUBMITTALS AND BASELINE SCHEDULE - BEFORE THE WORK PROCEEDS, THE CONTRACTOR SHALL PROVIDE FOWD WITH SUBMITTALS FOR ALL PARTS AND MATERIALS TO BE USED IN CONSTRUCTION. ALL SUBMITTALS MUST BE APPROVED BY FOWD PRIOR TO INSTALLATION. AWWA AND/OR NSF CERTIFICATIONS ARE REQUIRED FOR ALL WATER MATERIAL. CONTACT FOWD TWO BUSINESS DAYS TO ARRANGE FOR REVIEW AND INSPECTION OF MATERIALS PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE A BASELINE SCHEDULE INCLUDING MAJOR ACTIVITIES FROM BEGINNING OF THE PROJECT TILL THE END. SCHEDULE TO BE UPDATED PER FOWD DIRECTION.

10. FEES - IF APPLICABLE, THE CONTRACTOR/APPLICANT MUST PAY ALL ASSOCIATED WATER FEES PRIOR TO THE IMPROVEMENT PLAN APPROVAL BY FOWD.

11. SURVEYING AND MONUMENTS PROTECTION - THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED STAKING, SHOWING THE LOCATION AND GRADES FOR INSTALLING ALL WATER FACILITIES PRIOR TO THEIR INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND MAINTAINING ALL SURVEY MONUMENTS AND RESTORING ANY MONUMENTS DAMAGED BY CONTRACTOR.

12. GRADING - WATER MAINS, SERVICES, METERS, AND METER BOXES SHALL NOT BE INSTALLED UNTIL THE FINISHED GRADE IS ESTABLISHED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY WATER FACILITIES ADJUSTMENTS DUE TO ERRORS IN ESTABLISHING FINISHED GRADE.

13. WATER MAIN LOCATION AND EASEMENT - WATER MAINS SHALL BE INSTALLED WITHIN PUBLIC STREET RIGHT OF WAY (ROW) AND SHALL BE LOCATED 3 FEET FROM THE LIP OF GUTTER (UNDER STREET PAVEMENT). WATER MAINS INSTALLED ON PRIVATE PROPERTY/ROAD SHALL BE PLACED AT THE CENTERLINE OF A 20-FOOT WIDE WATER EASEMENT, OR AS APPROVED BY FOWD, BUT NEVER LESS THAN 10 FEET WIDE. EASEMENT(S) MUST BE ADOPTED AND RECORDED WITH SACRAMENTO COUNTY BEFORE WATER SERVICE IS TURNED ON. PLANTING OF TREES AND SHRUBS WITHIN WATER EASEMENTS FOR EXISTING OR PROPOSED FUTURE WATER FACILITIES SHALL BE AVOIDED. FOWD RESERVES THE RIGHTS TO REQUIRE REMOVAL (AT CONTRACTOR EXPENSE) OF TREES AND SHRUBS OR ANY OTHER OBSTACLES THAT MAY IMPACT, OR HAVE IMPACTED, WATER FACILITIES INSTALLATION, MAINTENANCE, OR OPERATIONS.

14. TRACER WIRE & CAUTION TAPE - ALL WATER MAINS, HYDRANT RUNS, AND WATER SERVICE 3-INCH AND LARGER IN SIZE SHALL HAVE #10 AWG, CONTINUOUS SINGLE STRAND COATED COPPER TRACER WIRE AND 12"-18" WIDE NON-DETECT BLUE TAPE WITH WORDS "CAUTION: BURIED WATER LINE BELOW" 12"-18" ON ALL WATER PIPING ON BEDDING PER FOWD STD-5.

15. PROTECTION OF WATER MAINS INSTALLATION AND VALVES OPERATION CONTRACTOR MUST SEAL PIPE ENDS WATERTIGHT AT END OF EACH WORKDAY WHEN LAYING WATER PIPE. CONTRACTOR SHALL NOT OPERATE FOWD VALVES.

16. WATER SERVICE - EACH SINGLE FAMILY OR CONDO PARCEL SHALL HAVE A SEPARATE SERVICE TAP. APARTMENT AND OTHER COMMERCIAL DEVELOPMENT ON ONE PARCEL HAVE THE OPTIONS: A) TO HAVE ONE OR TWO MASTER METERS THAT PROVIDES DOMESTIC WATER TO THE ENTIRE PARCEL. B) HAVE DEDICATED DOMESTIC WATER SERVICES TO INDIVIDUAL BUILDINGS. APARTMENT AND OTHER COMMERCIAL DEVELOPMENT SHALL HAVE A DEDICATED IRRIGATION SERVICE. APARTMENT AND OTHER COMMERCIAL DEVELOPMENT SHALL HAVE A DEDICATED FIRE SERVICE(S) AS REQUIRED BY THE SACRAMENTO METRO FIRE DEPARTMENT. WATER SERVICES ON THE SAME PARCEL OF DIFFERENT CLASSIFICATIONS (DOMESTIC, IRRIGATION, AND FIRE) SHALL NOT BE LOOPEO TOGETHER. ALL WATER SERVICES SERVING COMMERCIAL, GOVERNMENTAL, PUBLIC, IRRIGATION, PRIVATE FIRE PROTECTION SYSTEMS, AND RESIDENTIAL FACILITIES WITH FIRE SUPPRESSION SYSTEMS, SHALL BE EQUIPPED WITH FOWD APPROVED BACKFLOW DEVICES. PRIVATE WATER SERVICES SHALL NOT CROSS PARCEL LINES. WATER METER SHALL BE INSTALLED PRIOR TO ACCEPTANCE AND ACTIVATION OF WATER SYSTEM.

17. WATER SERVICES LOCATIONS - ALL WATER SERVICES SHALL BE SET THREE (3) FEET FROM ADJACENT SIDE PROPERTY LINES WITHIN STREET ROW, PUE, OR DEDICATED WATER EASEMENT ON THE CORRECT LOT SITE UNLESS OTHERWISE APPROVED BY FOWD. CONTRACTOR SHALL STAKE LOT LINES PRIOR TO INSTALLATION AND AT THE TIME OF FINAL INSPECTION. SERVICES ARE TO BE INSTALLED SO PLUMBERS NEED NOT DISTURB THE METER BOX DURING CUSTOMER HOOK-UP. WATER BOXES THAT ARE TEMPORARILY REMOVED SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE. INSTALLATION OF WATER METER BOXES WITHIN SIDEWALKS OR DRIVEWAYS ARE NOT ALLOWED UNLESS APPROVED BY FOWD.

18. BACKFLOW PROTECTION - BACKFLOW PREVENTION DEVICE SHALL BE REDUCED PRESSURE PRINCIPLE (RP) DEVICES FOR DOMESTIC AND IRRIGATION SERVICES, AND REDUCED PRINCIPAL DETECTOR CHECK ASSEMBLY (RPDA) FOR DEDICATED FIRE SERVICES. RP/RPDA DEVICES SHALL BE INSTALLED BY CONTRACTOR IN ACCORDANCE WITH FOWD APPLICABLE STANDARDS AND TESTED AND CERTIFIED BY FOWD FOR THE FIRST TIME PRIOR TO OBTAINING WATER SERVICE, MAINTENANCE AND ANNUAL CERTIFICATION OF THE RP/RPDA DEVICE ARE THE PROPERTY OWNER'S RESPONSIBILITY. TYPE OF RP/RPDA DEVICES SHALL BE APPROVED BY FOWD. RP DEVICES SHALL BE INSTALLED WITHIN FIVE (5) FEET FROM THE METER BOX AND RPDA SHALL BE INSTALLED WITHIN 5 FEET FROM EDGE OF RIGHT OF WAY FOR FIRE SERVICE, WITH NO TEES OR CROSS CONNECTIONS BETWEEN THE WATER METER AND A RP/RPDA DEVICE.

19. SANITARY SEWER AND STORM DRAIN PROXIMITY - A MINIMUM OF 10 FT HORIZONTAL AND 1 FT VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER FACILITIES, AND A MINIMUM OF 4 FT HORIZONTAL AND 1 FT VERTICAL SEPARATION BETWEEN WATER AND STORM FACILITIES ARE REQUIRED. IF REQUIRED SEPARATION CANNOT BE MAINTAINED, A HIGHER CLASS OF PIPE MATERIAL AND POSSIBLE SLEEVE FOR THE PIPE INSTALLATION WITH FOWD APPROVED INSTALLATION DETAIL IS REQUIRED. ANY WATER MAIN NEEDING TO BE ROUTED UNDER SEWER REQUIRES SWRCB-DDW APPROVAL PRIOR TO INSTALLATION.

20. DRY UTILITIES PROXIMITY - A MINIMUM OF 4 FT HORIZONTAL AND 1 FT VERTICAL SEPARATION BETWEEN WATER AND ALL DRY UTILITIES INCLUDING GAS IS REQUIRED. VARIANCES REQUIRE FOWD APPROVAL.

21. BACKFILLING AND COMPACTION - NATIVE BACKFILL WILL NOT BE ALLOWED IN TRENCHES CONTAINING PUBLIC WATER FACILITIES. TRENCH FOR ALL PUBLIC WATER MAINS/SERVICES LOCATED WITHIN AN EXISTING OR PROPOSED ROW, PUE, OR DEDICATED WATER EASEMENTS, SHALL CONFORM TO FOWD SPECIFICATIONS, FOWD'S STANDARD DRAWING #9, AND ALL SACRAMENTO COUNTY REQUIREMENTS AS THEY APPLY. A MINIMUM OF 36-INCH COVER OVER WATER MAINS AND A MINIMUM OF 24-INCH COVER OVER WATER SERVICES ARE REQUIRED UNLESS OTHERWISE APPROVED BY FOWD. UTILITY SAND BEDDING SHALL BE MINIMUM OF 6" BELOW BASE AND 12" ABOVE PIPE. BEDDING FOUNDATION SHALL PROVIDE UNIFORM SUPPORT OF PIPE, WITH BELL ENDS EXCAVATED PER MANUFACTURER'S RECOMMENDATION. EACH LIFT SHALL BE COMPACTED TO 90%.

22. PAVING RESTORATION - SHALL BE PER SACRAMENTO COUNTY APPLICABLE STANDARD DRAWINGS AND REQUIREMENTS.

23. HYDROSTATIC TESTING - THE CONTRACTOR SHALL PROVIDE A PASSING HYDROSTATIC TEST FOR ALL NEW PIPES AND WATER APPURTENANCES IN ACCORDANCE WITH FOWD STANDARD SPECIFICATIONS OR THE MOST RECENT AWWA STANDARD FOR METHOD AND MATERIALS USED. THE TESTING MUST BE WITNESSED AND APPROVED BY AN AUTHORIZED FOWD REPRESENTATIVE. NOTIFICATION FOR SCHEDULING OF TEST MUST BE PROVIDED A MINIMUM OF TWO WORKING DAYS PRIOR TO TESTING AND MUST BE CONDUCTED MON.-THUR.

FOWD GENERAL NOTES: "CONTINUED"

24. DISINFECTION AND BACTERIOLOGICAL SAMPLING - ALL NEW WATER FACILITIES SHALL BE DISINFECTED IN ACCORDANCE WITH CURRENT AWWA STANDARD AND FOWD STANDARD SPECIFICATIONS. FOWD COLLECTS SAMPLES FOR BACTERIOLOGICAL TESTING AND MUST BE CONTACTED MINIMUM OF TWO WORKING DAYS PRIOR TO NEEDED SAMPLING.

25. MAINS AND SERVICES SHUTDOWN - THE CONTRACTOR SHALL CONTACT FOWD INSPECTOR AND/OR FOWD OFFICE A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO ANY WATER MAIN/SERVICE SHUTDOWN REQUEST. NECESSARY SHUTDOWNS ARE TO BE COMPLETED BY FOWD AUTHORIZED STAFF OR REPRESENTATIVE(S) ONLY.

26. INSPECTION - FOWD INSPECTOR WILL INSPECT INSTALLATION OF ALL PUBLIC WATER FACILITIES. IF AFTER ANY INSTALLATION, OR FINAL INSPECTION, FOWD DETERMINES THAT THE JOB IS NOT COMPLETE OR NOT COMPLETED IN ACCORDANCE WITH THE PROJECT DOCUMENTS OR FOWD STANDARDS, THE CONTRACTOR WILL HAVE 15 WORKING DAYS TO COMPLETE THE WORK TO FOWD'S SATISFACTION. THE CONTRACTOR MAY BE CHARGED FOR RE-INSPECTION. WATER SYSTEM WILL NOT BE ACTIVATED UNTIL ALL DEFICIENCIES HAVE BEEN CORRECTED AND THE SYSTEM IS ACCEPTED BY FOWD.

27. WARRANTY - CONTRACTOR SHALL PROVIDE MAINTENANCE BOND AND GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR FROM THE DATE THE NEW WATER FACILITIES ACCEPTED BY FOWD AGAINST DAMAGES OR FAILURES FROM ANY CAUSE.

28. SALVAGE AND DISPOSAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL SALVAGE PIPE, AS WELL AS ANY FITTINGS OR OTHER RELATED MATERIALS GENERATED FROM INSTALLATION AND TIE-IN TO FOWD WATERLINES AND COSTS ASSOCIATED. DISTURBANCE OF ASBESTOS CEMENT PIPES (ACP) IS REGULATED UNDER CAL/OSHA, TITLE 8, SECTION 1529 AND CONTRACTOR SHALL COMPLY WITH ALL THEREIN. CONTRACTOR MUST SUBMIT TO FOWD A CERTIFICATE OF DISPOSAL TO VERIFY ANY ACP WASTE WAS PROPERLY DISPOSED OF. ANY PORTION OF ACP TO BE ABANDONED IN PLACE MUST BE LEFT INTACT AND NON-FRIABLE.

EARTHWORK:

- ALL EXCAVATION, EMBANKMENT, AND BACKFILL SHALL CONFORM TO THE PROJECT TECHNICAL SPECIFICATIONS.
- CLEARING AND GRUBBING SHALL CONFORM TO THE PROJECT TECHNICAL SPECIFICATIONS.
- ALL UTILITY TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN THESE PLANS AND THE PROJECT TECHNICAL SPECIFICATIONS

EARTHWORK QUANTITIES

EXCAVATION = 300 CU. YDS
EMBANKMENT = 0 CU. YDS

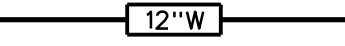
PAVING:

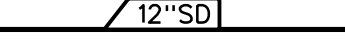
- AGGREGATE BASE AND ASPHALT PAVEMENT SURFACING SHALL CONFORM TO THE PROJECT TECHNICAL SPECIFICATIONS.

GENERAL NOTES

- THE CONTRACTOR SHALL NOTIFY THE FAIR OAKS WATER (DISTRICT) IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATION. THE DISTRICTS INTERPRETATION OR CORRECTION THEREOF SHALL BE CONCLUSIVE.
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES AND PAYING ALL ASSOCIATED PROJECT FEES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, SURVEY REFERENCE POINTS, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT.
- PRIOR TO COMMENCING WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL AFFECTED UNDERGROUND UTILITIES MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY THE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. THE COST OF REPLACING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE CONTRACT BID PRICES.
- CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE DISTRICT AND DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- APPROPRIATE DUST CONTROL SHALL BE PROVIDED, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING BEST MANAGEMENT PRACTICES (BMPs) WITH REGARD TO STORM WATER AND NON-STORM WATER MANAGEMENT.
- ROUTE TO SITE SHALL BE FROM MADISON AVENUE, SOUTH ON CHICAGO AVENUE, WEST ON KAULA DRIVE
- EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH SECTION 11 OF THE COUNTY OF SACRAMENTO JANUARY 2024 CONSTRUCTION SPECIFICATIONS.
- CONTRACTOR SHALL FOLLOW FAIR OAKS WATER DISTRICT STANDARDS.

LEGEND

PROPOSED WATER MAIN (SIZE) 

PROPOSED STORM DRAIN LINE 

PROPOSED GATE VALVE 

PROPOSED CONTROL VALVE 

PROPOSED CHECK VALVE 

PROPOSED BUTTERFLY VALVE 

PIPE TRANSITION FROM ABOVE GROUND (AG) TO UNDER GROUND (UG) 

PROPOSED WATER METER 

PROPOSED ISOLATION VALVE 

(E) WATER VALVE 

(E) WATERLINE 

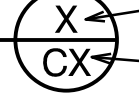
(E) SEWER LINE 

(E) STORM DRAIN LINE 

(E) FENCE 

REFERENCE SYMBOLS

REFERENCE LABELS

DETAIL NAME
NOT TO SCALE  DETAIL NUMBER
SHEET WHERE DETAIL IS REFERENCED

SECTION
NOT TO SCALE  SECTION NUMBER
SHEET WHERE SECTION IS REFERENCED

REFERENCE CALLOUTS

 DETAIL NUMBER
SHEET WHERE DETAIL IS REFERENCED

 SECTION NUMBER
SHEET WHERE SECTION IS REFERENCED

ABBREVIATIONS

@	AT	ID	INSIDE DIAMETER
AGG	AGGREGATE	IN	INCH
AB	AGGREGATE BASE, ANCHOR BOLT	INV	INVERT
ACP	ASBESTOS CEMENT PIPE	IPS	IRON PIPE SIZE
AC	ASPHALT CONCRETE		
ALLUM	ALUMINUM	JT	JOINT
ARV	AIR RELEASE VALVE	KW	KILOWATT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS		
AWWA	AMERICAN WATER WORKS ASSOCIATION	LBS	POUNDS
BC	BACK OF CURB	MAX	MAXIMUM
BFV	BUTTERFLY VALVE	MB	MACHINE BOLT
BMP	BEST MANAGEMENT PRACTICE	MEAS	MEASURED
BO	BLOW-OFF	MH	MANHOLE
BSP	BLACK STEEL PIPE	MIN	MINIMUM, MINUTE
BV	BALL VALVE	MIP	MALE IRON PIPE
BW	BACK OF WALK	MJ	MECHANICAL JOINT
		MNPT	MALE NATIONAL PIPE THREAD
C&G	CURB AND GUTTER	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NPT	NATIONAL PIPE THREAD
CFS	CUBIC FEET PER SECOND	NTS	NOT TO SCALE
CI	CAST IRON		
CIP	CAST IRON PIPE	OC	ON CENTER
CLR	CLEAR	OD	OUTSIDE DIAMETER
CL	CENTERLINE		
CMP	CORRUGATED METAL PIPE	PCC	PORTLAND CEMENT CONCRETE
CMU	CONCRETE MASONRY UNIT	PE	POLYETHYLENE
C.O.	CLEANOUT	PG	PRESSURE GAGE
COMM	COMMUNICATION	PG&E	PACIFIC GAS & ELECTRIC
CONC	CONCRETE	PL	PROPERTY LINE
CONN	CONNECTION	PL PL	PLATE (STEEL)
CONST	CONSTRUCT	PLYWD	PLYWOOD
CONT	CONTINUOUS	PRV	PRESSURE REDUCING VALVE
CPVC	CHLORINATED POLYVINYL CHLORIDE	PSF	POUNDS PER SQUARE FOOT
CSP	CORRUGATED STEEL PIPE	PSI	POUNDS PER SQUARE INCH
CV	CHECK VALVE	PSIG	POUNDS PER SQUARE INCH GAGE
		PVC	POLYVINYL CHLORIDE
DBL	DOUBLE	R	RADIUS
DET	DETAIL	RCP	REINFORCED CONCRETE PIPE
DI	DROP INLET	RD	ROOF DRAIN
DIA	DIAMETER	RED	REDUCER
DIM	DIMENSION	REQD	REQUIRED
DIP	DUCTILE IRON PIPE	RP	REDUCED PRESSURE
DWG	DRAWING	RW	RIGHT OF WAY
EA	EACH	SCH	SCHEDULE
ECC	ECCENTRIC	SD	STORM DRAIN
ELB	ELBOW	SECT	SECTION
EL, ELEV	ELEVATION	SHT	SHEET
ELB, ELEV	ELBOW OF PAVEMENT	SLP	SLOPE
CW	EACH WAY	SMUD	SACRAMENTO MUNICIPAL UTILITY DISTRICT
(E)	EXISTING	SQ	SQUARE
EXP	EXPANSION	SQ FT	SQUARE FEET
		SQ IN	SQUARE INCH
F	FAHRENHEIT	SOLN	SOLUTION
FC	FLEXIBLE COUPLING	SS	SANITARY SEWER
FCA	FLANGE COUPLING ADAPTER	SST	STAINLESS STEEL
FEM	FEMALE	STD	STANDARD
FF	FINISHED FLOOR	STL	STEEL
FG	FINISHED GRADE	SW	SIDEWALK
FIG	FIGURE		
FLEX	FLEXIBLE	TBM	TEMPORARY BENCH MARK
FLG	FLANGE	TC	TOP OF CURB
FL, FL	FLOWLINE	TEL	TELEPHONE
FNDPT	FOUNDATION	TEMP	TEMPERATURE, TEMPORARY
FRP	FEMALE NATIONAL PIPE THREAD	TOB	TOP OF BANK
FT	FIBERGLASS REINFORCED PLASTIC FOOT OR FEET	TYP	TYPICAL
GA	GAGE	VAR	VARIES
GAL	GALLON		
GALV	GALVANIZED	W/	WITH
GB	GRADE BREAK	W/O	WITHOUT
GND	GROUND	WG	WATER GAGE
GFL	GUTTER FLOW LINE		
GPD	GALLONS PER DAY	±	PLUS OR MINUS
GPH	GALLONS PER HOUR	<	LESS THAN
GPM	GALLONS PER MINUTE	>	GREATER THAN
GR	GROUND	Ø	DIAMETER
GSP	GALVANIZED STEEL PIPE		
GV	GATE VALVE		
HP	HINGE POINT		

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

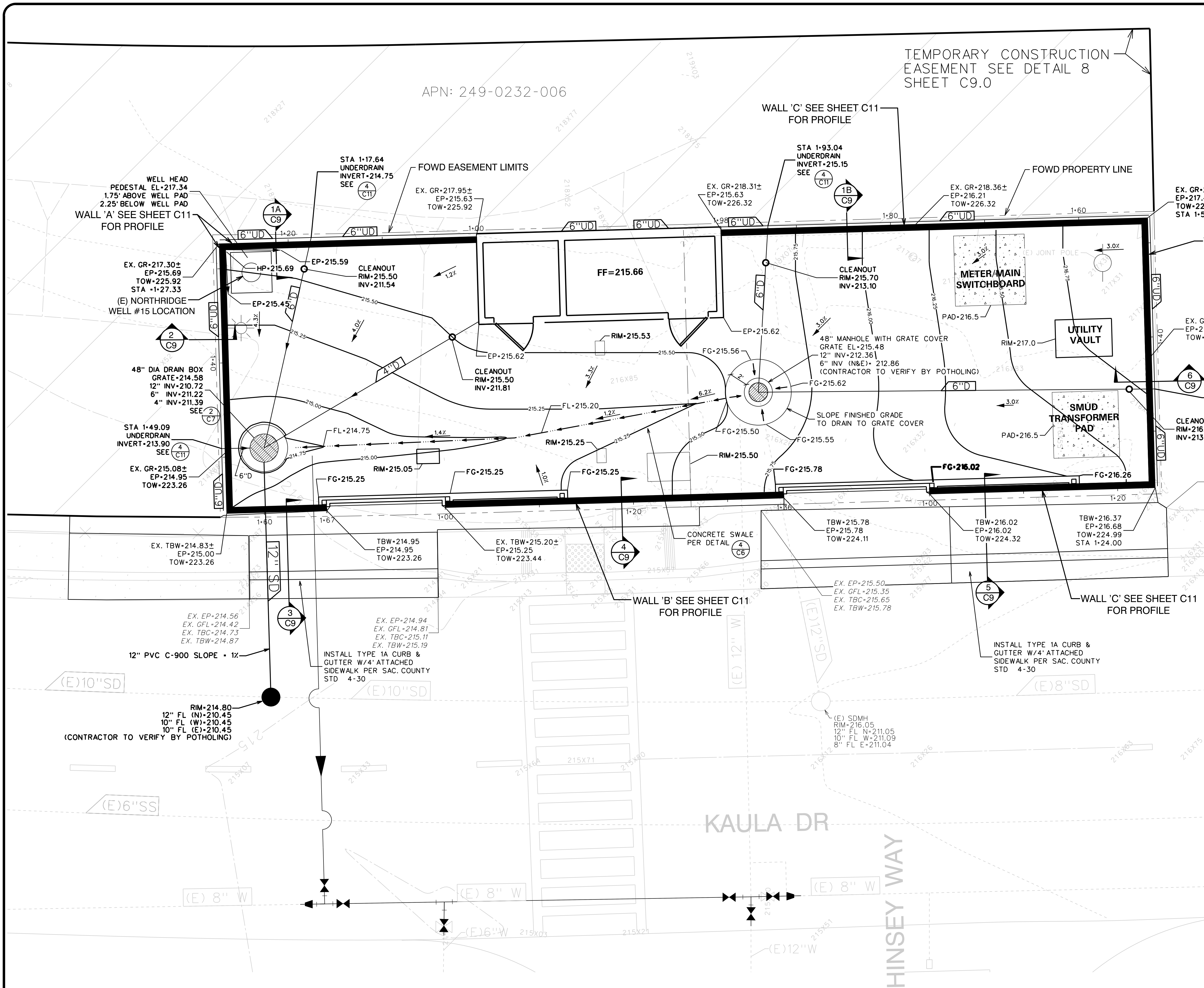
GENERAL NOTES

DATE: SEP 2026
SCALE:



SHEET G1
OF 2 SHEETS 48
PROJECT NUMBER C26WTNWRE

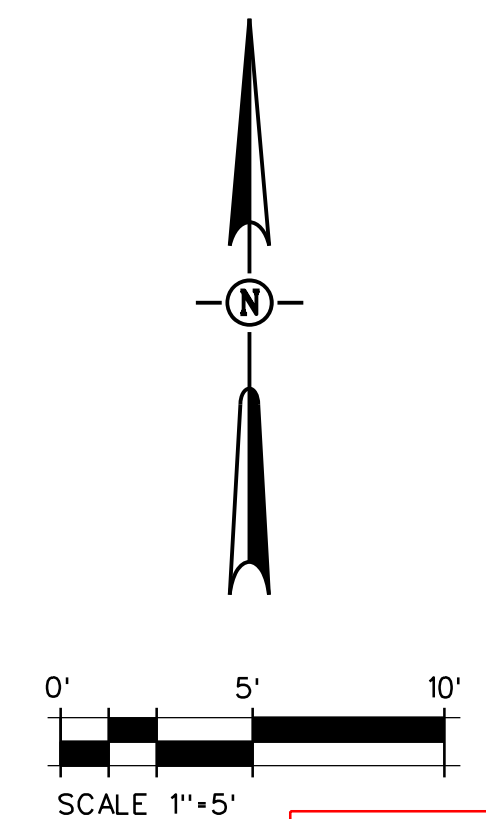
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DATE: 10/14/2026



LEGEND

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
EP	EDGE OF PAVEMENT
FF	FINISHED FLOOR
FL	FLOWLINE
GFL	GUTTER FLOWLINE
INV	INVERT
GR	GROUND
PCC	PORTLAND CEMENT CONCRETE
STA	WALL STATION
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALK
TOW	TOP OF WALL
163.26± EX XX	EXISTING ELEVATION CALLOUT (EP,FL,TBC,TBW,ETC.)
EP-215.62	PROPOSED ELEVATION CALLOUT (AC,EP,FL,TBC,ETC.)
163.26± EX XX	EXIST. SPOT ELEVATION
(E) 8"SD	EXISTING UTILITY (SD,W AS NOTED)
12" D	DRAIN PIPE
PERIMETER WALL	PERIMETER WALL (REFER TO PROFILES, SEE SHEET C11)
PROJECT BOUNDARY	PROJECT BOUNDARY
215	EXISTING CONTOUR ELEVATION
215.25	FINISHED CONTOUR ELEVATION
ONSITE PAVEMENT: 6" PCC OVER 6" CLASS 2 A.B. OVER COMPACTED SUBGRADE	ONSITE PAVEMENT: 6" PCC OVER 6" CLASS 2 A.B. OVER COMPACTED SUBGRADE
6"UD	UNDERDRAIN PIPE
STORM DRAIN MANHOLE, SEE 1 C6	STORM DRAIN MANHOLE, SEE 1 C6
UNDERDRAIN CLEANOUT, SEE 9 C9	UNDERDRAIN CLEANOUT, SEE 9 C9

EARTHWORK QUANTITIES
EXCAVATION= 300 CU YDS
EMBANKMENT= 0 CU YDS



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REVIEWED BY:	DATE:	DRAWN BY:					
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FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHBRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS
GRADING & DRAINAGE PLAN

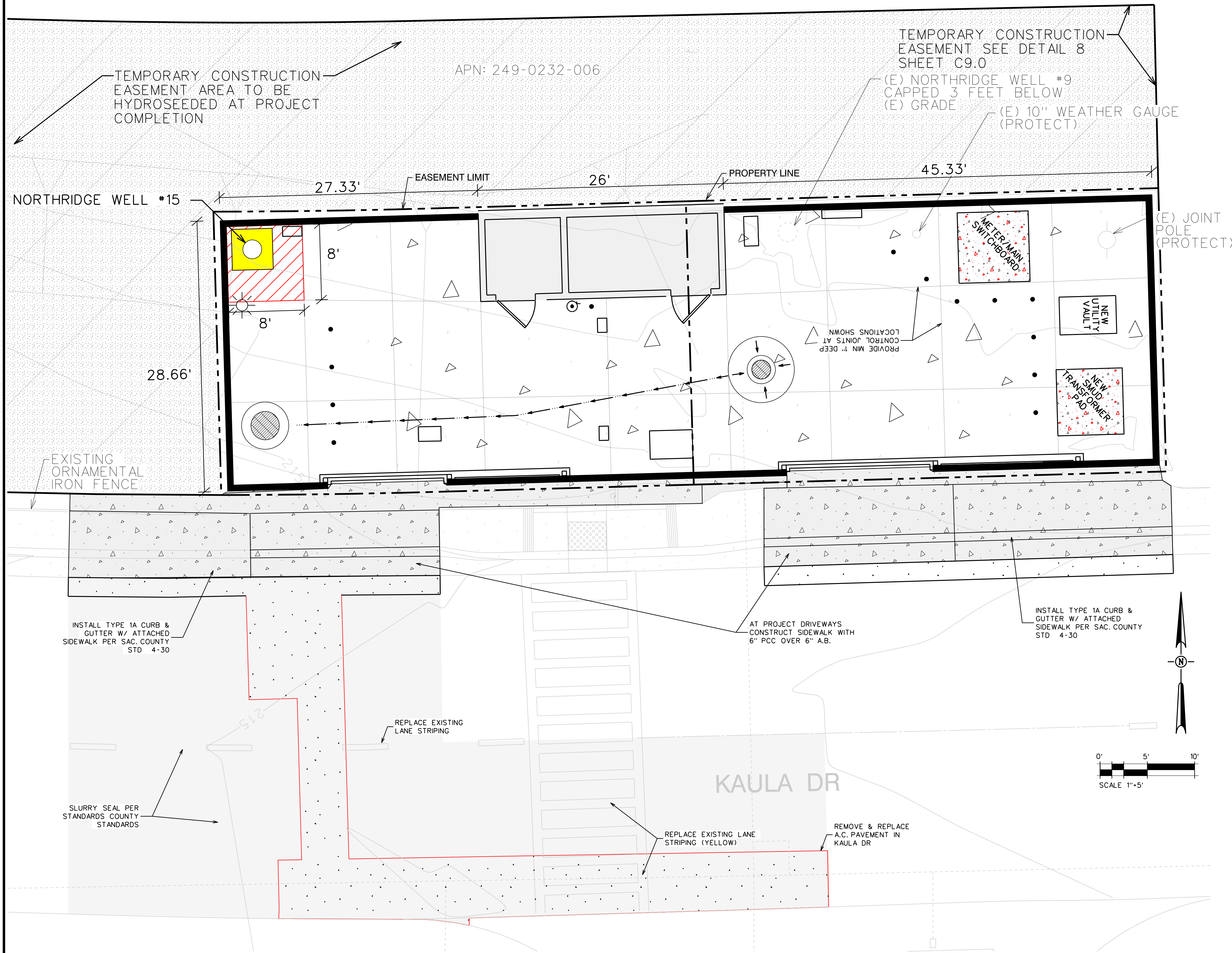
DATE: **SEP 2026**
SCALE:
VER.:



SHEET **C2**
OF 5 SHEETS **48**
PROJECT NUMBER
C26WTNWRE

BID SET

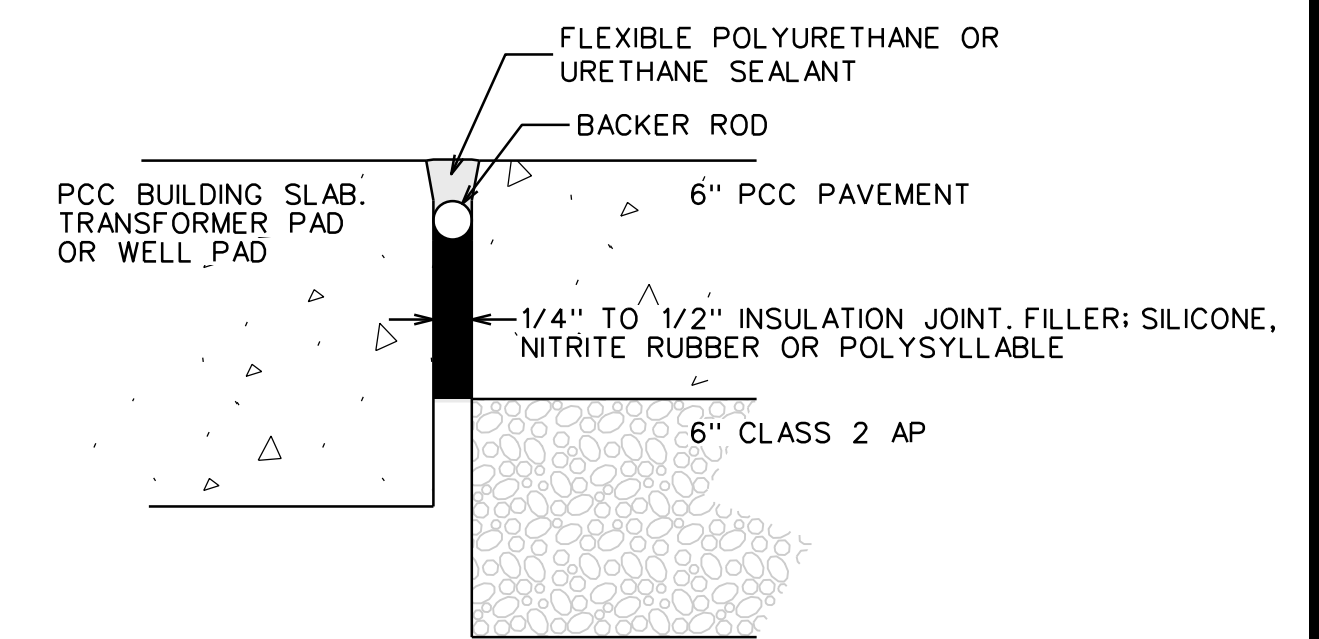
FILE: C:\Users\NathonLee\KASL Consulting Engineers\KASL Consulting Engineers\Projects\206-C3 PAVEMENT PLAN.dgn
DATE: 10/14/2026



LEGEND

- 6" PCC WITH 4#18" O.C. EW OVER 6" CLASS 2 AB SEE (5) (C6)
- 6" CONCRETE OVER 8" CLASS 2 AB
- TYPE 1A CURB & GUTTER AND PCC SIDEWALK SEE (3) (C6)
- 8" PCC WELL PAD WITH 5# 12" O.C. EW OVER 6" CLASS 2 AB
- CONCRETE BUILDING SLAB SEE BUILDING STRUCTURAL PLANS
- HYDROSEED
- SLURRY SEAL, TYPE II PER COUNTY STD'S
- REMOVE & REPLACE EXISTING PAVEMENT WITH 4" A.C. OVER 12" CLASS 2 A.B. OR CLSM SEE (3) (C7) & (10) (C8)
- CONCRETE WELL HEAD PEDESTAL

NOTE: CONSTRUCTION JOINTS TO BE PLACED BETWEEN THE EDGE OF THE CONCRETE PAVEMENT AND THE WELL, BUILDING SLAB, TRANSFORMER PAD, SWITCHBOARD PAD AND WELL HEAD PAD, SEE (1) (C1)



CONSTRUCTION JOINT

NO SCALE

1

PAVEMENT QUANTITIES

PAVEMENT	SQ FT
6" PCC OVER 6" AB	2,460
8" PCC OVER 6" AB	45
CONCRETE FOR SMUD TRANSFORMER & SWITCH BOARD	105
CONCRETE BUILDING SLAB	245
TYPE 1A CURB & GUTTER AND PCC SIDEWALK	485
4" A.C. OVER 12" A.B. (KAULA DRIVE PAVEMENT REPLACEMENT)	750
HYDROSEED	10,170
TYPE II SLURRY SEAL	2200

PCC SHALL BE 4000 PSI UNLESS OTHERWISE NOTED

BID SET

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REVIEWED BY:	DATE:	CHECKED BY:				
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FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHBRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

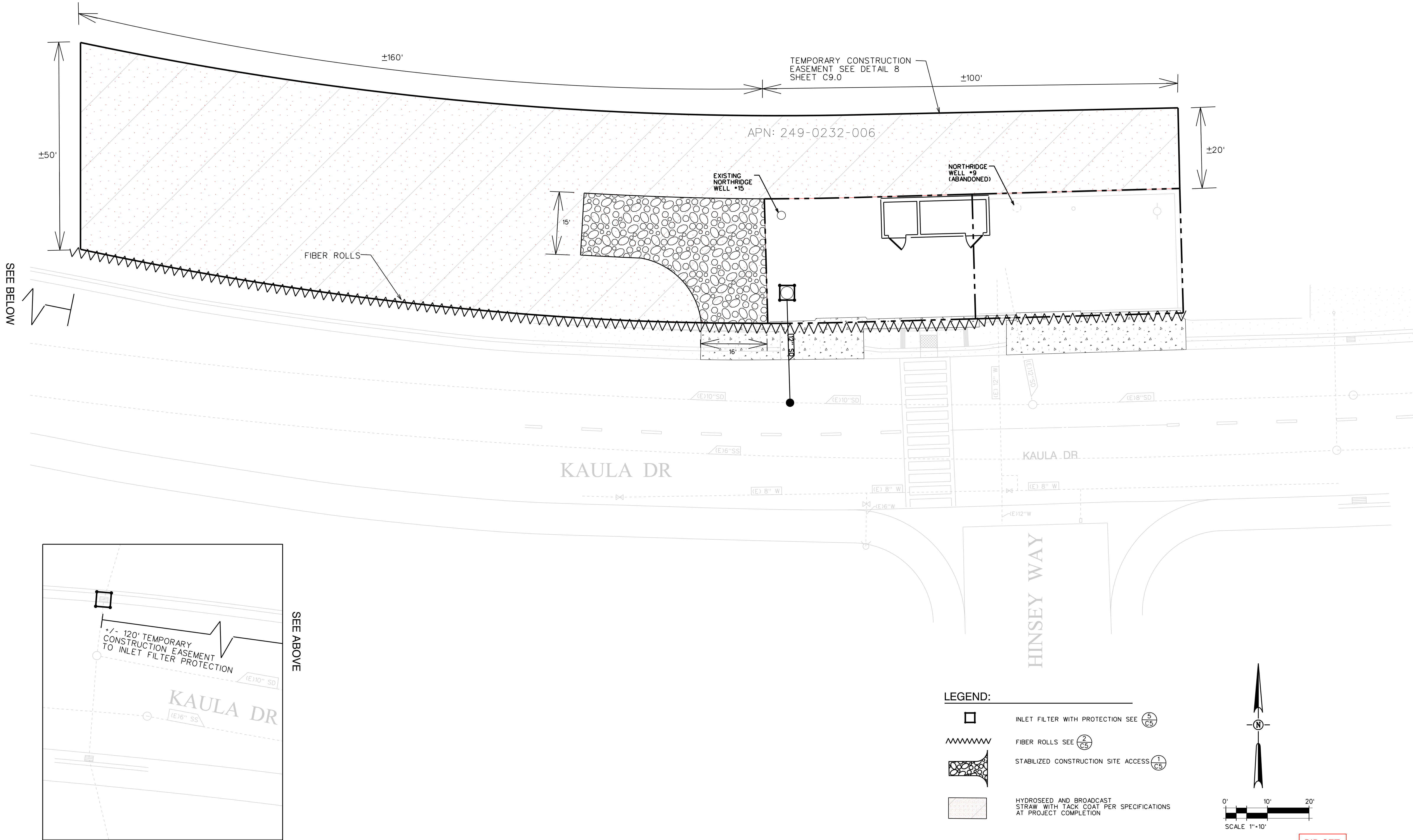
PAVEMENT PLAN

DATE: SEP 2026
SCALE:
VER.:



SHEET C3
OF 6 SHEETS 48
PROJECT NUMBER C26WTNWRE

FILE: C:\Users\NathonLee\KASL Consulting Engineers\KASL Consulting Engineers - Phase 2\07_C4 EROSION CONTROL.dgn
DATE: 10/14/2026

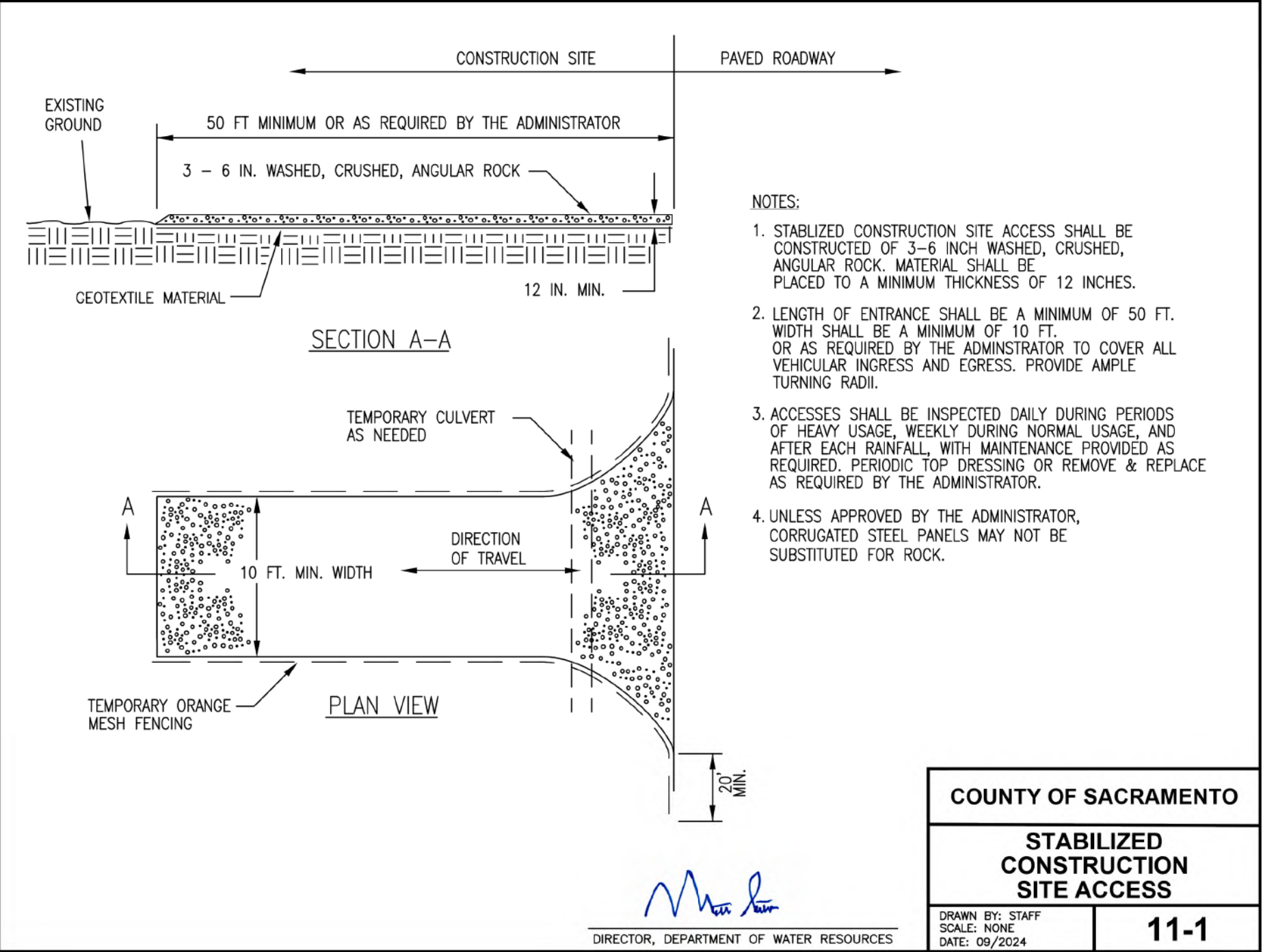


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	DATE:	10/14/2026	REV.	DATE	DESCRIPTION	APP.

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHBRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS
EROSION CONTROL PLAN

DATE: SEP 2026	 FAIR OAKS WATER DISTRICT	SHEET C4
SCALE:		OF 7 SHEETS 48
VER.:		PROJECT NUMBER C26WTNWRE

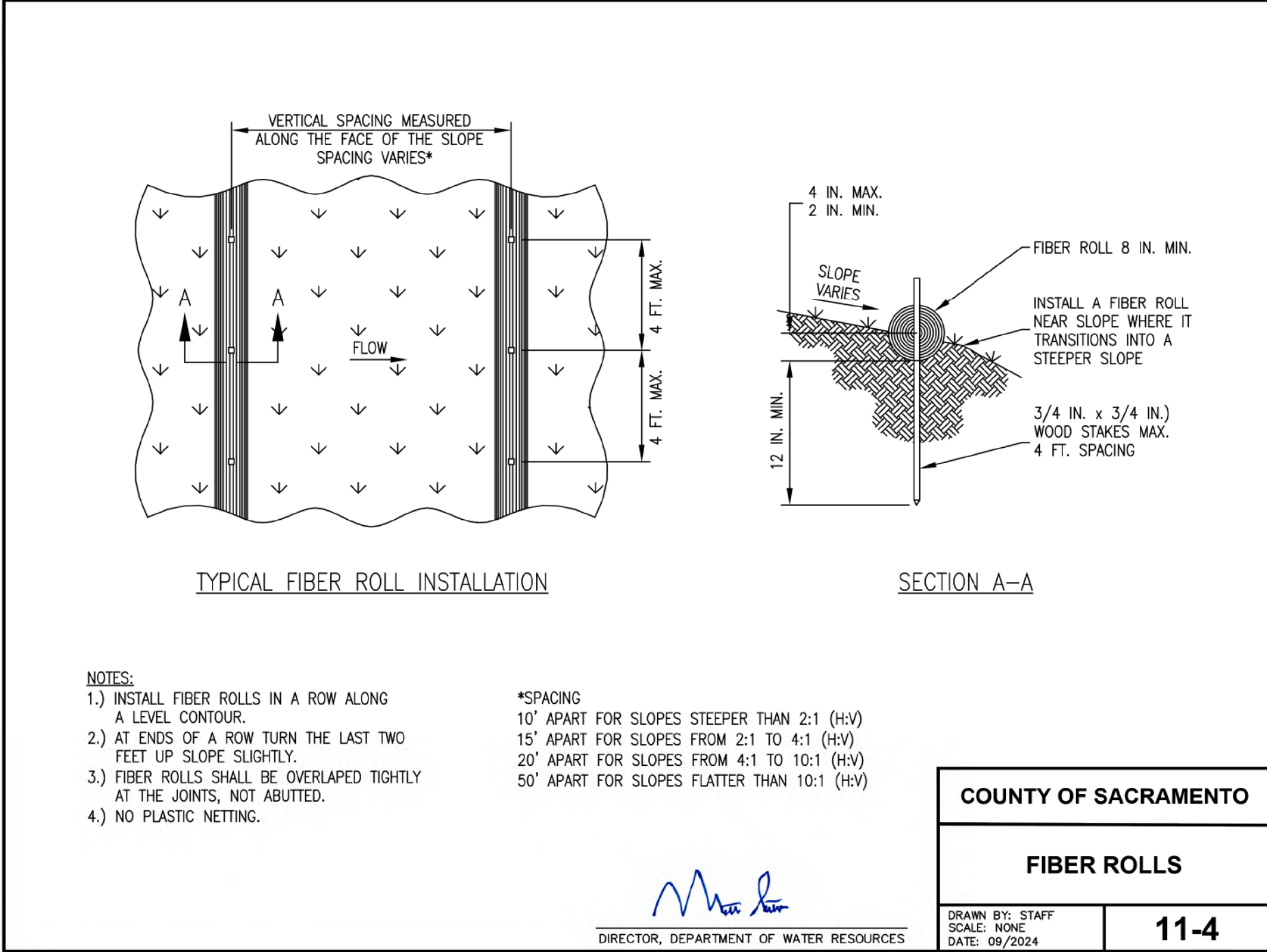
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DATE: 10/14/2026



STABILIZED CONSTRUCTION SITE ACCESS

SAC. COUNTY STD. DETAIL 11-1
NO SCALE

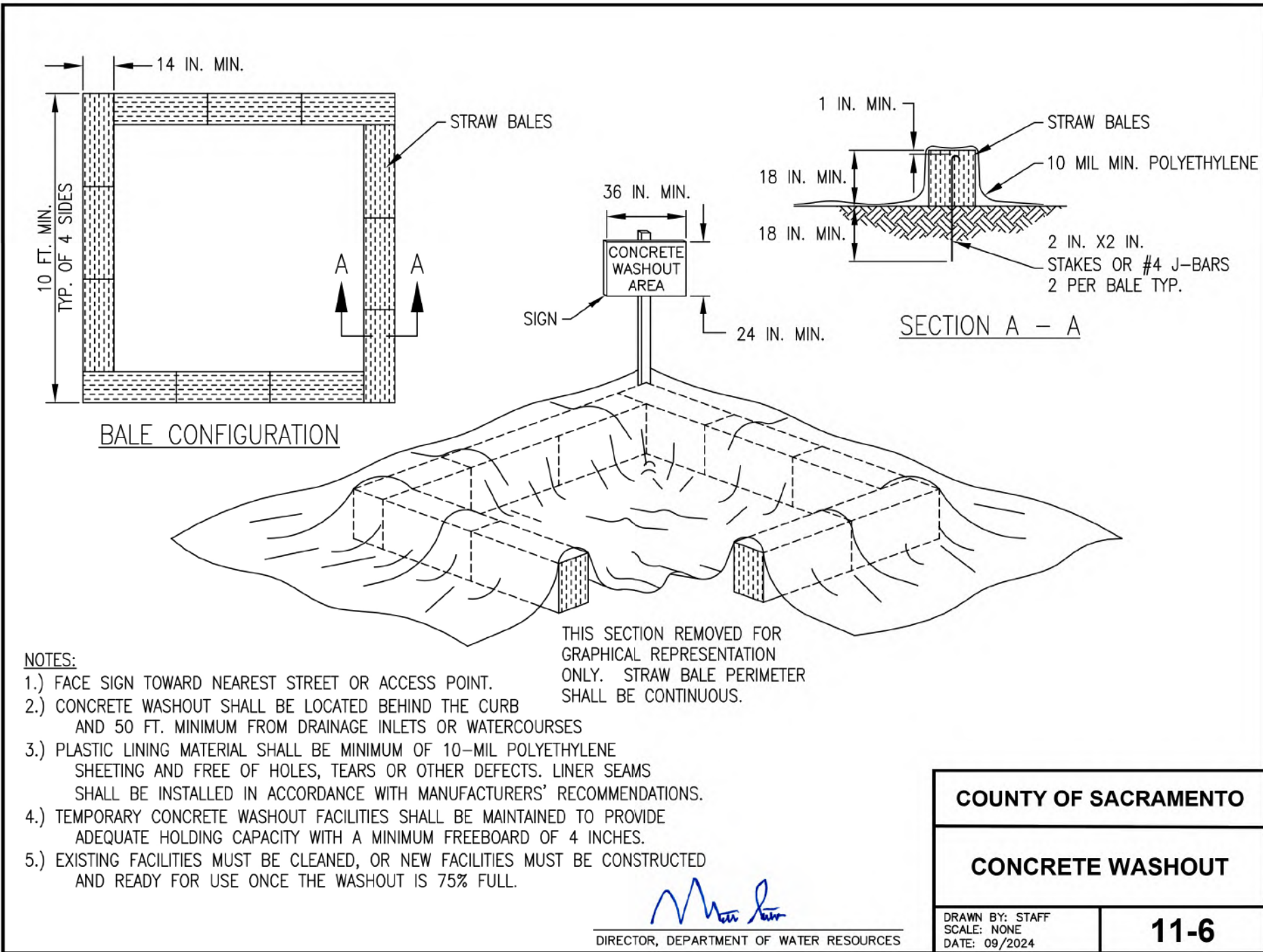
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FIBER ROLLS

SAC. COUNTY STD. DETAIL 11-4
NO SCALE

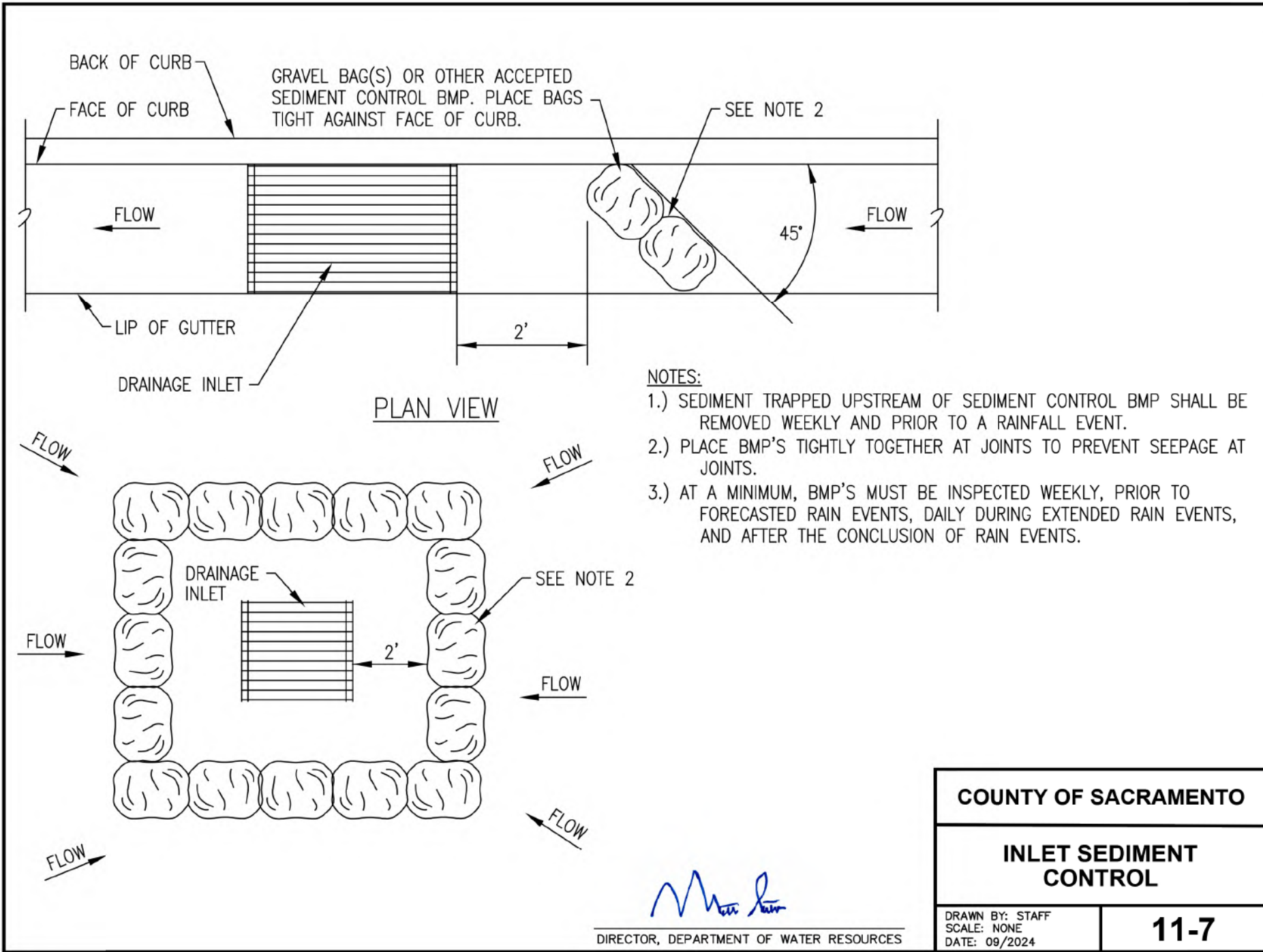
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CONCRETE WASHOUT

SAC. COUNTY STD. DETAIL 11-6
NO SCALE

4
-



INLET SEDIMENT CONTROL

SAC. COUNTY STD. DETAIL 11-7
NO SCALE

5
-

NOTES:

1. PROJECT DISTURBANCE IS LESS THAN 1.0 ACRE AND AS SUCH NOT SUBJECT TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES, REQUIRING BEST MANAGEMENT PRACTICES. HOWEVER, THE CONSTRUCTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMPs) FOR STORM WATER AND NON-STORM WATER MANAGEMENT.
2. DETAILS ON THIS SHEET ARE PROVIDED AS BEST MANAGEMENT PRACTICES. CONTRACTOR SHALL IMPLEMENT THESE METHODS FOR STORM WATER AND NON-STORM WATER MANAGEMENT FOR THIS PROJECT.

BID SET

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		DATE:	10/14/2026	REV.	DATE	APP.

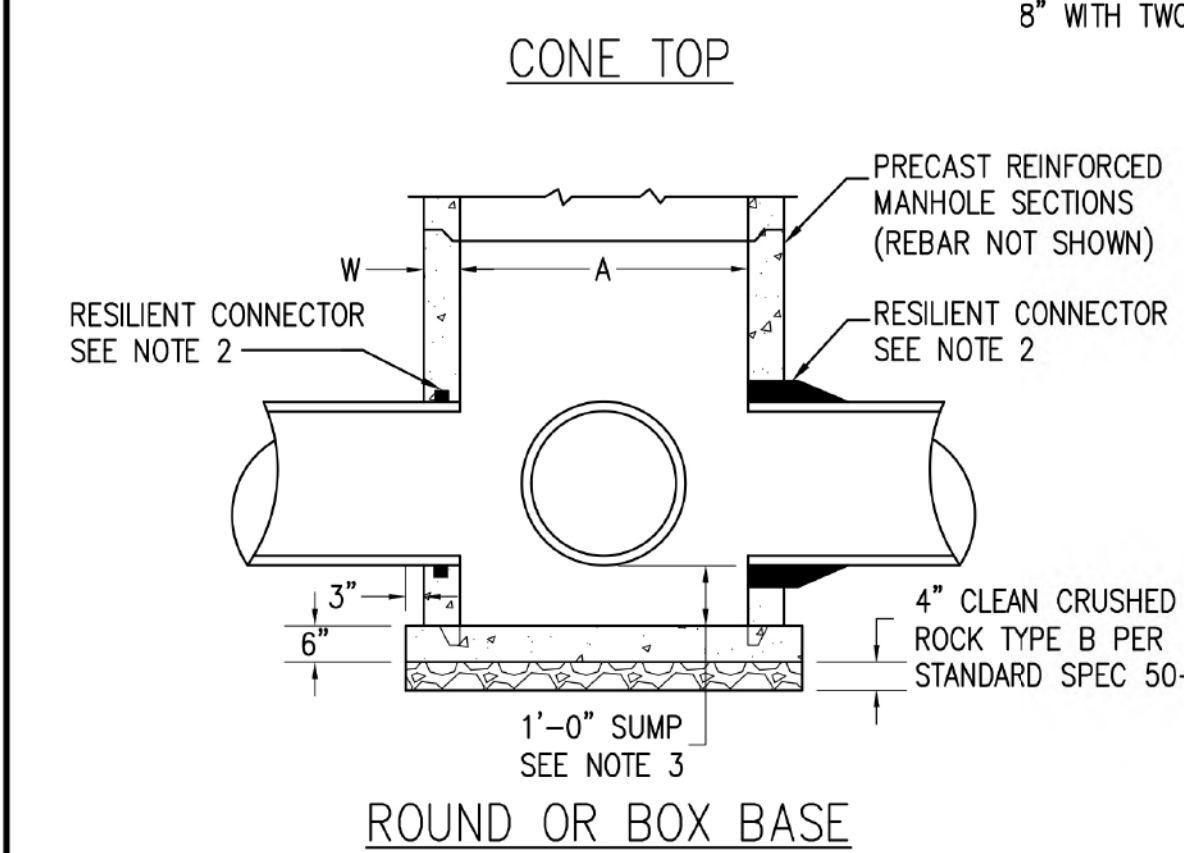
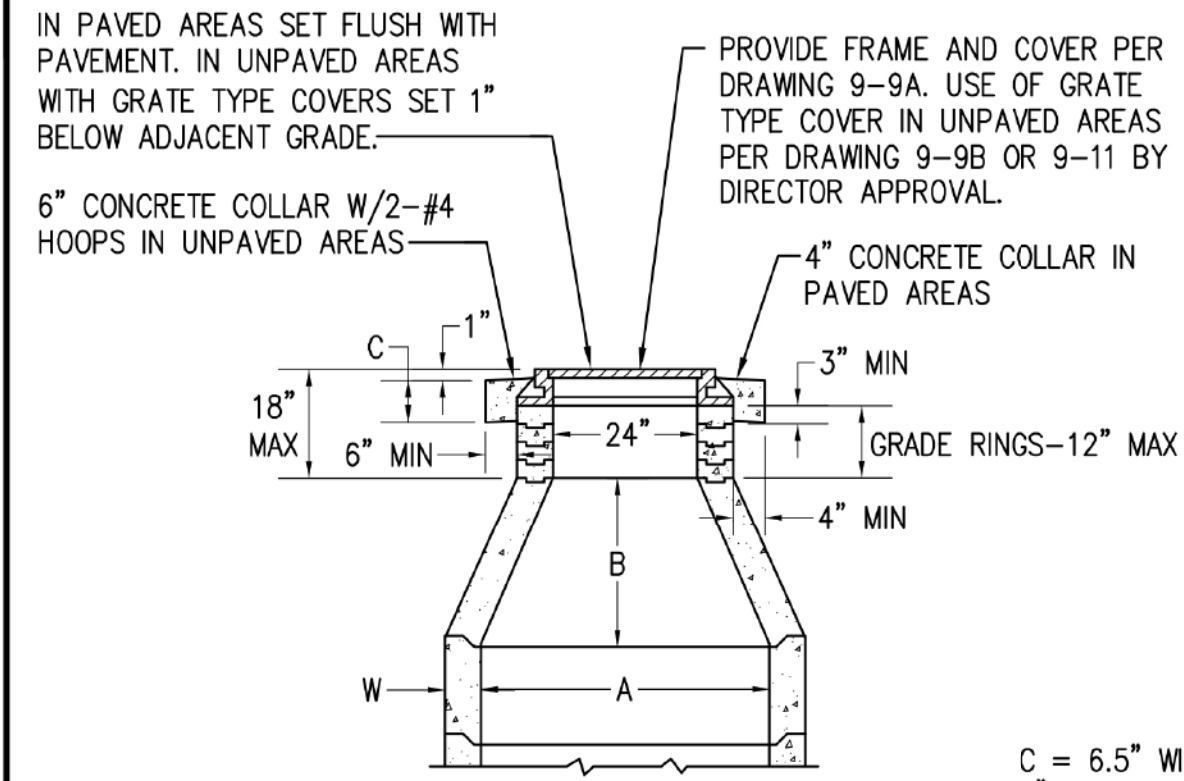
FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS
BEST MANAGEMENT PRACTICE DETAILS

DATE: **SEP 2026**
SCALE:
VER.:



SHEET **C5**
OF 8 SHEETS **48**
PROJECT NUMBER **C26WTNWRE**

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DATE: 10/14/2026



SACRAMENTO COUNTY STANDARD DRAINAGE MANHOLES

NOT TO SCALE

COUNTY OF SACRAMENTO

STANDARD PRECAST CONCRETE DRAINAGE MANHOLE

DRAWN BY: STAFF
SCALE: NONE
DATE: 09/2024

9-7A
SHEET 1 OF 2

DIRECTOR, DEPARTMENT OF WATER RESOURCES

NOTES:
1. ALL MANHOLES SHALL MEET H-20 LOAD SPECIFICATIONS.

2. PRECAST MANHOLES SHALL USE FLEXIBLE COMPRESSION GASKET OR BOOT CONNECTOR CONFORMING TO ASTM C-923. (CONNECTION SHALL BE WATER AND SOIL TIGHT). FOR PIPES GREATER THAN 30" I.D., BASE MAY BE CAST-IN-PLACE WITH A WATER STOP CONFORMING TO ASTM C-923.
3. SUMP SHALL BE 1'-0" DEEP, MEASURED FROM INVERT OF OUTFALL PIPE. SUMP NOT REQUIRED IF OUTFALL PIPE IS 24" I.D. OR LARGER. SUMPS SHALL NOT BE ALLOWED OUT OF THE COUNTY RIGHT OF WAY.
4. RISER SECTIONS, CONES, AND ADJUSTING RINGS SHALL CONFORM TO ASTM C-478.
5. ALL JOINTS SHALL BE MADE WITH PREFORMED PLASTIC JOINT SEALING COMPOUND OR PRE-LUBRICATED GASKET. FOLLOWING INSTALLATION, GROUT ALL INTERIOR AND EXTERIOR JOINTS.
6. CONCENTRIC COMPONENTS SHALL BE USED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
7. PRECAST MANHOLES SHALL BE SIZED TO PROVIDE THE FOLLOWING: THE ANNULAR SPACE ON THE INSIDE OF THE MANHOLE BARREL BETWEEN CORED PIPE CONNECTION HOLES SHALL BE A MINIMUM OF 12-INCHES OR HALF THE DIAMETER OF THE SMALLER CORED HOLE (WHICHEVER IS GREATER). IF THE CONNECTION HOLE IS CAST MONOLITHICALLY WITH THE MANHOLE BARREL THE MEASUREMENT SHALL BE TAKEN FROM THE FINISHED CONCRETE CONNECTION SURFACE.
8. SEE SECTION 39, "MANHOLES".
9. CONSTRUCT WITH FLAT TOP WHEN HEIGHT IS TOO SHALLOW TO CONSTRUCT WITH CONES.
10. FOR THE SLAB REDUCER OF THE BOX MANHOLE (BOX TO ROUND DIAMETER), THE DIAMETER OF THE ROUND REDUCER SHALL NOT BE MORE THAN 12" SMALLER THAN THE INSIDE BOX WIDTH.
11. FLAT TOP MANHOLES SHALL HAVE A 36" MANHOLE FRAME AND COVER PER DRAWING 9-10.

SACRAMENTO COUNTY STANDARD DRAINAGE MANHOLES NOTES

NOT TO SCALE

COUNTY OF SACRAMENTO

STANDARD PRECAST CONCRETE DRAINAGE MANHOLE

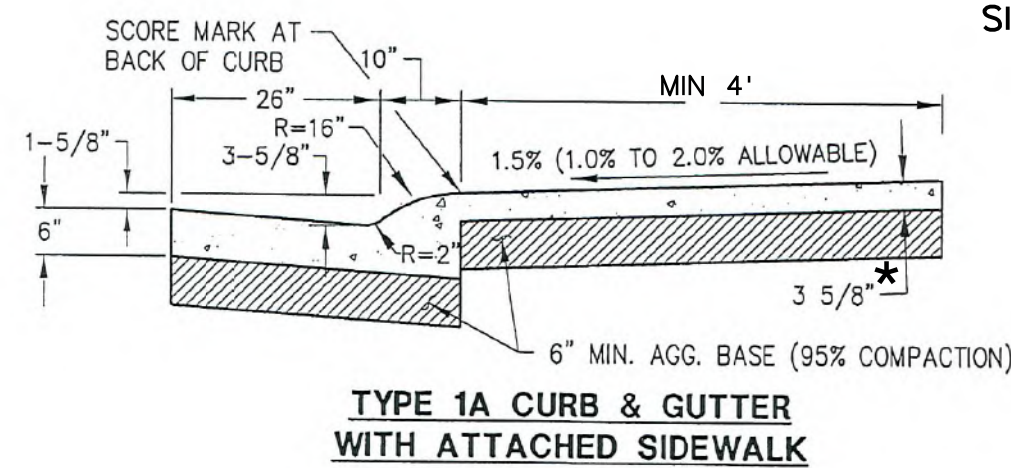
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SCALE: NONE
DATE: 09/2024

9-7A
SHEET 2 OF 2

DIRECTOR, DEPARTMENT OF WATER RESOURCES

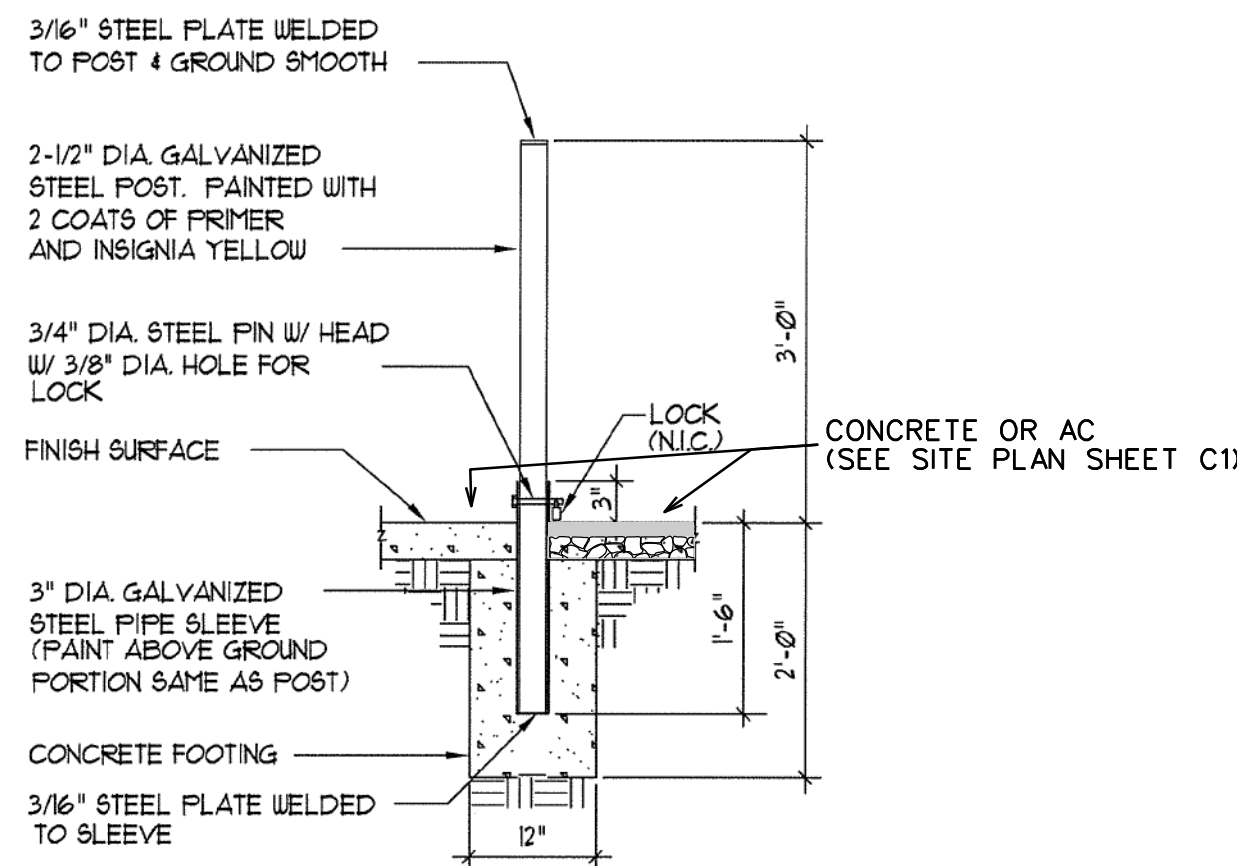
1. SEE SECTION 27-3.01 OF COUNTY STANDARD CONSTRUCTION SPECIFICATION FOR REQUIREMENTS FOR EXPANSION JOINTS, WEAKENED PLANE JOINTS AND SCORE MARKS 1/2" RADIUS ON EXPOSED EDGES UNLESS NOTED OTHERWISE.

* AT WELL DRIVEWAYS CONSTRUCT SIDEWALK WITH 6" PCC OVER 6" A.B.



SACRAMENTO COUNTY TYPE 1A CURB & GUTTER WITH ATTACHED SIDEWALK

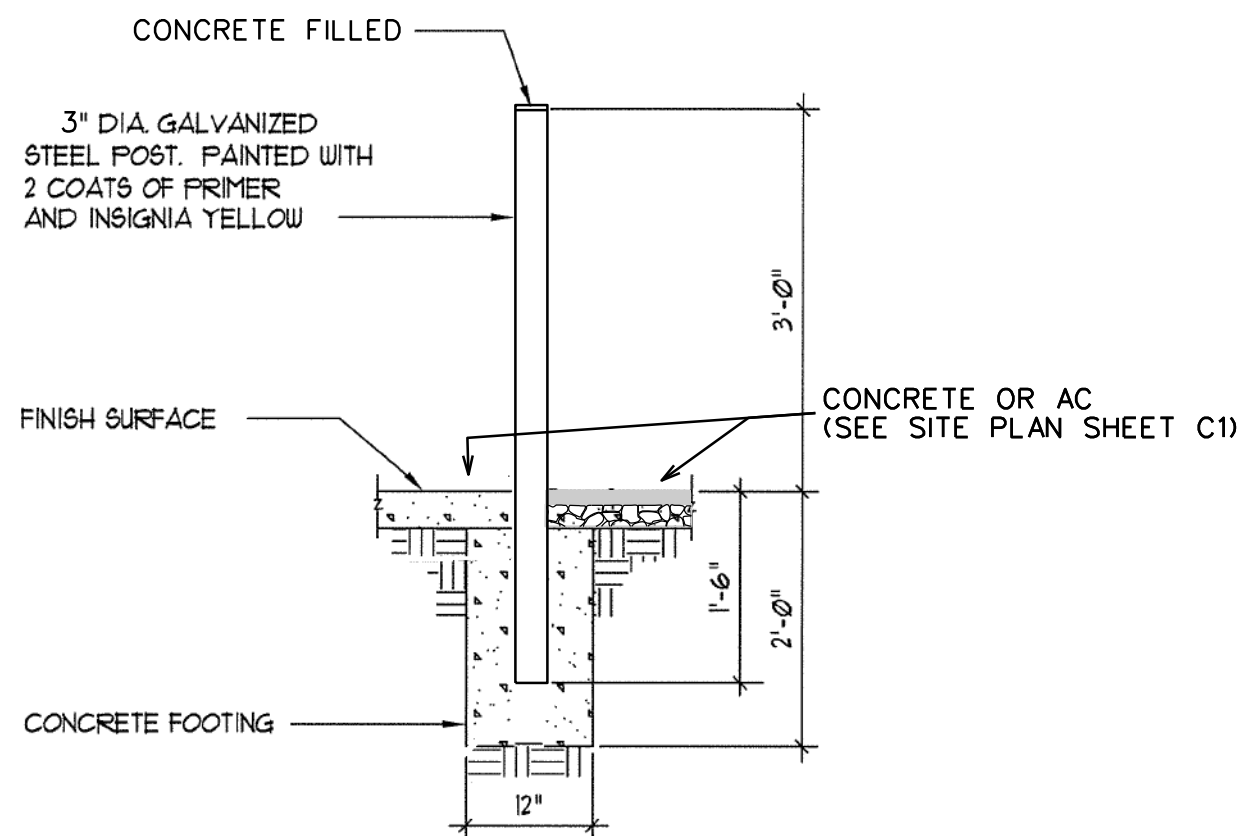
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NOTE: DRILL A 3/16" DIA. HOLE THRU BOTH THE POST AND SLEEVE FOR PIN PLACEMENT.

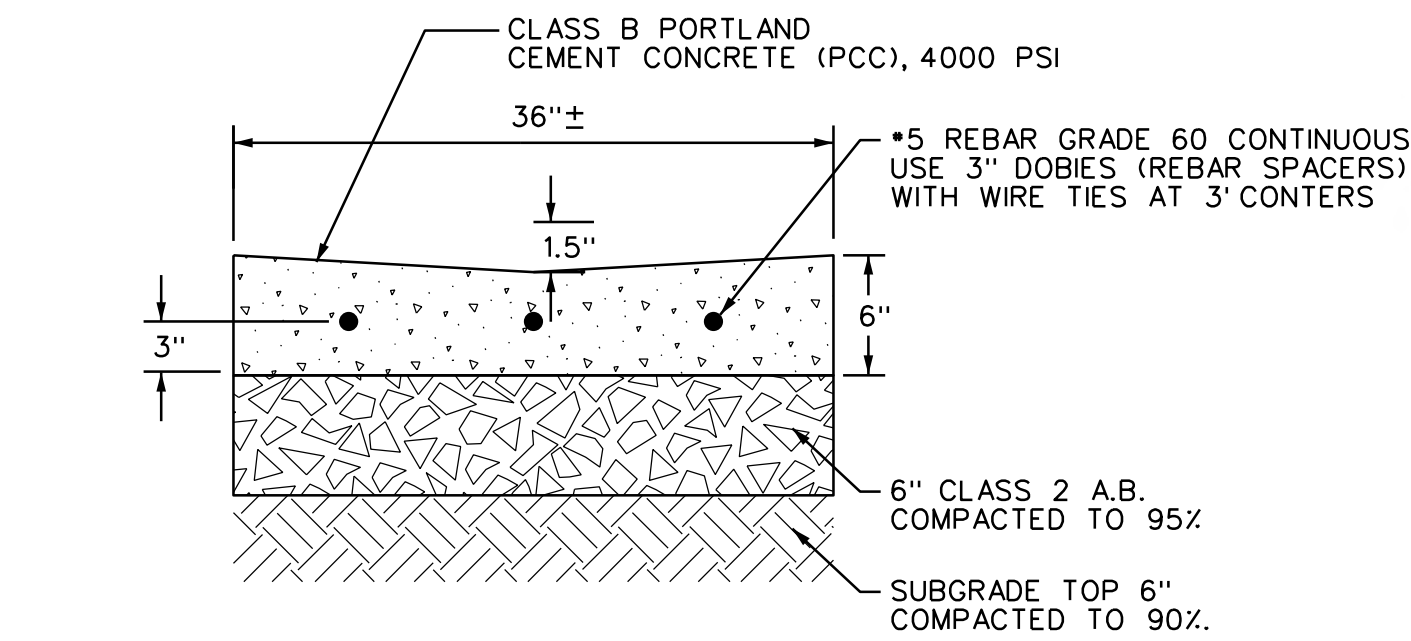
REMOVABLE BOLLARD

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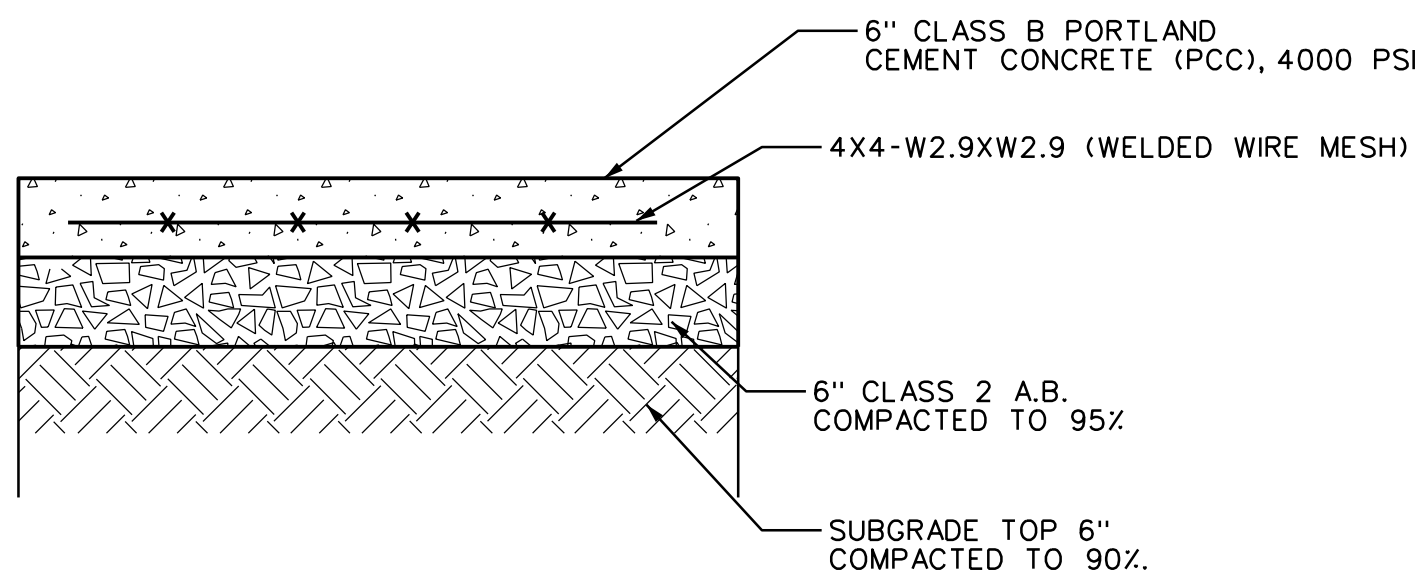
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NO SCALE



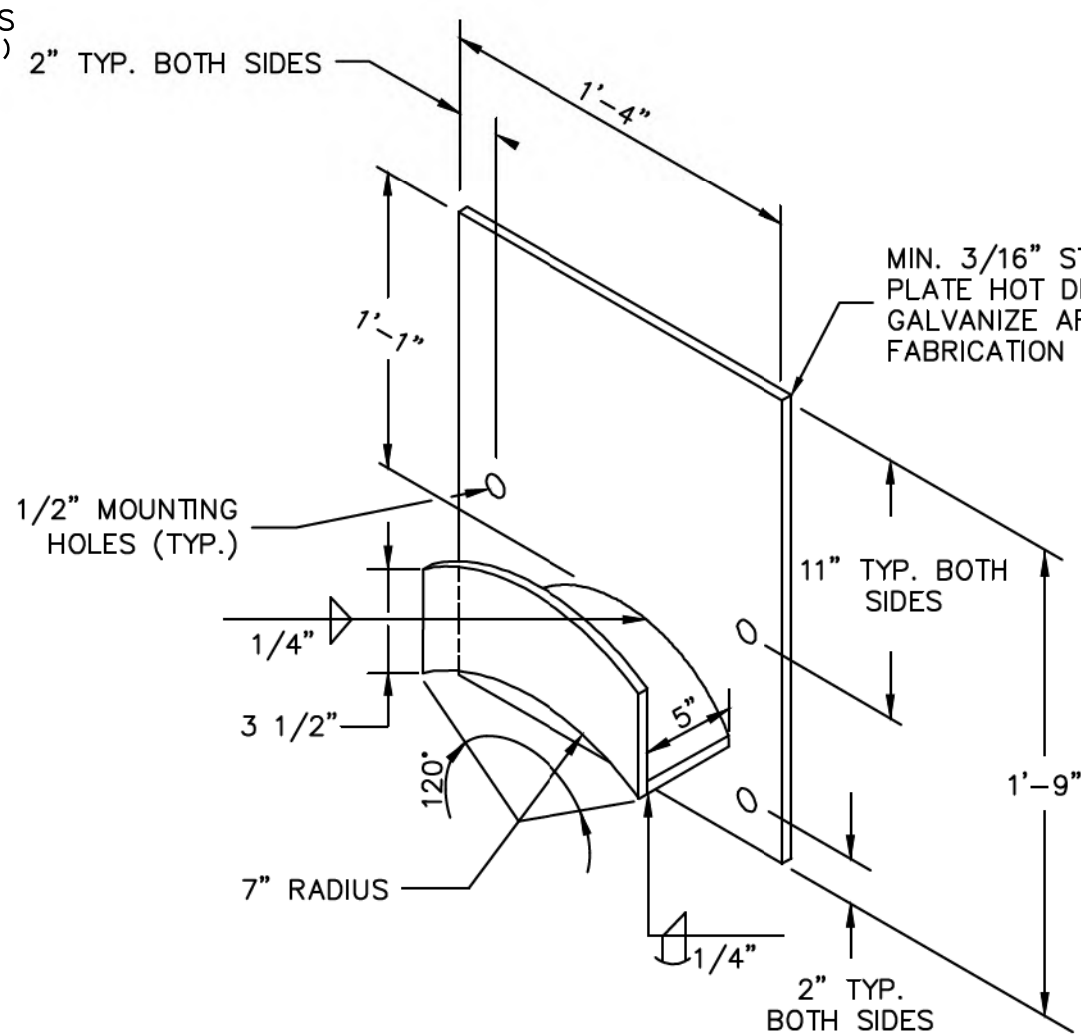
CONCRETE SWALE

NO SCALE



CONCRETE PAVEMENT SECTION

NO SCALE

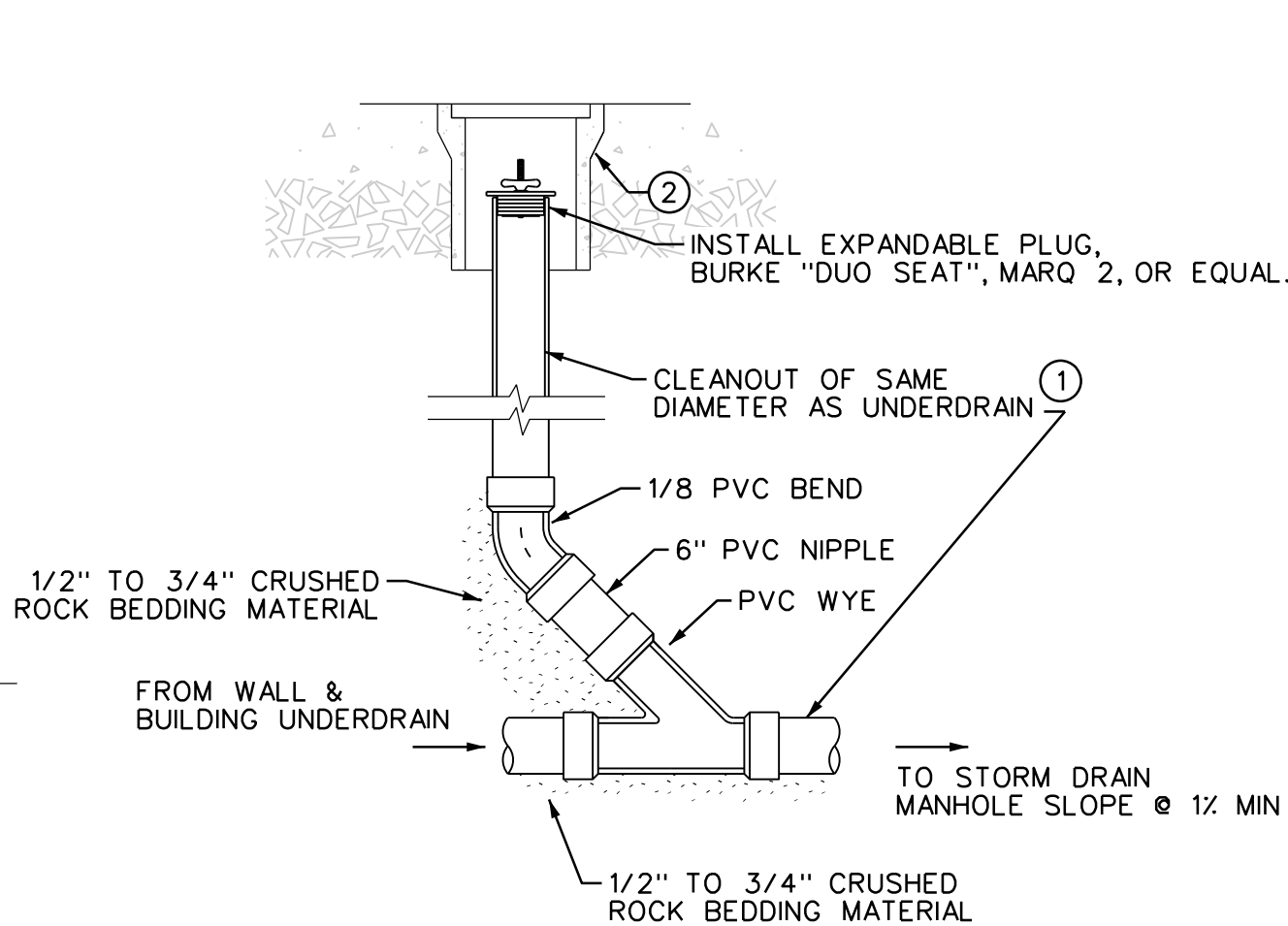
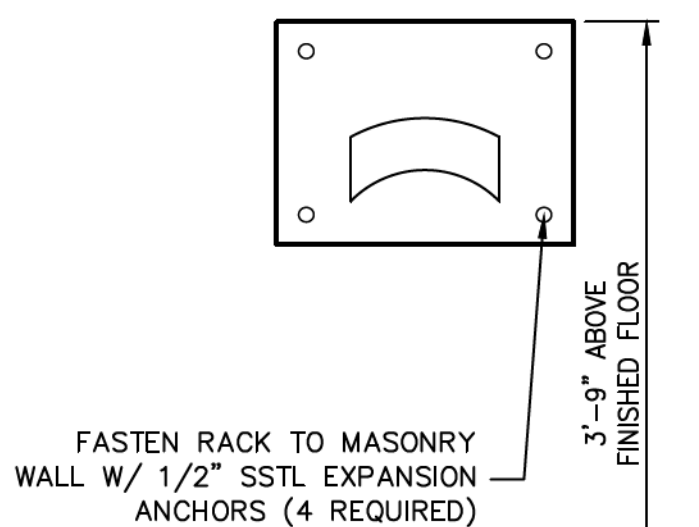


HOSE RACK NOTES:

1. HOSE RACK & MOUNTINGS SHALL BE WELDED CONSTRUCTION OF 8 GA. STEEL. ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
2. HOT DIP GALVANIZE ALL NON SSTL COMPONENTS AFTER FABRICATION. FIELD PAINT PER SPECIFICATIONS.
3. EDGES OF HOSE RACK SHALL BE SMOOTH AND ROUNDED SO AS NOT TO POSE A HAZARD.

WALL MOUNTED HOSE RACK DETAIL

NOT TO SCALE



- ① CLEANOUT TO GRADE TO BE PLASTIC DWV TYPE PVC (ASTM D2665) WITH SOLVENT WELD JOINTS.
- ② INSTALL CHRISTY G-5 CONCRETE VALVE BOX WITH G-5-C CAST IRON TRAFFIC LID

CLEANOUT TO GRADE

NO SCALE

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FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

CIVIL DETAILS 1

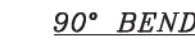
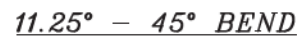
DATE: SEP 2026
SCALE:
VER.:



SHEET C6
OF 9 SHEETS 48
PROJECT NUMBER C26WTNWRE

BID SET

THRUST CALCULATED USING $T=2P\sin(A/2)$ FOR ANGLED FITTINGS AND $T=PA$ FOR TIES AND DEAD ENDS, WHERE: P=PIPE PRESSURE, A=PIPE AREA, AND Δ =ANGLE. BEARING AREA CALCULATED USING $BA=FS(1)/SB$, WHERE: FS=SAFETY FACTOR AND SB=SOIL BEARING STRENGTH



1. THRUST BLOCKS ARE TO BE POURED AGAINST UNDISTURBED SOIL.
2. THRUST BLOCKS SHALL HAVE A MINIMUM DEPTH OF 12 INCHES.
3. THRUST BLOCKS ARE TO BE CONSTRUCTED OF CLASS B CONCRETE, MINIMUM 5 SACK MIX.
4. ALL FITTINGS MUST BE WRAPPED IN 8 MIL POLYETHYLENE WRAP BEFORE THE CONCRETE IS POURED.
5. THRUST BLOCKS ARE REQUIRED AT EVERY TEE, ELBOW, CROSS, OR DEAD END.
6. THRUST BLOCKS MUST BE KEED INTO VERTICAL WALL OF THE TRENCH,

THRUST BLOCK DETAILS

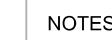
APPROVED:	B. CHETCUTI
DRAWN BY:	D. LEE
DRAWING:	STD-1
REVISED:	JUNE 2026
SCALE:	NONE



1. WARNING TAPE SHALL BE INSTALLED ABOVE ALL TRENCHED WATER FACILITY INSTALLATIONS. TAPE SHALL BE 15 WIDE (PROVIDE TWO TAPE RUNS FOR 16" AND LARGER DIAMETER PIPE). TAPE SHALL BE BLUE, MARKED "WATER MAIN BURIED BELOW" IN BOLD BLACK LETTERING.
2. TAPE SHALL BE INSTALLED WITH LESS THAN 30° OF COVER AND SHALL BE DUCTILE IRON.
3. PIPES INSTALLED WITH LESS THAN 30° OF COVER SHALL HAVE 6" OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) CONFORMING TO SACRAMENTO COUNTY STANDARDS BETWEEN THE COMPACTED SAND AND AB LAYERS.
4. TRENCH BACKFILL SHALL BE COMPACTED TO MEET THE STANDARD SPECIFICATIONS FOR TRENCH BACKFILL.
5. NO NATIVE BACKFILL TO BE ALLOWED IN TRENCHES CONTAINING FOWD WATER FACILITIES.
6. MAXIMUM LENGTH OF OPEN TRENCH SHALL BE 100 FEET OR AS APPROVED BY FOWD.
7. SAND AND COARSE AGGREGATE BASE SHALL BE COMPACTED TO MEET THE STANDARD SPECIFICATIONS FOR TRENCH BACKFILL.
8. THIS STANDARD APPLIES TO ALL TRENCHED WATER FACILITY INSTALLATIONS.

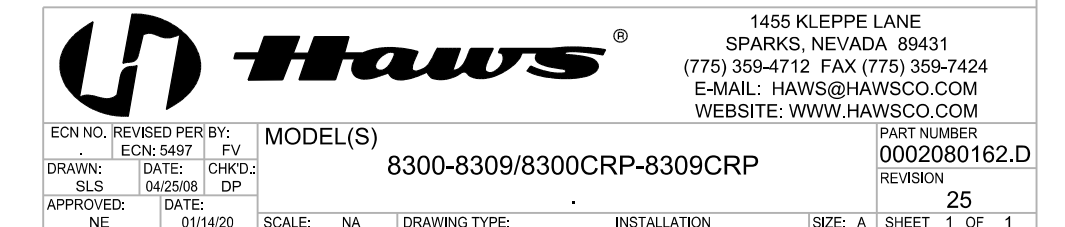
TRENCH DETAIL

APPROVED:	B. CHETCUTI
DRAWN BY:	D. LEE
DRAWING:	STD-8
REVISED:	JUNE 2026
SCALE:	NONE



1. DIMENSIONS MAY VARY BY 1/4 INCH (13mm).
2. TO COMPLY WITH ANSI Z358.1-2012 FOR EMERGENCY EYEWASH OR EYE/FACE WASH AND SHOWER EQUIPMENT:
- UNIT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ACCEPTABLE PLUMBING PRACTICES.
 - SHOWER OR EYE/FACE WASH SHALL BE INSTALLED SUCH THAT FLYING FLUID PATTERN IS NOT LESS THAN 53" (1354 mm) AND NOT GREATER THAN 53" (1354 mm) FROM SURFACE ON WHICH USER STANDS; AND 6.0" (153 mm) FROM WALL OR NEAREST OBSTACLE.
 - SHOWER SHALL BE POSITIONED SO THAT SHOWER HEAD IS NOT LESS THAN 208.3 CM (82 IN); NOR MORE THAN 243.8 CM (96 IN).
 - SHOWER SPRAY PATTERN SHALL HAVE A MINIMUM DIAMETER OF 50.8 CM (20 IN) AT 152.4 CM (60 IN), ABOVE SURFACE ON WHICH USER STANDS, AND CENTER OF SPRAY PATTERN SHALL BE LOCATED AT LEAST 40.6 CM (16 IN.) FROM ANY OBSTRUCTION.
3. DO NOT USE REGULAR PIPE SEALANT, IF NECESSARY USE DOW CORNING 832 SEALANT PLACING 5 SMALL DOTS FIRST THEN THE REST OF THE SEALANT.

NOTE: INSTALL HEAT TAPE ON SHOWER
EYE/FLUSH WASH SUPPLY PIPING



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NOT TO SCALE

FURNISH AND INSTALL WITH FOOT PEDAL



NOT TO SCALE



N.T.S.



N.T.S.



NOTES

- NOTES
1. MANHOLE COVER SHALL FIT EXISTING DRAIN INLET FRAME
 2. SEATING SURFACES SHALL BE MACHINED
 3. EXPOSED SURFACES OF THE CASTINGS, WITH THE PARTS ASSEMBLED AND DISASSEMBLED, SHALL BE PAINTED WITH COMMERCIAL QUALITY ASPHALTUM PAINT AFTER TESTING AND ASSEMBLY.

NO SCALING

NO SCALING



SCALE: NTS

SCALE: NTS

APP

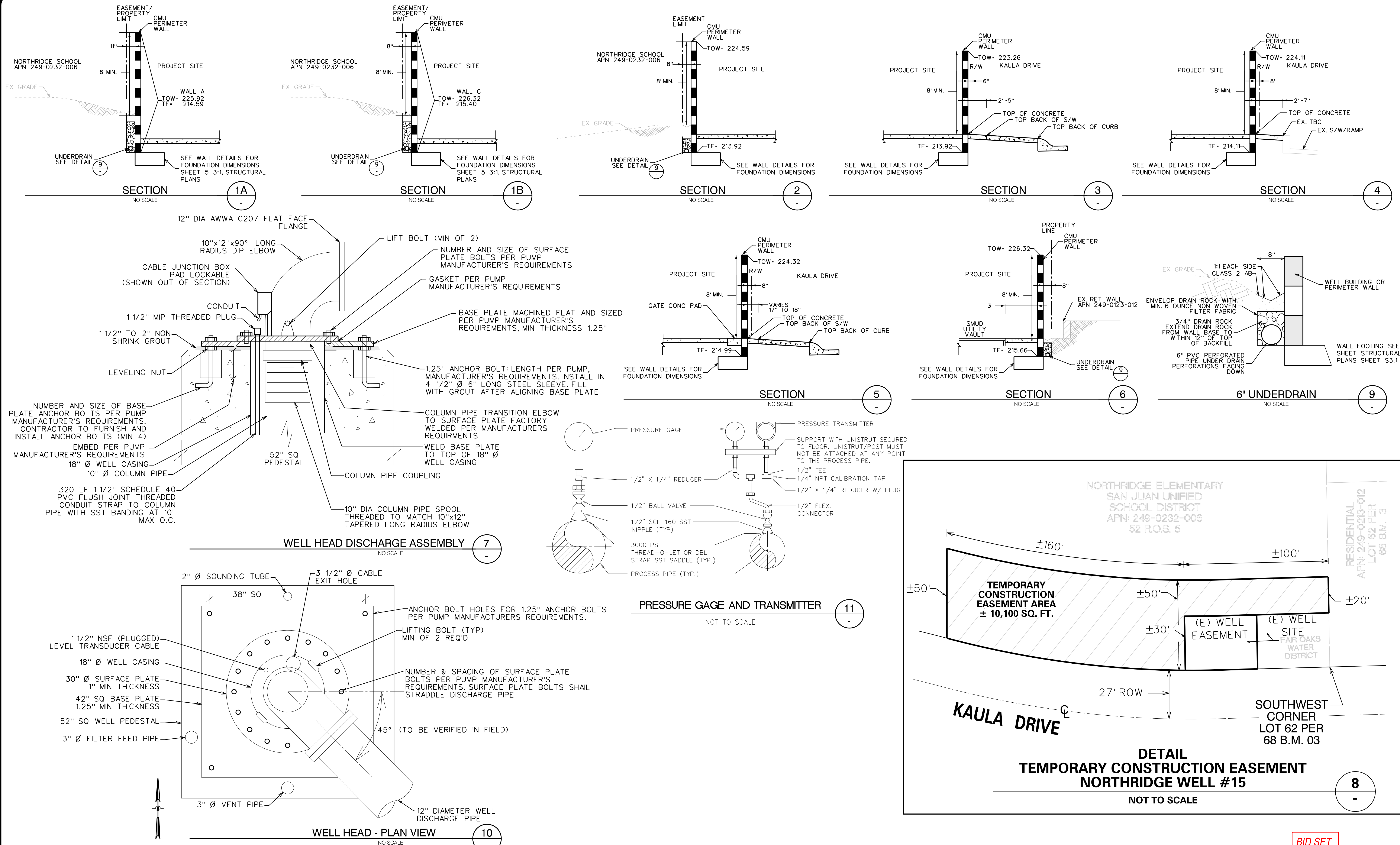
FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENTS

CIVIL DETAILS 2

VER.

PROJECT NUMBER
008679NWDE

FILE: C:\Users\NathonLee\KASL Consulting Engineers\Northridge Well Project\Plans - Phase 2\12_C9 TYPICAL SECTION.dgn DATE: 10/14/2026



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FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHDRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

DATE: SEP 2026
SCALE:
VER.:



SHEET C9
OF 12 SHEETS 48
PROJECT NUMBER C26WTNWRE

CIVIL DETAILS 4



FURNISH AND INSTALL ROLLING
GATES WITH ALUMINUM "V" TRACK
PER MANUFACTURER REQUIREMENTS



SECTION B-B



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		DATE: 10/14/2026	REV.	DATE	DESCRIPTION	APP.

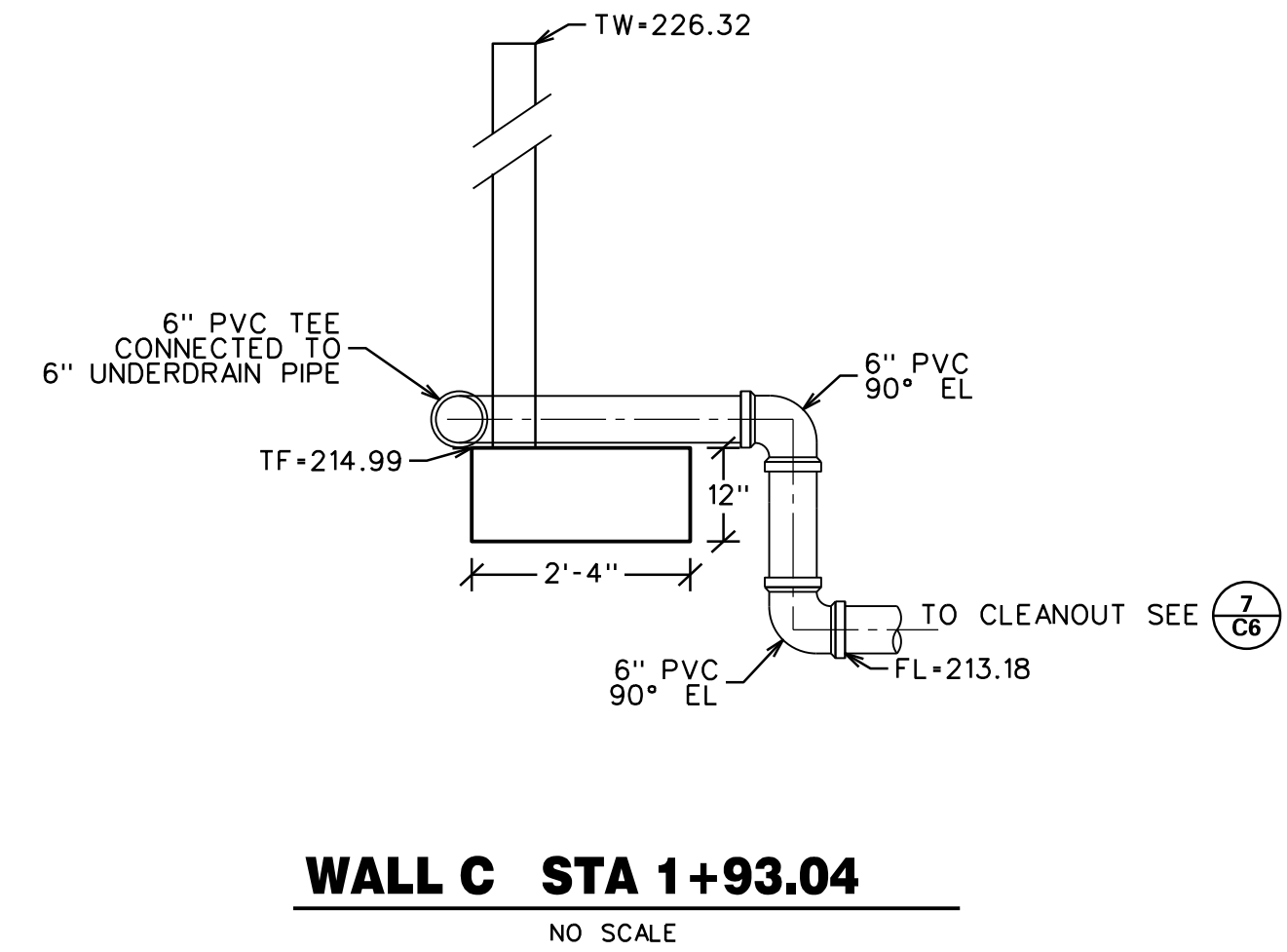
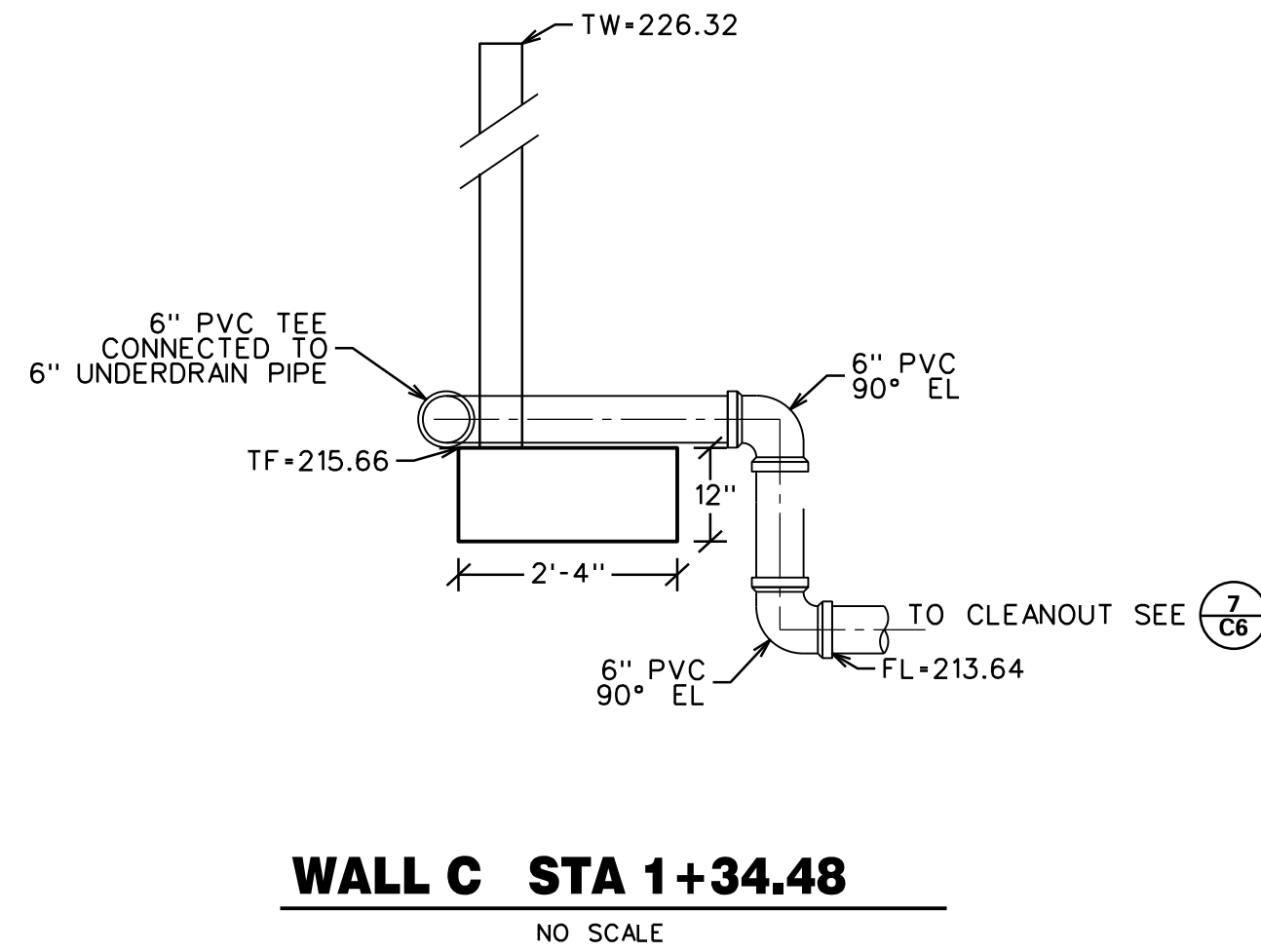
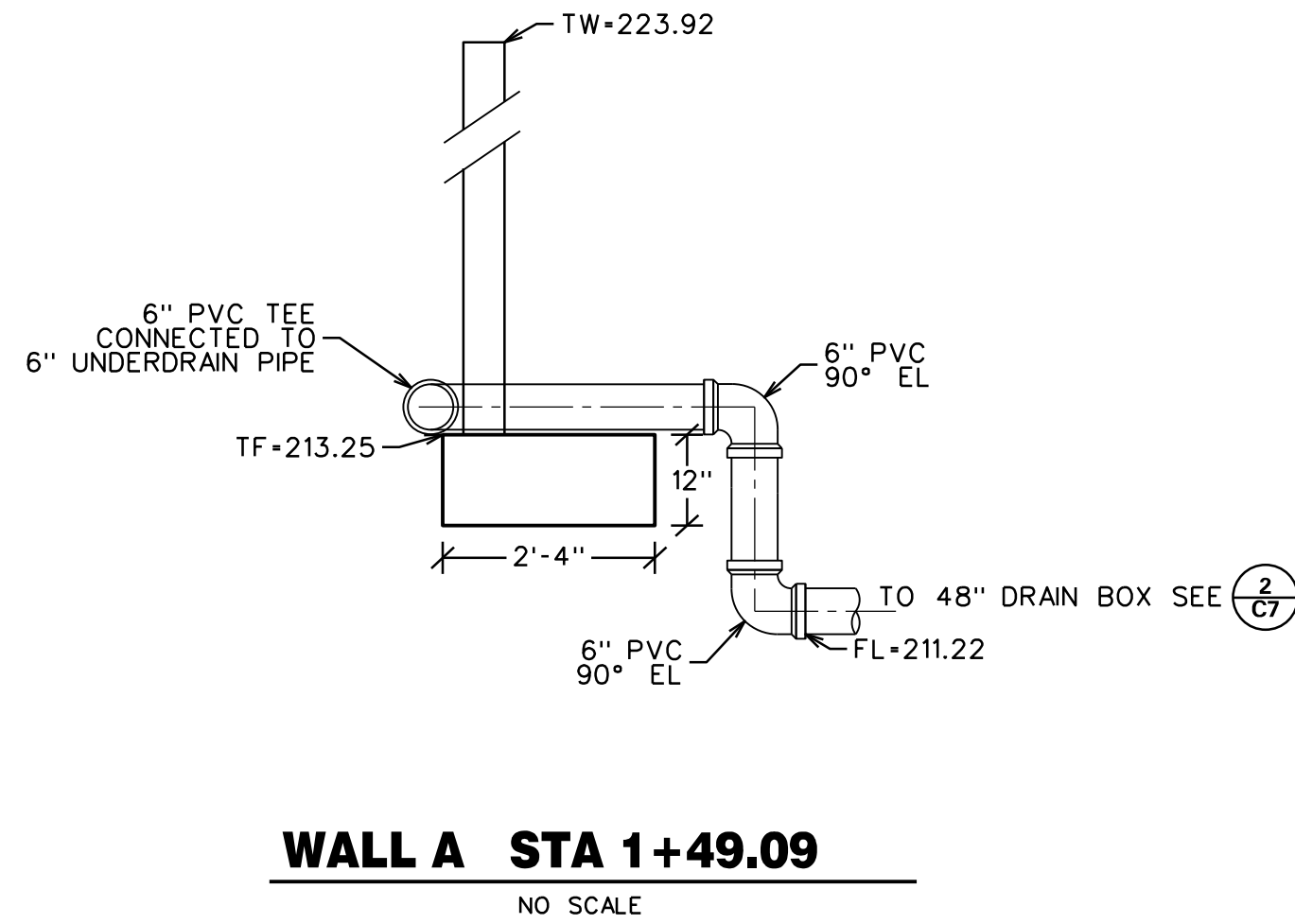
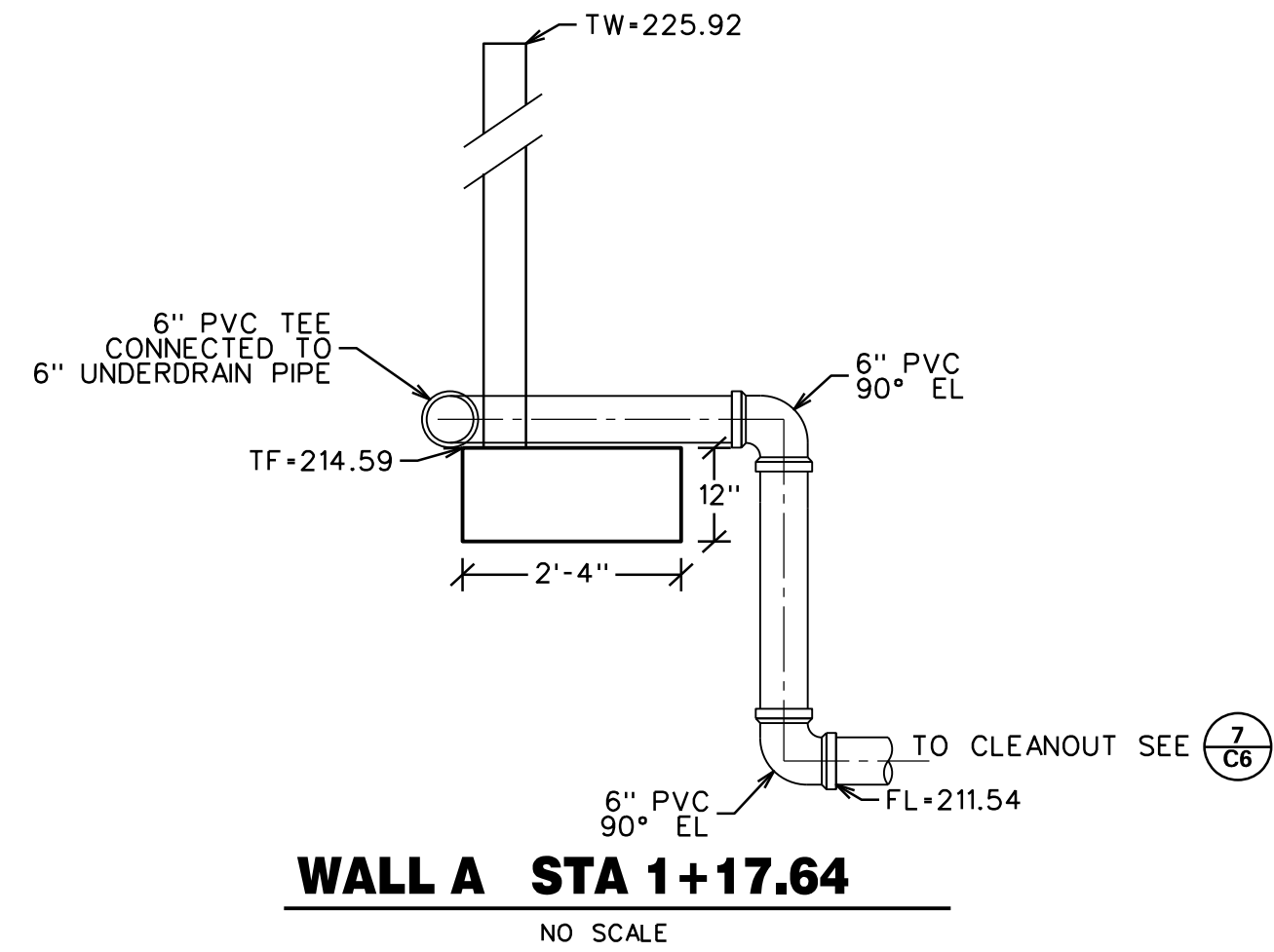
MANUAL ROLLING GATE PLANS

DATE:	SEP 2026
SCALE:	_____

VER.:	



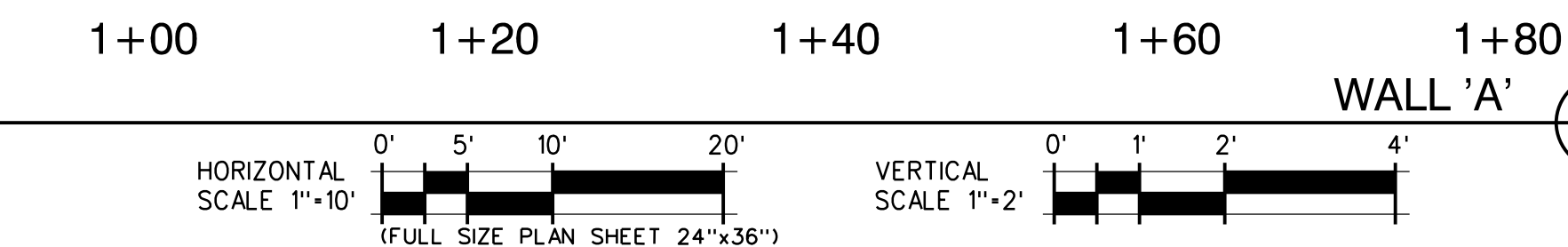
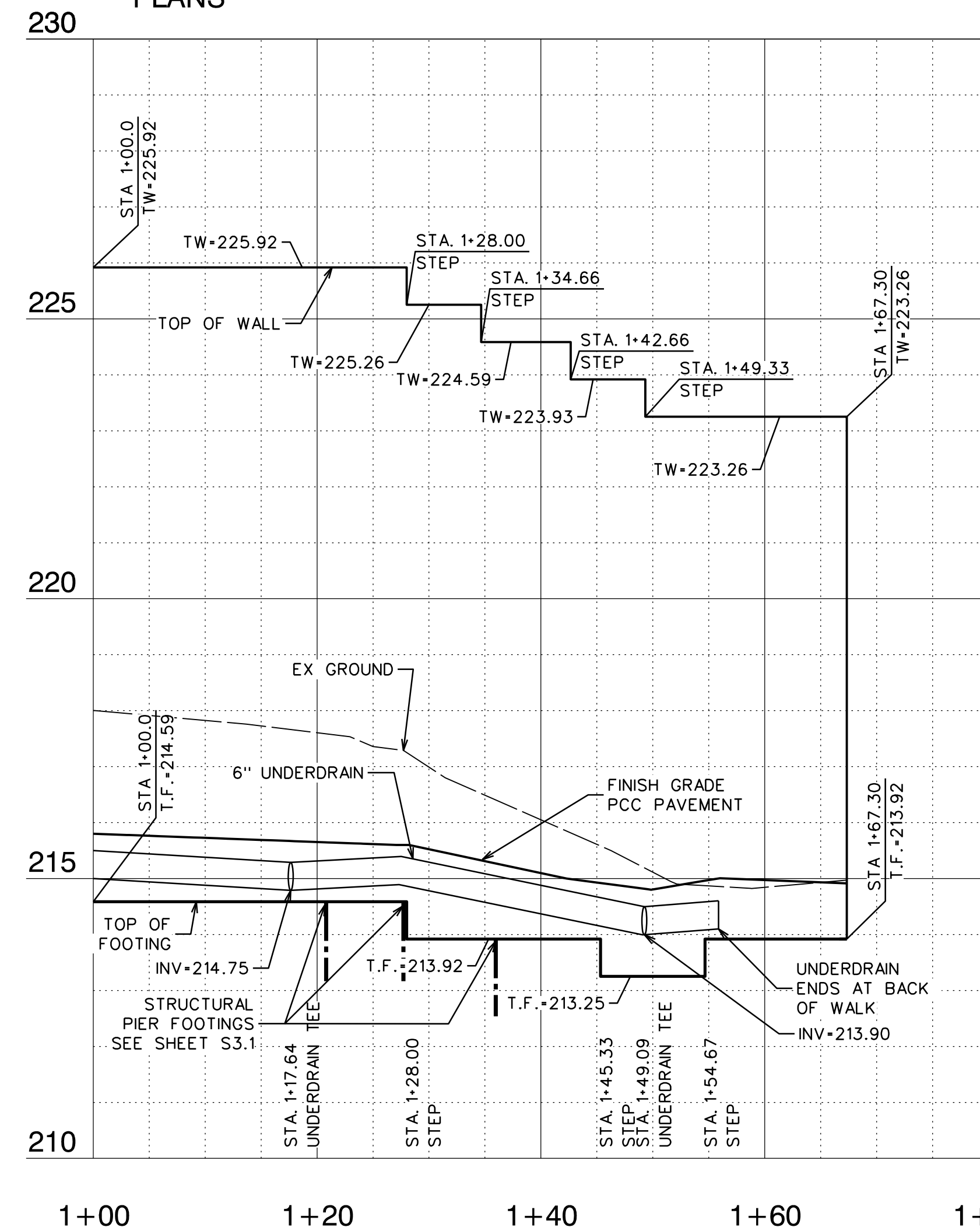
SHEET **C10**
OF 13 SHEETS **48**
PROJECT NUMBER
C26WTNWRE



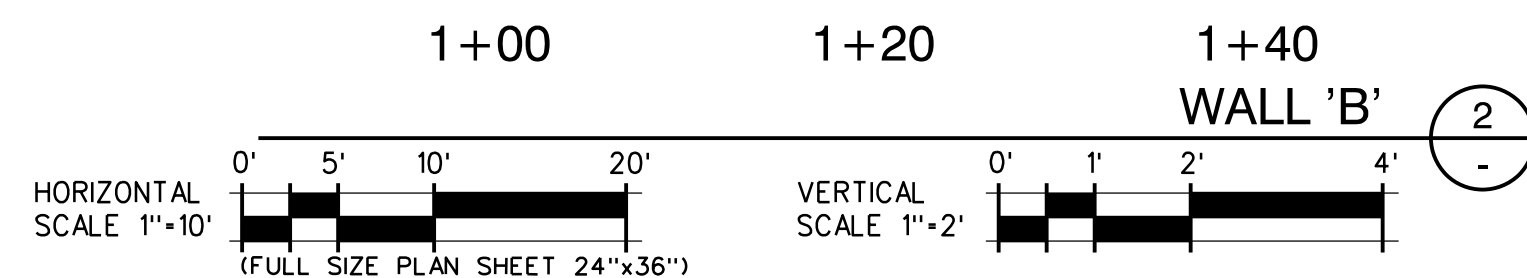
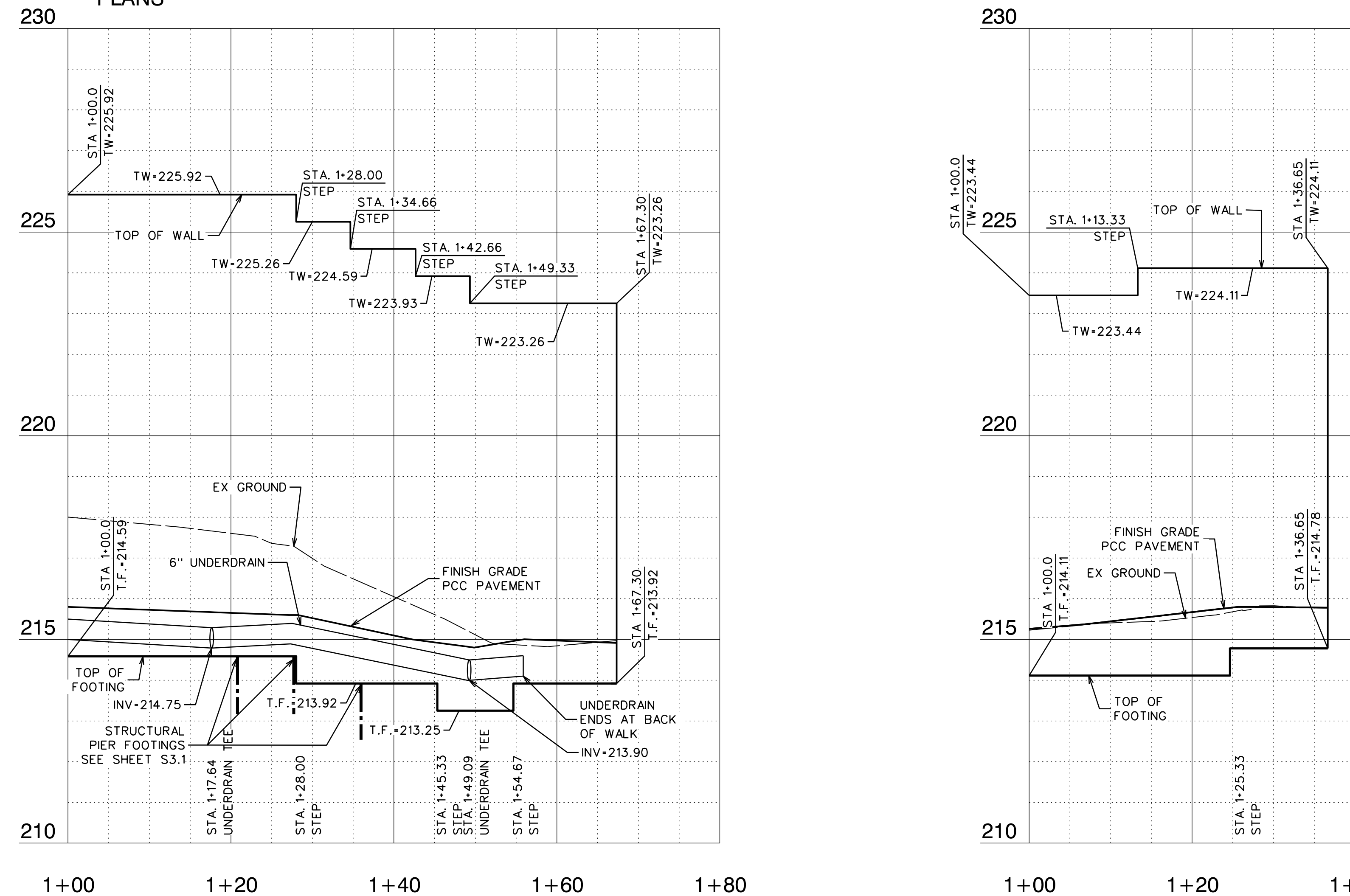
UNDERDRAIN DISCHARGE PIPE CONNECTIONS

4

WELL BUILDING
SEE ARCHITECTURAL
PLANS

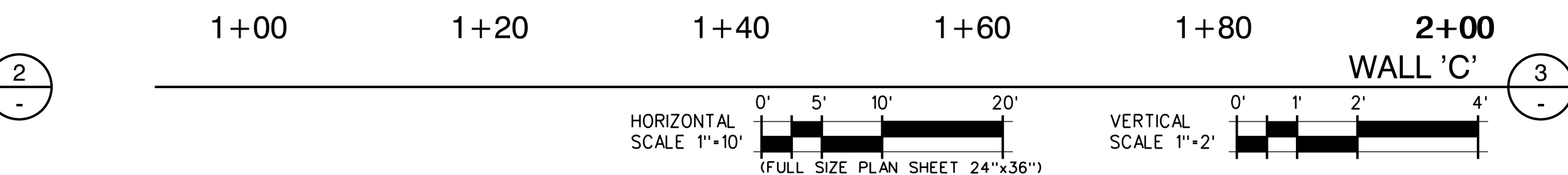
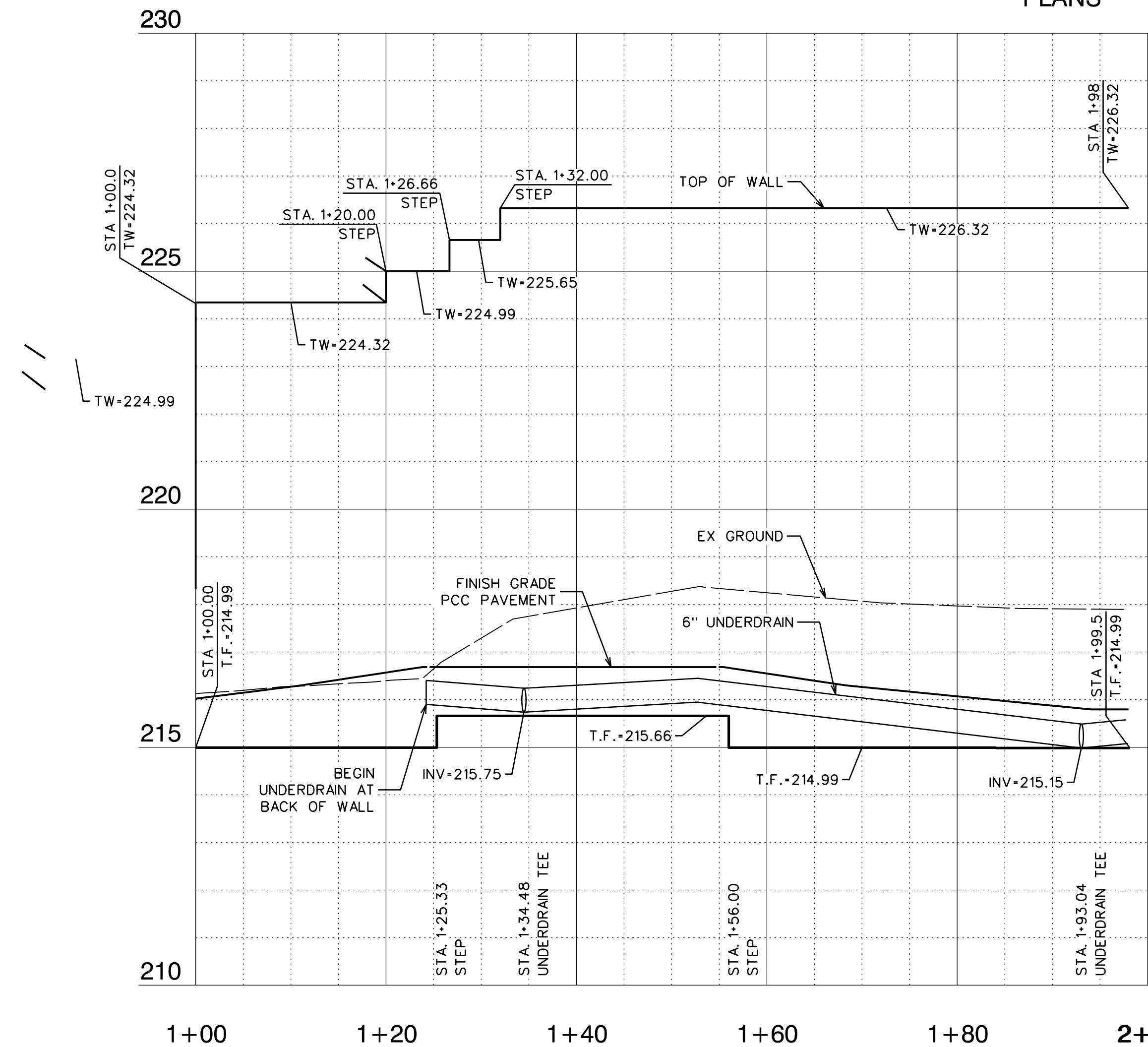


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		DATE:	10/14/2026	REV.	DATE	DESCRIPTION	APP.		



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REVIEWED BY:	DATE:	DRAWN BY:							
REVIEWED BY:	DATE:	CHECKED BY:							
		DATE:	10/14/2026	REV.	DATE	DESCRIPTION	APP.		

WELL BUILDING
SEE ARCHITECTURAL
PLANS



REVIEWED BY:	DATE:	DESIGNED BY:							
REVIEWED BY:	DATE:	DRAWN BY:							
REVIEWED BY:	DATE:	CHECKED BY:							
		DATE:	10/14/2026	REV.	DATE	DESCRIPTION	APP.		

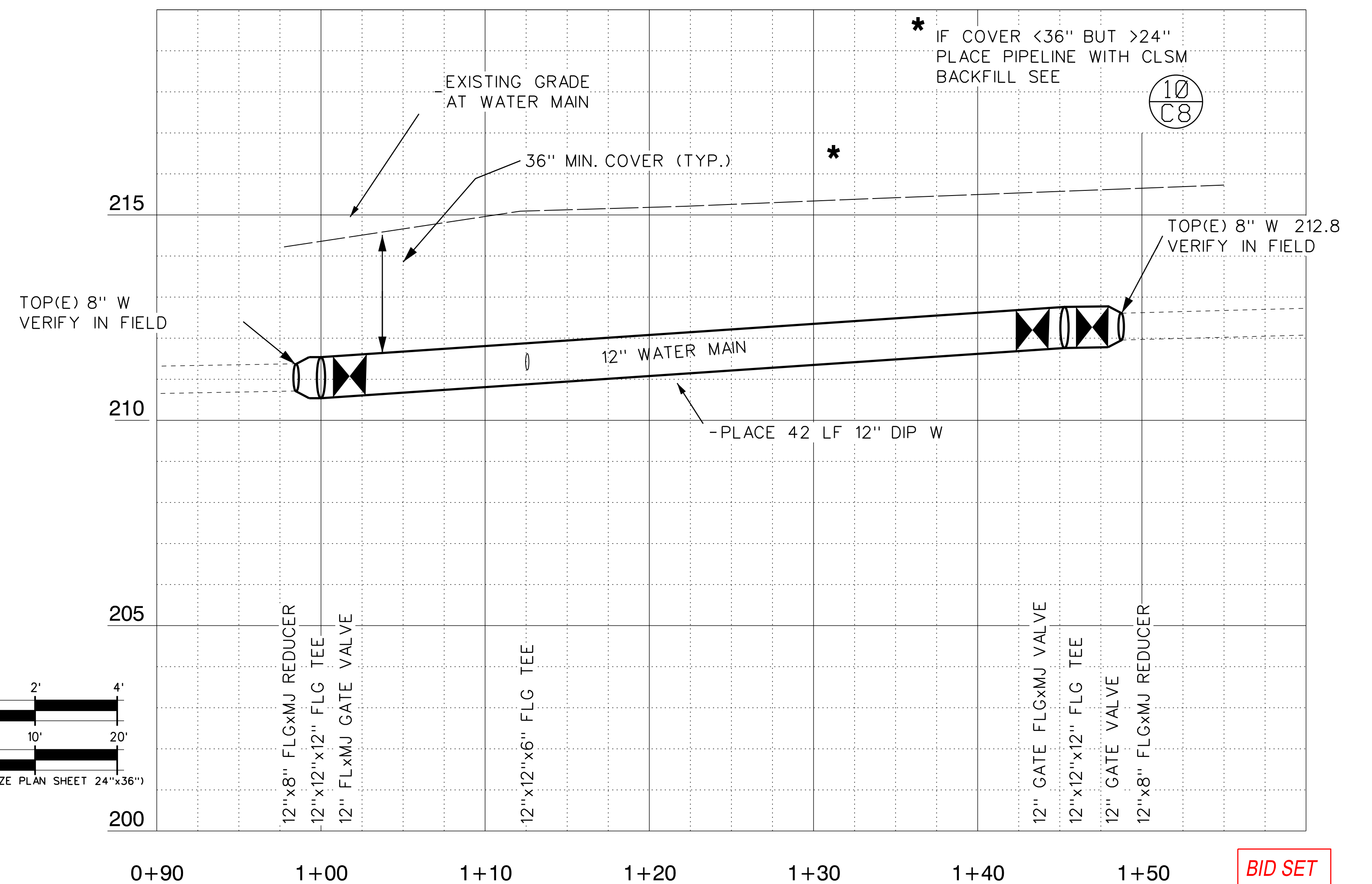
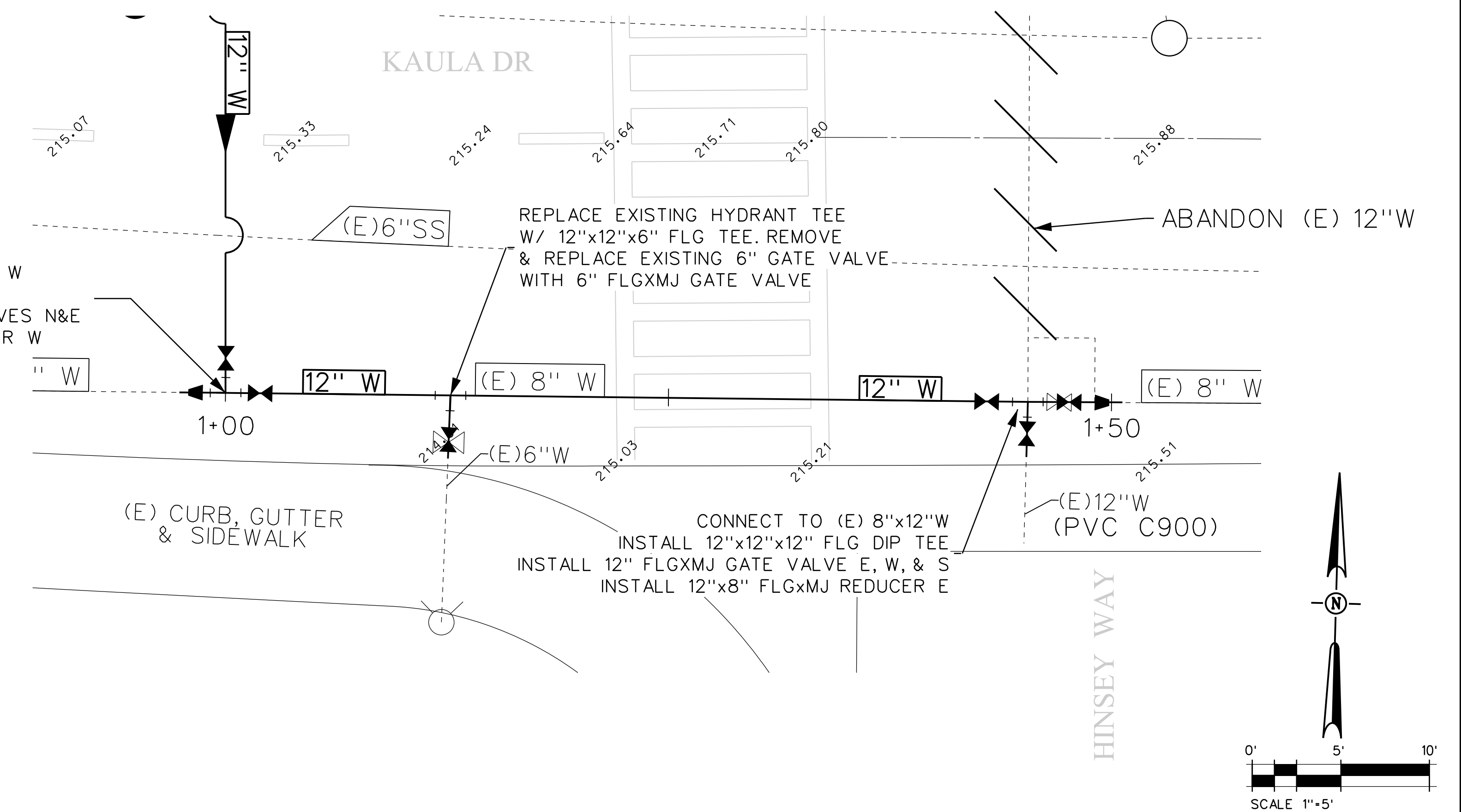
FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHBRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS
WALL 'A', 'B', & 'C' PROFILES

DATE: **SEP 2026**
SCALE:
VER.:



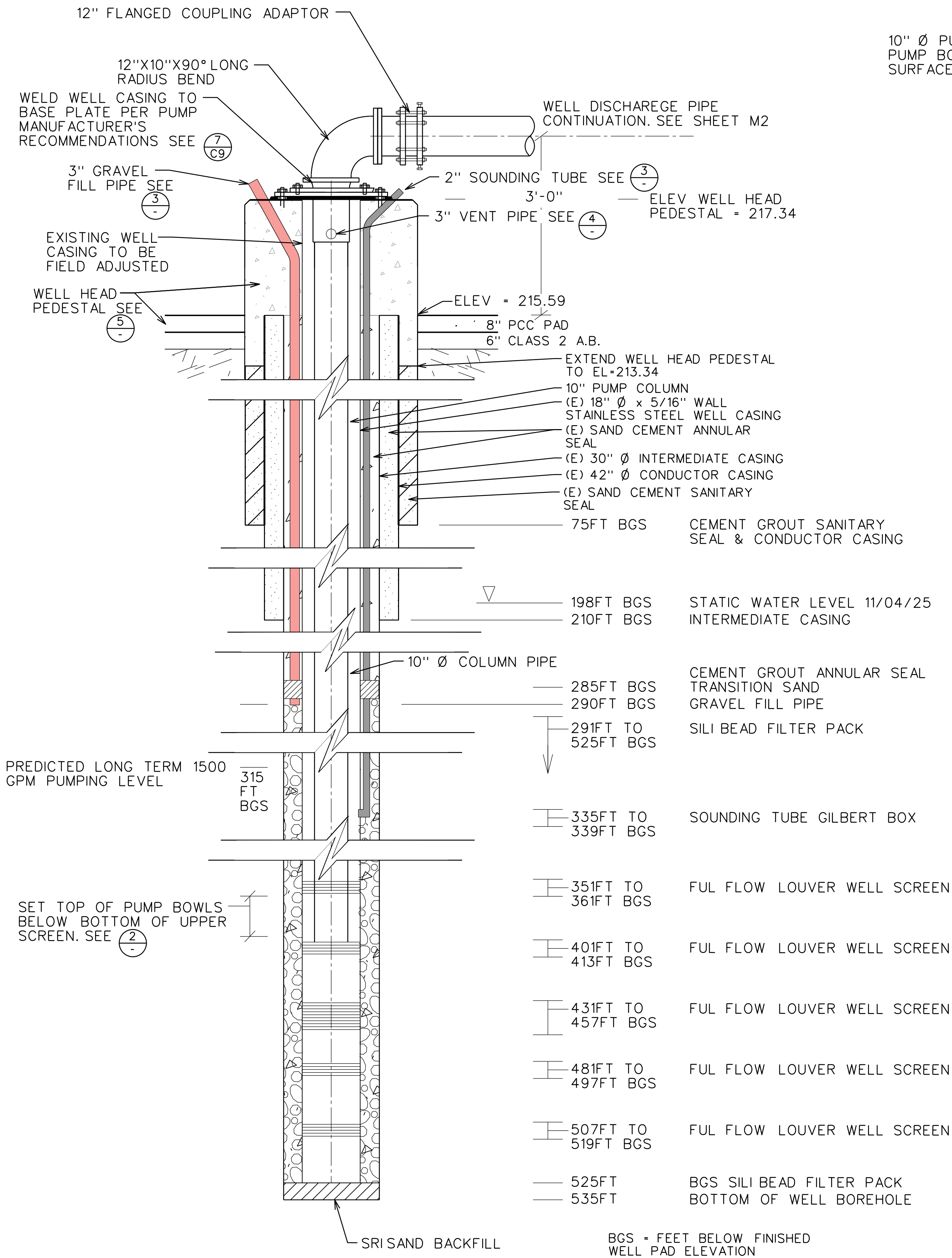
SHEET **C11**
OF **14** SHEETS **48**
PROJECT NUMBER
C26WTNWRE

BID SET

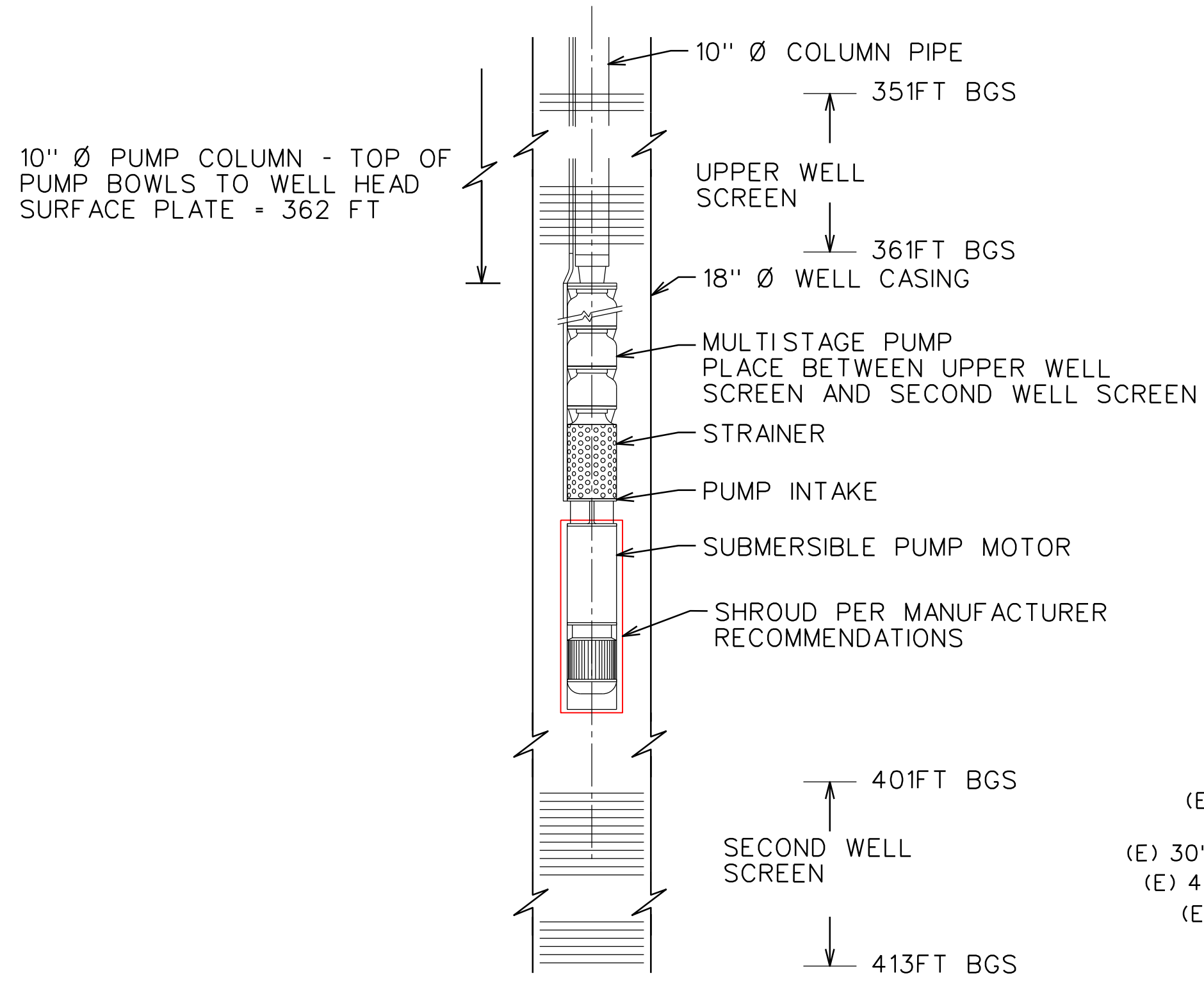


REVIEWED BY:	DATE:	DESIGNED BY:				FAIR OAKS WATER DISTRICT 10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723 NORTHBRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS WATER MAIN PLAN AND PROFILE	DATE: SEP 2026	 FAIR OAKS WATER DISTRICT	SHEET C12
REVIEWED BY:	DATE:	DRAWN BY:					SCALE:		OF 15 SHEETS 48
REVIEWED BY:	DATE:	CHECKED BY:					VER.:		PROJECT NUMBER C26WTNWRE
	DATE: 10/14/2026		REV.	DATE	DESCRIPTION		APP.		

FILE: C:\Users\NathonLee\KASL Consulting Engineers - Documents\Jobs\2695-08 Northridge Well Project\Plans - Phase 2\16_M01 SECTION.dgn
DATE: 10/14/2026



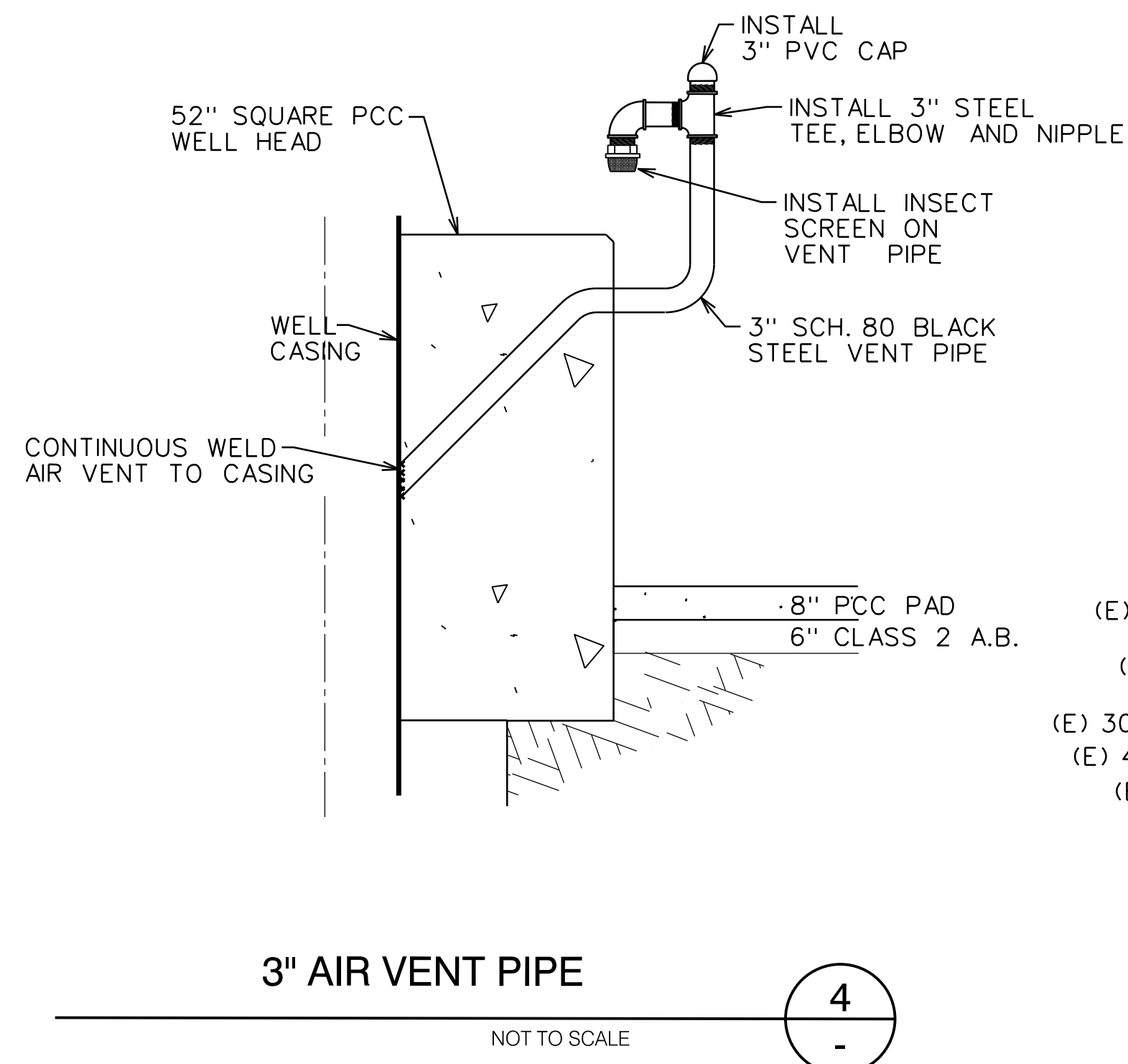
NORTHBRIDGE WELL SECTION



DETAIL PLACEMENT OF WELL PUMP & MOTOR

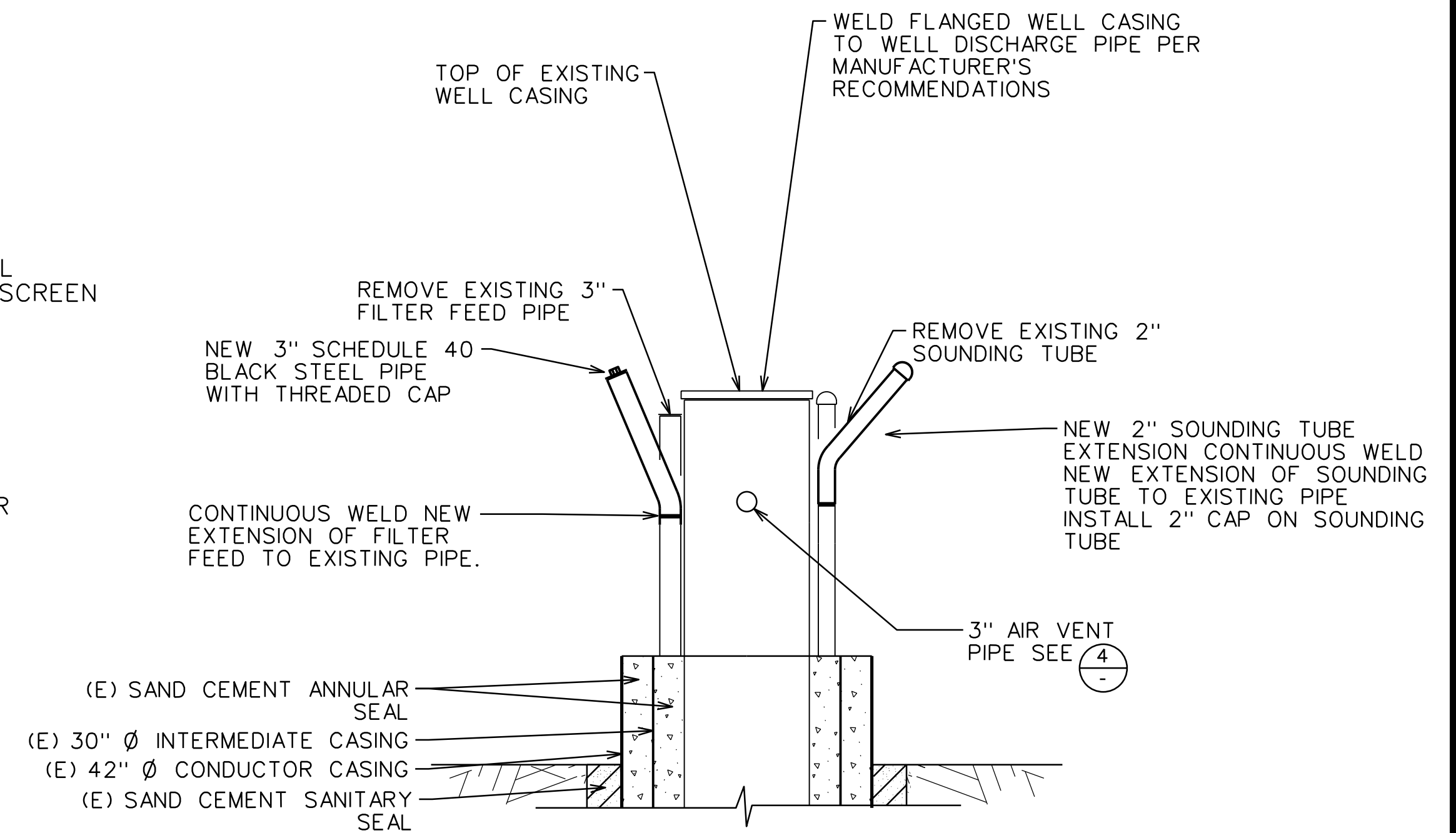
NOT TO SCALE

BGS = FEET BELOW FINISHED WELL PAD ELEVATION



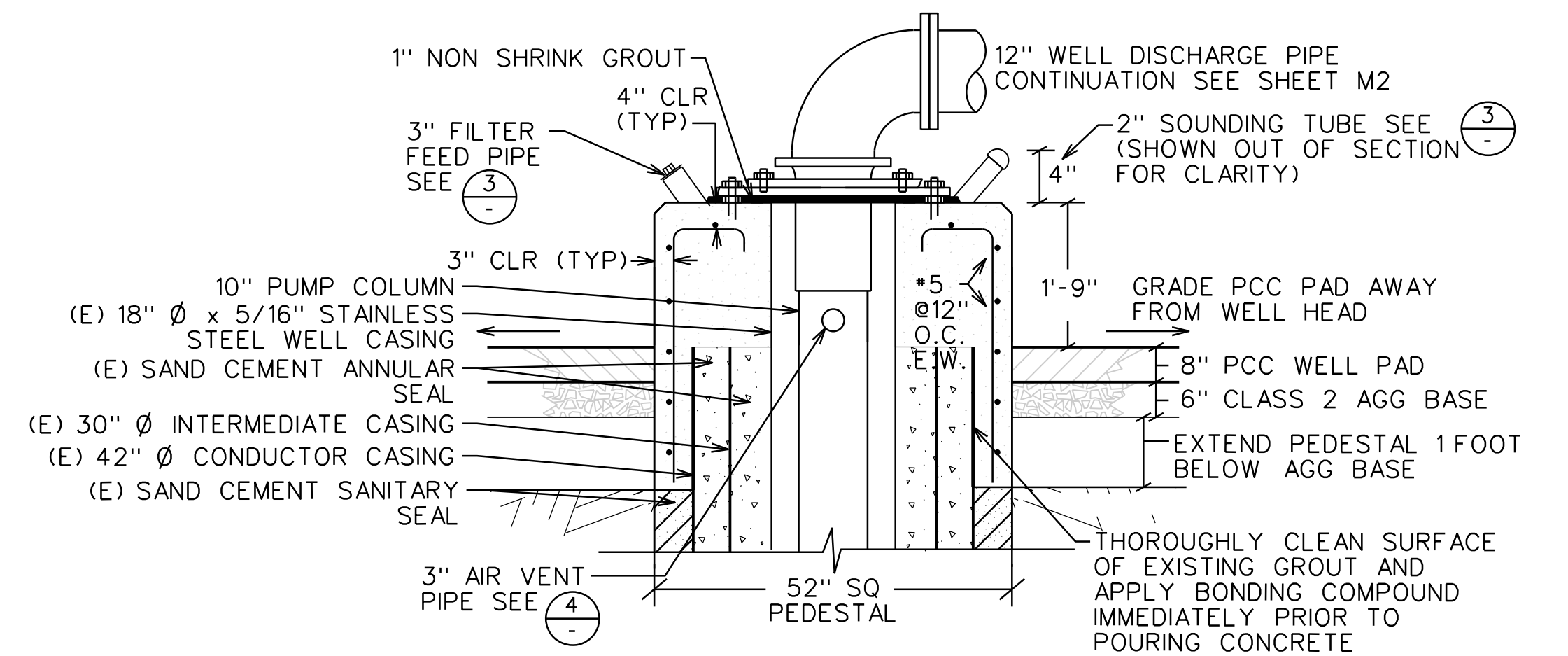
3" AIR VENT PIPE

NOT TO SCALE



MODIFICATIONS TO WELL CASING AND APPURTENANT PIPING SECTION

NOT TO SCALE



WELL HEAD PEDESTAL SECTION

NOT TO SCALE

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REVIEWED BY:	DATE:	CHECKED BY:					
	DATE:	10/14/2026	REV.	DATE	DESCRIPTION	APP.	

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHBRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS
WELL HEAD SECTIONS AND DETAILS 1

DATE: **SEP 2026**
SCALE:
VER.:

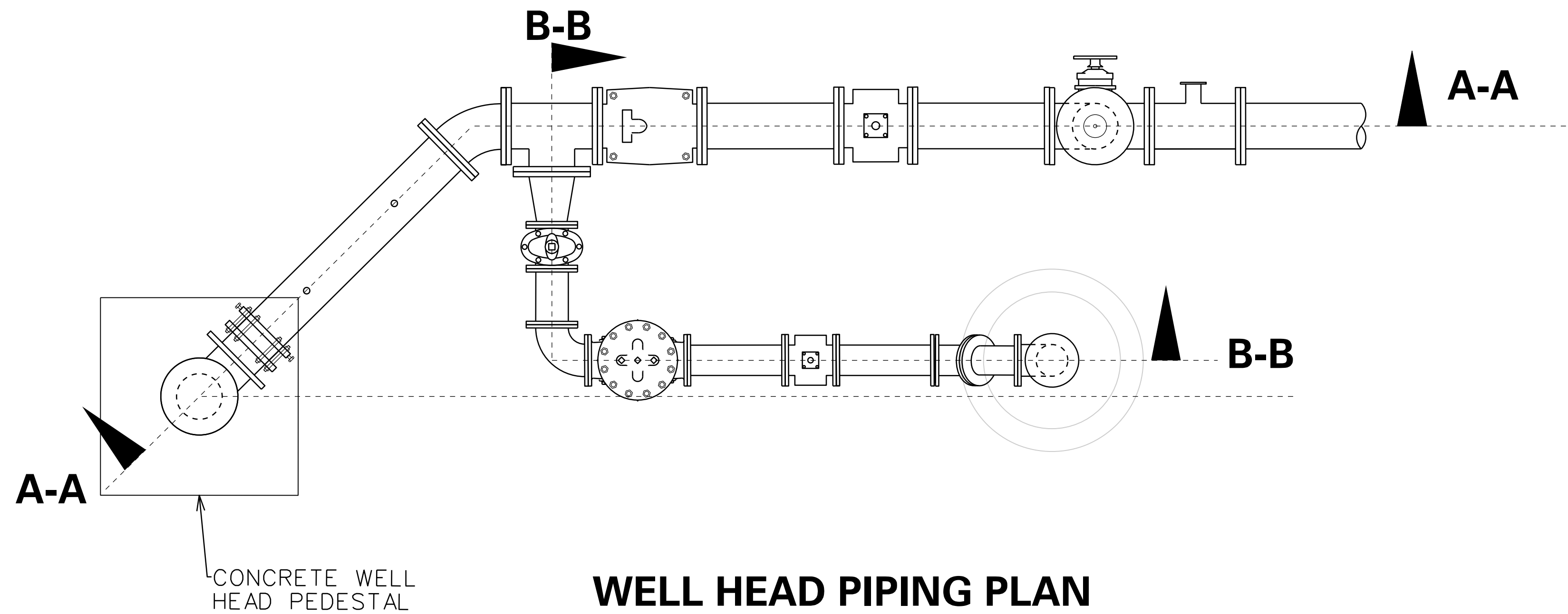


SHEET **M1**
OF **16** SHEETS **48**
PROJECT NUMBER **C26WTNWRE**

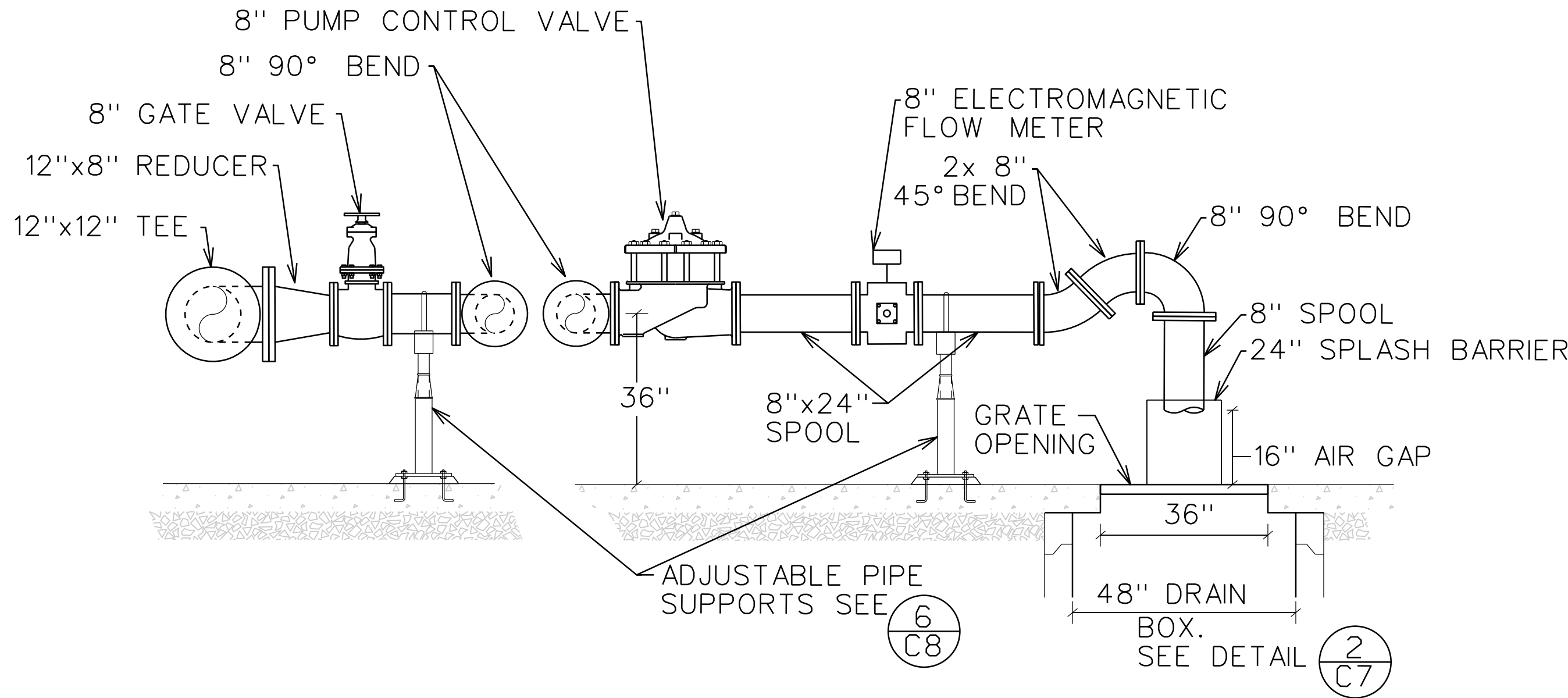
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DATE: 10/14/2026

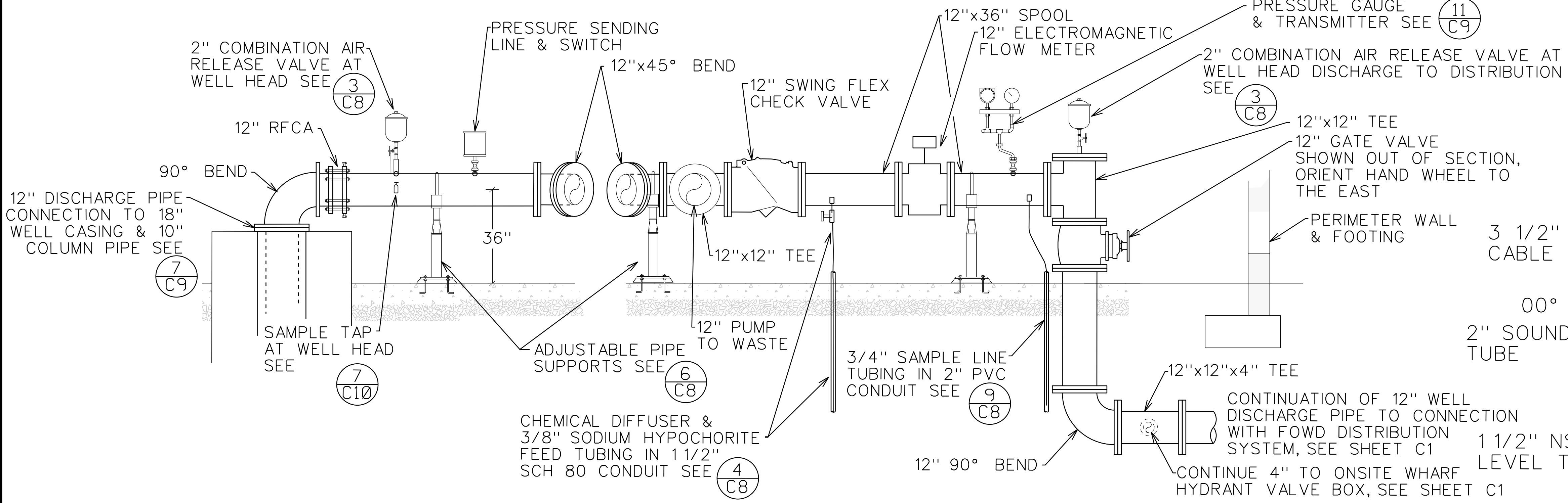
NOTE: ALL WELL HEAD, PUMP TO WASTE AND WELL DISCHARGE
PIPING & FITTINGS SHALL BE FLANGED CL350 DUCTILE IRON



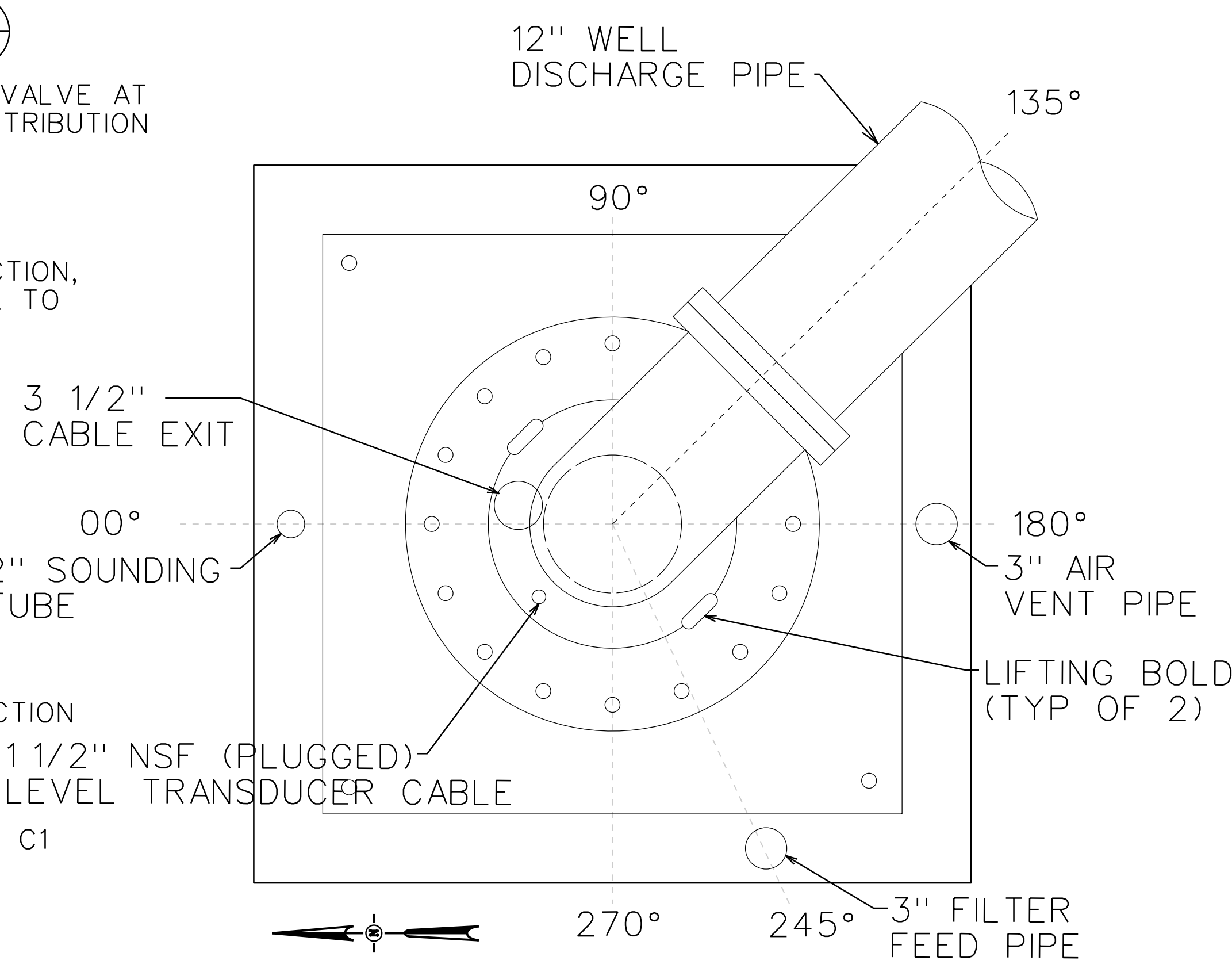
WELL HEAD PIPING PLAN



PUMP TO WASTE PIPING SECTION B-B



WELL DISCHARGE PIPING SECTION A-A



WELL PIPE PLACEMENT

NOT TO SCALE

SEE ALSO WELL HEAD PLAN VIEW (10/C9)

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REVIEWED BY:	DATE:	CHECKED BY:					
	DATE:	10/14/2026	REV.	DATE	DESCRIPTION	APP.	

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS
WELL HEAD SECTIONS AND DETAILS 2

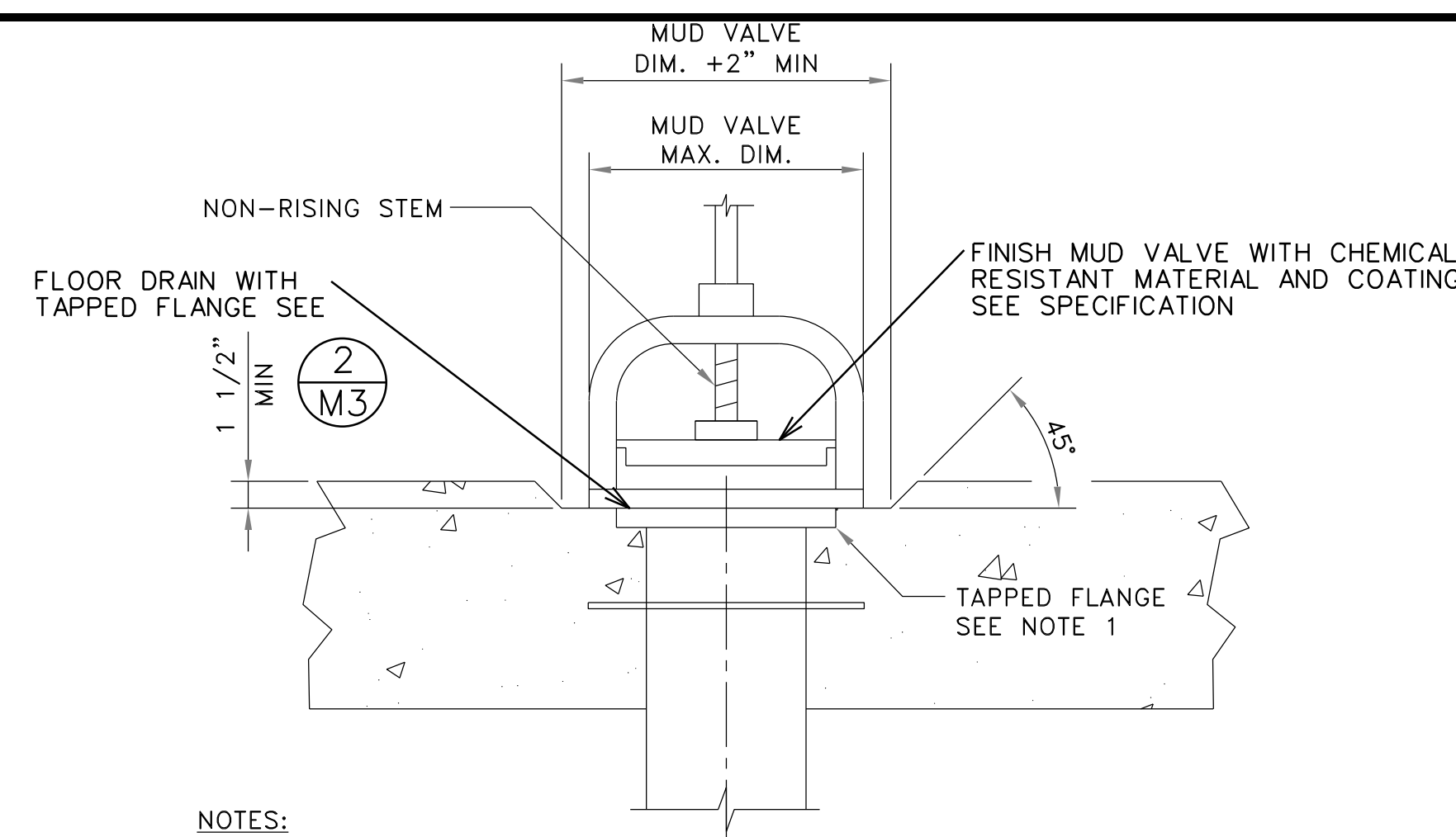
DATE: **SEP 2026**
SCALE:
VER.:



SHEET **M2**
OF **17** SHEETS **48**
PROJECT NUMBER **C26WTNWRE**

BID SET

FILE: C:\Users\NathonLee\KASL Consulting Engineers - Documents\Jobs\2695-08 Northridge Well Project\Plans - Phase 2\18_M03_ROOM.dgn
DATE: 10/14/2026



NOTES:
1. FILL TAPPED HOLES WITH CORK OR SPONGE RUBBER TO PREVENT FILLING WITH CONCRETE.

CHEMICAL ROOM DRAIN WITH MUD VALVE ON TAPPED FLANGE

NO SCALE

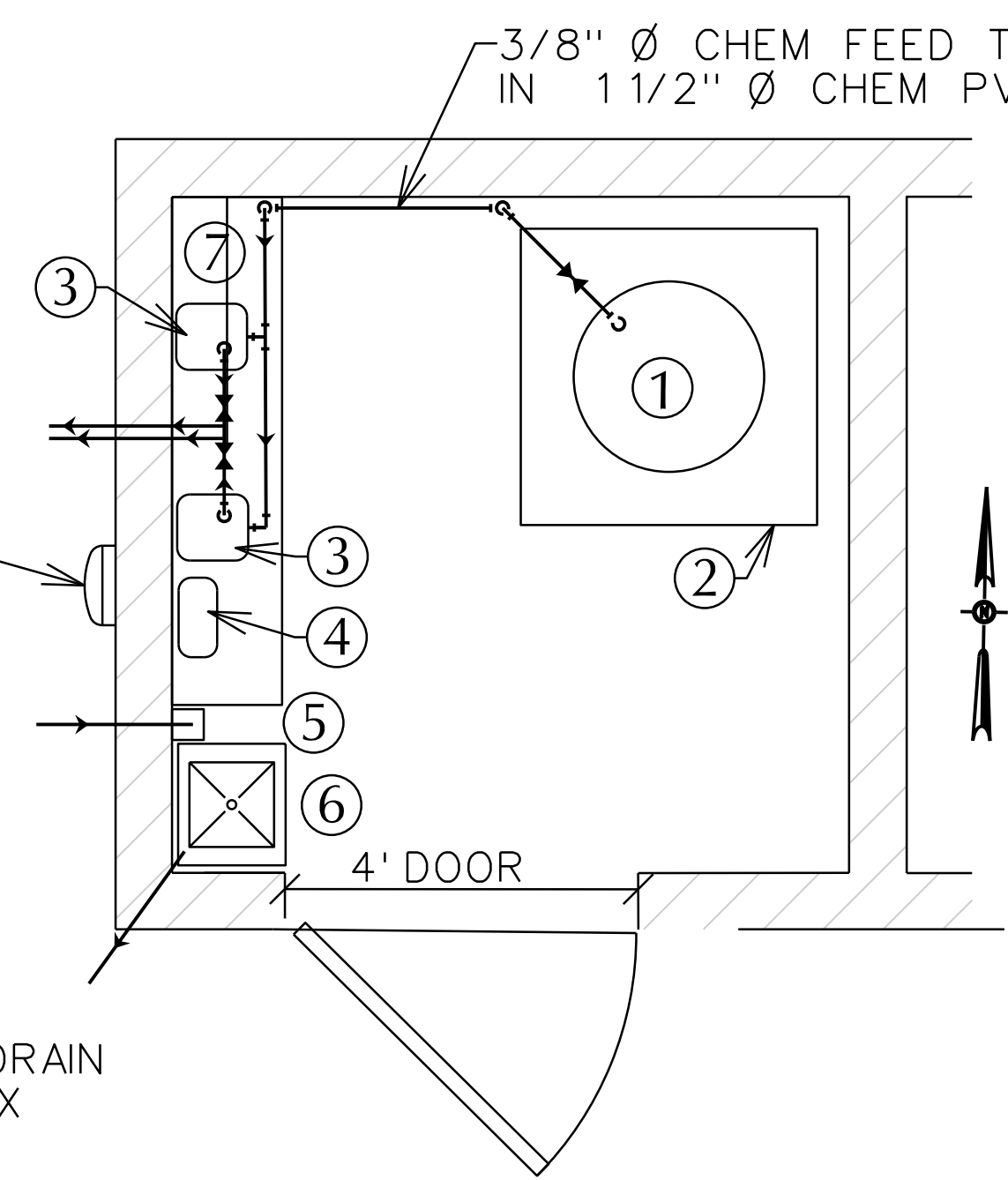
1
-

3/8" Ø CHEM FEED TUBING IN 1 1/2" PVC SCH 80 CONDUIT

TO INJECTION TAP ON WELL DISCHARGE PIPING; INSTALL SPARE 1 1/2" PVC SCH 80 CONDUIT

3/4" Ø WATER SAMPLE TUBING IN 2" PVC SCHEDULE 80 CONDUIT

4" Ø DRAIN TO BOX

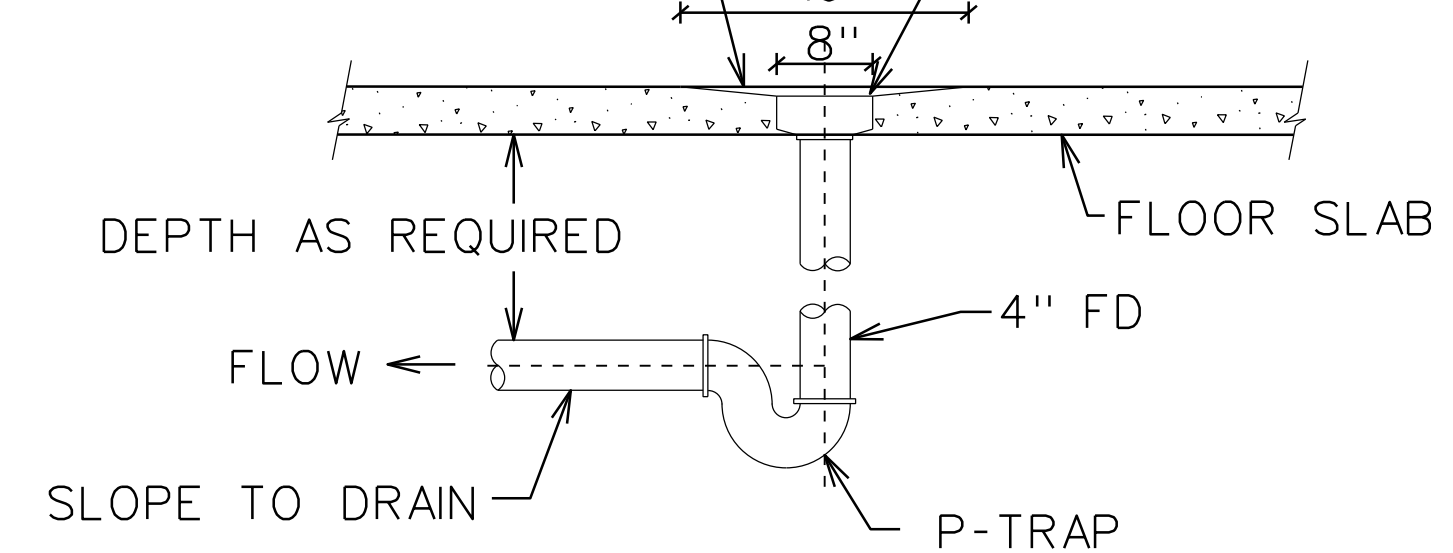


SODIUM HYPOCHLORITE ROOM LAYOUT

SCALE 1" = 2'

2
-

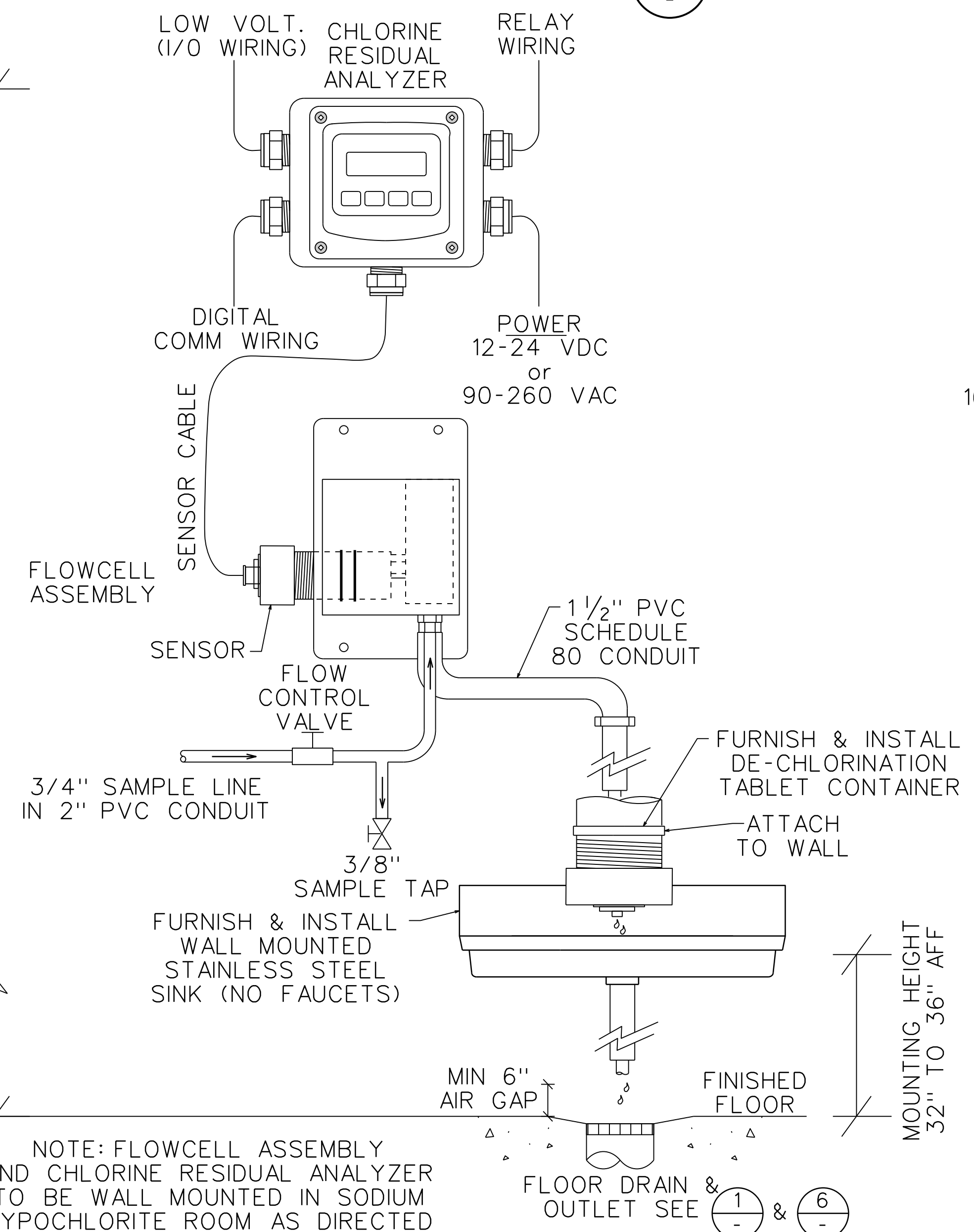
SET TOP OF FLOOR DRAIN TO 1/2" BELOW FINISHED FLOOR AT APPROX. 16" DIA AROUND FLOOR DRAIN



FLOOR DRAIN OUTLET

NOT TO SCALE

6
-



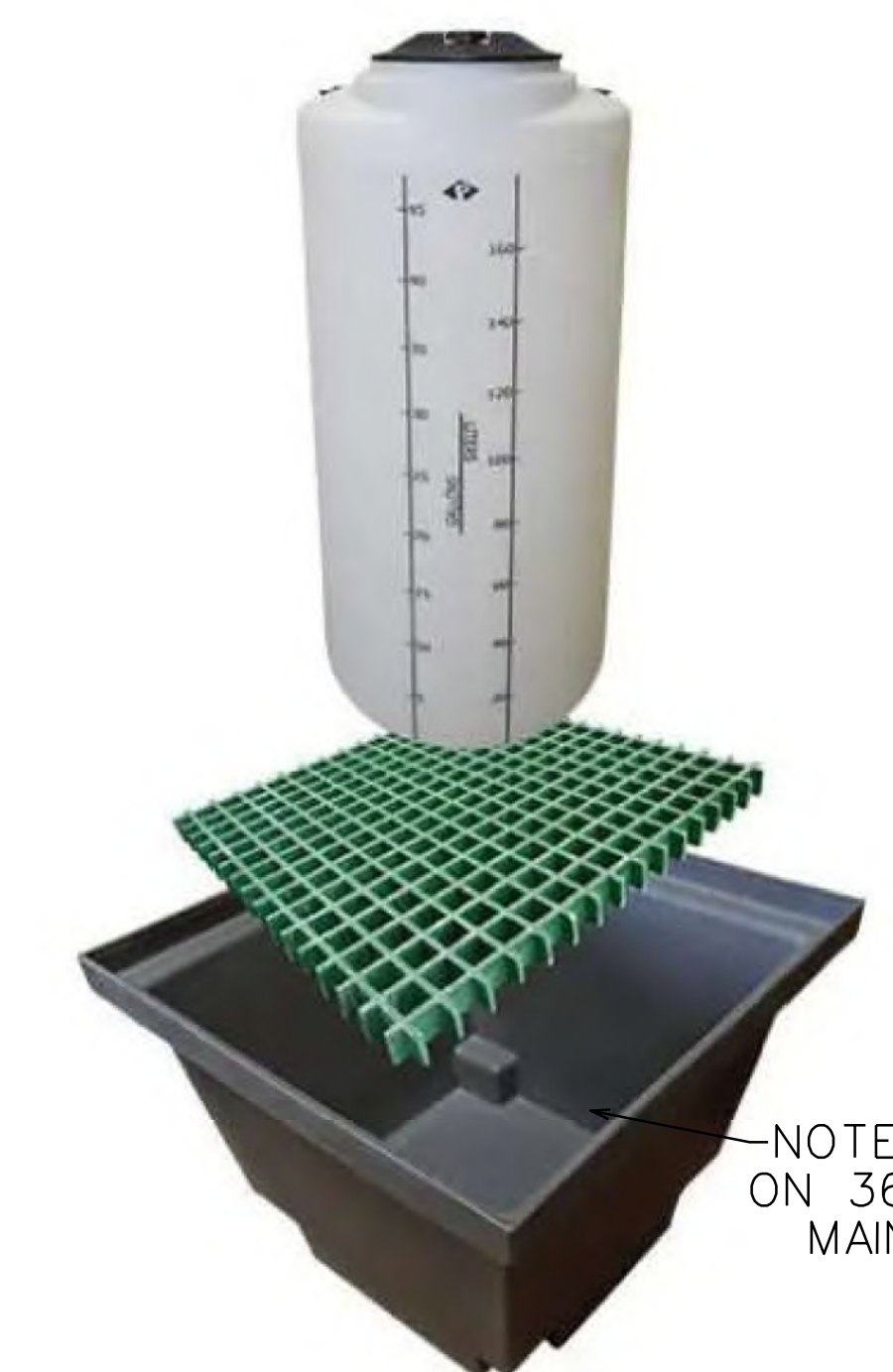
CHLORINE RESIDUAL & FLOW CELL SYSTEM DIAGRAM

NO SCALE

4
-

KEY NOTES:

- 100 GALLON CAPACITY (27"Ø x 47.75"H) SODIUM HYPOCHLORITE TANK; TANK SUCTION NEAR TANK BOTTOM WITH FOOT VALVE AND ANTI SIPHON VALVE
- 42"x42"x20" CONTAINMENT BASIN WITH FRP BOTTOM GRATING. INSTALL BASIN ON 4" CONCRETE MAINTENANCE PAD
- CHEMICAL FEED PUMPS, IWAKI MODEL EWN-C21VCURA
- WALL MOUNTED ATI MODEL Q46H/62-63 CHLORINE RESIDUAL MONITOR
- ATI FLOW CELL ASSEMBLY
- 15 1/4" x 17 1/4" ADVANCE TABLO MODEL 7-PS-70 STAINLESS STEEL SINK
- 16" (W) x 72" (L) x 3/4" THICK HDPE SHELF
- UNDERCOUNTER SIDEWALL EXHAUST FAN, 600 CFM CENTER FAN 1' AFF

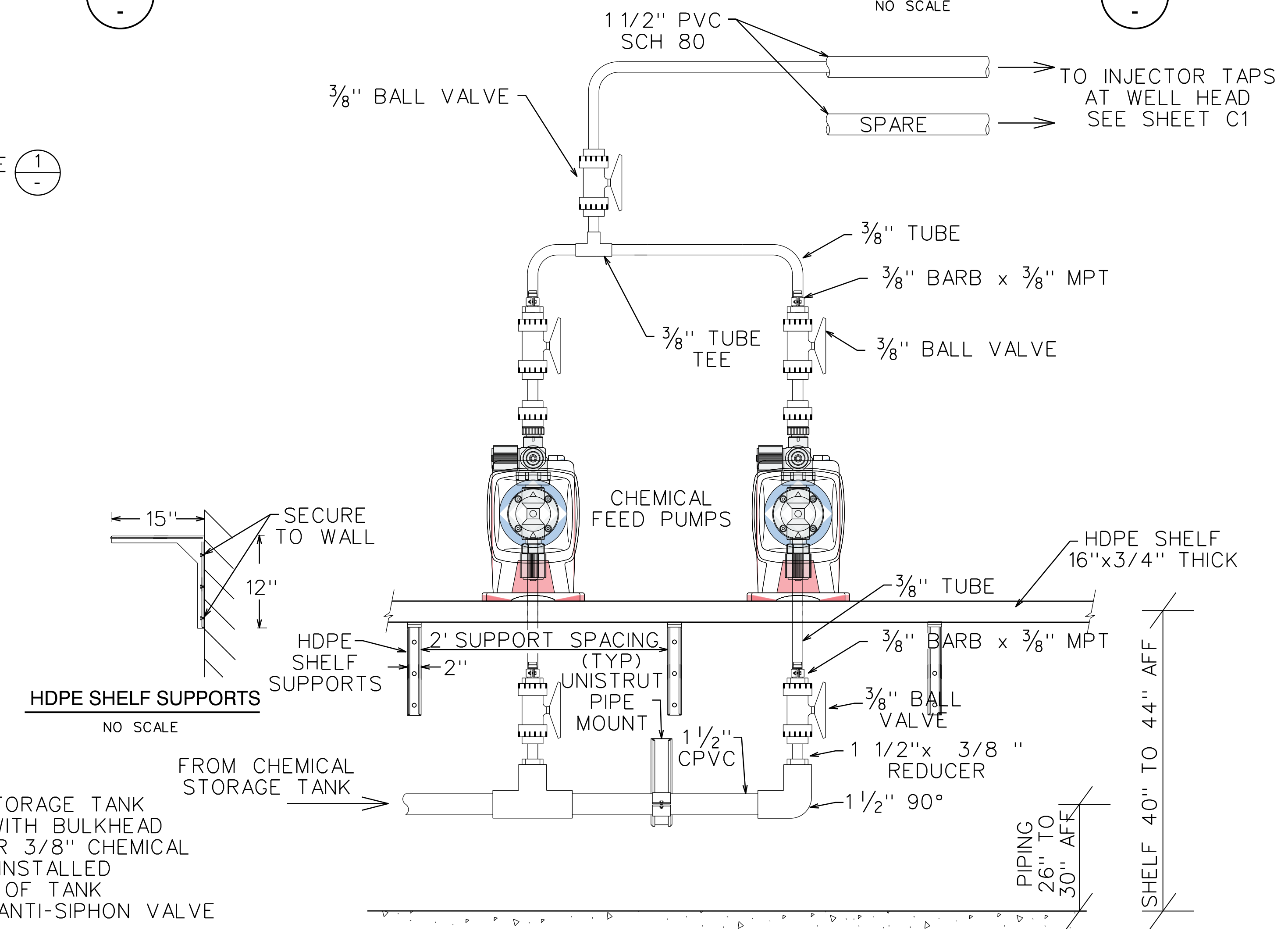


NOTE: INSTALL BASIN ON 36" SQ CONCRETE MAINTENANCE PAD

100 GALLON SODIUM HYPOCHLORITE TANK & CONTAINMENT BASIN

NO SCALE

3
-



CHEMICAL FEED PUMPS

NO SCALE

5
-

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FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

CHEMICAL ROOM PLAN

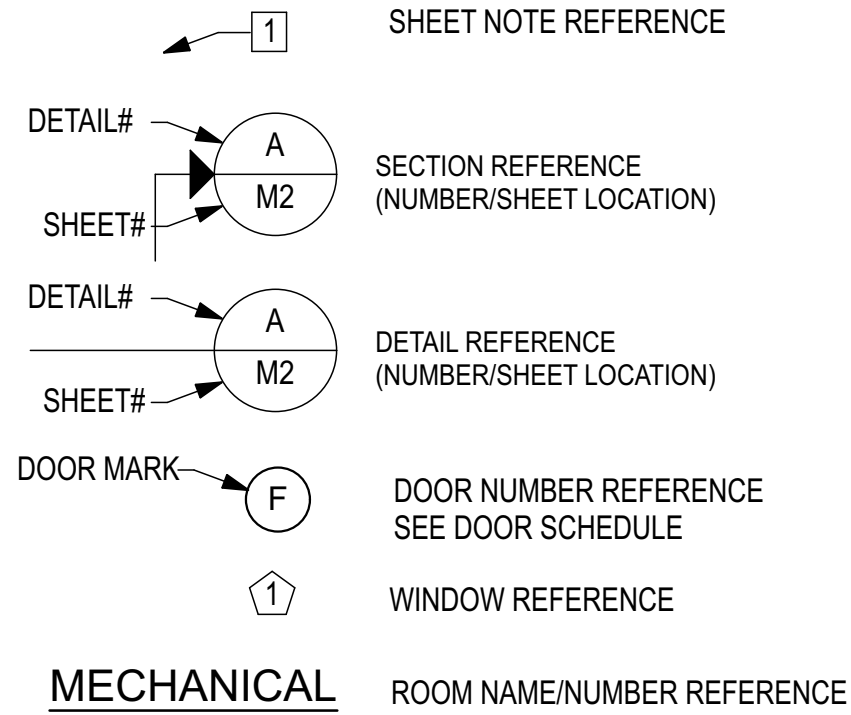
DATE: SEP 2026
SCALE:
VER.:



SHEET M3
OF 18 SHEETS 48
PROJECT NUMBER C26WTNWRE

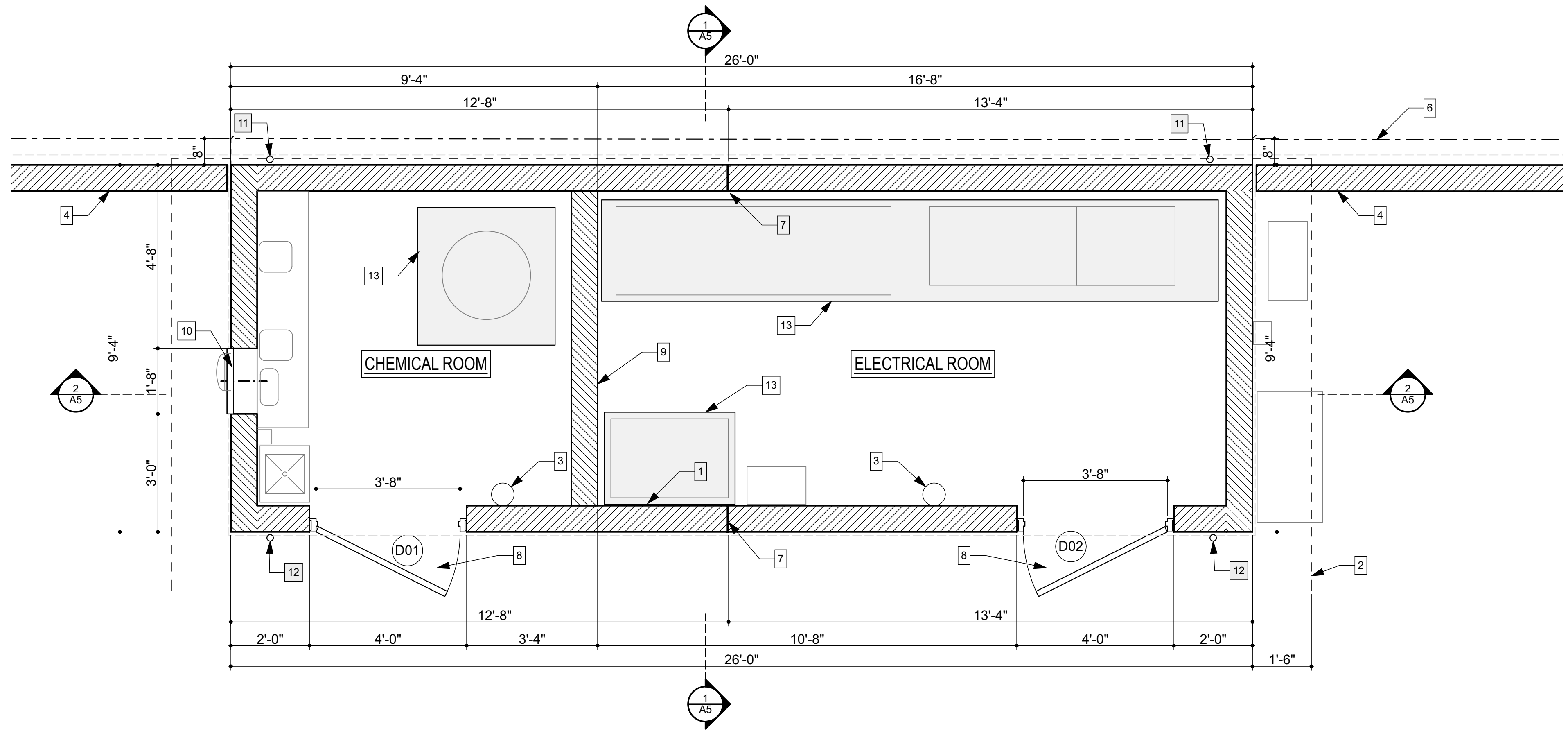
ABBREVIATIONS & SYMBOLS

Ø	DIAMETER	G.W.B.	GYPSUM WALL BOARD
@	AT	HC	HANDICAP
A.F.F.	ABOVE FINISHED FLOOR	LB	LAG BOLT
CLG.	CEILING	L.F.	LINEAL FEET
CLR.	CLEAR	LL	LIVE LOAD
CNTR	COUNTER	MAX.	MAXIMUM
CONC.	CONCRETE	MIN.	MINIMUM
D	DEPTH	NAT.	NATURAL
DF	DRINKING FOUNTAIN	NO	NUMBER
DL	DEAD LOAD	O.S.B.	ORIENTED STRAND BOARD
(E)	EXISTING	O.C.	ON CENTER
EA.	EACH	PSI	POUNDS PER SQUARE INCH
EA. WY.	EACH WAY	SF	SQUARE FEET
E.N.	END NAIL	THK.	THICK
EQ.	EQUAL	T.O.	TOP OF
F.F.	FINISHED FLOOR	TYP.	TYPICAL
F.P.	FIRE PLACE	U.O.N.	UNLESS OTHERWISE NOTED
F.R.P.	FIBER RESIN PANEL	W	WIDTH
FTG.	FOOTING	W/	WITH
GA.	GAUGE	W.W.M.	WELDED WIRE MESH
GR.	GRADE		



CODE ANALYSIS

OCCUPANCY PER CBC 306.3	F-1/ S-1	EXITS REQUIRED PER CBC TABLE 1006.2.1 1
CONSTRUCTION TYPE	VB	EXITS PROVIDED 1
ALLOWABLE BUILDING HEIGHT PER CBC 504.3	40'	FIRE ALARM SYSTEM NOT REQUIRED
BUILDING HEIGHT	18'-8"	FIRE SPRINKLER SYSTEM NOT REQUIRED
ALLOWABLE FLOOR AREA PER CBC 506.2	13,000 S.F.	OCCUPANCY SEPARATION NOT REQUIRED
FLOOR AREA	243 S.F.	WILD LAND URBAN INTERFACE (WUI) COMPLIANCE PER CBC 7A
OCCUPANT LOAD PER CBC TABLE 1004.5 - INDUSTRIAL AREAS 1 / 100 SF	243 S.F. / 100 = 3 OCCUPANTS	
EXTERIOR WALL CONSTRUCTION	NON RATED PER CBC TABLE 602 SEPARATION GREATER THAN 30' FROM NEAREST ADJACENT BUILDING	CODE INFORMATION
UNPROTECTED OPENINGS	UNPROTECTED, PER CBC TABLE 705.8 NO LIMIT TO ALLOWABLE OPENING AREA FOR SEPARATION GREATER THAN 30' FROM NEAREST ADJACENT BUILDING	CONSTRUCTION TO CONFORM TO: 2025 CALIFORNIA BUILDING CODE 2025 CALIFORNIA MECHANICAL CODE 2025 CALIFORNIA PLUMBING CODE 2025 CALIFORNIA ELECTRICAL CODE 2025 CALIFORNIA FIRE CODE 2025 CALIFORNIA ENERGY CODE 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE



KEYED SHEET NOTES

- 8 x 8 x 16 CMU WALL - SEE ELEVATIONS FOR ADD'L DETAILS
- LINE OF ROOF ABOVE
- 2A-10BC FIRE EXTINGUISHER AFFIXED TO WALL ON MOUNTING BRACKET 4'-0" ABOVE FLOOR TO TOP OF EXTINGUISHER
- CMU SITE PERIMETER WALL - SEE ELEVATIONS FOR ADD'L DETAILS & SITE PLAN & S SHEETS
- CONC. HOUSEKEEPING PAD - SEE STRUCTURAL SHEETS
- EASEMENT LINE
- CMU MASONRY CONTROL JOINT FULL HEIGHT OF WALL - SEE STRUCTURAL FOR ADD'L DETAIL
- FOR CONC. SLAB @ DOORWAYS - SLOPE 1/8" PER FOOT AWAY FROM BUILDING MAX. SLOPE EA. WAY TO BE 2% MAX
- INTERIOR CMU WALL EXTENDS TO BOTTOM OF TRUSSES
- EXHAUST FAN W/FRP LOUVER - SEE 2/A7 & M SHEETS
- 3" DOWNSPOUT - PAINT - CONNECT DIRECT TO 6" FOUNDATION DRAIN - ADJUST & COORD. FINAL LOCATION W/SITE CONDITIONS
- 3" DOWNSPOUT - PAINT - - ADJUST OUTFALL & COORD. FINAL LOCATION W/SITE CONDITIONS
- CONC. HOUSEKEEPING PAD - SEE STRUCTURAL SHEETS

FLOOR PLAN

SCALE: 1/2" = 1'-0"



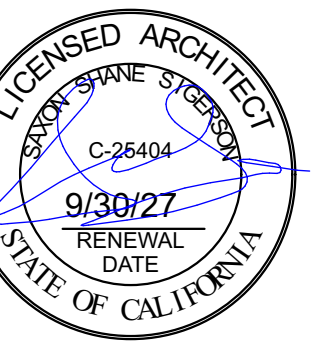
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		DATE: 8/11/2026	REV.	DATE	DESCRIPTION	APP.	

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

FLOOR PLAN

DATE:	September 2026
SCALE:	
VER.:	

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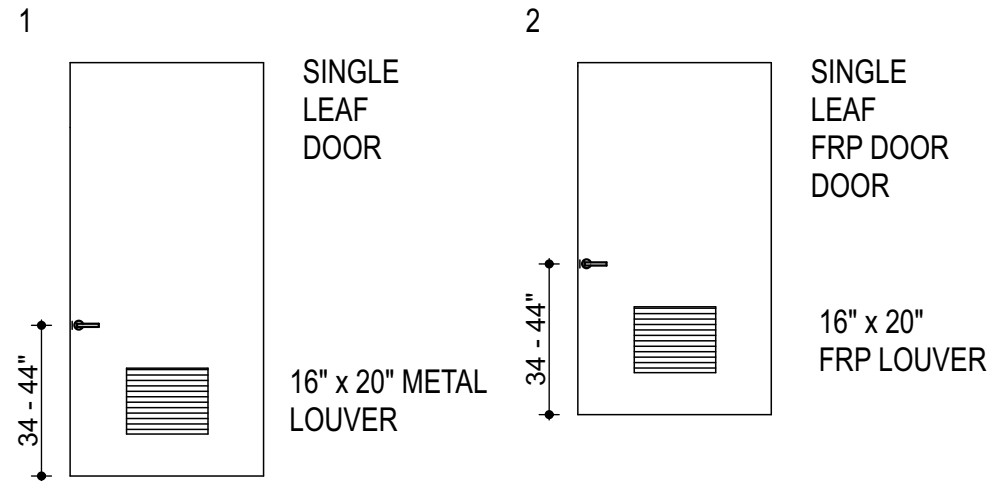


SHEET	A1
OF 19 SHEETS	48
PROJECT NUMBER	C26WTNWRE

DOOR SCHEDULE

MRK	SIZE	TYPE	JAMB	HEAD	RATING	HARDWARE	REMARKS
DO1	1	1	1	1		1	SEE SPECIFICATIONS FOR HARDWARE
DO2	2	2	2	2		2	SEE SPECIFICATIONS FOR HARDWARE

DOOR TYPES:



SIZE :

1. 3'-8" X 7'-10" X 1 3/4"

2. 3'-8" X 7'-2" X 1 3/4"

JAMB AND HEAD

1. WELDED HOLLOW METAL

2. F.R.P.

HARDWARE

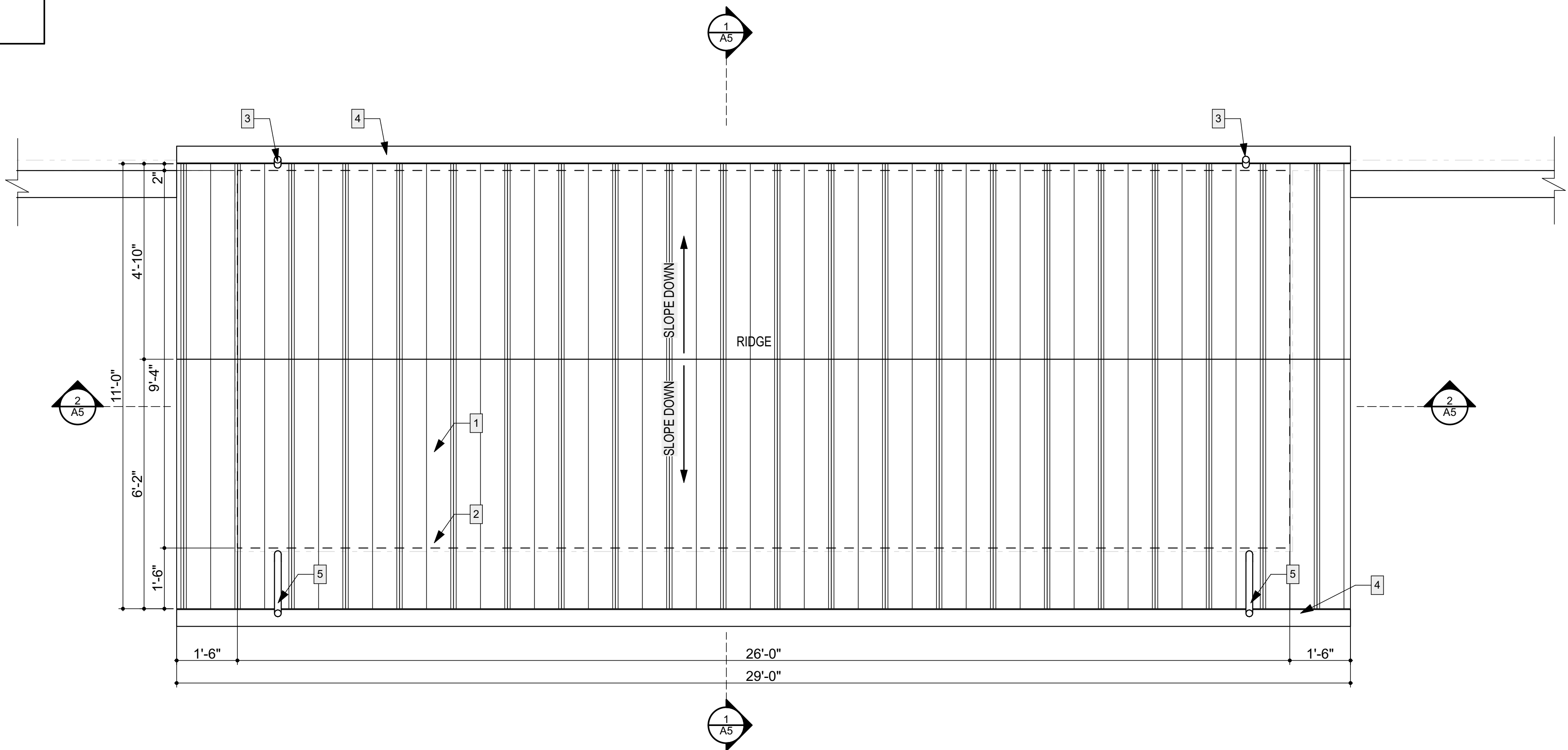
1. LEVERSET

2. STAINLESS STEEL EXIT DEVICE / LEVERSET

FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	WNSCT	CLG. HGT.	CEILING	REMARKS
ELECTRICAL ROOM	F1	B1	W1	W1	W1	W1	NONE	10'-0"	C1	
CHEMICAL ROOM	F1	B1	W1	W1	W1	W1	NONE	10'-0"	C1	

FLOORING	BASE	WALL	CEILING
F1- SEALED CONCRETE	B1- NO BASEBOARD	W1- CMU - APPLY SEALER	C1- 5/8" TYPE "X" G.W.B. CATEGORY 5 SMOOTH TEXT. 1 COAT PRIMER, 2 COATS SEMIGLOSS LATEX



KEYED SHEET NOTES

- 1 STANDING SEAM METAL ROOF - PAINT - SLOPE 4/12
- 2 LINE OF WALL BELOW
- 3 3" GALV. STEEL DOWNSPOUT - PAINT - CONNECT DIRECT TO 6" FOUNDATION DRAIN - ADJUST & COORD. FINAL LOCATION W/SITE CONDITIONS
- 4 GALV. STEEL GUTTER - PAINT
- 5 3" GALV. STEEL DOWNSPOUT - PAINT - - ADJUST OUTFALL & COORD. FINAL LOCATION W/SITE CONDITIONS

ROOF PLAN

SCALE: 1/2" = 1'-0"



Saxon Sigerson AIA
Architect
Sigerson Architects
P.O. Box 1836
Fair Oaks, CA 95628
(916) 863-6470
saxon@sigersonarchitects.com

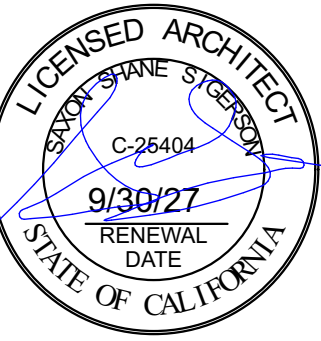
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FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

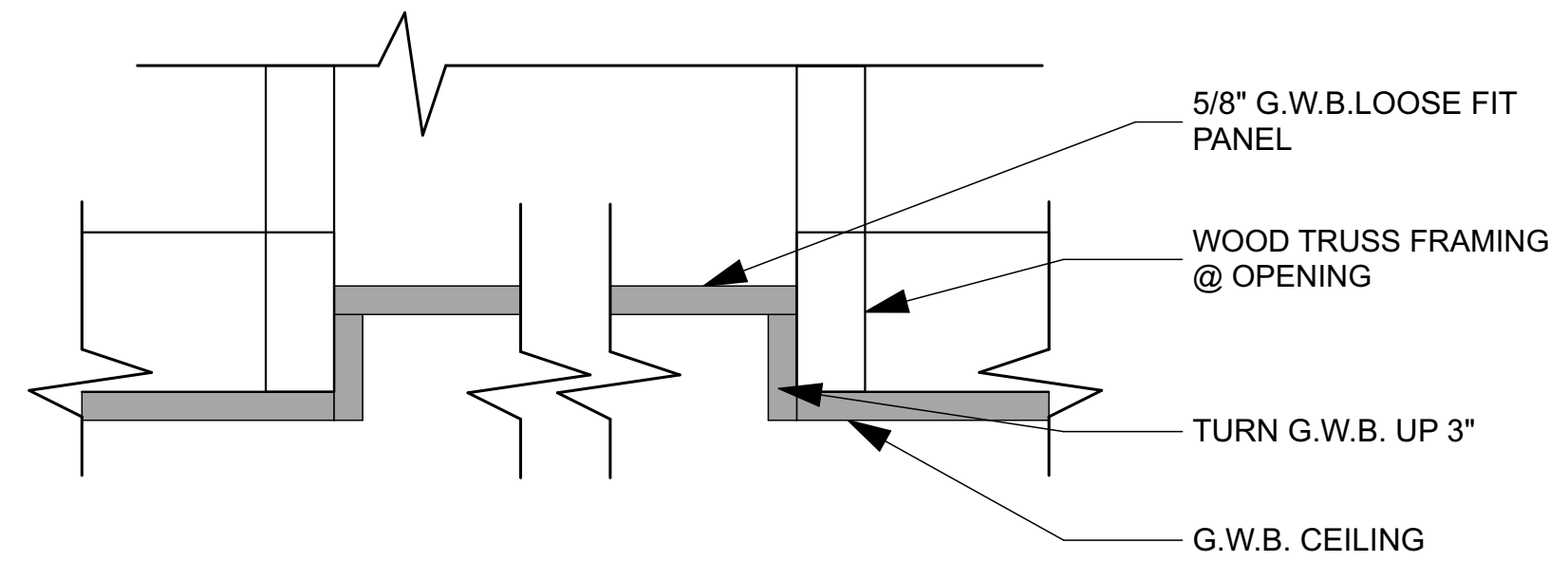
ROOF PLAN

DATE: September 2026
SCALE:
VER.:

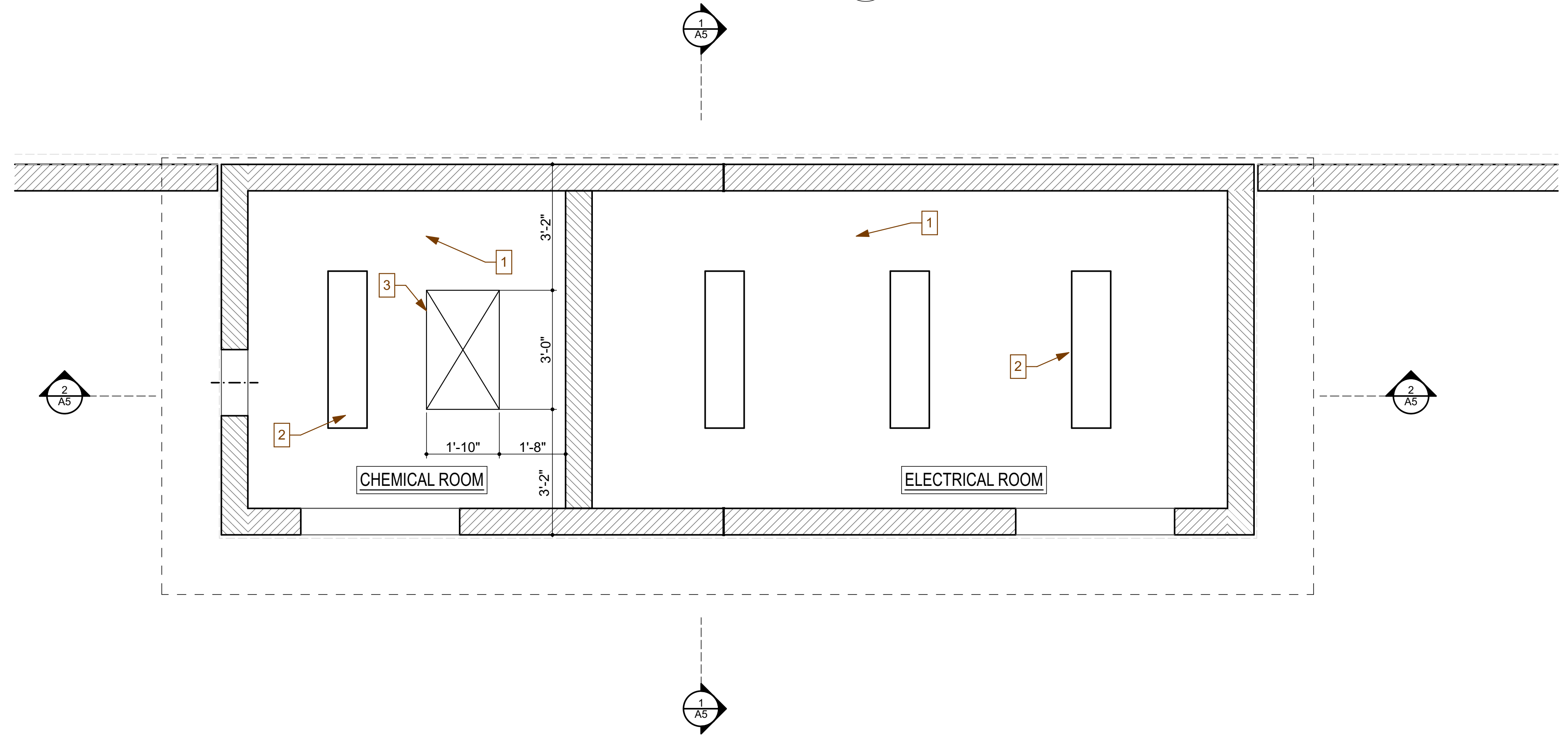
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SHEET A2
OF 20 SHEETS 48
PROJECT NUMBER C26WTNWRE

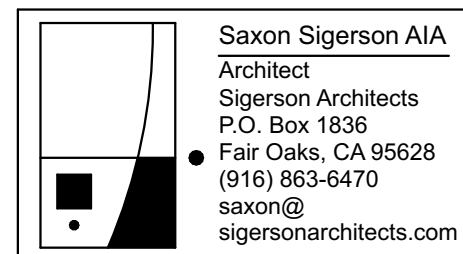


1 ATTIC ACCESS
SCALE: 3" = 1'-0"



KEYED SHEET NOTES

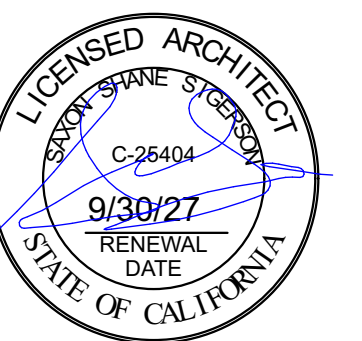
- 1 5/8" TYPE X G.W.B. - TAPE, TEXTURE & PAINT
- 2 LIGHT FIXTURES - SEE ELECTRICAL SHEETS
- 3 ATTIC ACCESS PANEL - SEE 1/A3 COORDINATE LOCATION W/TRUSS LAYOUT



REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"



BID SET



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REVIEWED BY:	DATE:	DRAWN BY: SS					
REVIEWED BY:	DATE:	CHECKED BY:					
		DATE: 8/11/2026	REV.	DATE	DESCRIPTION	APP.	

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

DATE: September 2026
SCALE:
VER.:



SHEET A3
OF 21 SHEETS 48
PROJECT NUMBER C26WTNWRE



METAL ROOF PANELS - 4 : 12
ROOF PITCH - AEP 16" X 1 3/4"
DESIGN SPAN - ZINCALUME -
PAINT SHERWIN WILLIAMS
COPPERPLATE (SW4038)



Tannery SW 4004
LRV 64%

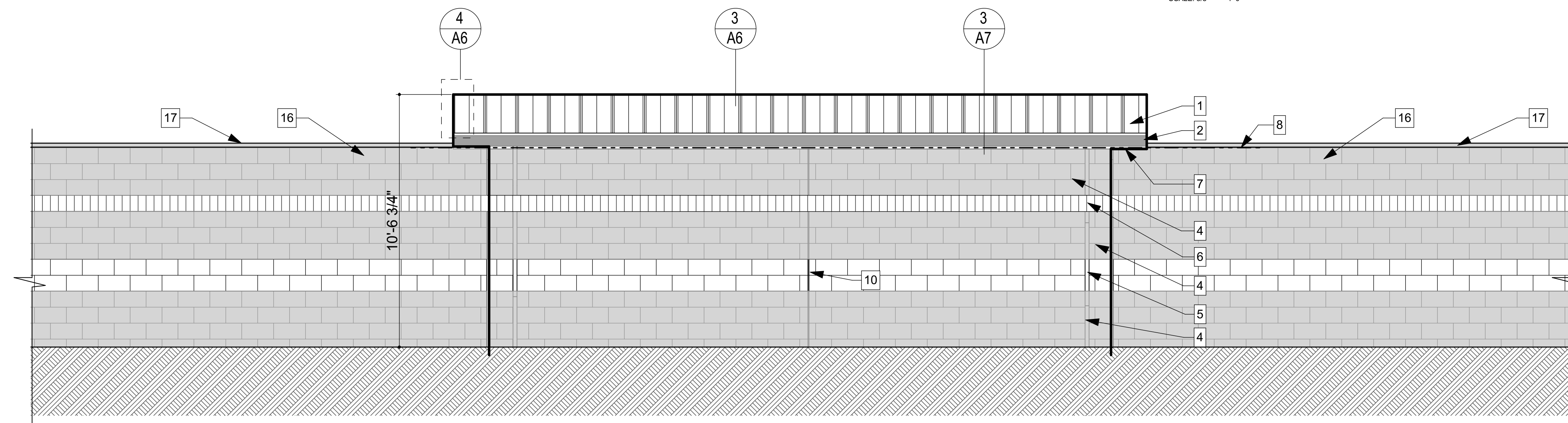
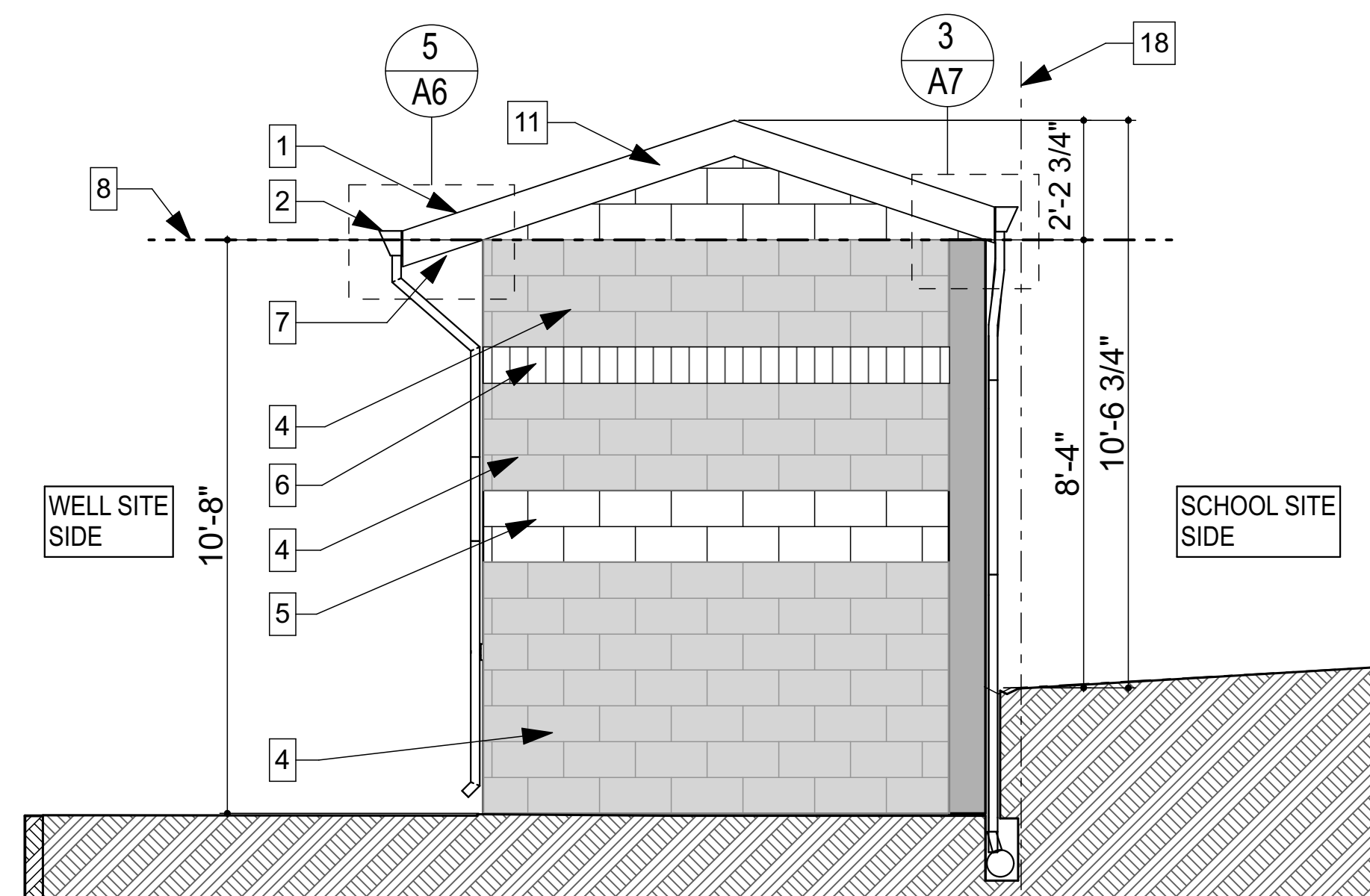
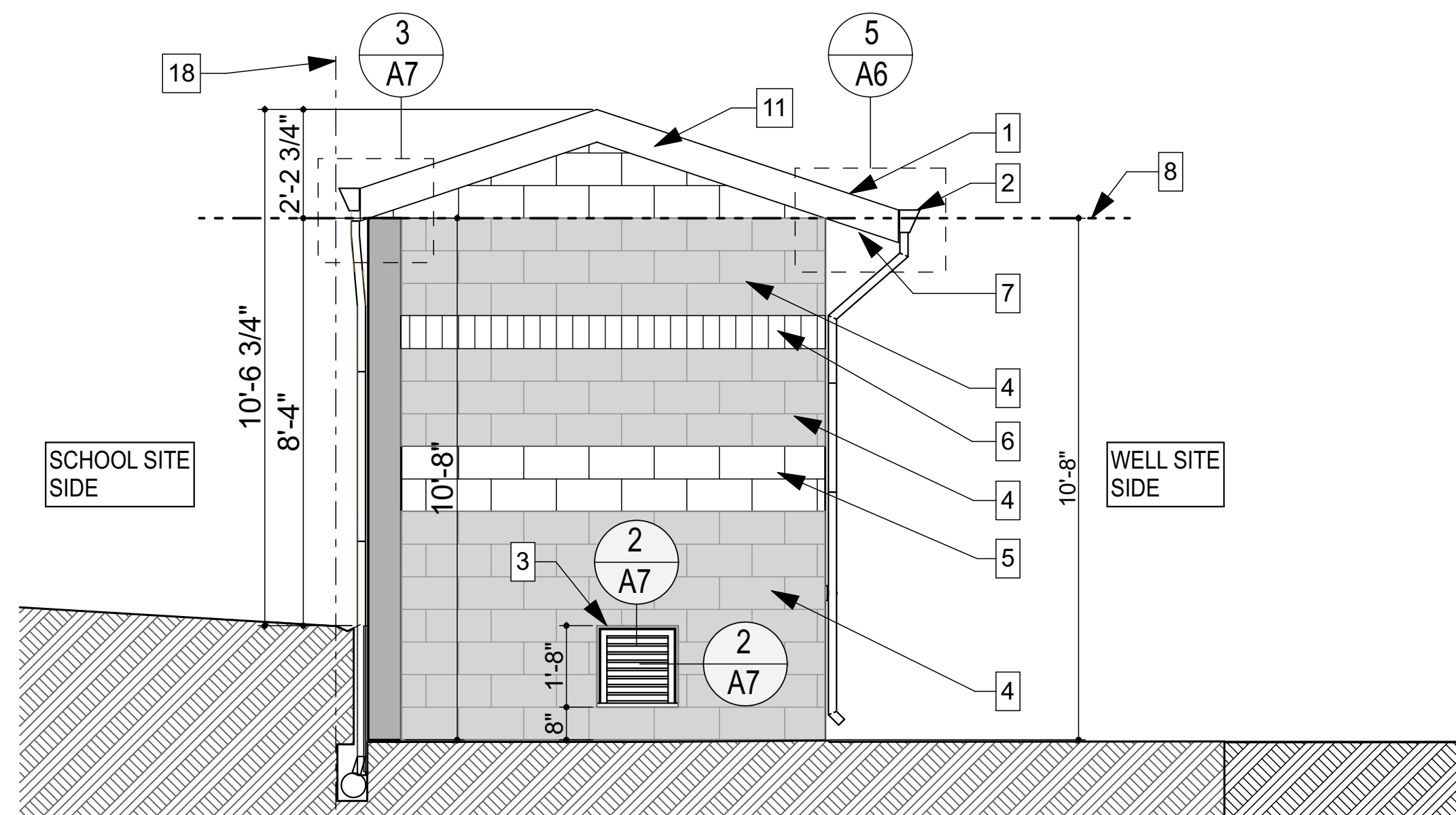
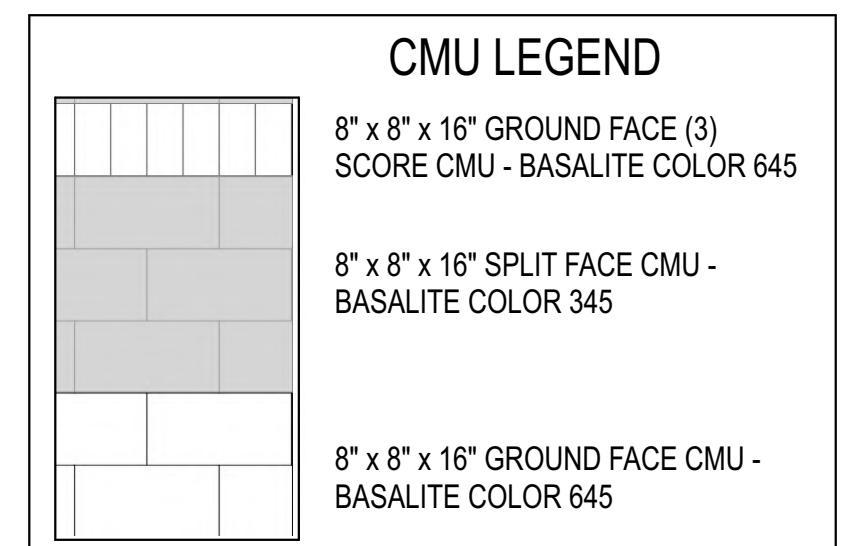
DOWNSPOUTS, GUTTERS,
FLASHING, HOLLOW METAL
DOOR, FRP DOOR & METAL
LOUVERS - PAINT SHERWIN
WILLIAMS - TANNERY SW4004



8" x 8" x 16" SPLIT FACE
CMU - BASALITE COLOR
345

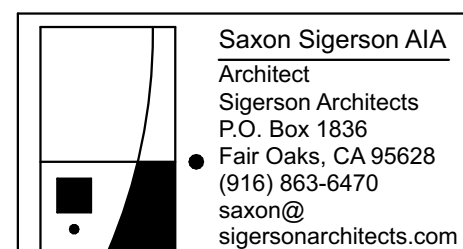


8" x 8" x 16" GROUND
FACE CMU - BASALITE
COLOR 645



KEYED SHEET NOTES

- 1 METAL ROOF PANELS - 4 : 12 ROOF PITCH - AEP 16" X 1 3/4" DESIGN SPAN - ZINCALUME - PAINT SHERWIN WILLIAMS COPPERPLATE (SW4038)
- 2 GALV. STEEL GUTTER & DOWNSPOUT - PAINT SHERWIN WILLIAMS TANNERY (SW4004)
- 3 FRP EXHAUST FAN GRILL - PAINT SHERWIN WILLIAMS TANNERY (SW4004)
- 4 8" x 8" x 16" SPLIT FACE CMU - BASALITE COLOR 345
- 5 8" x 8" x 16" GROUND FACE CMU - BASALITE COLOR 645
- 6 8" x 8" x 16" GROUND FACE (3) SCORE CMU - BASALITE COLOR 645
- 7 ENCLOSED SOFFIT - PAINT SHERWIN WILLIAMS TANNERY (SW4004)
- 8 PLATE LINE/TOP OF BLOCK WALL
- 9 HOLLOW METAL DOOR & LOUVER - PAINT SHERWIN WILLIAMS TANNERY (SW4004)
- 10 MASONRY CONTROL JOINT FULL HEIGHT OF WALL SEE STRUCTURAL SHEETS FOR ADD'L DETAIL
- 11 METAL FLASHING FROM METAL ROOFING MATERIAL SEE 4 & 6/A6 - PAINT SHERWIN WILLIAMS TANNERY (SW4004)
- 12 INSTALL R-38 KRAFT FACED BATT INSULATION BETWEEN TRUSSES @ CEILING
- 13 INSTALL 5/8" TYPE X G.W.B. DIRECT TO BOTTOM OF TRUSSES - TAPE TEXTURE & PAINT
- 14 FOUNDATION WATERPROOFING & DRAIN - SEE 1/A7
- 15 SLOPE GRADE AWAY FROM BUILDING - SEE GRADING PLAN
- 16 CMU SITE PERIMETER WALL - SEE SITE PLAN & S SHEETS
- 17 CMU FLAT CAP - MATCH COLOR OF TOP MOST CMU - INSTALL ENTIRE LENGTH OF PERIMETER WALL
- 18 EASEMENT LINE
- 19 CONC. HOUSEKEEPING PAD - SEE STRUCTURAL SHEETS
- 20 FRP DOOR - PAINT SHERWIN WILLIAMS TANNERY (SW4004)



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NORTH ELEVATION

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

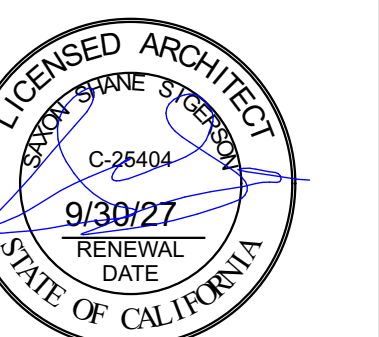
FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

ELEVATIONS

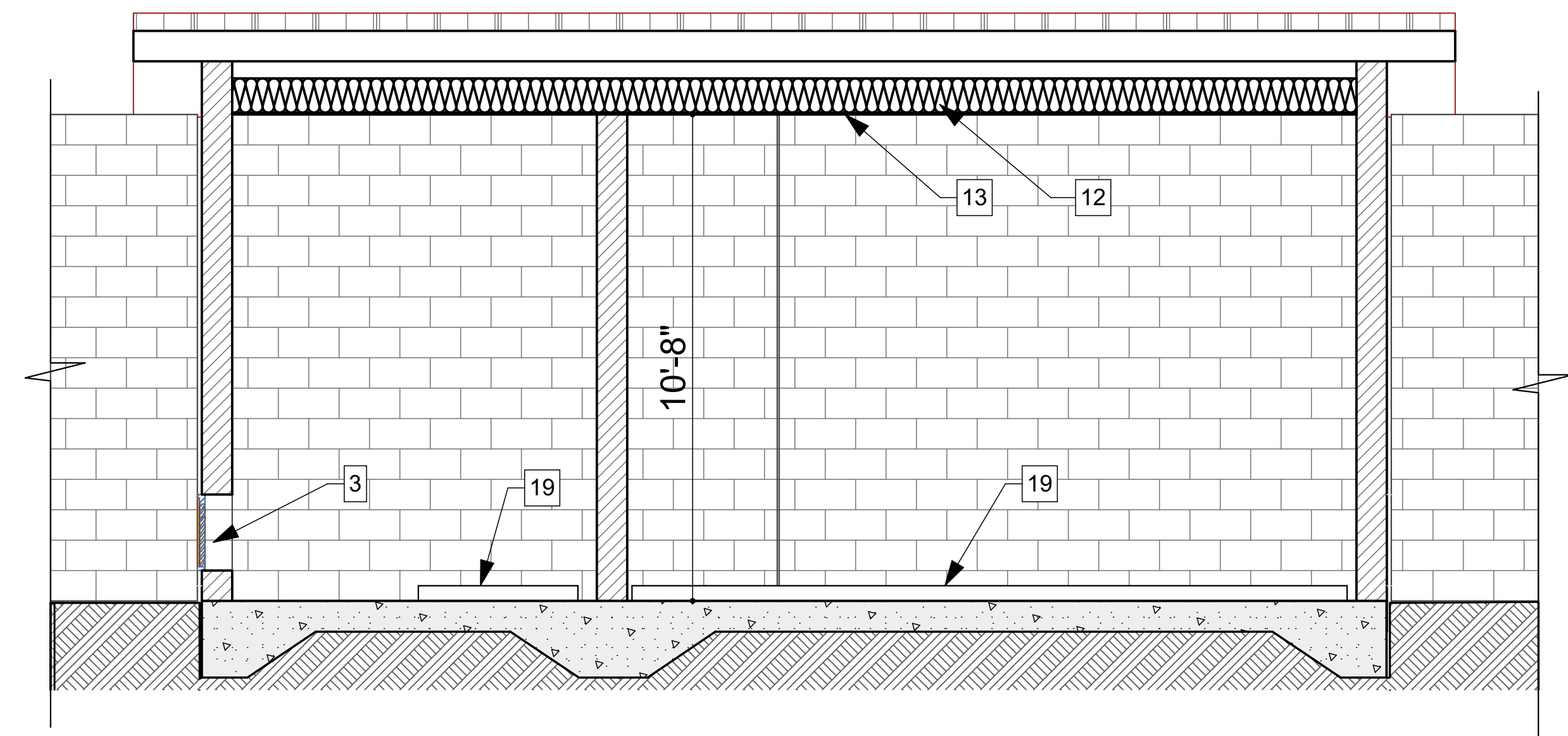
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VER.:



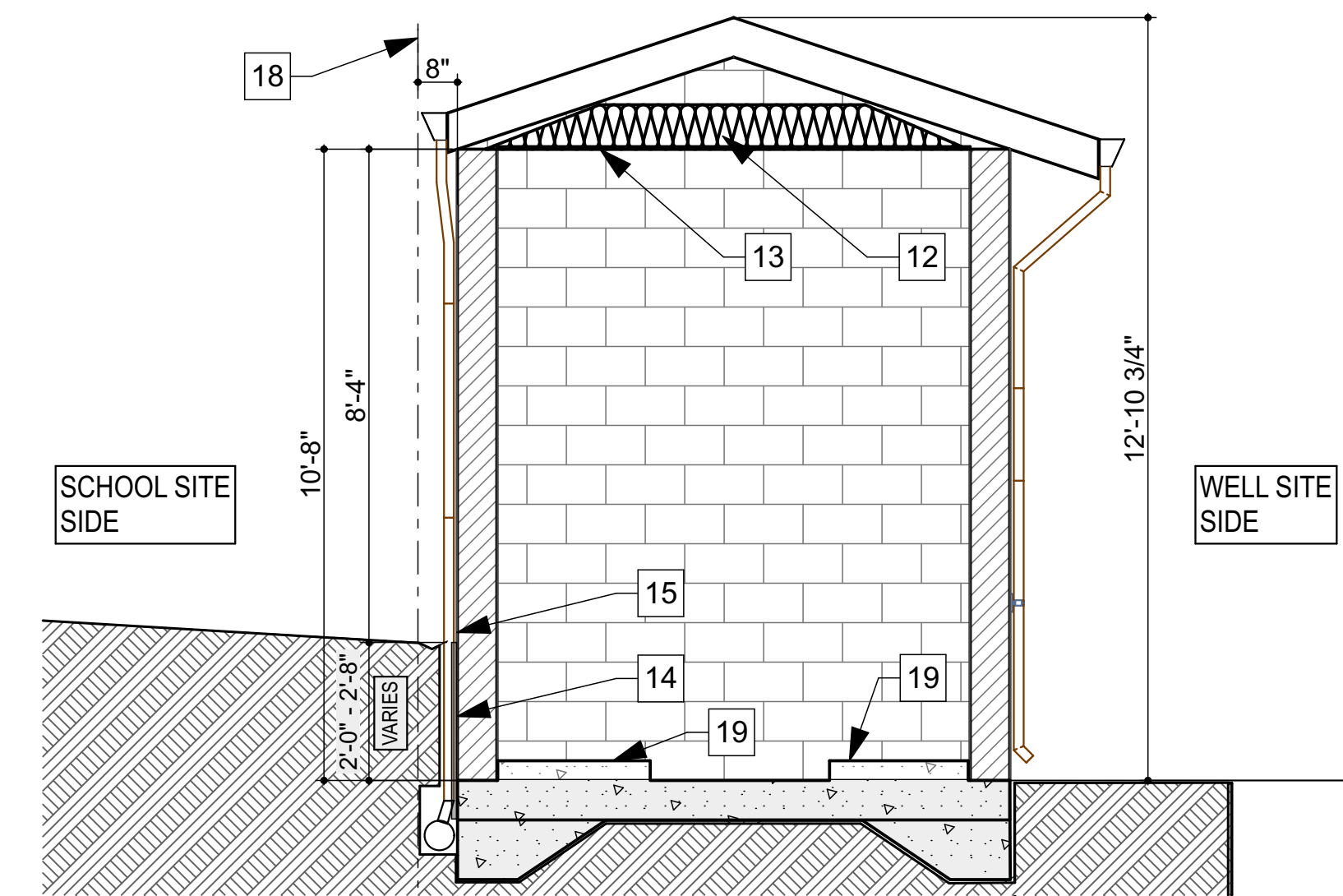
SHEET A4
OF 22 SHEETS 48
PROJECT NUMBER C26WTNWRE



BID SET



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

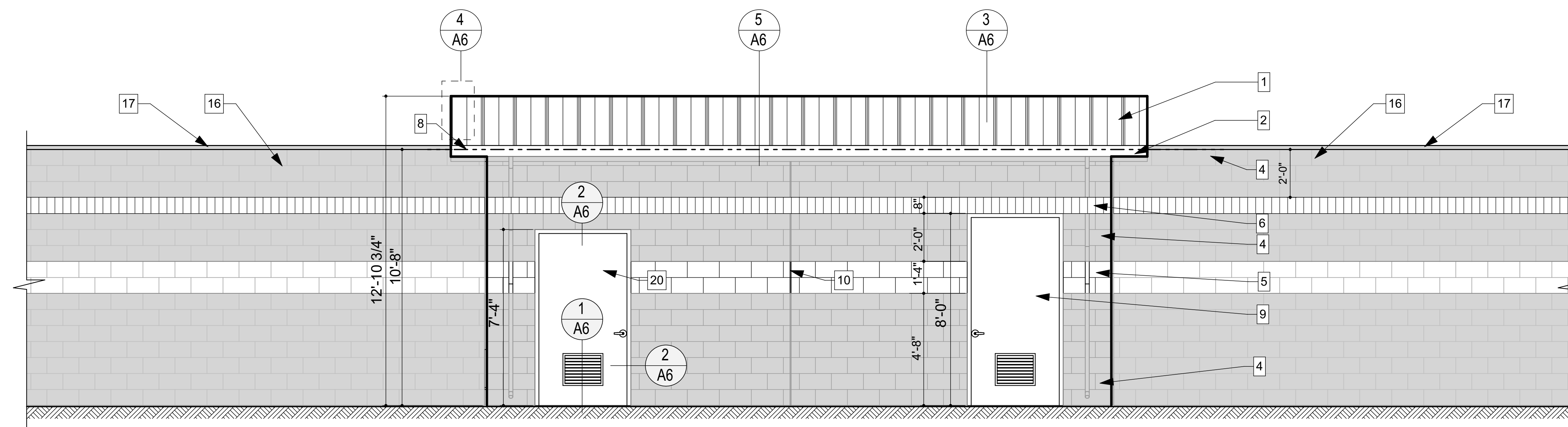


1 SECTION
SCALE: 3/8" = 1'-0"

CMU LEGEND	
	8" x 8" x 16" GROUND FACE (3) SCORE CMU - BASALITE COLOR 345
	8" x 8" x 16" SPLIT FACE CMU - BASALITE COLOR 345
	8" x 8" x 16" GROUND FACE CMU - BASALITE COLOR 345

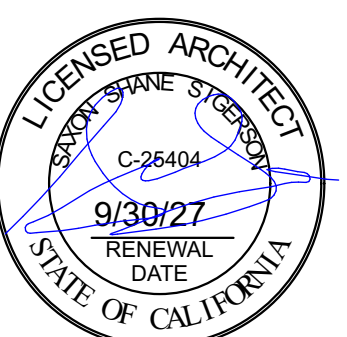
KEYED SHEET NOTES

- METAL ROOF PANELS - 4 : 12 ROOF PITCH - AEP 16" X 1 3/4" DESIGN SPAN - COLOR DURA TECH 5000 OLD TOWN GRAY
- GUTTER & DOWNSPOUT - FROM METAL ROOF MATERIAL
- FRP EXHAUST FAN GRILL
- 8" x 8" x 16" SPLIT FACE CMU - BASALITE COLOR 345
- 8" x 8" x 16" GROUND FACE CMU - BASALITE COLOR 645
- 8" x 8" x 16" GROUND FACE (3) SCORE CMU - BASALITE COLOR 645
- ENCLOSED SOFFIT - PAINT DUNN EDWARDS DE 6214 PIGEON GRAY
- PLATE LINE/TOP OF BLOCK WALL
- HOLLOW METAL DOOR & LOUVER - PAINT DUNN EDWARDS DE 6214 PIGEON GRAY
- MASONRY CONTROL JOINT FULL HEIGHT OF WALL SEE STRUCTURAL SHEETS FOR ADD'L DETAIL
- METAL FLASHING FROM METAL ROOFING MATERIAL SEE 4 & 6/A6
- INSTALL R-38 KRAFT FACED BATT INSULATION BETWEEN TRUSSES @ CEILING
- INSTALL 5/8" TYPE X G.W.B. DIRECT TO BOTTOM OF TRUSSES - TAPE TEXTURE & PAINT
- FOUNDATION WATERPROOFING & DRAIN - SEE 1/A7
- SLOPE GRADE AWAY FROM BUILDING - SEE GRADING PLAN
- CMU SITE PERIMETER WALL - SEE SITE PLAN & S SHEETS
- CMU FLAT CAP - MATCH COLOR OF TOP MOST CMU - INSTALL ENTIRE LENGTH OF PERIMETER WALL
- EASEMENT LINE
- CONC. HOUSEKEEPING PAD - SEE STRUCTURAL SHEETS
- FRP DOOR - NO PAINT



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

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BID SET

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REVIEWED BY:	DATE:	DRAWN BY: SS							
REVIEWED BY:	DATE:	CHECKED BY:							
		DATE: 8/11/2026	REV.	DATE	DESCRIPTION	APP.			

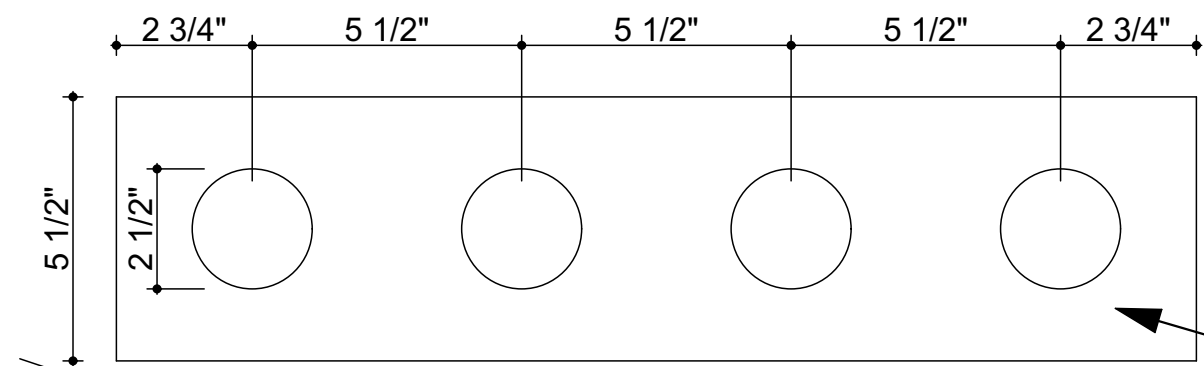
FAIR OAKS WATER DISTRICT
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NORTHBRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

ELEVATIONS, SECTIONS

DATE: **September 2026**
SCALE: _____
VER.: _____



SHEET **A5**
OF 23 SHEETS 48
PROJECT NUMBER
C26WNTNWRE



DRILL (4) 2 1/2" DIA.
HOLES EACH 24"
TRUSS BAY IN
BLOCKING

TYPICAL ROOF ASSEMBLY
METAL ROOF PANELS
SELF-ADHERING SHEET
MEMBRANE ROOF
UNDERLAYMENT
ROOF SHEATHING
WOOD TRUSS

MODIFY PANEL TO BEND
AROUND CONT. CLEAT

METAL CLEAT

SELF-ADHERING SHEET
MEMBRANE ROOF
UNDERLAYMENT

22 GA. GALV. STEEL CLEAT

CONT. EAVE FLASHING
FORMED FROM METAL
ROOFING MATERIAL

2 X 8 EAVE FASCIA TO
ALIGN W/RAKE FASCIA -
PAINT -

1 X 4 TRIM

3" CONT. VENTING
INTEGRAL TO SOFFIT
BOARD

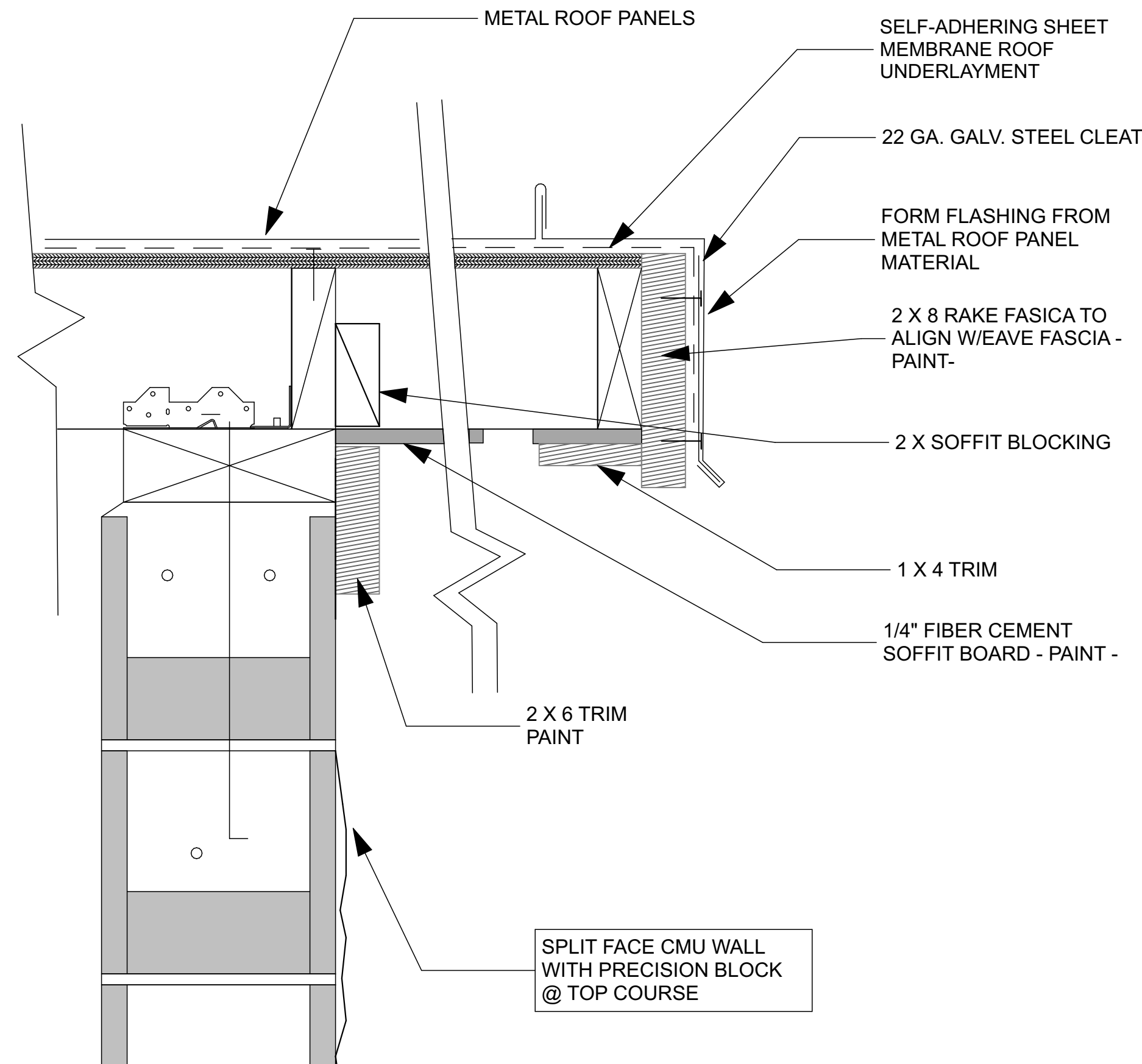
1/4" FIBER CEMENT
SOFFIT BOARD - PAINT -

2 X 6 TRIM - PAINT

SPLIT FACE CMU WALL
WITH PRECISION BLOCK
@ TOP COURSE

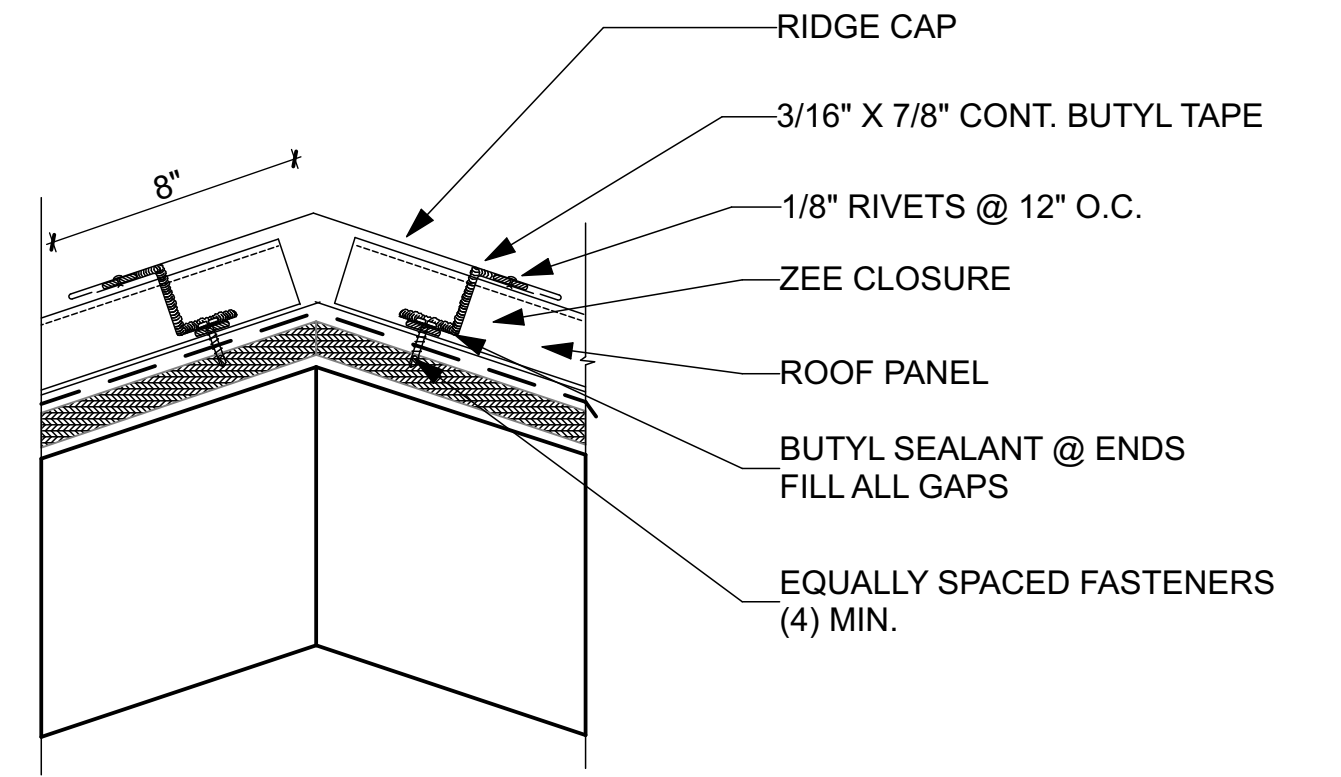
5 ROOF EAVE DETAIL

SCALE: 3" = 1'-0"



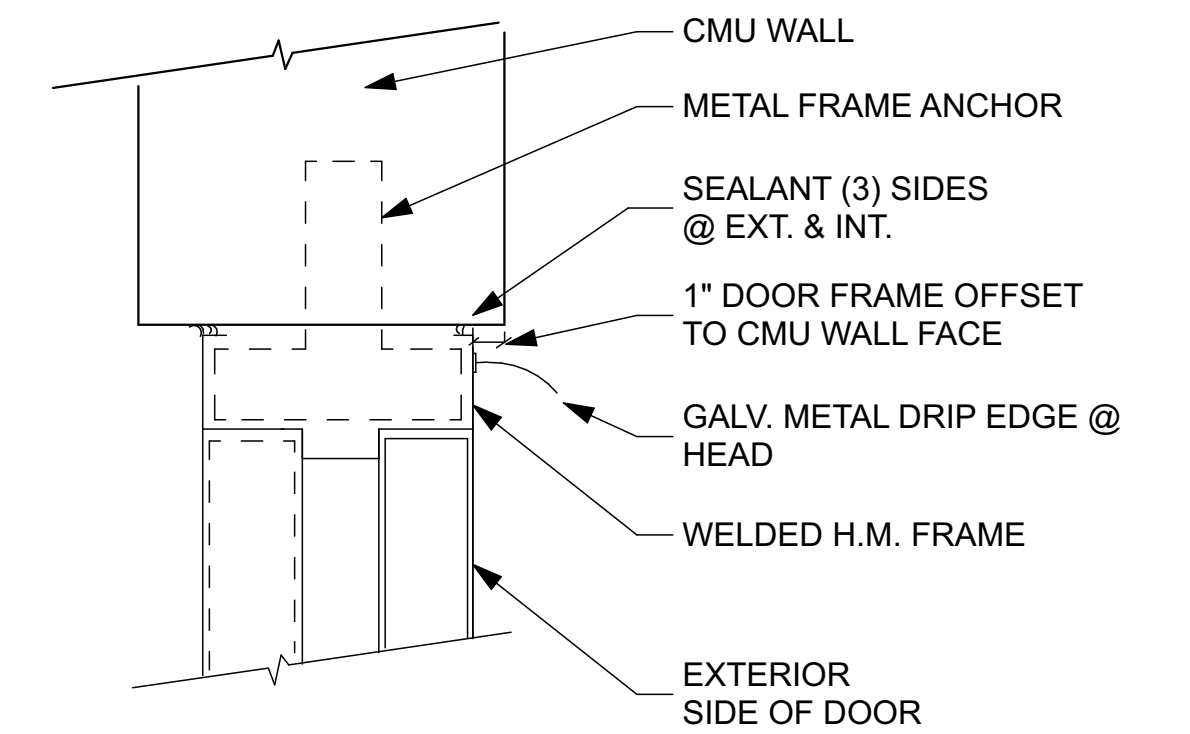
4 RAKE @ CMU WALL DETAIL

SCALE: 3" = 1'-0"



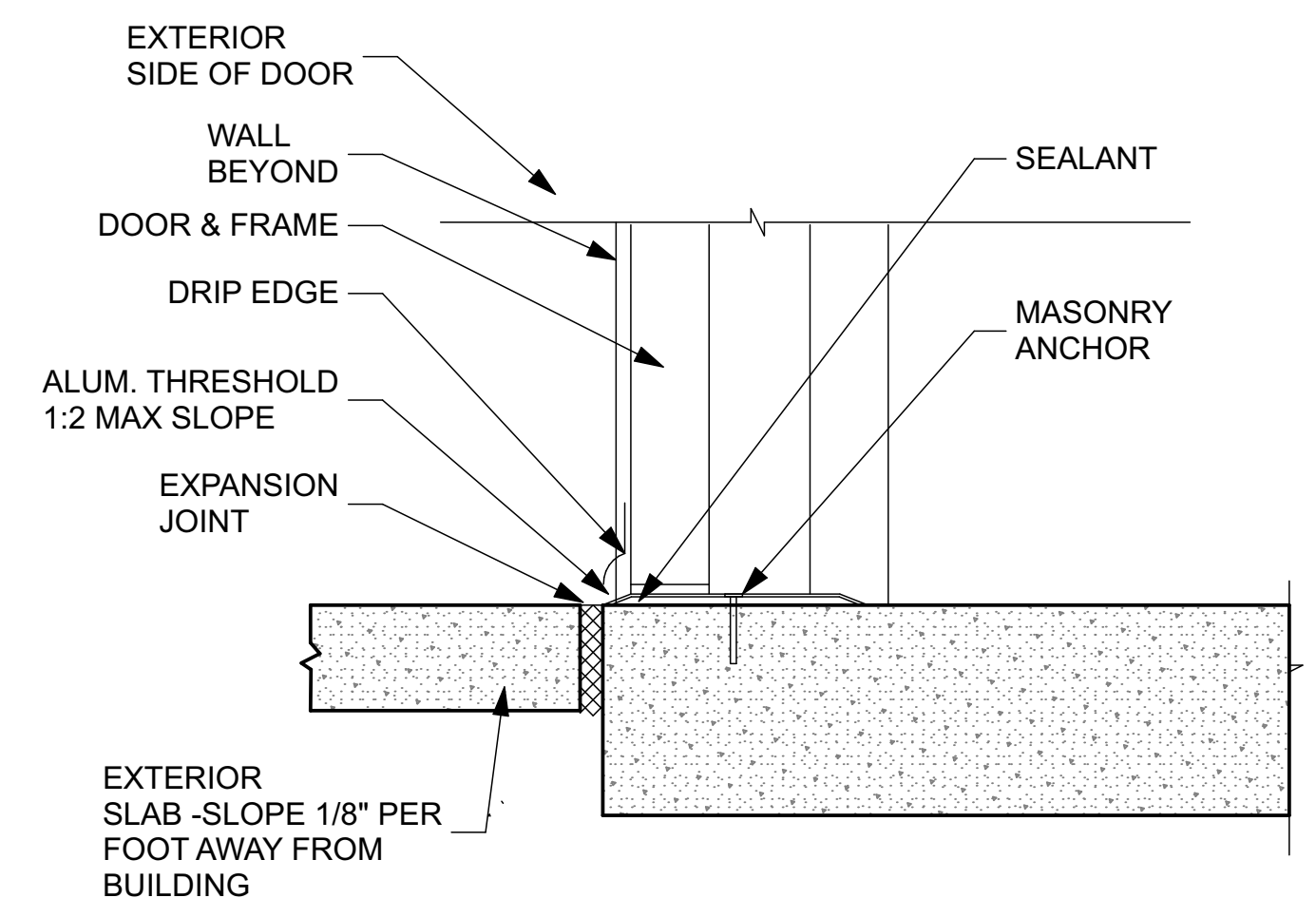
3 RIDGE DETAIL

SCALE: 3" = 1'-0"



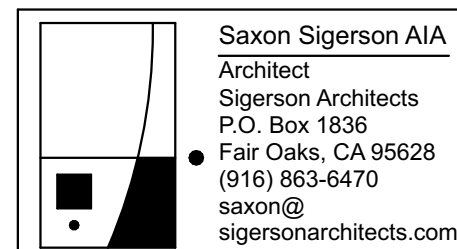
2 DOOR HEAD & JAMB DETAIL

SCALE: 3" = 1'-0"



1 DOOR THRESHOLD

SCALE: 3" = 1'-0"



REVIEWED BY:	DATE:	DESIGNED BY: SS							
REVIEWED BY:	DATE:	DRAWN BY: SS							
REVIEWED BY:	DATE:	CHECKED BY:							
		DATE: 8/11/2026	REV.	DATE	DESCRIPTION	APP.			

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

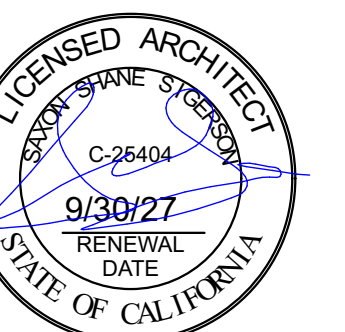
DETAILS -1

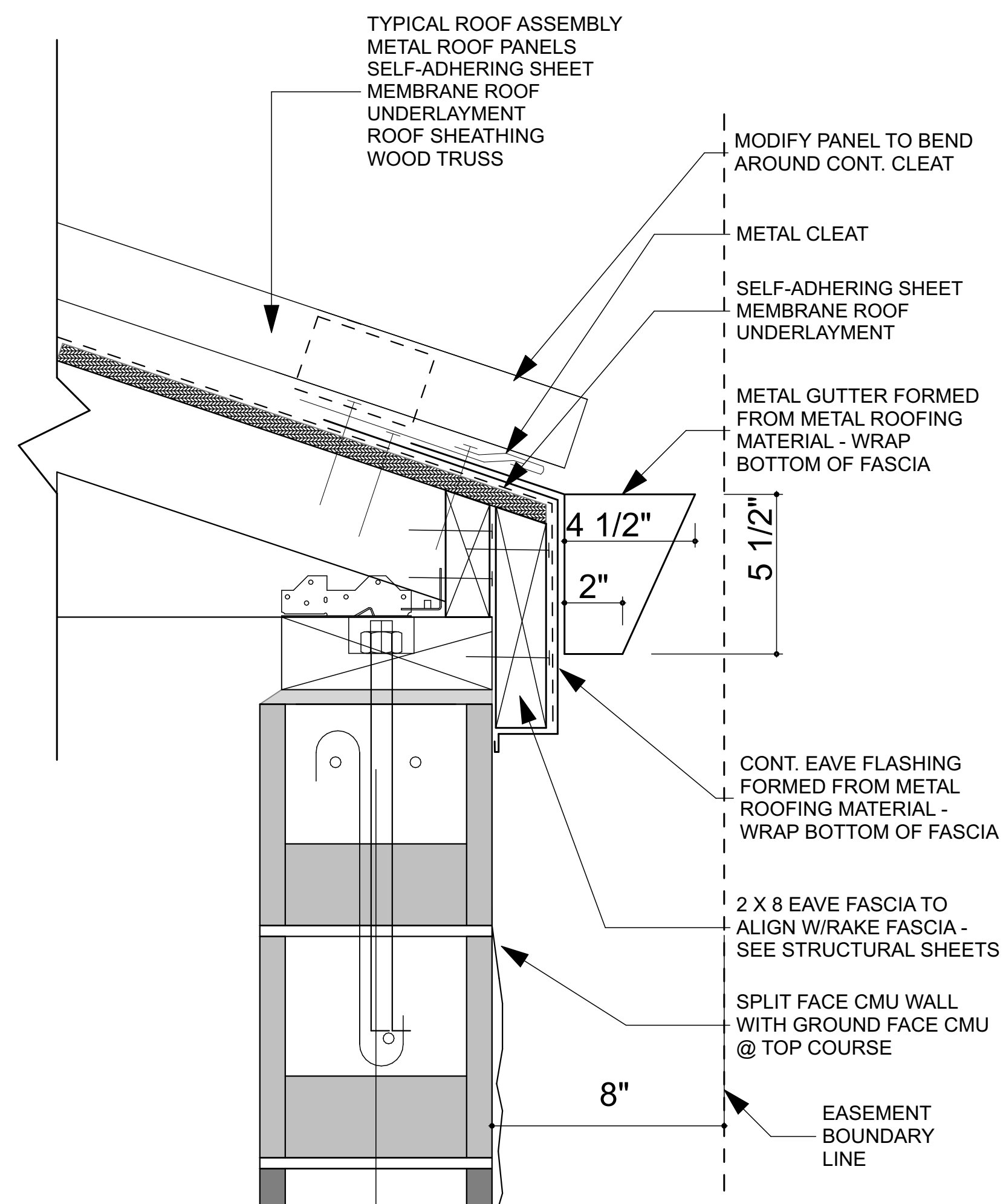
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SCALE:
VER.:



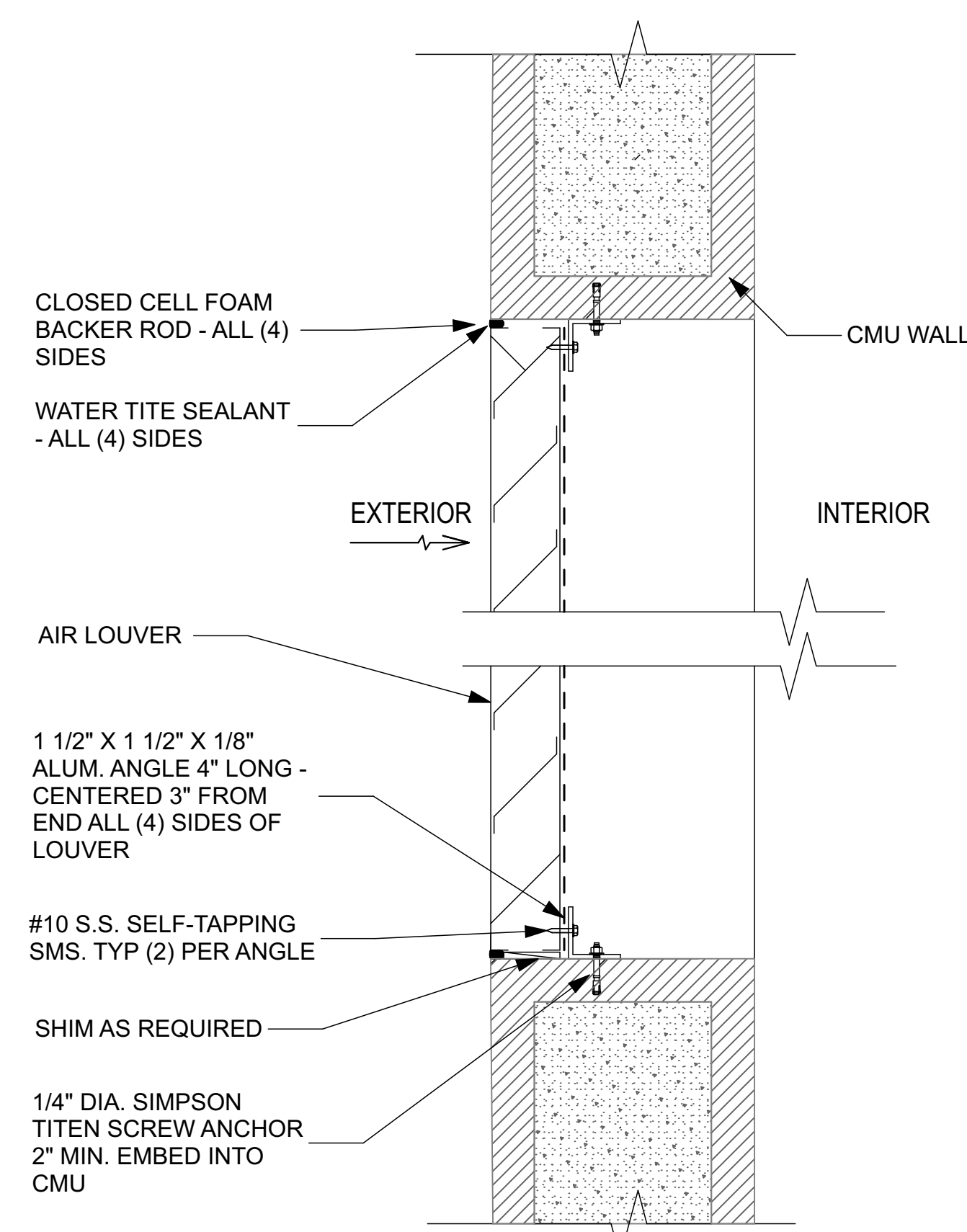
SHEET A6
OF 24 SHEETS 48
PROJECT NUMBER C26WTNWRE

BID SET

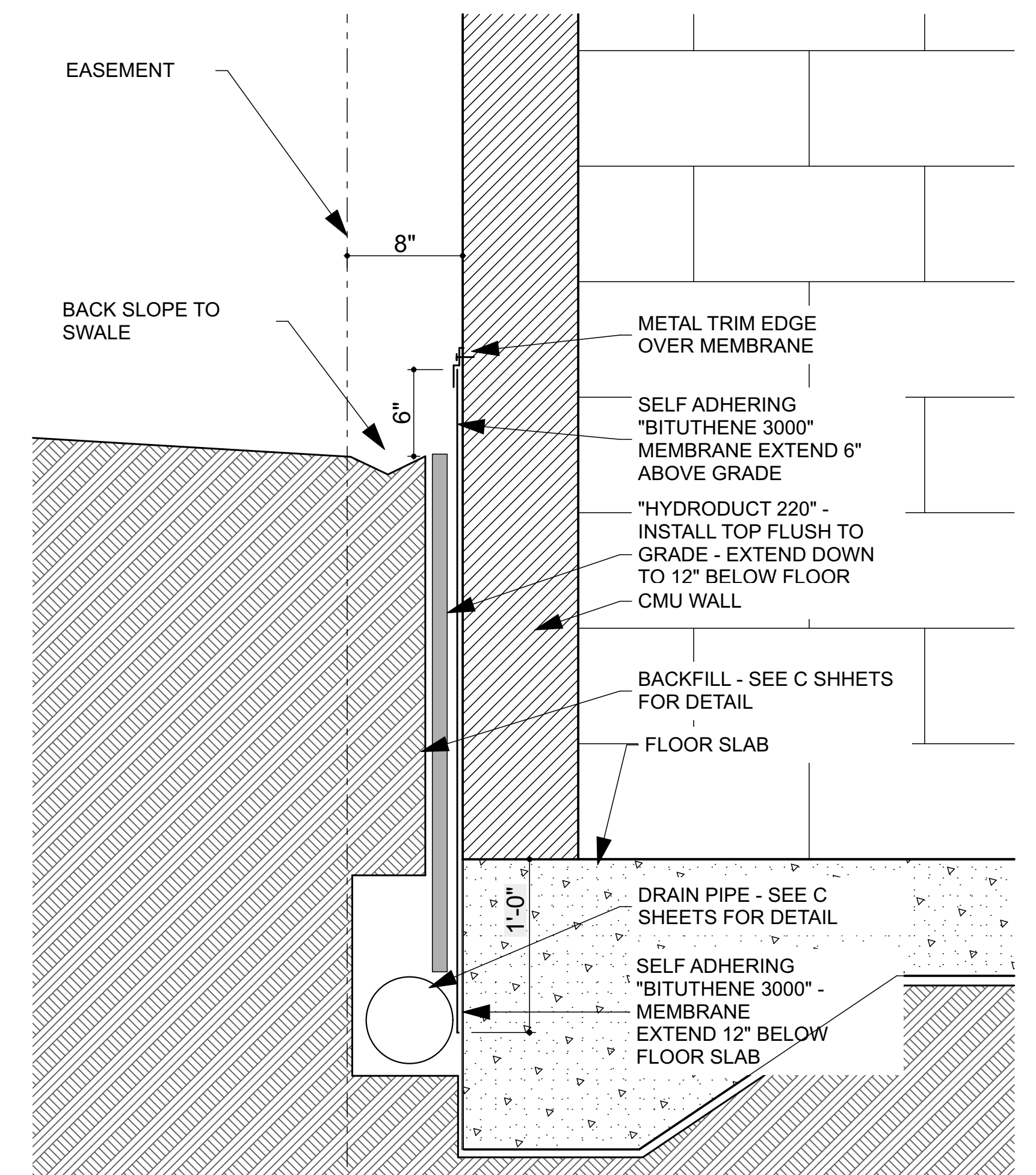




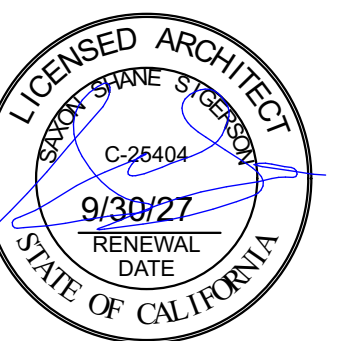
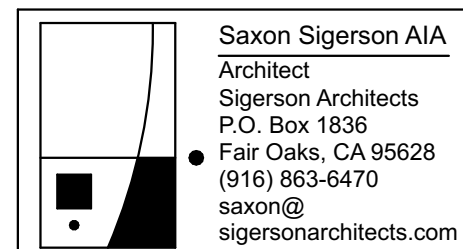
3 ROOF EAVE DETAIL 2
SCALE: 3" = 1'-0"



2 LOUVER DETAIL
SCALE: 3" = 1'-0"



1 FOUNDATION DRAIN
SCALE: 1 1/2" = 1'-0"



BID SET

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REVIEWED BY:	DATE:	DRAWN BY: SS				
REVIEWED BY:	DATE:	CHECKED BY:				
		DATE: 8/11/2026	REV.	DATE	DESCRIPTION	APP.

FAIR OAKS WATER DISTRICT
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NORTHBRIDGE WELL #15 EQUIPPING AND SITE IMPROVMENTS

DETAILS - 2

DATE: September 2026
SCALE:
VER.:



SHEET A7
OF 25 SHEETS 48
PROJECT NUMBER C26WTNWRE

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X	
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES	X	
3. FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3		X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1–26.6.3	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 B. INSPECT SINGLE–PASS FILLET WELDS, $\frac{3}{8}$ " MAX C. INSPECT ALL OTHER WELDS			AWS D1.4 ACI 318: 26.6.4	
3. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
4. INSPECT ANCHORS POST–INSTALLED IN HARDENED CONCRETE MEMBERS A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED 4.6	X		ACI 318: 17.8.2.4 ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X		ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3–26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS			ACI 318: 26.10	
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS			ACI 318: CH. 26.8	
11. VERIFY IN–SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST–TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS			ACI 318: 26.11.2	
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.2(b)	
A. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE. B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.				

DESIGN CRITERIA:

- | | | |
|----|---|--------------------|
| 1. | CODE: 2025 CALIFORNIA BUILDING CODE (CBC) | |
| 2. | DESIGN LIVE LOADS: | |
| | <div> <div>AREA</div> <div>LIVE LOAD</div> <div>REMARKS</div> </div> | |
| | <div> <div>ROOF</div> <div>FLAT TO < 4:12</div> <div>Lr= 20 PSF</div> </div> | REDUCIBLE PER CODE |
| | WIND DESIGN PARAMETERS: | |
| | BASIC WIND SPEED (3—SEC GUST) | V= 100 MPH |
| | RISK CATEGORY | III |
| | EXPOSURE CATEGORY | C |
| | BUILDING CATEGORY | PARTIALLY OPEN |
| 3. | EARTHQUAKE DESIGN PARAMETERS: | |
| | SEISMIC IMPORTANCE FACTOR, I_e | 1.25 |
| | COMPONENT IMPORTANCE FACTOR, I_p | 1.5 |
| | RISK CATEGORY | III |
| | SITE CLASS | D |
| | SEISMIC DESIGN CATEGORY | D |
| | DESIGN SPECTRAL RESPONSE PARAMETERS: | |
| | S_{DS} | 0.42 |
| | S_{D1} | 0.32 |
| | SEISMIC FORCE RESISTING SYSTEM: | |
| | SPECIAL REINFORCED MASONRY WALLS | |
| | RESPONSE MODIFICATION COEFFICIENTS: | |
| | R | 5 |

ABBREVIATIONS:

ADDNL	AGGREGATE BASE, ANCHOR BOLT	HA	HEADED ANCHOR
ADDITIONAL		HGD	HOT DIP GALVANIZED
AL	ALUMINUM	HORIZ	HORIZONTAL
ARCH	ARCHITECTURAL	HR	HANDRAIL
BETW	BETWEEN	HSB	HIGH STRENGTH BOLT
BEV	BEVELLED	HSS	HOLLOW STRUCTURAL STEEL
BLKG	WOOD BLOCKING	IE	INVERT ELEVATION
BLW	BELOW	JT	JOINT
BM	BEAM	KP	KICK PLATE
BOF	BOTTOM OF FOOTING	L	LONG
BOT	BOTTOM	LS	LAG SCREW
BRG	BEARING	MANUF	MANUFACTURER
CC	CENTER TO CENTER	MAX	MAXIMUM
CHKD PL	CHECKERED PLATE	MB	MACHINE BOLT
CLR	CLEAR	MECH	MECHANICAL
CL	CENTERLINE	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MTG	MOUNTING
CNTSK	COUNTERSINK	(N)	NEW
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	O/	OVER
CNJ	CONSTRUCTION JOINT	OH	OPPOSITE HAND
CONT	CONTINUOUS	PEMB	PRE-ENGINEERED METAL BUILDING
CJ	CONTROL JOINT, CONTRACTION JOINT	PL	PLATE
db	BAR DIAMETER	PLC'S	PLACES
DIA	DIAMETER	PT	PRESSURE TREATED
DIM	DIMENSION	REINF	REINFORCING
DN	DOWN	REQ'D	REQUIRED
(E)	EXISTING	REQMT'S	REQUIREMENTS
EA	EACH	SAD	SEE ARCHITECTURAL DRAWINGS
EF	EACH FACE	SIM	SIMILAR
EJ	EXPANSION JOINT	SMS	SHEET METAL SCREW
EL, (ELEV)	ELEVATION	SOG	SLAB ON GRADE
EMB	EMBEDMENT	SP	STRUCTURAL PLYWOOD
EN	EDGE NAILING	SS	STAINLESS STEEL
EQ	EQUAL	STIFF	STIFFENER
EQUIP	EQUIPMENT	STAGG	STAGGER
ES	EACH SIDE	SQ	SQUARE
EW	EACH WAY	SYMM	SYMMETRICAL
EWEF	EACH WAY EACH FACE	T&B	TOP AND BOTTOM
EWF	ELECTRICALLY WELDED FABRIC	TOC	TOP OF CONCRETE
FB	FLAT BAR	TOF	TOP OF FRAMING
FD	FLOOR DRAIN	TOM	TOP OF MASONRY
FF	FINISHED FLOOR	TOP	TOP OF PLATE
FG	FINAL GRADE	TOS	TOP OF STEEL
FLG	FLANGE	TOW	TOP OF WALL
FN	FIELD NAILING	TYP	TYPICAL
FOM	FACE OF MASONRY	UNO (UON)	UNLESS NOTED OTHERWISE
FS	FACE OF STUD	VERT	VERTICAL
FTG	FOOTING	W	WIDE
GA	GAGE	W/	WITH
GALV	GALVANIZED	WHS	WELDED HEADED STUD
GC	GENERAL CONTRACTOR	WP	WORKING POINT
GS	GALVANIZED STEEL	WS	WATERSTOP
H	HIGH		



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Project NORTHRIDGE WELL REPLACEMENT

Sheet Title

GENERAL NOTES 2

The undersigned Engineer does not represent that these plans or the specifications in connection therewith are suitable, whether or not modified for any other site than the one for which they were specifically prepared. The Engineer disclaims responsibility for these plans and specifications if they are used in whole or in part at any other site.

The contractor shall verify and be responsible for all dimensions and conditions on the job and this office must be notified in writing of any variation from the dimensions and conditions shown by these drawings.

This drawing is not final or to be used for construction until signed by the Engineer and owner.

All drawings and written material appearing herein constitute the original and unpublished work of the Engineer and the same may not be duplicated, used or disclosed without written consent of the Engineer.

Engineer	BAF	
Drawn By	DGG	
Revisions		
NO.	DATE	DESCRIPTION
	8/1/2026	DISTRICT REVS

Job No.	24034
Date	4/1/2026

Drawing No.

BID SET

S1.1



TYPICAL DETAILS

TYPICAL DETAILS

The undersigned Engineer does not represent that these plans or the specifications in connection therewith are suitable, whether or not modified for another site than the one for which they were specifically prepared. The Engineer disclaims responsibility for these plans and specifications if they are used in whole or in part at any other site.

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Drawn By DGG

Revisions	

NO.	DATE	DESCRIPTION
	8/1/2026	DISTRICT REVS

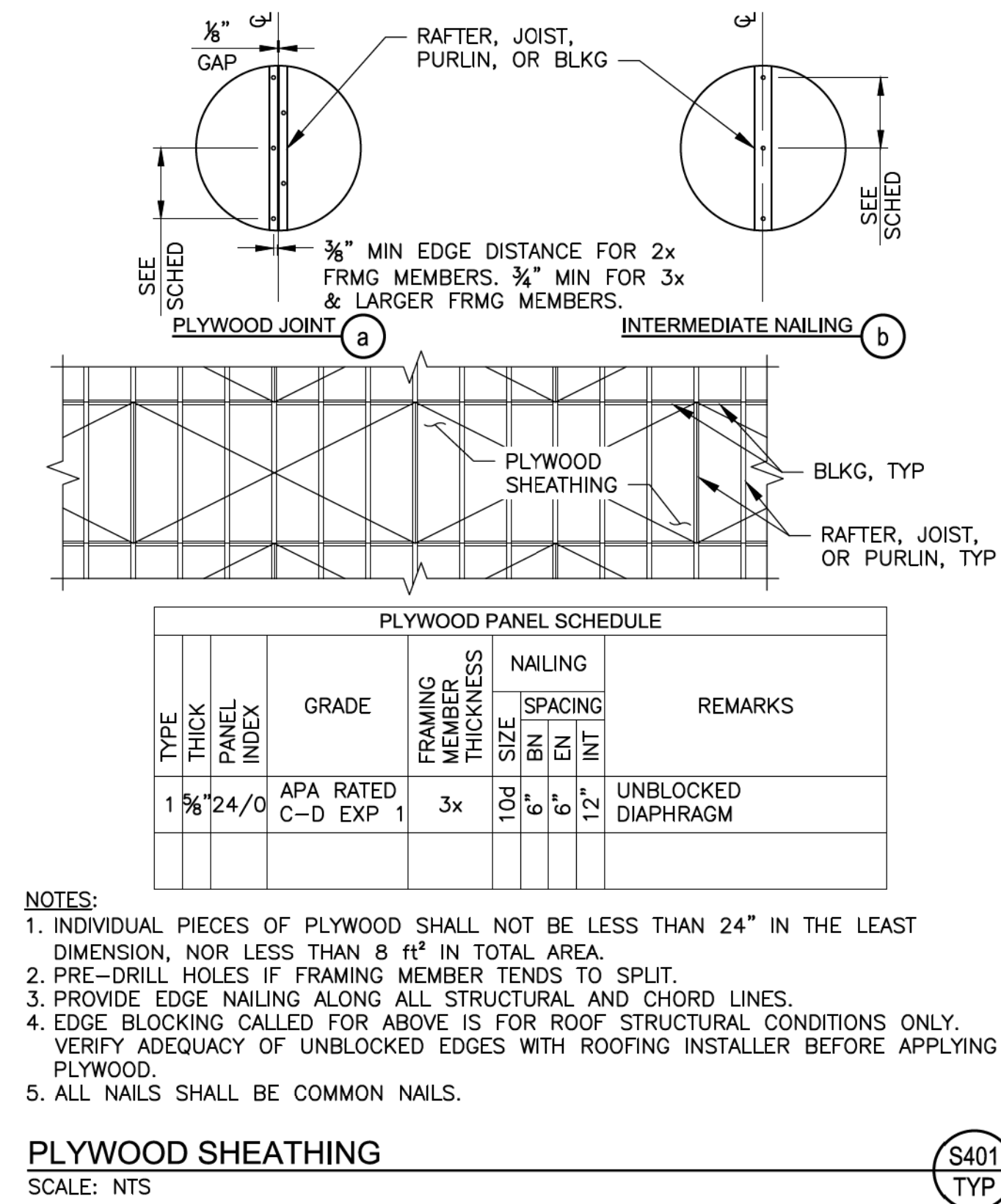
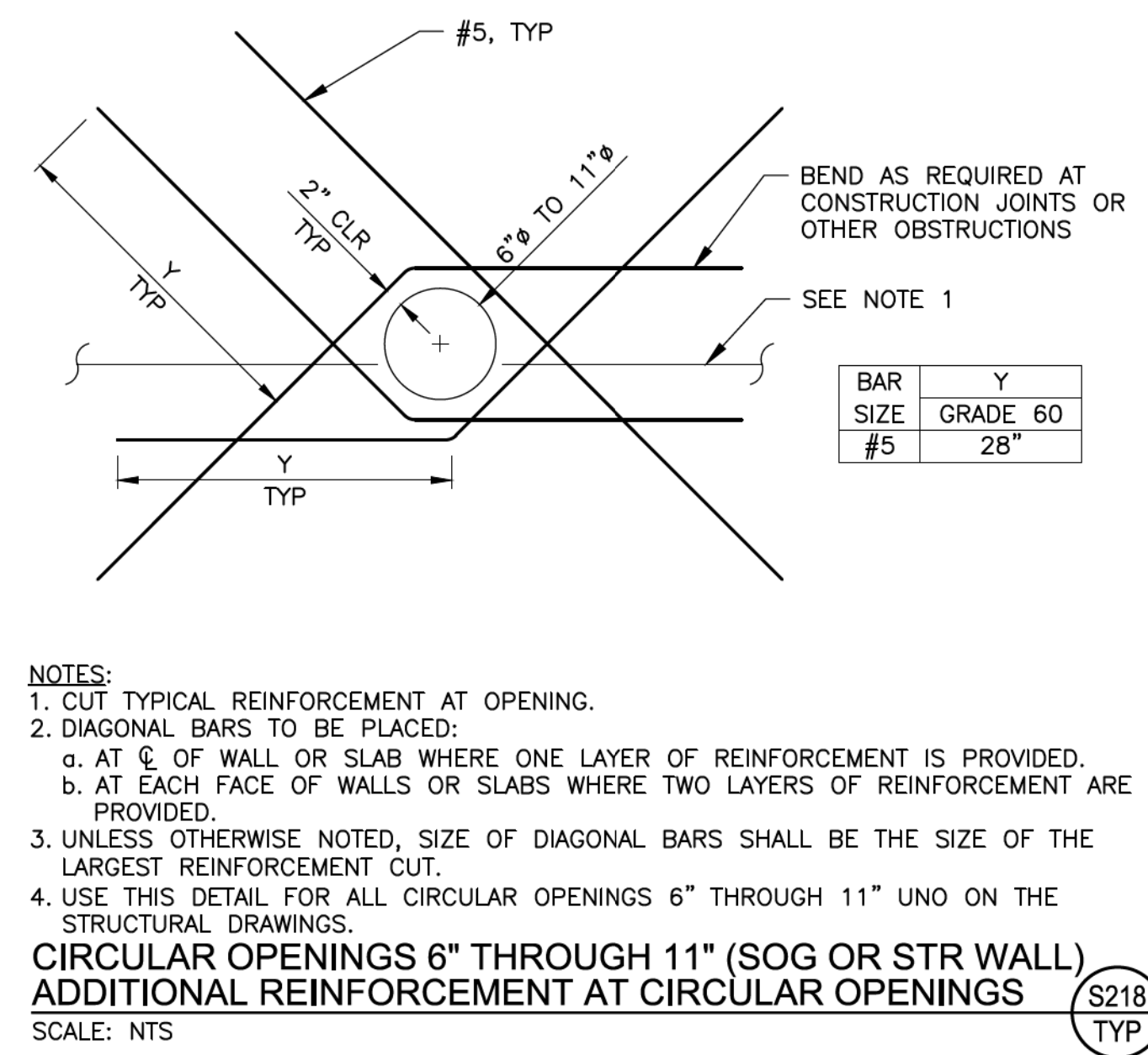
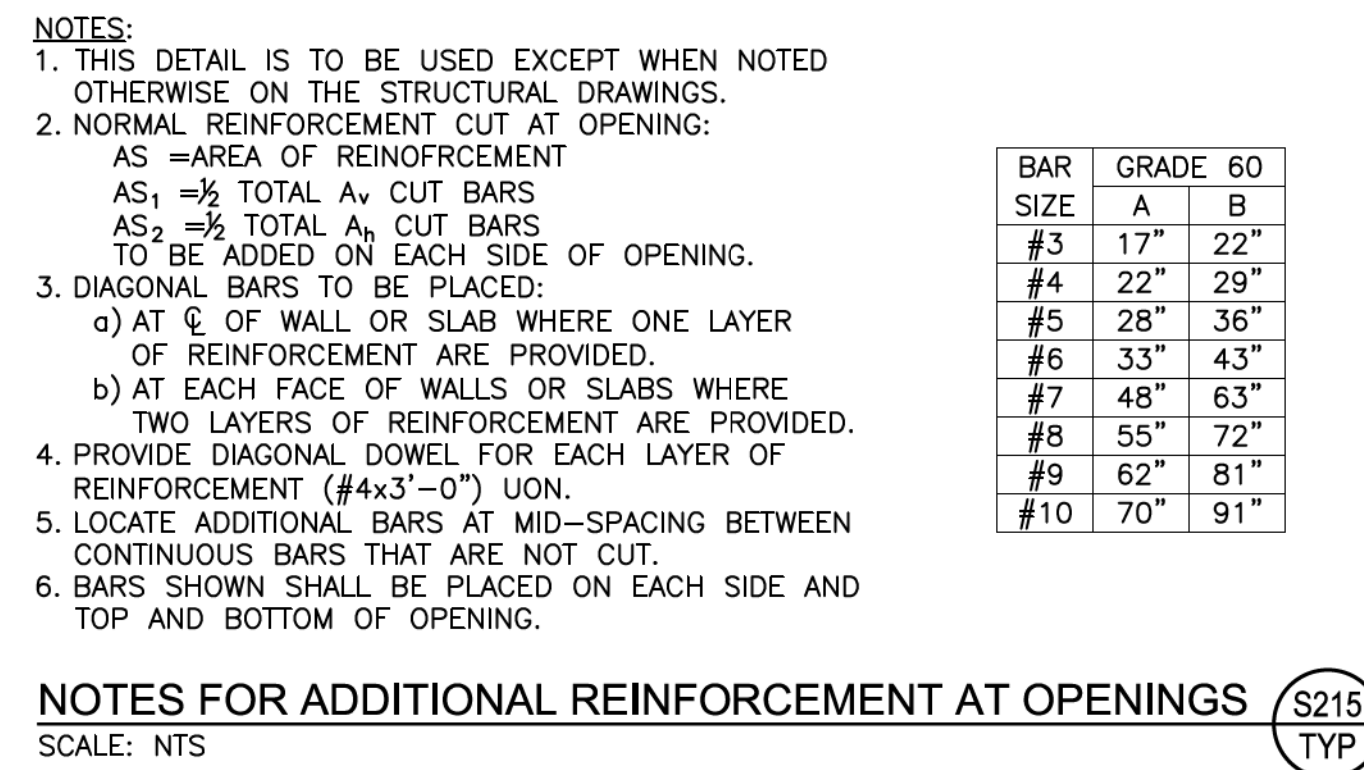
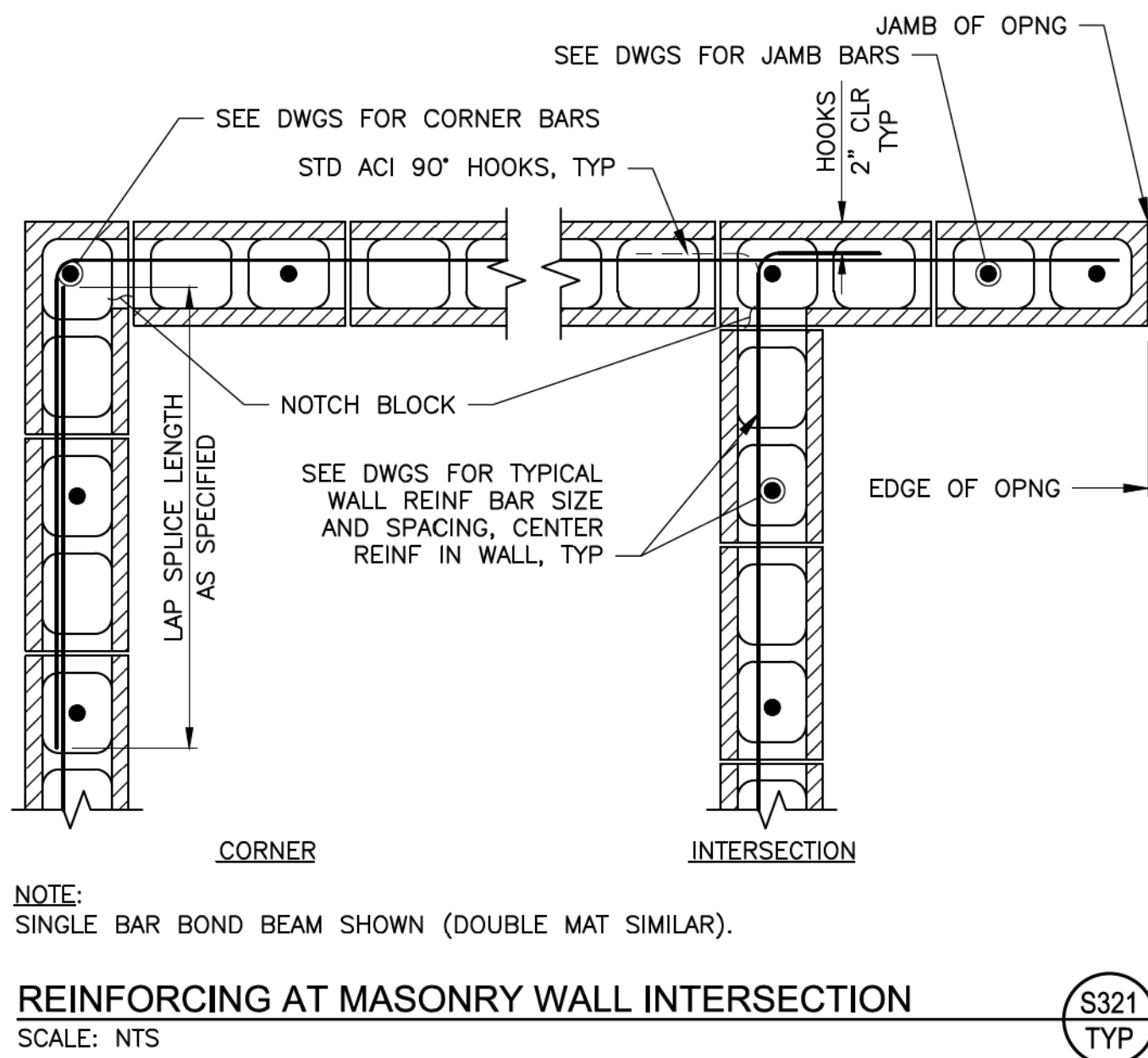
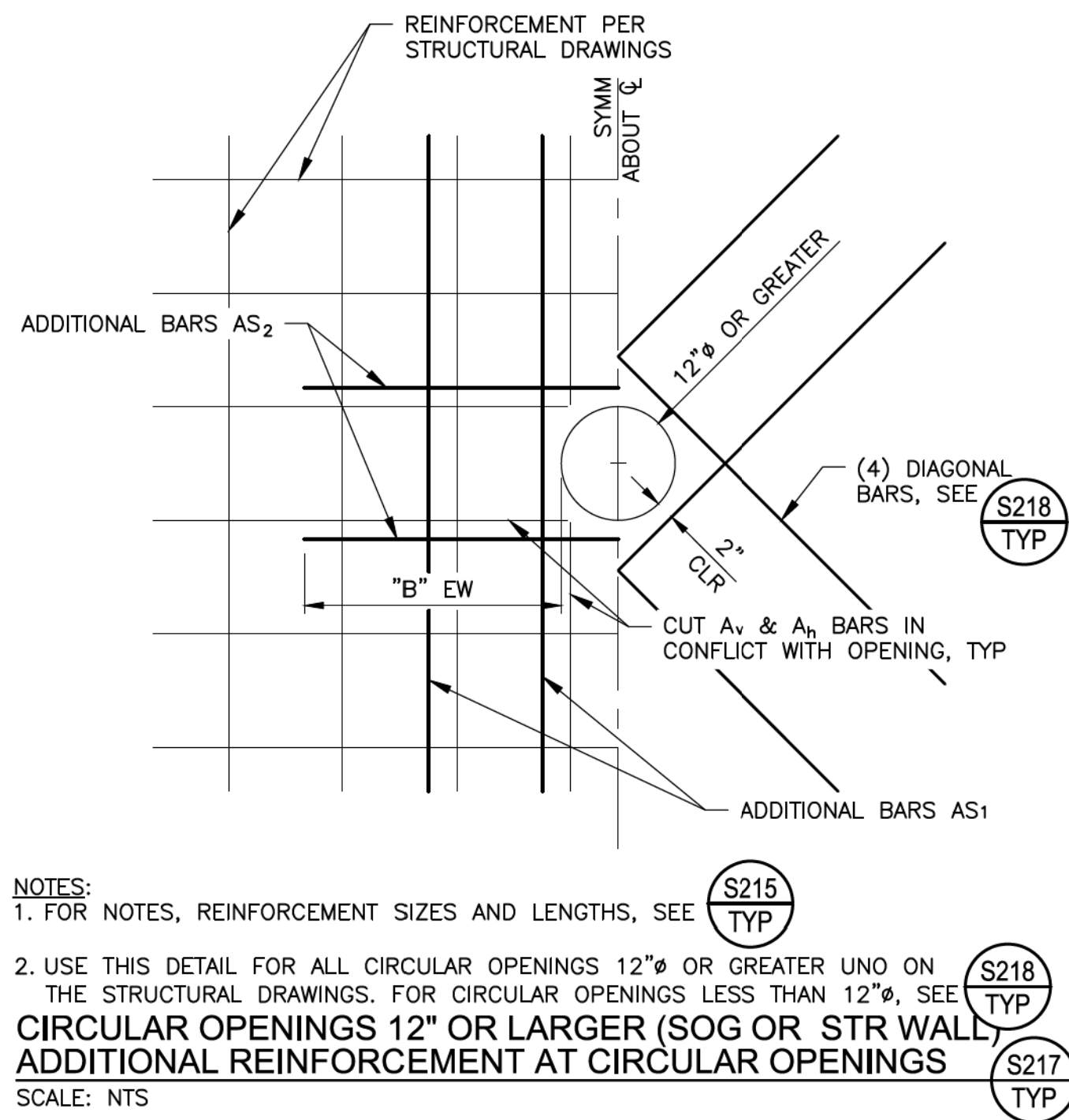
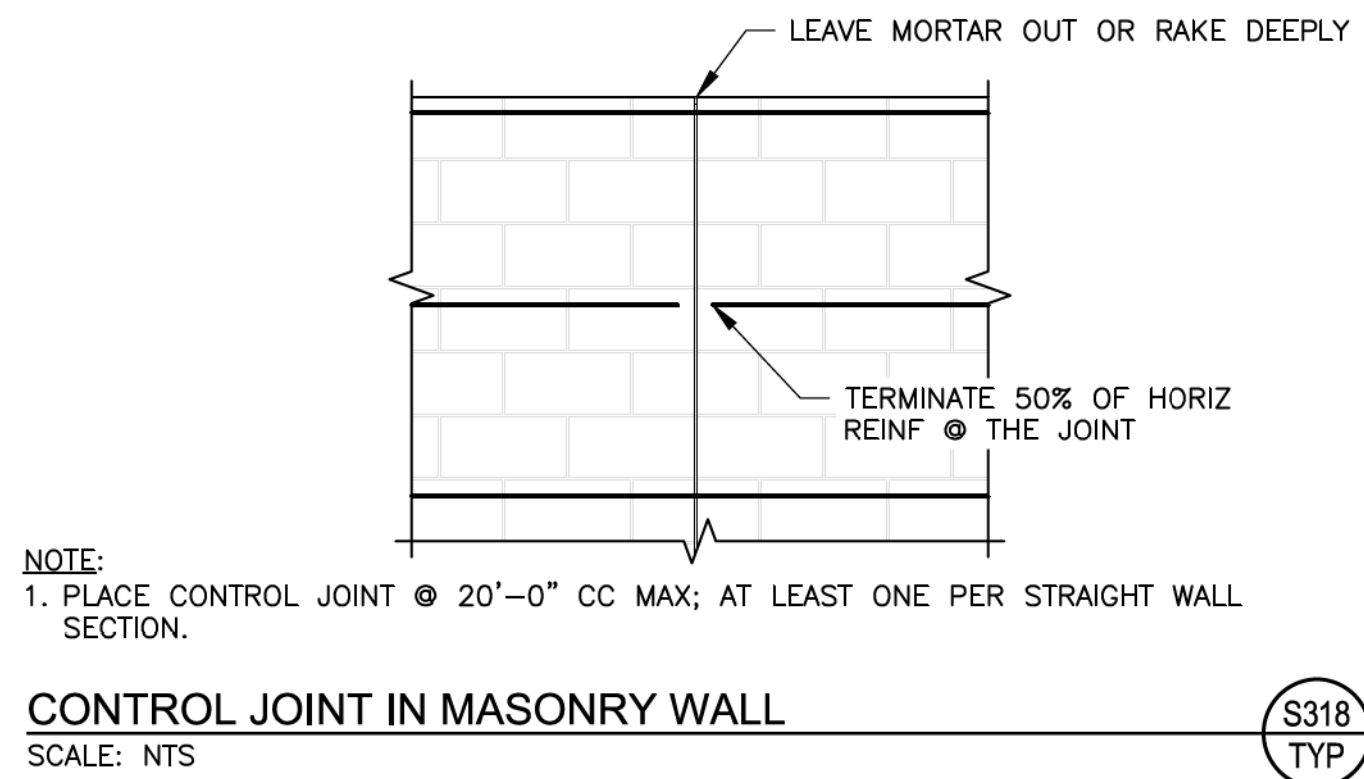
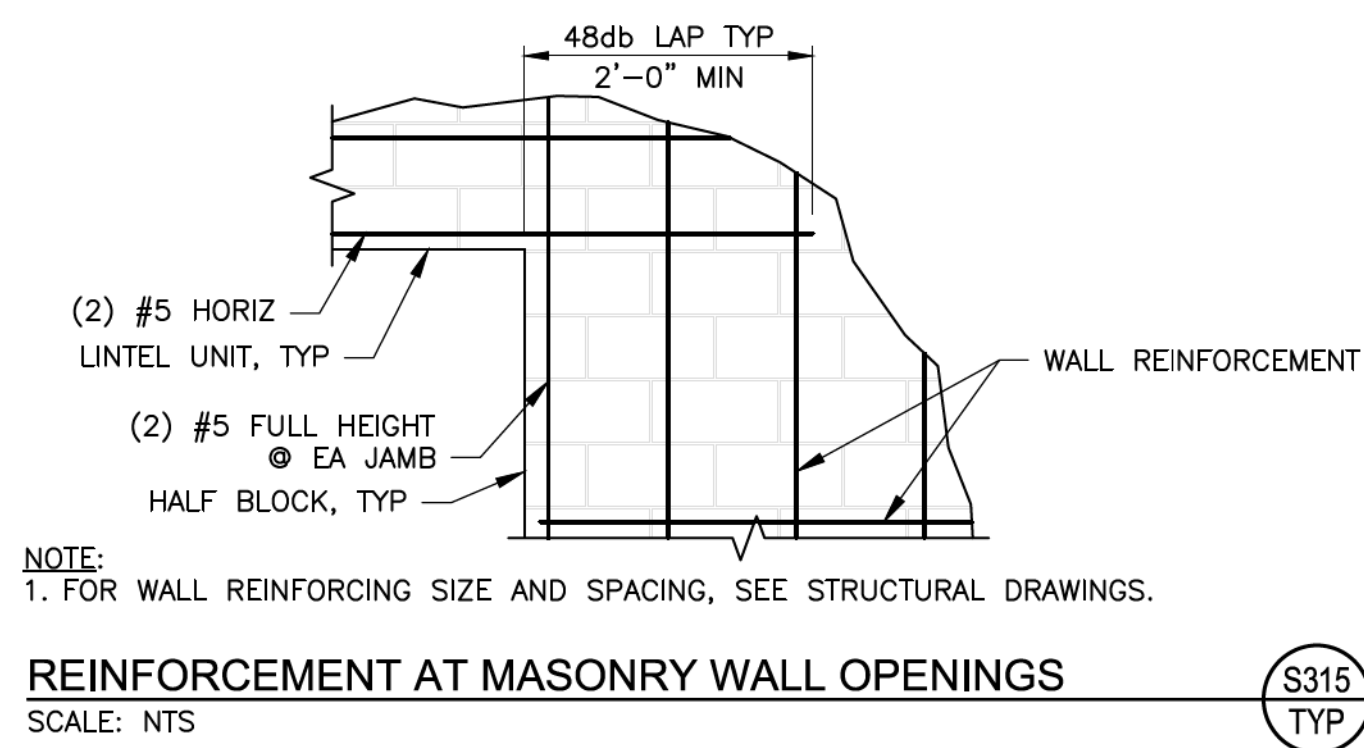
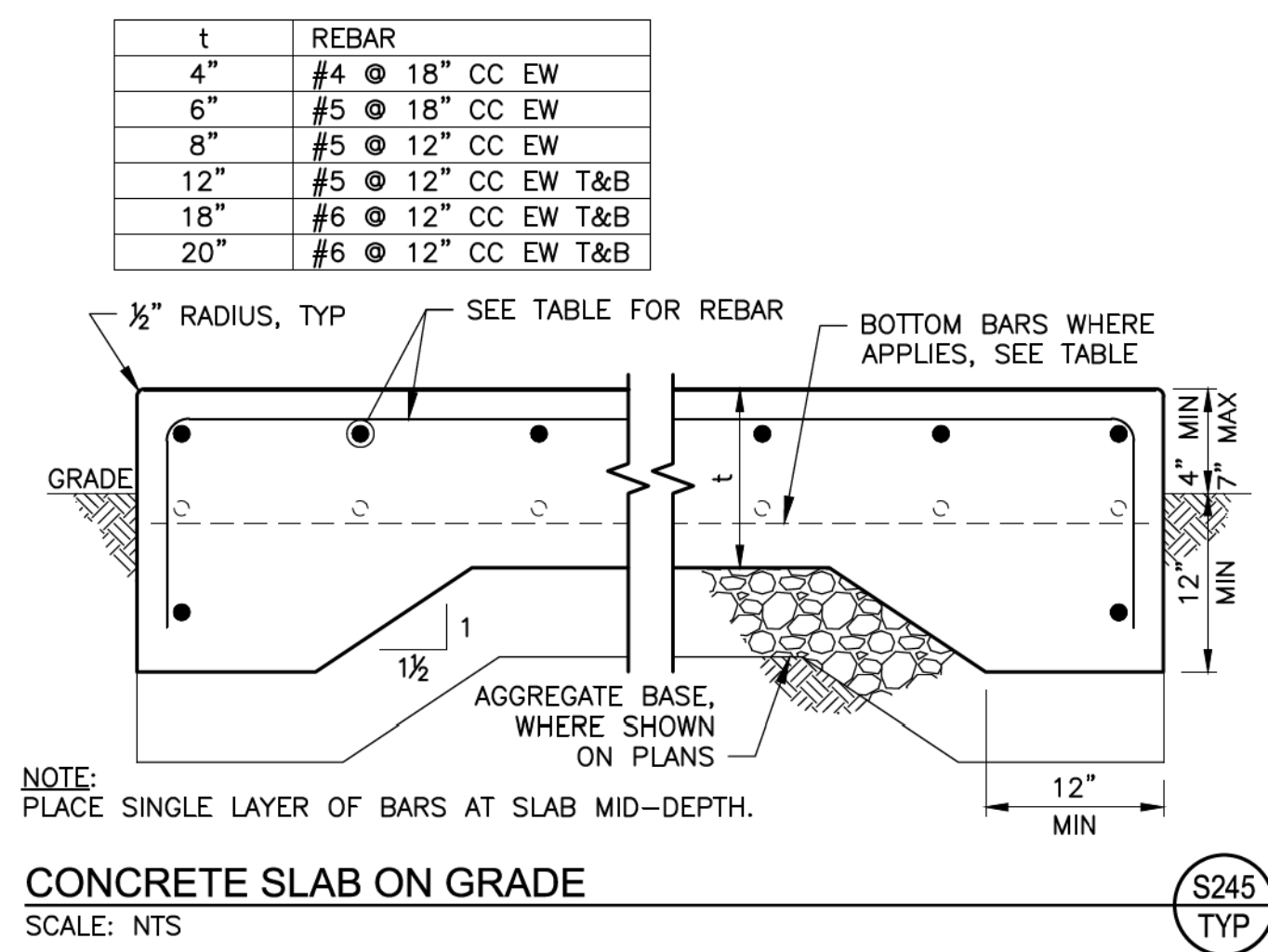
Job No. 24034

Date 4/1/2026

Drawing No.

S1.2

.....
28 *OF* **48** *SHEETS*





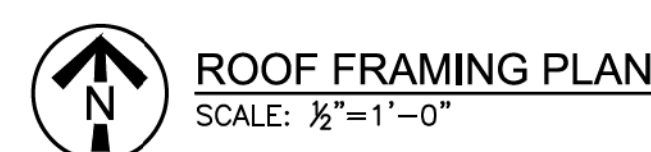
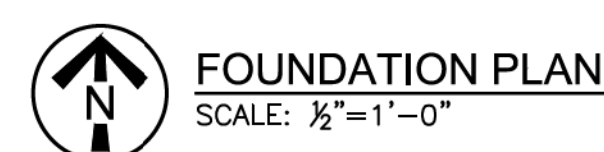
PLANS

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Drawing No.

S2.0

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29 OF **48** SHEETS





SECTIONS AND DETAILS

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.....
30 OF **48** SHEETS





.....
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The contractor shall verify and be responsible for all dimensions and conditions on the job and this must be notified in writing of any variation from dimensions and conditions shown by these drawings.

This drawing is not final or to be used for construction until signed by the Engineer and owner.

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Engineer BAF

Drawn By DGG

Revisions

NO.	DATE	DESCRIPTION
	8/1/2026	DISTRICT REVS

Job No. 24034

Date 4/1/2026

Drawing No.

BID SET

S3.1

.....
31 OF **48** SHEETS



SECTION
SCALE: $\frac{1}{2}"=1'-0"$

FILE SPEC: C:\Users\Brad.Friederichs\VE Solutions Dropbox\VE Solutions Team Folder\VE Solutions\Engineering\24000 Jobs\24025\24034 Northridge Well Replacement\CAD\24034 02 Plan and Section.dwg
PLOT DATE: Aug 13, 2026 - 12:27pm

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
COMPONENTS		SWITCHES – PROCESS		DEVICES – RELAY		WIRING – CONNECTIONS	
	RESISTOR		FLOW SWITCH – CLOSSES UPON INCREASING FLOW		CONTACTOR OR STARTER M1		PANEL OR EQUIPMENT WIRING
	SOLENOID COIL		FLOW SWITCH – OPENS UPON INCREASING FLOW		CONTROL RELAY CR1		FIELD WIRING
	HEATER		LEVEL SWITCH – CLOSSES UPON INCREASING LEVEL		TIME DELAY RELAY TR2 – ADJUSTABLE TIME DELAY RANGE & SETTING AS SHOWN		CONDUCTORS – NOT CONNECTED
	CAPACITOR		LEVEL SWITCH – OPENS UPON INCREASING LEVEL		TIME DELAY ON ENERGIZATION TIME DELAY ON DE-ENERGIZATION		CONDUCTORS – CONNECTED
	DIODE		PRESSURE SWITCH – CLOSSES UPON INCREASING PRESSURE (DECREASING VACUUM)		GROUND CONNECTION		PLUG AND RECEPTACLE
	DIODE, ZENER		PRESSURE SWITCH – OPENS UPON INCREASING PRESSURE (DECREASING VACUUM)		INCOMING LINE		TERMINAL BLOCKS WITH TERMINAL NUMBER AS SHOWN OR AS DETERMINED BY SUBMITTAL
	METAL OXIDE VARISTOR		TEMPERATURE SWITCH – CLOSSES UPON INCREASING TEMPERATURE		DISCONNECTING TERMINAL BLOCK		FUSE
	AUDIBLE ALARM		TEMPERATURE SWITCH – OPENS UPON INCREASING TEMPERATURE		SHIELDED CABLE		
	3 PHASE MOTOR ? = MOTOR HP		LIMIT SWITCH – CLOSSES AT SET LIMIT	PLAN – SYMBOLS			
	3 PHASE MOTOR		LIMIT SWITCH – OPENS AT SET LIMIT		CONDUIT, EXPOSED		
	SINGLE PHASE MOTOR		TORQUE SWITCH – CLOSSES UPON INCREASING TORQUE		CONDUIT, IN SLAB OR BELOW GRADE		
	TRANSFORMER SIZE AND VOLTAGE AS SHOWN		TORQUE SWITCH – OPENS UPON INCREASING TORQUE		CONDUIT, CONCEALED IN WALL OR CEILING		
	UTILITY POWER METER		NORMALLY CLOSED, TIME DELAY RELAY CONTACT – CONTACT CLOSSES AFTER TR2 IS DE-ENERGIZED		CONDUIT STUBBED OUT & CAPPED		
	UFER GROUND		NORMALLY CLOSED, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS ENERGIZED		CONDUIT BENDS TOWARD OBSERVER		
	GROUND ROD		NORMALLY OPEN, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS DE-ENERGIZED		CONDUIT BENDS AWAY FROM OBSERVER		
	CURRENT TRANSFORMER RATIO AS NOTED		NORMALLY OPEN, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS ENERGIZED		CONDUIT ENDS		
	DISCONNECT SWITCH SIZED PER FEEDER		NORMALLY OPEN, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS DE-ENERGIZED		FLEXIBLE CONDUIT CONNECTION FROM J-BOX TO EQUIPMENT		
	POWER DISTRIBUTION BLOCK		NORMALLY OPEN, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS DE-ENERGIZED		CONDUIT CHANGE IN ELEVATION		
SWITCHES – OPERATOR		DEVICES – FRONT PANEL		DEVICES – PROTECTIVE			
	TOGGLE OR DISCONNECT SWITCH		INDICATING LIGHT, LETTER "X" INDICATES COLOR: R=RED G=GREEN, A=AMBER, W=WHITE Y=YELLOW, B=BLUE		LOW VOLTAGE MOLDED CASE, INSULATED CASE OR POWER CIRCUIT BREAKER. RATINGS AS SHOWN IN DRAWINGS AND AS DEFINED BELOW: xA: CIRCUIT BREAKER AMERAGE xAI: AMPERAGE TRIP xAF: AMPERAGE FRAME xP: NUMBER OF POLES xT: TRIP PROTECTION MCP: MOTOR CIRCUIT PROTECTION TM: THERMAL MAGNETIC L: LONG TIME DELAY S: SHORT TIME DELAY I: INSTANTANEOUS TRIP G: GROUND FAULT A: ARC FLASH PROTECTION 100% DUTY RATED x: BREAKER FEATURES / OPTIONS – SHUNT TRIP – KIRK–KEY INTERLOCK – MANUALLY CHARGED PUSHBUTTON OPERATION – ELECTRICALLY CHARGED PUSHBUTTON OPERATION		THERMOSTAT
	PUSHBUTTON – NORMALLY OPEN, MOMENTARY ACTION		INDICATING LIGHT, PUSH TO TEST		EYS SEAL		JUNCTION BOX
	PUSHBUTTON – NORMALLY CLOSED, MOMENTARY UNLESS LOS (LOCK OUT STOP) WHERE MECHANICALLY HELD	DEVICES – PROTECTIVE			PULL BOX OF SIZE SHOWN (CHRISTY BOX SIZE MINIMUM)		LIGHTING FIXTURE
	PUSHBUTTON, MECHANICALLY CONNECTED, DOUBLE CIRCUIT – NORMALLY CLOSED AND NORMALLY OPEN		CT SHORTING TERMINAL BLOCK		# – CIRCUIT BREAKER NUMBER A – FIXTURE SCHEDULE REF. a – CONTROL SWITCH REFERENCE		DUPLEX RECEPTACLE
	SELECTOR SWITCH, 3 POSITION – CONTACT STATUS SHOWN EXISTS I.E. AT POSITION OF HAND, OFF, OR AUTO		FUSED POTENTIAL TRANSFORMER, 208 / 120 V SECONDARY OR AS SHOWN		WP – WEATHERPROOF (IF SHOWN) GFI – GROUND FAULT TYPE		WP – WEATHERPROOF (IF SHOWN) GFI – GROUND FAULT TYPE
	SELECTOR SWITCH, 2 POSITION – MIDDLE POSITION IS DELETED		POWER MONITOR		THERMAL OVERLOAD CONTACT		THERMAL OVERLOAD ELEMENT
	ALTERNATE METHOD: X00 = HAND OOX = AUTO, OX0 = OFF		SURGE PROTECTION DEVICE		MEDIUM VOLTAGE CIRCUIT BREAKER		T = TIMER SWITCH
	POTENTIOMETER		POWER FAIL REPLAY		MULTIFUNCTION RELAY PER SPECIFICATIONS		

MISCELLANEOUS ABBREVIATIONS			
&	AND	N	NEUTRAL
@	AT	NC	NORMALLY CLOSED
A	AMBER, AMPERES	NHC	NORMALLY HELD CLOSED
AC	ALTERNATING CURRENT	NHO	NORMALLY HELD OPEN
ACK	ACKNOWLEDGE	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NL	NIGHT LIGHT
AH	AMP HOUR	NO	NORMALLY OPEN
AI	ANALOG INPUT	NTS	NOT TO SCALE
AIC	AMP INTERRUPTING CAPACITY SYMMETRICAL	(N)	NEW
AM	AMP METER	OC	ON CENTER
AO	ANALOG OUTPUT	OI, OIT	OPERATOR INTERFACE
AWG	AMERICAN WIRE GAUGE	OL	OVERLOAD
ATS	AUTOMATIC TRANSFER SWITCH	ORP	OXIDATION REDUCTION POTENTIAL
BATT	BATTERY	P	POLE
BFC	BELOW FINISHED CEILING	PB	PUSHBUTTON
BOD	BIOCHEMICAL OXYGEN DEMAND	PBX	PULL BOX
BPF	BAND PASS FILTER	PDB	POWER DISTRIBUTION BLOCK
BYP	BYPASS	PF	POWER FACTOR
C	CONDUIT	PFR	POWER FAIL RELAY
CAP	CAPACITOR	PH	HYDROGEN ION CONCENTRATION
CB	CIRCUIT BREAKER	PLC	PROGRAMMABLE LOGIC CONTROLLER
CKT	CIRCUIT	PM	POWER MONITOR
COAX	COAXIAL CABLE	PNL	PANEL
COMM	COMMUNICATION	POT	POTENTIOMETER
CR	CONTROL RELAY	PR	PAIR, TWISTED AND SHIELDED
CT	CURRENT TRANSFORMER	PRI	PRIMARY
CS	CONSTANT SPEED	PROVIDE	FURNISH, INSTALL, AND CONNECT
CU	COPPER	PS	PRESSURE SWITCH
DC	DIRECT CURRENT	PT	POTENTIAL TRANSFORMER
DET	DETAIL	PTT	PUSH TO TEST
DI	DIGITAL INPUT	PVC	POLYVINYLCHLORIDE
DISC	DISCONNECT	PWR	POWER
DO	DIGITAL OUTPUT	REF	REFERENCE
DPDT	DOUBLE POLE DOUBLE THROW	RFI	RADIO FREQUENCY INTERFERENCE
DWG	DRAWING	RMS	ROOT MEAN SQUARE
E-DTL	ELECTRICAL DRAWING DETAIL	RTD	RESISTANCE TEMPERATURE DETECTOR
ELEV	ELEVATION	RST	RESET
ENET	ETHERNET	RVAT	REDUCE VOLTAGE AUTO TRANSFORMER
ETM	ELAPSED TIME METER	RTU	REMOTE TERMINAL UNIT
ESW	ETHERNET SWITCH	(R)	REWIRE, RELOCATE, REMISE, REUSE
(E)	EXISTING	SCH	SCHEDULE
FCS	FIELD CONTROL STATION	SEC	SECONDARY, SECOND
FLA	FULL LOAD AMPS	SECS	SECONDS
FLEX	FLEXIBLE LIQUID TIGHT CONDUIT	SEL	SELECTOR
FS	FULL SPEED	SFA	SERVICE FACTOR AMPS
FVNR	FULL VOLTAGE NON-REVERSING	SPEC	SPECIFICATION
FVR	FULL VOLTAGE REVERSING	SPD	SURGE PROTECTIVE DEVICE
FWD	FORWARD	SS	STAINLESS STEEL
(F)	FUTURE	SSRC	STAINLESS STEEL RIGID CONDUIT
GALV	GALVANIZED	SSS	SOLID STATE STARTER
GFI	GROUND FAULT INTERRUPTER	STT	START
GND	GROUND	STP	STOP
GRS	GALVANIZED RIGID STEEL CONDUIT	SV	SOLENOID VALVE
GRS-PVC	PVC COATED GRS CONDUIT	SW	SWITCH
HI	HIGH	SWBD	SWITCHBOARD
HIM	HUMAN INTERFACE MODULE	SYM	SYMMETRICAL
HOA	HAND OFF AUTO	TB	TERMINAL BLOCK
HP	HORSE POWER	TC	TIME CLOCK
HPS	HIGH PRESSURE SODIUM	TDOD	TIME DELAY ON DE-ENERGIZATION
HS	HAND SWITCH	TDOE	TIME DELAY ON ENERGIZATION
HTR	HEATER	TELCO	TELEPHONE COMPANY
HZ	HERTZ	TM	THERMAL MAGNETIC
HZD	HAZARD	TEMP	TEMPERATURE
I	INTERLOCK	TR	TIME DELAY RELAY
I/O	INPUT/OUTPUT	TRIAD	TWISTED AND SHIELDED 3 CONDUCTOR
INST	INSTANTANEOUS	TS	TEMPERATURE SWITCH
ISR	INTRINSICALLY SAFE RELAY	TSPR	TWISTED AND SHIELDED PAIR
IS	INTRINSICALLY SAFE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
J	JUNCTION BOX	TYP	TYPICAL
K	KILO, PREFIX	UG	UNDERGROUND
LA	LIGHTNING ARRESTOR	ULH	ULTRA LOW HARMONIC
LC	LIGHTING CONTACTOR	UON	UNLESS OTHERWISE NOTED
LEL	LOWER EXPLOSION LIMIT	UPS	UNINTERRUPTIBLE POWER SUPPLY
LOS	LOCK OUT STOP	V	VOLTAGE
LS	LIMIT SWITCH	VA	VOLT AMPS
M	MOTOR CONTACTOR	VAR	VOLT AMPS REACTIVE
MAG	MAGNETIC FLOWMETER	VFD	VARIABLE FREQUENCY DRIVE
MAX	MAXIMUM	VLV	VALVE
MCC	MOTOR CONTROL CENTER	VM	VOLTMETER
MCM	THOUSAND CIRCULAR MILS	VMR	VOLTAGE MONITOR RELAY
MCP	MOTOR CIRCUIT PROTECTOR	VR	VOLTAGE RELAY
MCS	MOLDED CASE SWITCH	W	WATTS
MH	MANHOLE	WP	WEATHER PROOF, NEMA 3R
MIN	MINIMUM, MINUTE	WTP	WATER TREATMENT PLANT
MODEM	MODEM	WWTP	WASTE WATER TREATMENT PLANT
MOV	MOTOR OPERATED VALVE	XFMR	TRANSFORMER
MTR	MOTOR	Z	IMPEDANCE
MUX	MULTIPLEXER	ZS	LIMIT SWITCH
MV	MERCURY VAPOR, MEDIUM VOLTAGE		

FILE: 2406B-ED1.DWG
DATE: Oct 14, 2026

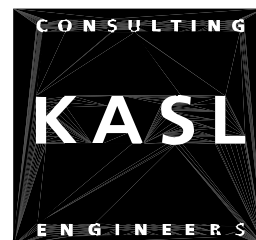
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		A. FRISCH					
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REVIEWED BY:	DATE:	CHECKED BY:					
		M. FRISCH					
		DATE:	Oct 14, 2026	REV.	DATE	DESCRIPTION	APP.

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTH RIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENTS

ELECTRICAL SYMBOLS AND ABBREVIATIONS

BID SET

DATE:	SEPT. 2026
SCALE:	N/A
HORIZ:	N/A
VERT:	N/A
VER:	



FRISCH ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
13405 FOLSOM BLVD, UNIT 600
FOLSOM, CA 95630
PH 916.353.1025
WWW.FRISCHENGINEERING.COM
FILE: 2406B-ED1.DWG
DATE: Oct 14, 2026 TIME: 3:43:05PM



SHEET E1
OF 32 SHEETS 48
PROJECT NUMBER C26WTNWRE



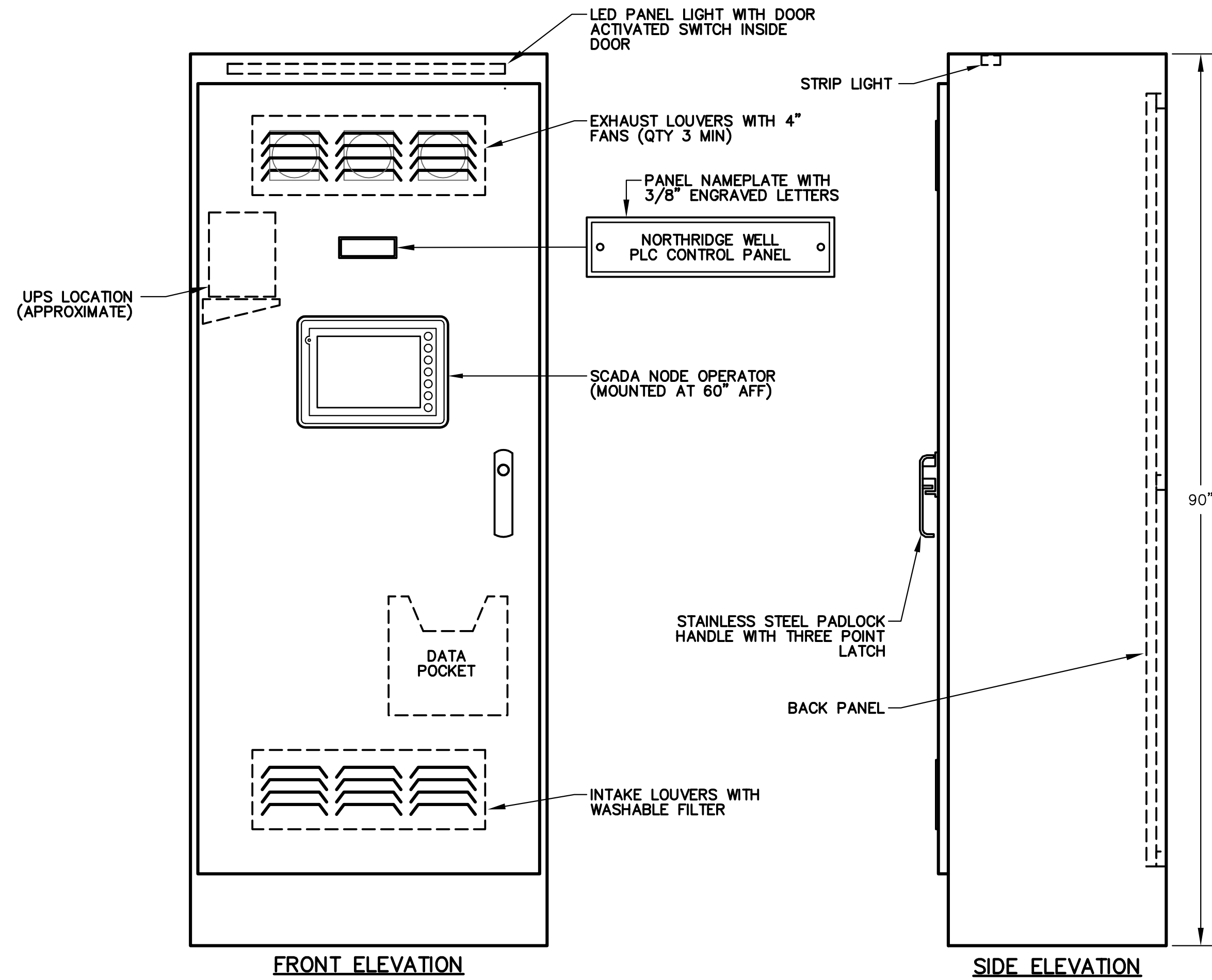
NOTES: 1 MEANS OF WIRE COLOR CODING SHALL BE POSTED ON PANELBOARD PER NEC 210 (4)
2 ASTERISK (*) DENOTES GFI BREAKER REQUIRED WITH 5 MA SENSITIVITY
3 TILDA (~) DENOTES GFI BREAKER REQUIRED WITH 30 MA SENSITIVITY

FILE: 2406B-E03.DWG
DATE: Oct 14, 2026

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENT

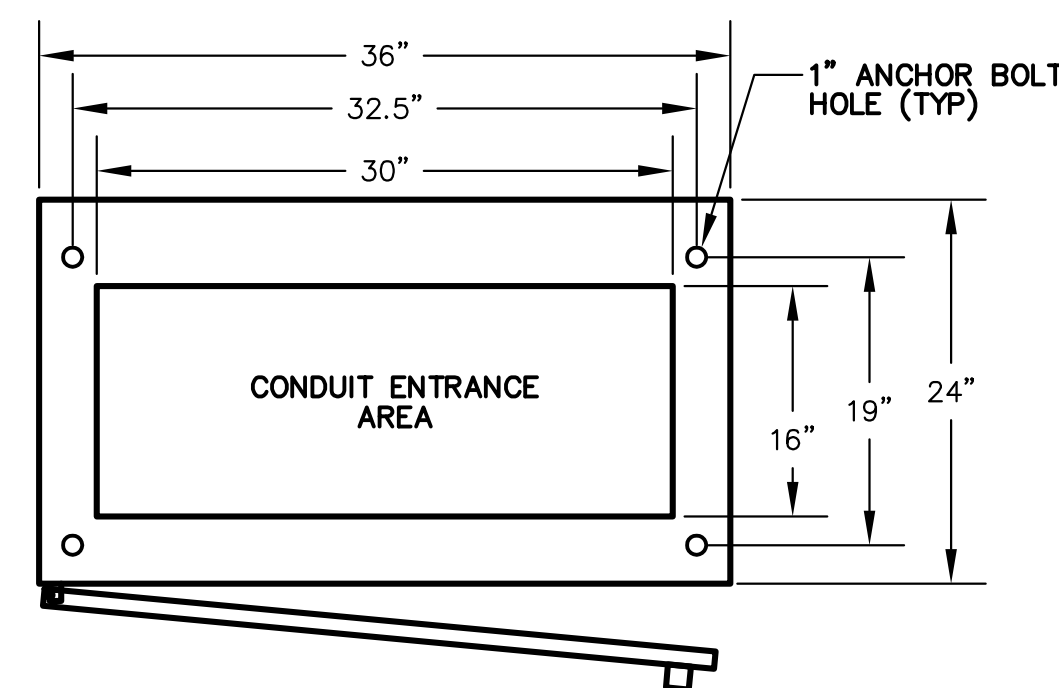
FAIR OAKS
WATER DISTRICT

SHEET **E3**
OF **34** SHEETS **48**
PROJECT NUMBER
C26WTNWRE

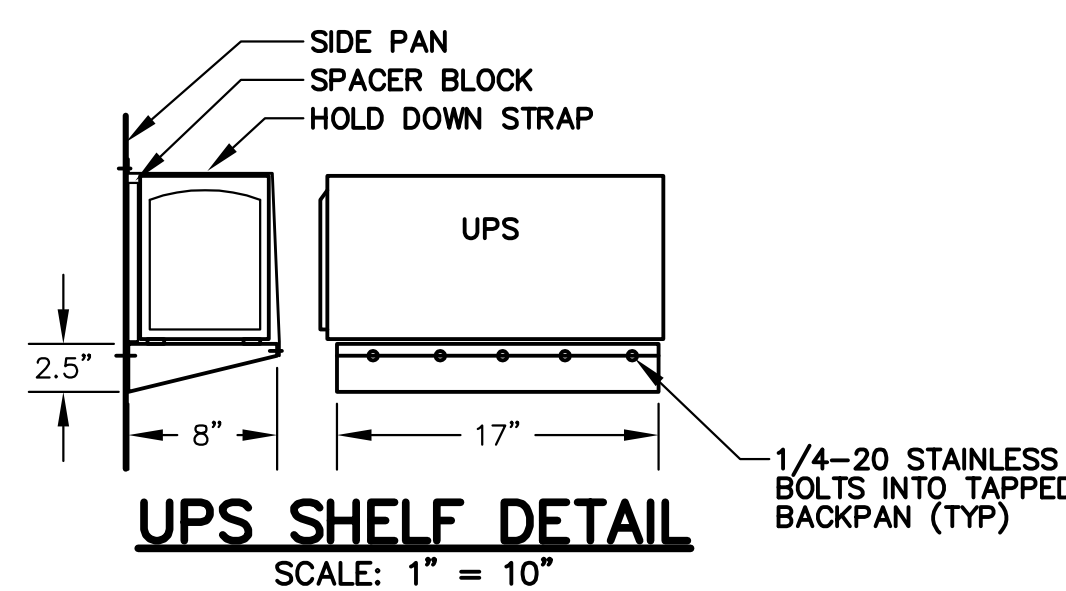


FRONT ELEVATION

ELEVATION (2)
SCALE: 1" = 10"



BASE PLAN



UPS SHELF DETAIL
SCALE: 1" = 10"

DETAIL NOTES:

- DO NOT BLOCK VENTS WITH SPACER BLOCK. USE TWO.
- FABRICATED FROM 14 GA (MIN) PAINTED GALVANEAL OR STAINLESS STEEL SOLID SIDES, TOP, BACK AND FRONT WITH CONTINUOUS WELDED SEAMS.

PEDESTAL FABRICATION METHODS

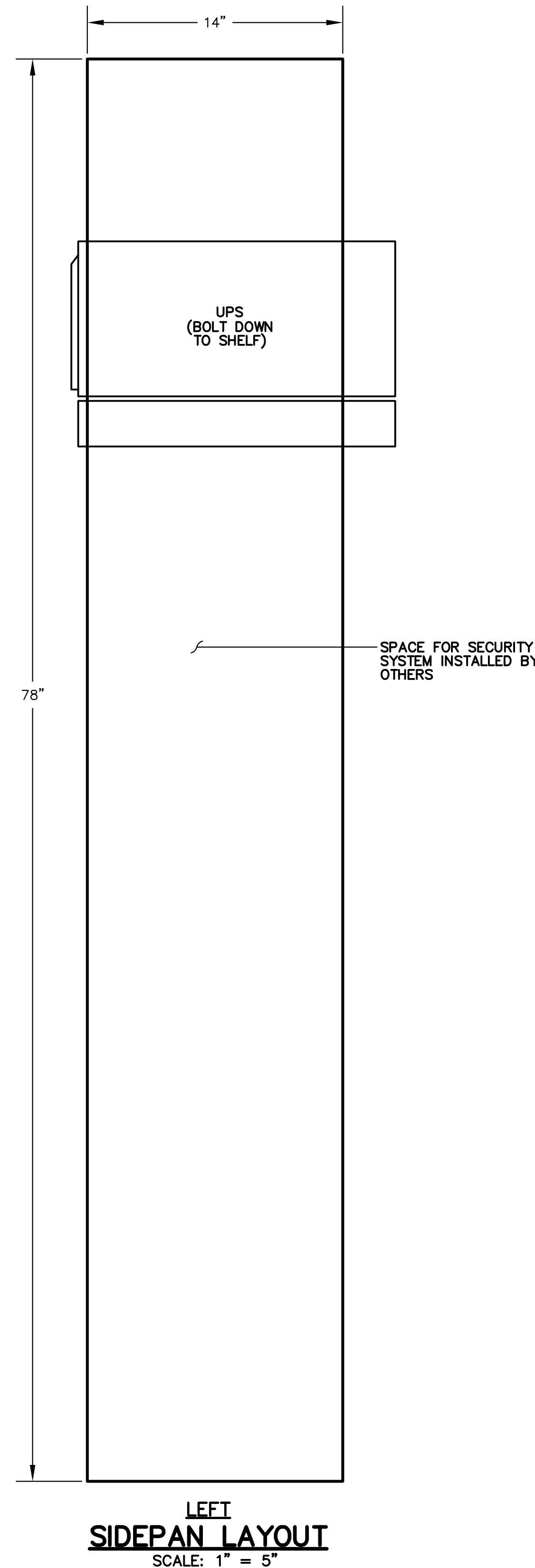
- FREESTANDING, NEMA TYPE 12.
- OUTER DOORS SHALL BE SEALED WITH RUBBERIZED FOAM GASKET.
- EXTERIOR FABRICATED FROM GALVANIZED SHEET STEEL.
- 12 GAUGE EXTERIOR AND 14 GAUGE INTERIOR.
- ALL SEAMS SHALL HAVE CONTINUOUS WELD GROUND SMOOTH.
- OUTER DOORS TO BE PADLOCKABLE WITH HEAVY DUTY 3 POINT LATCHES.
- DOOR HINGES AND PINS SHALL BE 316 STAINLESS STEEL.
- NO SCREWS, RIVETS, OR BOLTS SHALL PROTRUDE EXTERNALLY.
- INTERNAL SCREWS, RIVETS, BOLTS, AND NUTS SHALL BE STAINLESS STEEL.
- POWER METERING SHALL PER USERC AND SERVING UTILITY'S REQUIREMENTS.
- PAINT APPLICATION SHALL BE AS FOLLOWS:
 - TWO STAGE CHEMICAL BATH CLEANING.
 - ELECTROSTATICALLY APPLIED POWDER COAT PAINT FINISH.
 - OVEN CURED FOR TWO HOURS.
 - INTERIOR DEADFRONT DOOR COLOR: WHITE.
 - EXTERIOR COLOR SHALL BE: ANSI 61 GRAY
- PHENOLIC SCREW MOUNTED NAMEPLATES SHALL BE PROVIDED FOR ALL OUTER DOOR SECTIONS AND DEVICES ON DEADFRONT.
- FABRICATION, COMPONENTS, AND WIRING SHALL CONFORM TO UL, NEC AND NEMA STANDARDS. PANEL SHALL BE APPROPRIATELY LABELLED.
- ALL WIRING SHALL BE LABELLED ON BOTH ENDS OF WIRE.
- AS-BUILT WIRING DIAGRAMS SHALL BE SHIPPED WITH PANEL.
- PROVIDE DRAWING POCKET ON INSIDE OF CONTROL PANEL DOOR.

GENERAL NOTES:

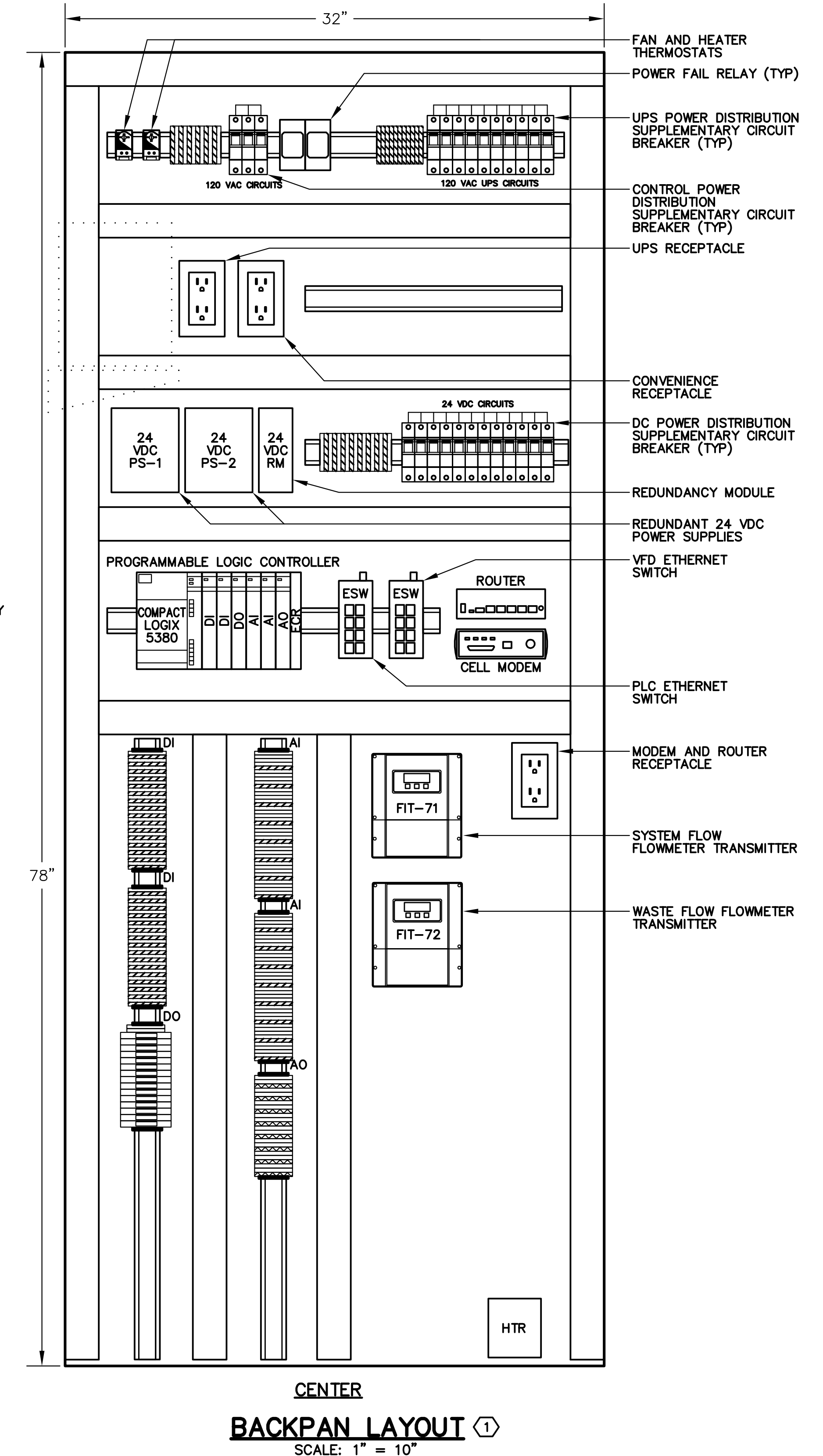
- REPRESENTATIVE OF MAJOR COMPONENTS ONLY. ACTUAL BACKPAN LAYOUT SHALL BE SIMILAR TO LAYOUT SHOWN. SUBMIT SCALED BACKPAN LAYOUT FOR REVIEW BY ENGINEER.
- QUANTITY OF TERMINAL BLOCKS AND RELAYS SHALL BE AS DETERMINED BY P&IDS AND EXAMPLE I/O WIRING DIAGRAM

LAYOUT REFERENCED NOTES:

- WIRE I/O TO TERMINAL BLOCK PER EXAMPLE I/O WIRING DIAGRAMS.
- CONTROL ENCLOSURE SHALL BE FREESTANDING STEEL WITH POWDERCOAT FINISH. PROVIDE SAGINAW MODEL NUMBER SCE 903620FS OR EQUAL. PROVIDE PADLOCKABLE 3-POINT DOOR LATCH, SWINGOUT PANEL, BACKPAN, DRIP SHIELD AND ANY OTHER PARTS TO COMPLETE PANEL.

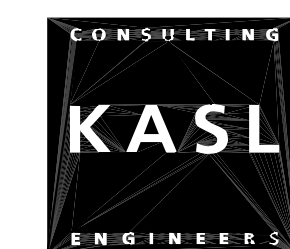


LEFT
SIDEPAN LAYOUT
SCALE: 1" = 5"



CENTER
BACKPAN LAYOUT (1)
SCALE: 1" = 10"

BID SET



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FILE: 2406B-E05.DWG
DATE: Oct 14, 2026 TIME: 3:43:42PM

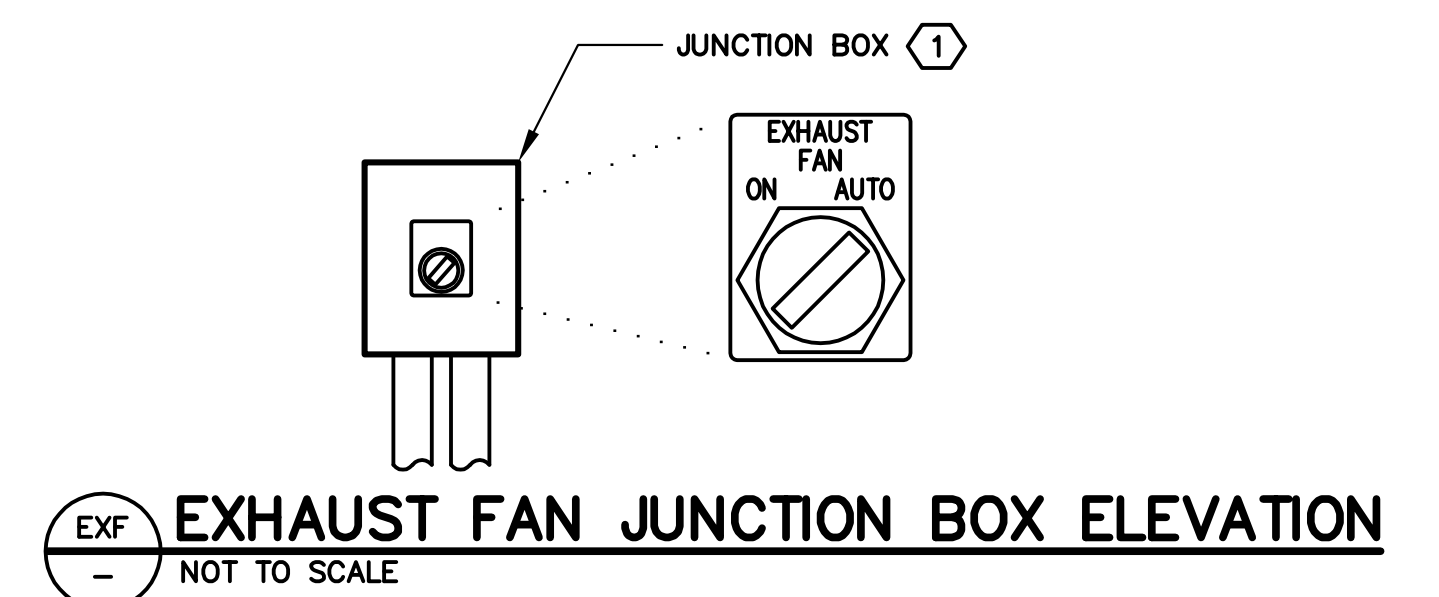
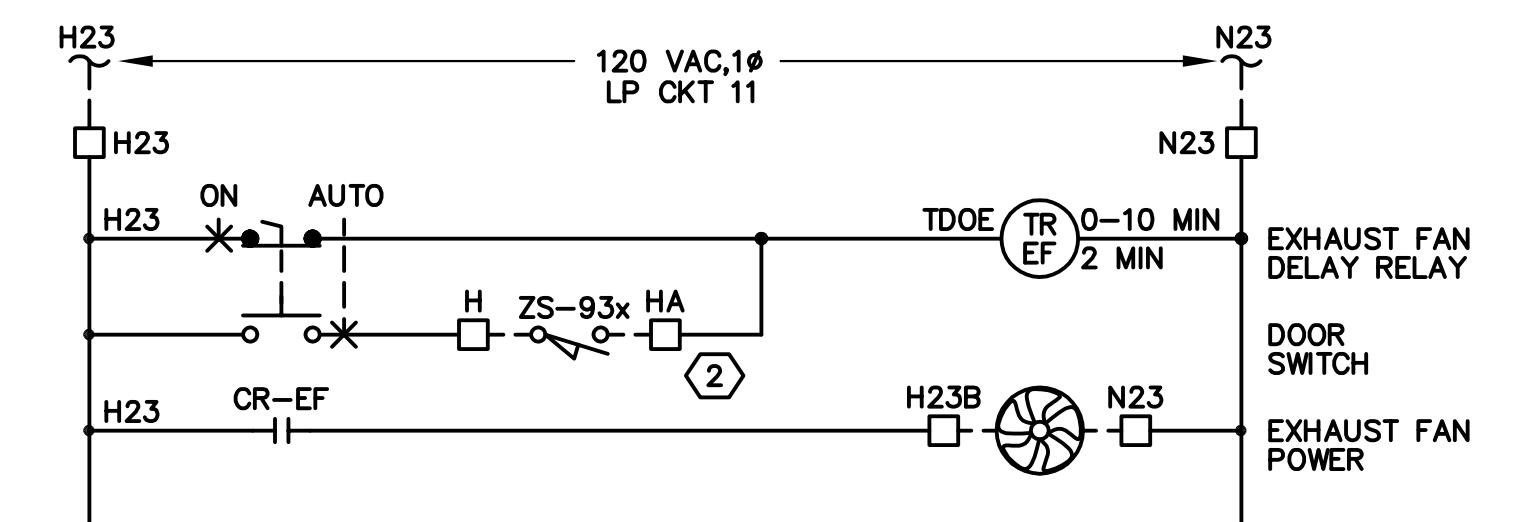
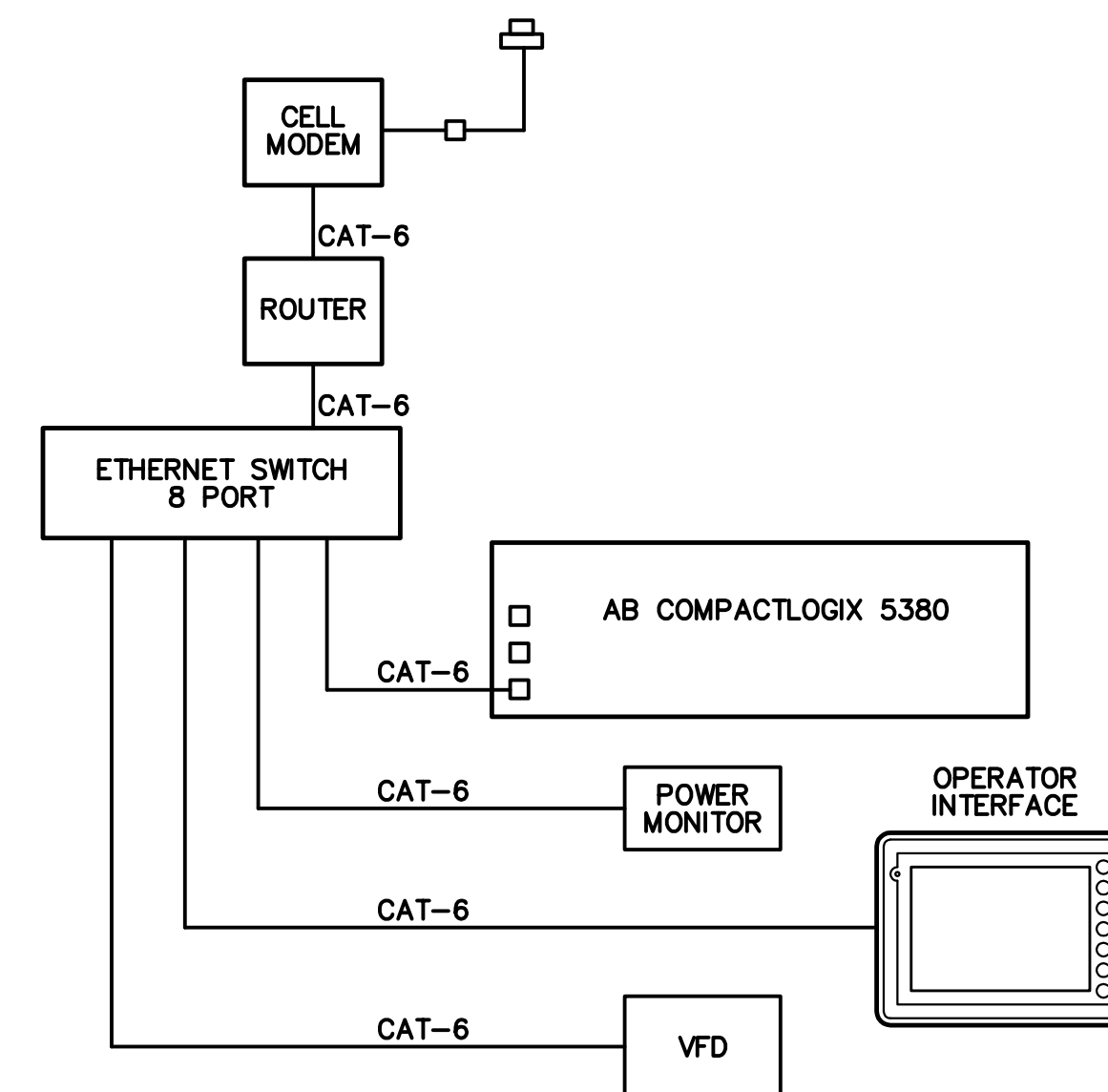
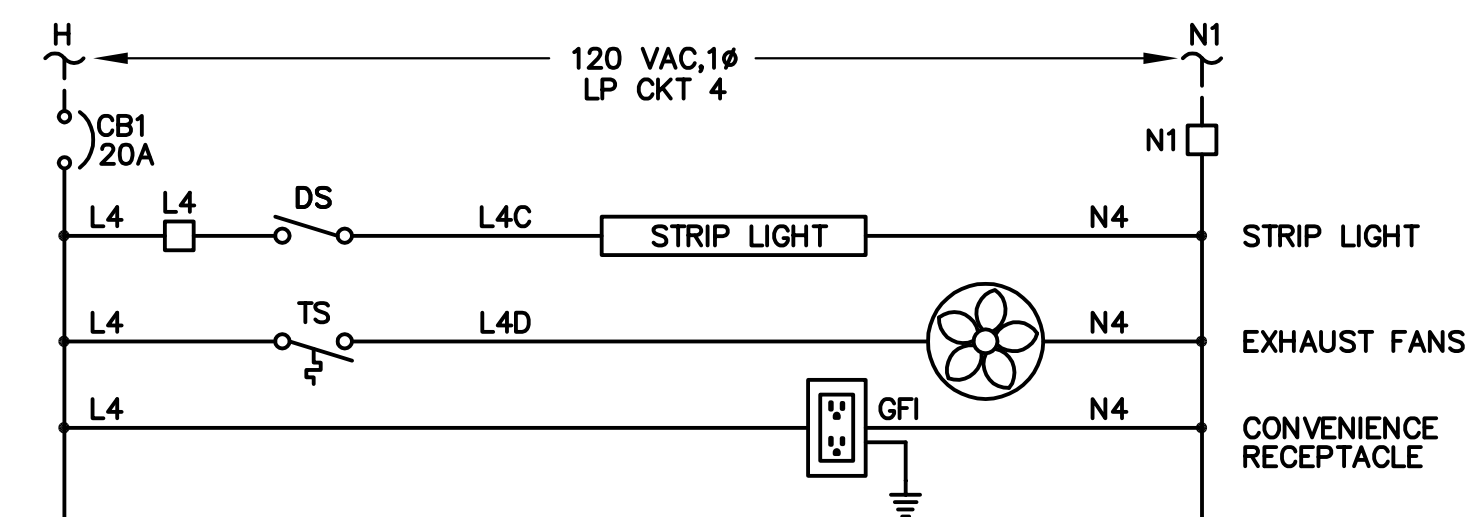
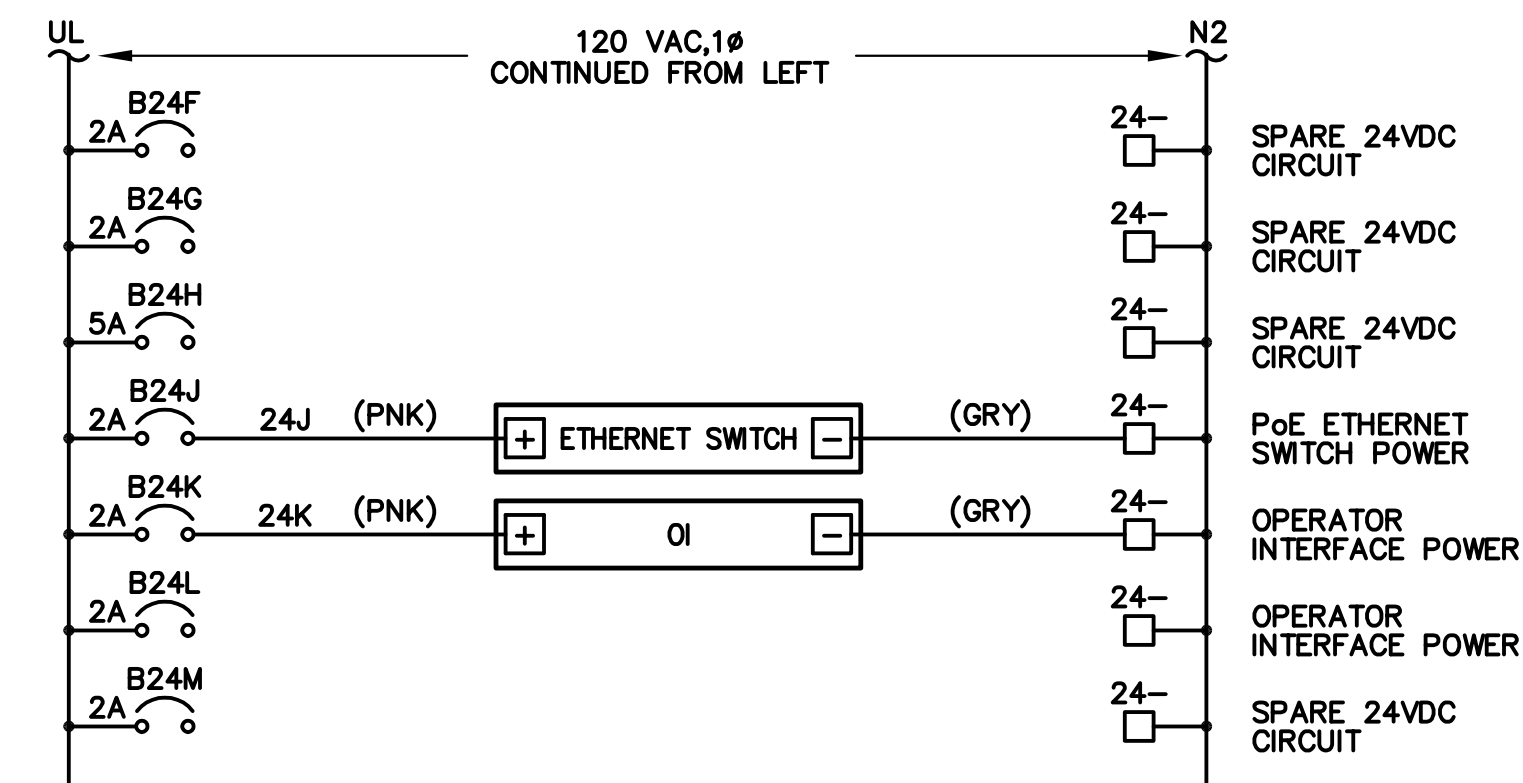
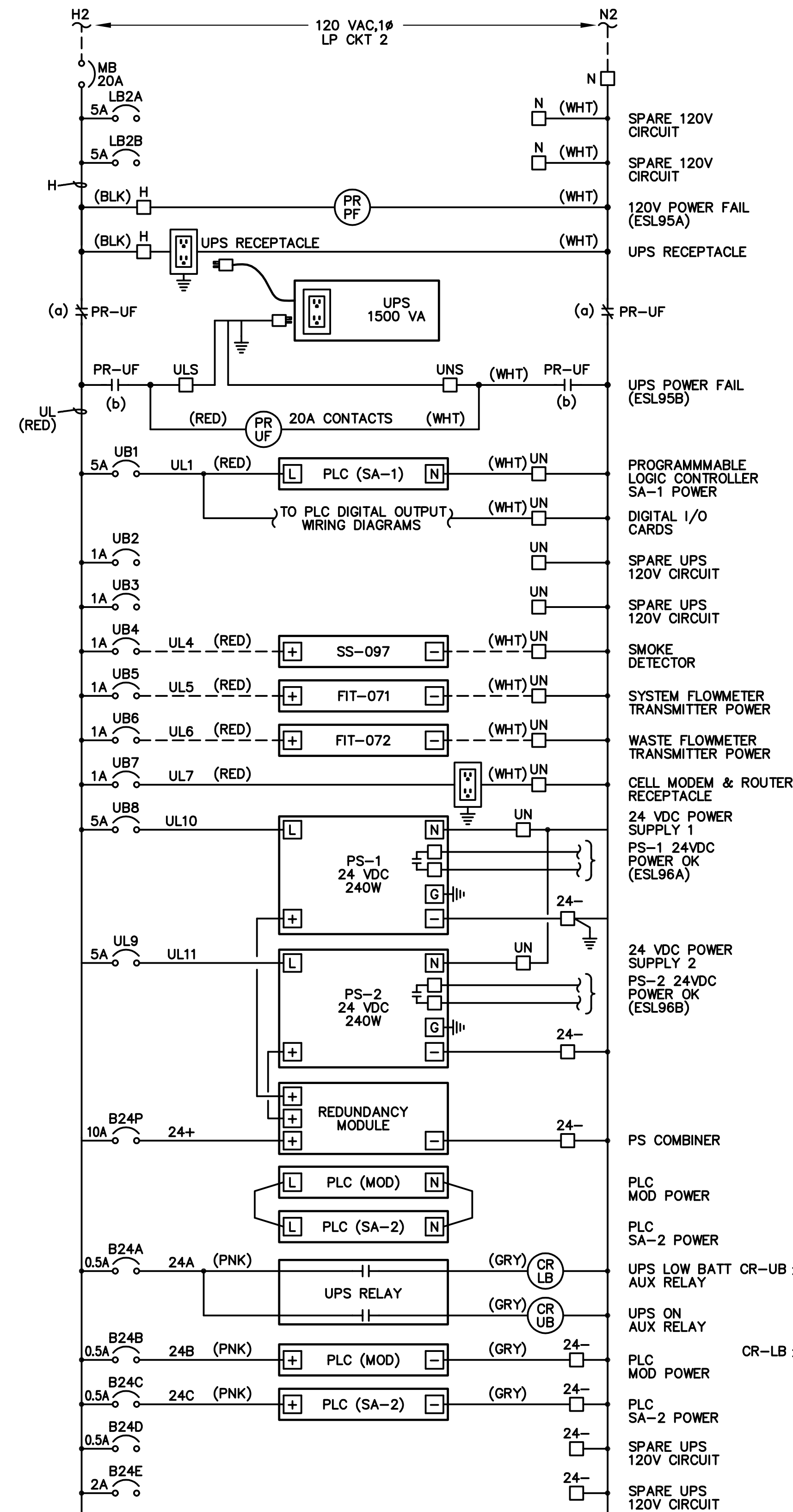


SHEET **E5**
OF **36** SHEETS **48**
PROJECT NUMBER
C26WTNWRE

REVIEWED BY:	DATE:	DESIGNED BY:				
		A. FRISCH				
REVIEWED BY:	DATE:	DRAWN BY:				
		T. FRISCH				
REVIEWED BY:	DATE:	CHECKED BY:				
		M. FRISCH				
	DATE:	Oct 14, 2026	REV.	DATE	DESCRIPTION	APP.

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHTRIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENTS
PLC CONTROL PANEL ELEVATION

DATE: SEPT. 2026
SCALE: N/A
HORIZ: N/A
VERT: N/A
VER:



NOTES: ① JUNCTION BOX SHALL BE NEMA 4X PVC, HINGED SOLID DOOR, 10" X 8" X 6", HOFFMAN CHSCFG OR EQUAL.

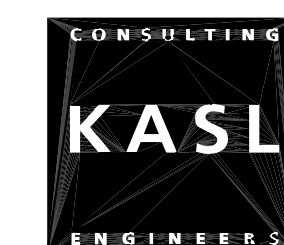
② SWITCH CLOSSES ON OPEN DOOR.

REVIEWED BY:	DATE:	DESIGNED BY: A. FRISCH				
REVIEWED BY:	DATE:	DRAWN BY: T. FRISCH				
REVIEWED BY:	DATE:	CHECKED BY: M. FRISCH				
		DATE: Oct 14, 2026	REV.	DATE	DESCRIPTION	APP.

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENTS

PLC CONTROL PANEL POWER SCHEMATIC

BID SET



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SHEET **E6**
OF **37** SHEETS **48**
PROJECT NUMBER
C26WTNWRE

DATE: SEPT 2026
SCALE: _____
HORIZ: N/A
VERT: N/A
VER: _____



SHEET **E8**
OF **39** SHEETS **48**
PROJECT NUMBER
C26WTNWRE

NOTES:

1. WIRE SPARE PLC I/O POINTS TO TERMINAL BLOCKS.
2. EXAMPLE I/O POINTS SHOWN. THIS DRAWING INTENDED TO SHOW I/O WIRING ONLY.
3. I/O TYPE AND NUMBER OF POINTS AND CARDS REQUIRED IS DETERMINED BY P&ID DRAWINGS.
4. MINIMUM 20% SPARE I/O POINTS PER I/O TYPE.
5. INTERNAL PANEL PLC I/O CARD WIRE NUMBERS SHALL BE BUILT AS SHOWN IN EXAMPLE BELOW.

A101

RACK LETTER
SLOT NUMBER
INPUT NUMBER

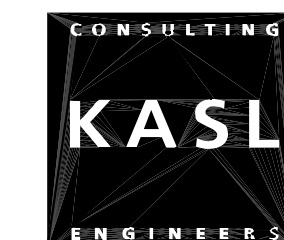
6. FIELD WIRES SHALL BE LABELED WITH ACRONYM OF CONTROL PANEL ID (NOT SHOWN) AND DEVICE. SEE EXAMPLES.

DATE:	<u>SEPT 2026</u>
SCALE:	
HORIZ:	<u>N/A</u>
VERT:	<u>N/A</u>
VER:	



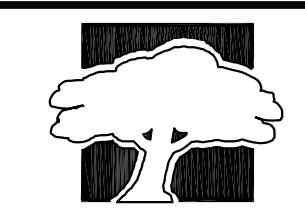
- ① GROUND ENHANCEMENT MATERIAL SHALL BE ERICO GROUND ENHANCEMENT MATERIAL (GEM), LYNCOLE XIT, OR EQUAL. INSTALL IN SLURRY FORM SURROUNDING GROUNDING WIRE COMPLETELY WITH APPROXIMATELY 1" MATERIAL ON ALL SIDES OF CONDUCTOR.
- ② SECURITY CAMERAS TO BE INSTALL BY OTHERS.

BID SET



 **FRISCH**
ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
13405 FOLSOM BLVD, UNIT 600
FOLSOM, CA 95630
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FILE: 24068-E09.DWG
DATE: OCT 14, 2026 TIME: 3:44:38PM



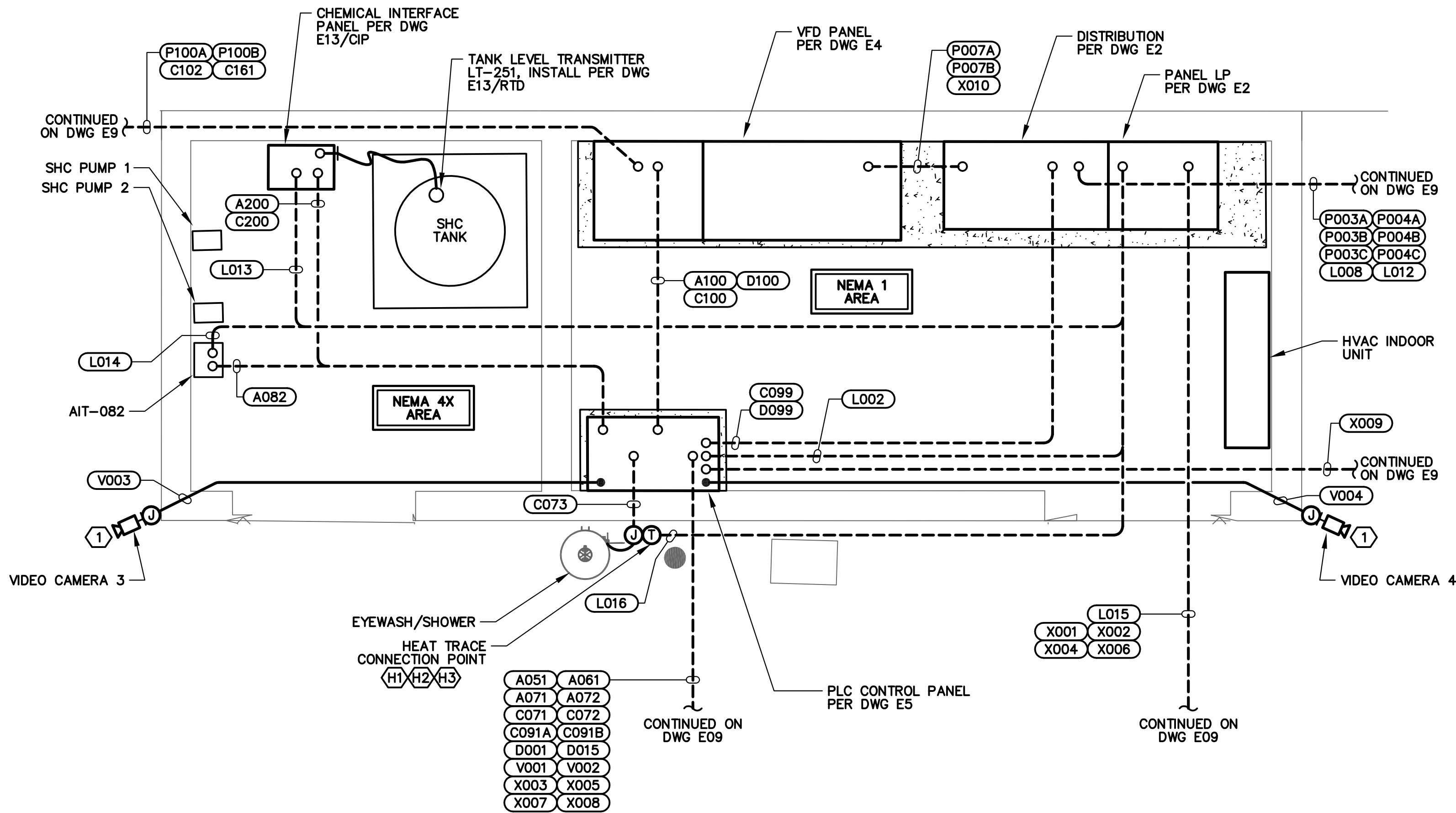
SHEET **E9**
OF **40** SHEETS **48**
PROJECT NUMBER
C26WTNWRE

REVIEWED BY:	DATE:	DESIGNED BY: A. FRISCH				
REVIEWED BY:	DATE:	DRAWN BY: T. FRISCH				
REVIEWED BY:	DATE:	CHECKED BY: M. FRISCH				
		DATE: Oct 14, 2026	REV.	DATE	DESCRIPTION	APP.

FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENTS

ELECTRICAL SITE PLAN

DATE:	<u>SEPT 2026</u>
SCALE:	
HORIZ:	<u>N/A</u>
VERT:	<u>N/A</u>
VER:	



BUILDING POWER AND CONTROL PLAN

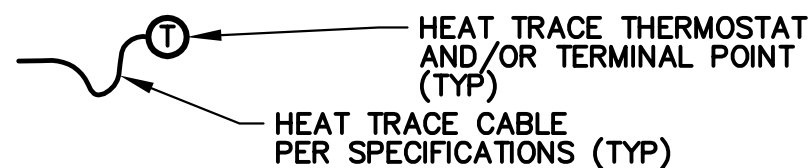
SCALE: 1/2" = 1'

DRAWING REFERENCED NOTES:

- 1 SECURITY CAMERAS TO BE INSTALL BY OTHERS.

HEAT TRACE SYSTEM NOTES:

- (H1) WRAP PIPE SUCH THAT LENGTH OF HEAT TRACE CABLE IS APPROXIMATELY 2-3 TIMES THE LENGTH OF THE HEATED PIPE OR EQUIPMENT.
(H2) TRANSITION TO HEAT TRACE AT SPLICE BOXES OR THERMOSTATS (DENOTED WITH T CIRCLE).
(H3) HEAT TRACE CABLE SHALL BE 5W/FT AND MEET SPECIFICATIONS.



ELECTRICAL PLAN NOTES:

- SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
- ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
- SITEPLAN ACCURATE FOR ELECTRICAL WORK ONLY. COORDINATE WITH OTHER DISCIPLINES.
- CONFIRM HOOKUP REQUIREMENTS FOR ELECTRICAL AND MECHANICAL EQUIPMENT PRIOR TO INSTALLING UNDERGROUND CONDUIT AND STUB-UPS. MISSING CONDUITS, INCORRECT SIZING, OR OTHER ISSUES MUST BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO BACKFILL.
- CONDUIT ROUTING IS SHOWN GENERALLY DIAGRAMMATIC AND DOES NOT INDICATE TRENCH WIDTH OR TRENCH LAYOUT. FOR CONDUITS OUTSIDE BUILDINGS, IF CONTRACTOR WANTS TO RUN CONDUITS IN ROUTES OTHER THAN THOSE SHOWN FOR ANY REASON, THEN HE SHALL SUBMIT THE PLAN FOR APPROVAL PRIOR TO INSTALLATION. SPECIFY REASON FOR CHANGE.
- INSTALL NON-UTILITY CONDUITS PER DRAWING DETAILS AND SPECIFICATIONS SECTION 16110.
- CONDUITS SIZE, TYPE AND FILL DEFINED BY TAG NAME IN CONDUIT AND WRE ROUTING SCHEDULE.
- INSTALL UNDERGROUND NON-DUCTBANK CONDUITS PER ELECTRICAL DETAIL LVC.
- CONDUIT TRANSITIONS SHALL BE PER EXPOSED CONDUIT TRANSITION DETAIL ECT.
- EXPOSED CONDUIT TYPE AND FITTINGS TO BE USED ABOVE TRANSITION SHALL BE PER AREA CLASSIFICATION DEFINED IN CONDUIT SPECIFICATIONS AND EQUIPMENT SPECIFIC DETAIL.
- REPAIR SURFACE TO PREVIOUS CONDITION FOR ALL UNDERGROUND CONDUIT ROUTES. GROUT, CAULK, AND PAINT ANY PENETRATIONS INTO STRUCTURES FOR WATERTIGHT SEAL.
- USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.

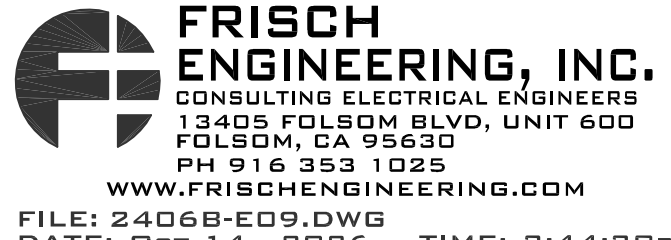
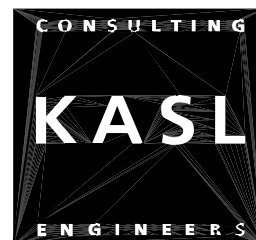
CONDUIT & WIRE ROUTING SCHEDULE

CONDUIT DETAILS							POWER WIRE		CONTROL WIRE		GROUND	NOTES
REV	TAG NO.	FROM	TO	QTY	SIZE	TYPE	QTY	SIZE	QTY	SIZE	SIZE	
	A051	PLC CONTROL PANEL	WELL LEVEL TRANSMITTER LT-051	1	3/4"	SPEC	-	-	1	#18 TSPR	#12	
	A061	PLC CONTROL PANEL	PRESSURE TRANSMITTER PIT-061	1	3/4"	SPEC	-	-	1	#18 TSPR	-	
	A071	PLC CONTROL PANEL	SYSTEM FLOWMETER FIT-071	1	1"	SPEC	-	-	1	MFG CABLE	#12	
	A072	PLC CONTROL PANEL	WASTE FLOWMETER FIT-072	1	1"	SPEC	-	-	1	MFG CABLE	#12	
	A082	PLC CONTROL PANEL	CHEMICAL ANALYZER AIT-082	1	3/4"	SPEC	-	-	1	#18 TSPR	-	
	A083	PLC CONTROL PANEL	ELECTRICAL ROOM TEMP TIT-082	1	3/4"	SPEC	-	-	1	#18 TSPR	-	
	A100	PLC CONTROL PANEL	PUMP CONTROL PANEL	1	1"	SPEC	-	-	3	#18 TSPR	-	
	A200	PLC CONTROL PANEL	CHEMICAL INTERFACE PANEL	1	1"	SPEC	-	-	3	#18 TSPR	#12	LT-251, CHEMICAL PUMPS
	C009	HVAC OUTDOOR UNIT	HVAC INDOOR UNIT	1	3/4"	SPEC	-	-	1	MFG CABLE	-	
	C071	PLC CONTROL PANEL	FLOWMETER FIT-071	1	1"	SPEC	-	-	-	-	-	STUB AND CAP
	C072	PLC CONTROL PANEL	FLOWMETER FIT-072	1	1"	SPEC	-	-	-	-	-	STUB AND CAP
	C073	PLC CONTROL PANEL	FLOW SWITCH FS-073	1	3/4"	SPEC	-	-	2	#14	#14	
	C091A	PLC CONTROL PANEL	WEST GATE INTRUSION ZS-091A	1	3/4"	SPEC	-	-	2	#14	#14	
	C091B	PLC CONTROL PANEL	EAST GATE INTRUSION ZS-091B	1	3/4"	SPEC	-	-	2	#14	#14	
	C092A	PLC CONTROL PANEL	ELECTRICAL ROOM INTRUSION ZS-092A	1	3/4"	SPEC	-	-	2	#14	#14	
	C092B	PLC CONTROL PANEL	CHEMICAL ROOM INTRUSION ZS-092B	1	3/4"	SPEC	-	-	2	#14	#14	
	C097	PLC CONTROL PANEL	SMOKE DETECTOR SS-097	1	3/4"	SPEC	-	-	6	#14	#14	
	C099	PLC CONTROL PANEL	POWER MONITOR PANEL	1	3/4"	SPEC	-	-	2	#14	#14	
	C100	PLC CONTROL PANEL	PUMP CONTROL PANEL	1	1"	SPEC	-	-	20	#14	#14	
	C102	PUMP CONTROL PANEL	PUMP CONTROL VALVE V102	1	1"	SPEC	-	-	10	#14	#14	
	C161	PUMP CONTROL PANEL	HIGH PRESSURE SWITCH PSH-161	1	3/4"	SPEC	-	-	2	#14	#14	
	C200	PLC CONTROL PANEL	CHEMICAL INTERFACE PANEL	1	1"	SPEC	-	-	12	#14	#14	CHEMICAL PUMPS
	C210	CHEMICAL INTERFACE PANEL	CHEMICAL PUMP RECEPTACLE	1	3/4"	SPEC	-	-	6	#12	#12	
	C220	CHEMICAL PUMP RECEPTACLE	CHEMICAL PUMP RECEPTACLE	1	3/4"	SPEC	-	-	3	#12	#12	
	D001	TELCO UTILITY	PLC CONTROL PANEL	1	1"	SPEC	-	-	-	-	-	PER UTILITY REQUIREMENTS
	D015	PLC CONTROL PANEL	AREA LIGHT POLE	1	3/4"	SPEC	-	-	-	-	-	
	D099	PLC CONTROL PANEL	POWER MONITOR PANEL	1	1"	SPEC	-	-	1	CAT 6	-	
	D100	PLC CONTROL PANEL	PUMP CONTROL PANEL	1	1"	SPEC	-	-	1	CAT 6	-	
	P001A,B	UTILITY SERVICE	UTILITY TRANSFORMER	2	4"	SPEC	-	-	-	-	-	PER UTILITY REQUIREMENTS
	P002A~C	UTILITY TRANSFORMER	METER/MAIN SWITCHBOARD	3	3"	SPEC	4	#300	-	-	#1/0	PER UTILITY REQUIREMENTS
	P003A~C	METER/MAIN SWITCHBOARD	POWER DISTRIBUTION SECTION	3	3"	SPEC	4	#300	-	-	#1/0	
	P004A	GENERATOR CONNECTION	POWER DISTRIBUTION SECTION	1	4"	SPEC	4	#600	-	-	#1/0	
	P004B~C	GENERATOR CONNECTION AREA	POWER DISTRIBUTION SECTION	2	4"	SPEC	-	-	-	-	-	
	P005	POWER DISTRIBUTION SECTION	POWER MONITOR PANEL	1	3/4"	SPEC	8	#12	-	-	#12	
	P007	POWER DISTRIBUTION SECTION	PUMP CONTROL PANEL	2	3"	SPEC	2	#350	-	-	#2/0	
	P100A,B	PUMP CONTROL PANEL	WELL PUMP P100	2	3"	SPEC	3	#250	-	-	#2/0	
	L002	PANEL LP	PLC CONTROL PANEL	1	3/4"	SPEC	4	#12	-	-	#12	CKT #2,#4
	L011	PANEL LP	EXHAUST FAN CONTROL PANEL	1	3/4"	SPEC	2	#12	-	-	#12	CKT #11
	L011A	EXHAUST FAN CONTROL PANEL	EXHAUST FAN EF-1	1	3/4"	SPEC	2	#12	-	-	#12	CKT #11
	L012	PANEL LP	GENERATOR CONNECTION	1	3/4"	SPEC	2	#12	-	-	#12	CKT #12
	L013	PANEL LP	CHEMICAL INTERFACE PANEL	1	3/4"	SPEC	2	#12	-	-	#12	CKT #13
	L014	PANEL LP	CHEMICAL ANALYZER AIT-082	1	3/4"	SPEC	2	#12	-	-	#12	CKT #14
	L015	PANEL LP	AREA LIGHT POLE	1	3/4"	SPEC	4	#12	-	-	#12	CKT #15
	L016	PANEL LP	EYE WASH HEAT TRACE	1	3/4"	SPEC	2	#12	-	-	#12	CKT #16
	L017	PANEL LP	HVAC OUTDOOR UNIT	1	3/4"	SPEC	2	#10	-	-	#12	CKT #9, VIA DISC
	L021	PANEL LP	HVAC INDOOR UNIT	1	3/4"	SPEC	2	#12	-	-	#12	CKT #21
	V001	PLC CONTROL PANEL	VIDEO CAMERA 1	1	3/4"	SPEC	-	-	-	-	-	
	V002	PLC CONTROL PANEL	VIDEO CAMERA 2	1	3/4"	SPEC	-	-	-	-	-	
	V003	PLC CONTROL PANEL	VIDEO CAMERA 3	1	3/4"	SPEC	-	-	-	-	-	
	V004	PLC CONTROL PANEL	VIDEO CAMERA 4	1	3/4"	SPEC	-	-	-	-	-	
	X001	PANEL LP	PIPE AREA	1	3/4"	SPEC	-	-	-	-	-	PULL ROPE
	X002	PANEL LP	WEST GATE	1	3/4"	SPEC	-	-	-	-	-	PULL ROPE
	X003	PLC CONTROL PANEL	WEST GATE	1	3/4"	SPEC	-	-	-	-	-	PULL ROPE
	X004	PANEL LP	WEST GATE	1	3/4"	SPEC	-	-	-	-	-	PULL ROPE
	X005	PLC CONTROL PANEL	WEST GATE	1	3/4"	SPEC	-	-	-	-	-	PULL ROPE
	X006	PANEL LP	EAST GATE	1	3/4"	SPEC	-	-	-	-	-	PULL ROPE
	X007	PLC CONTROL PANEL	EAST GATE	1	3/4"	SPEC	-	-	-	-	-	PULL ROPE
	X008	PLC CONTROL PANEL	WELL PUMP CONNECTION PANEL	1	3/4"	SPEC	-	-	-	-	-	PULL ROPE
	X009	PLC CONTROL PANEL	GENERATOR CONNECTION	1	3/4"	SPEC	-	-	-	-	-	PULL ROPE
	X010	PLC CONTROL PANEL	EAST GATE TELECON STUB	1	1"	SPEC	-	-	-	-	-	PULL ROPE

NOTES PERTAINING TO CONDUIT SCHEDULE:

- CONDUIT TYPE "SPEC" IS AS DEFINED IN SPECIFICATIONS SECTION [CONDUIT AND BOXES] FOR NON-EXPOSED AND EXPOSED PORTIONS OF CONDUIT RUN.
- SEE SPECIFICATIONS AND EXPOSED TRANSITION DETAIL OR EQUIPMENT SPECIFIC DETAIL FOR CONDUIT TRANSITION MATERIALS AND METHODS FROM BELOW GROUND TO EXPOSED PORTIONS OF RUN.
- CONDUITS OVER 15 FT LENGTH (EITHER EMPTY OR WITH CONDUCTORS SIZED LESS THAN #8 AWG), SHALL INCLUDE A POLY PULL STRING. STRING SHALL BE TIED OFF AT EACH END.
- FITTINGS, CONDULETS, BOXES AND COVERS SHALL MATCH DUTY OF ADJACENT PIPE, SEE SPECIFICATIONS [CONDUIT AND BOXES].
- WIRE SIZING IN TABLE IS BASED ON COPPER CONDUCTORS, 75°C RATING, THHN INSULATION, WITH TYPE C STRANDING. OTHER CONDUCTORS OR TYPES, IF ALLOWED OR REQUIRED PER SPECIFICATION, MAY REQUIRE CONDUITS TO BE UPSIZED BY CONTRACTOR AND SUBMITTED FOR APPROVAL.
- SEE GENERAL NOTES ON LIGHTING AND RECEPTACLE PLAN FOR CONDUIT REQUIREMENTS FOR ELECTRICAL DEVICES WITHOUT CONDUITS SHOWN, CONDUIT NUMBERS, OR NOT LISTED IN SCHEDULE.
- CONDUIT LABELING CONVENTION IS AS FOLLOWS: A- ANALOG, C- CONTROL, D- COMM, L- PANELBOARD, P- POWER, S- SECURITY, T- MEDIUM VOLTAGE, V- VIDEO, X- SPARE.

BID SET



SHEET E10

OF 41 SHEETS 48

PROJECT NUMBER C26WTNWRE

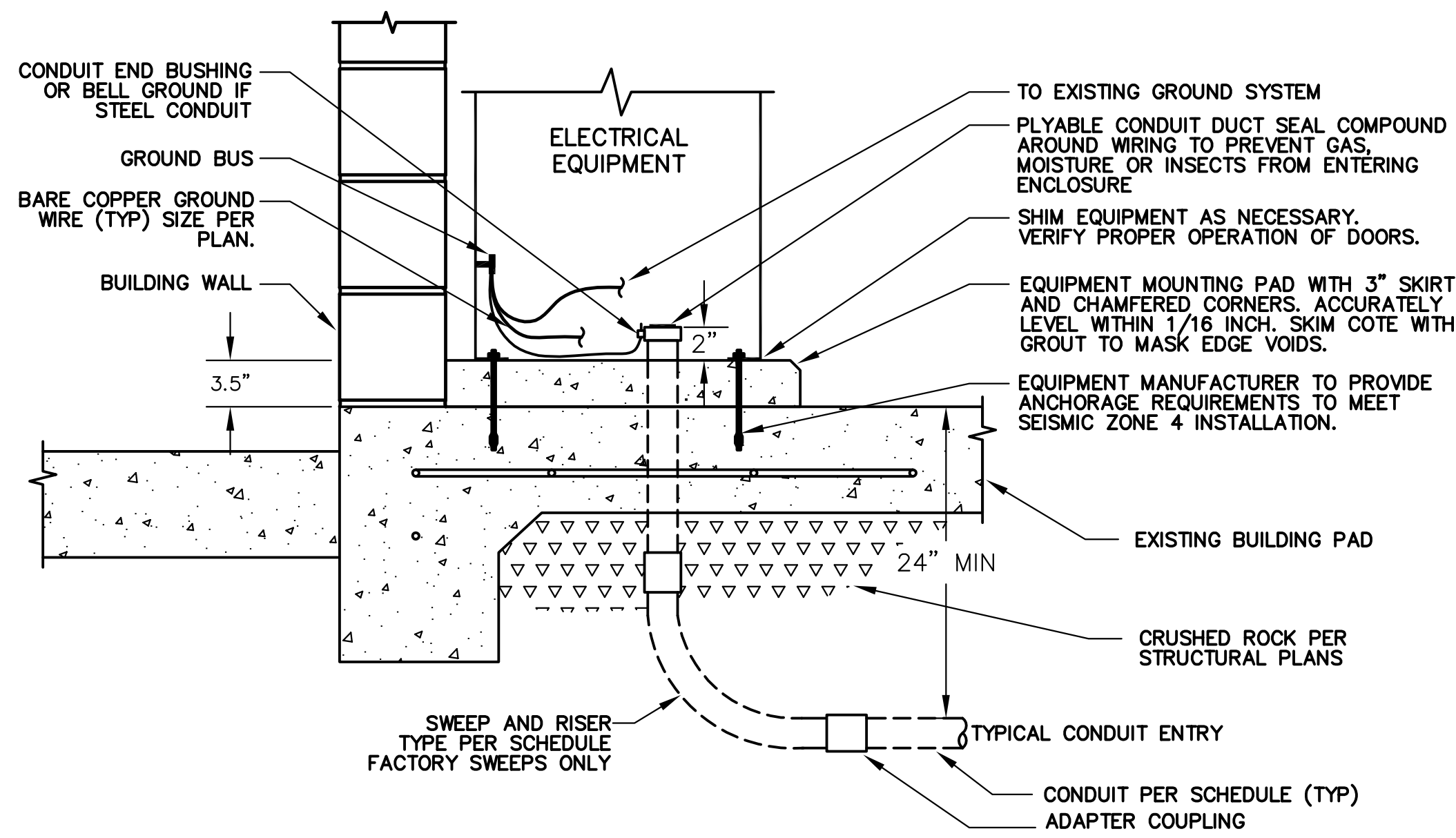
FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723

NORTHridge WELL #15 EQUIPPING AND SITE IMPROVEMENTS

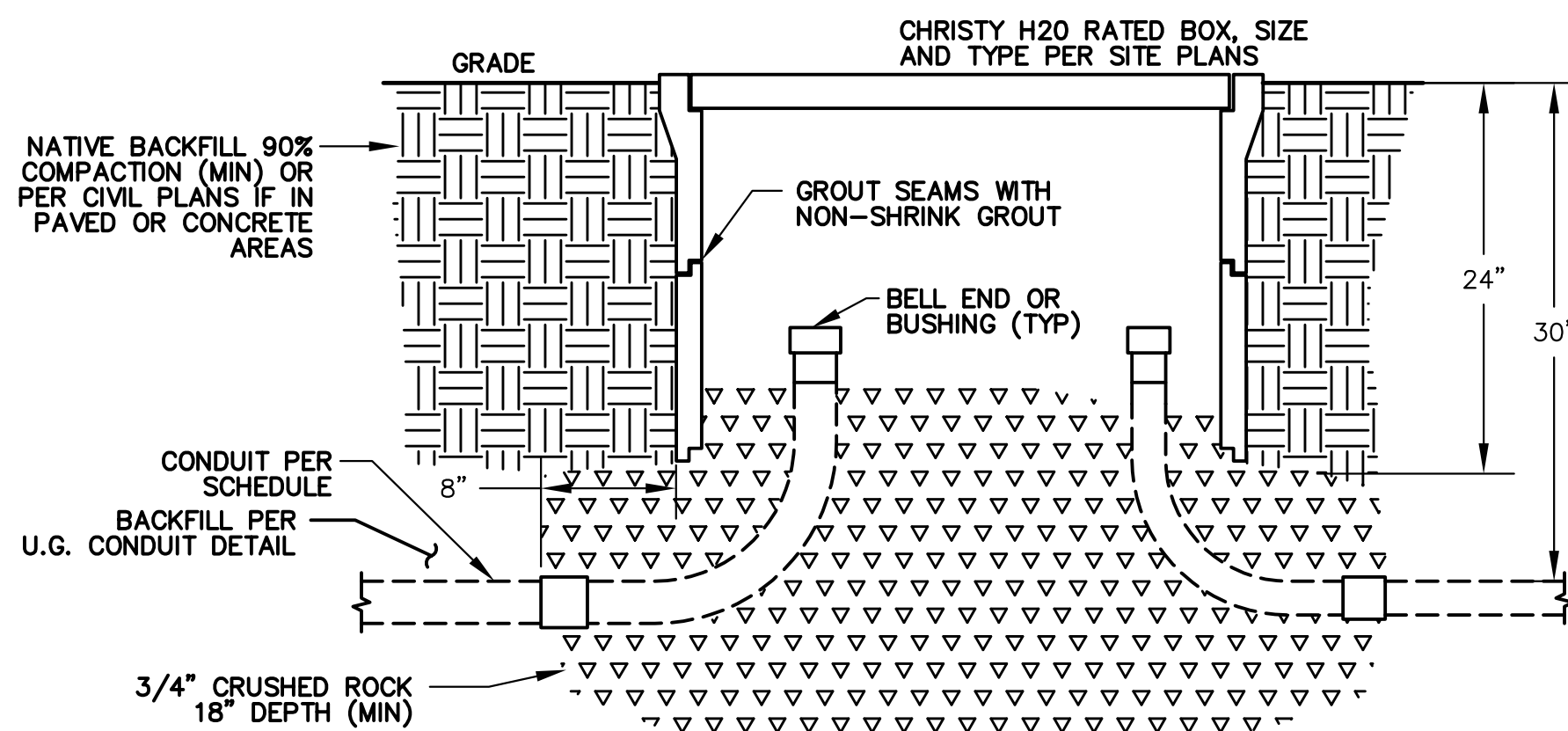
BUILDING ELECTRICAL PLAN & CONDUIT SCHEDULE

DATE: SEPT 2026
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HORIZ: N/A
VERT: N/A
VER:

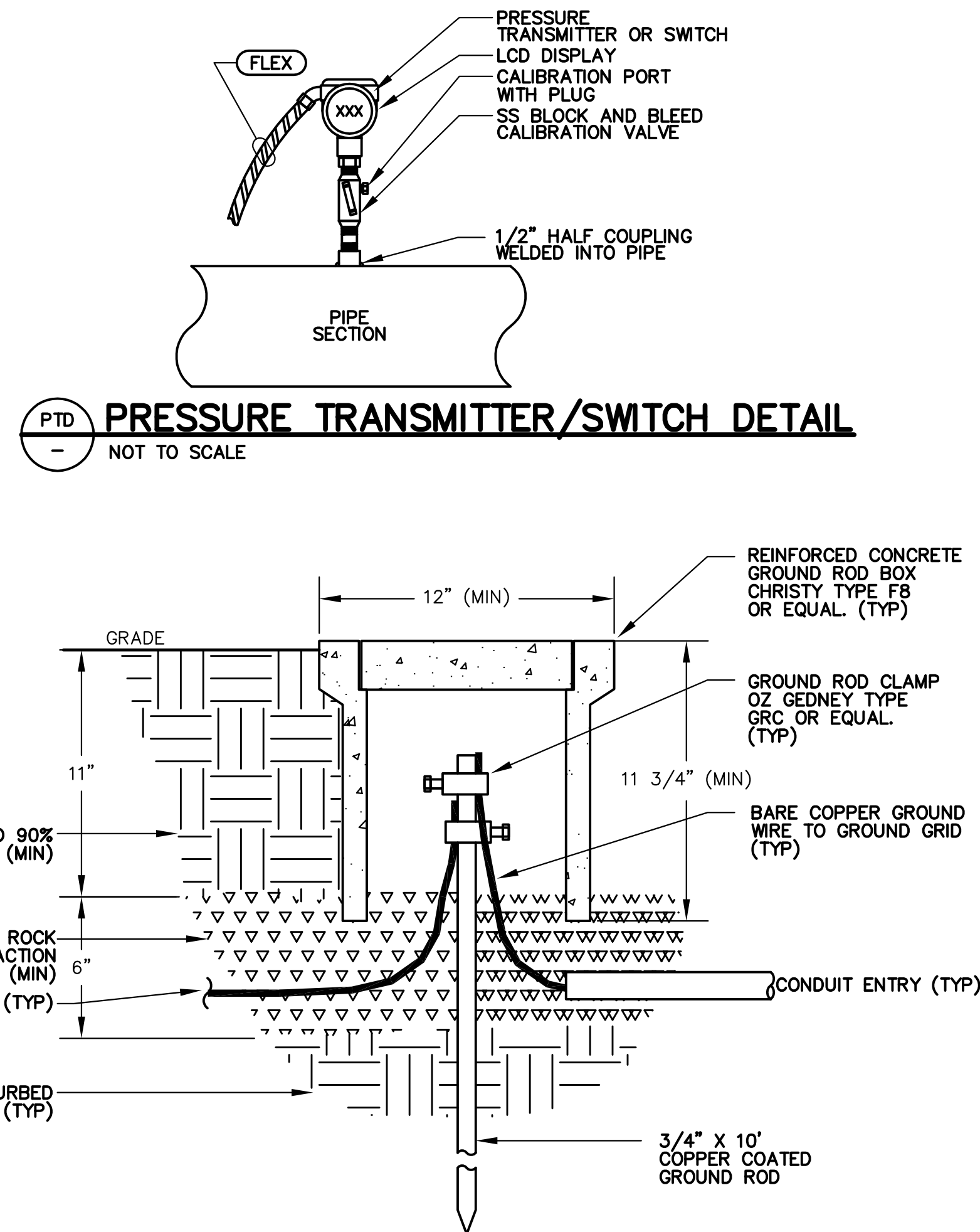
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		A. FRISCH							
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REVIEWED BY:	DATE:	CHECKED BY:							
		M. FRISCH							
		DATE:	Oct 14, 2026	REV.	DATE	DESCRIPTION	APP.		



ECP
NOT TO SCALE
EQUIPMENT CONCRETE PAD DETAIL

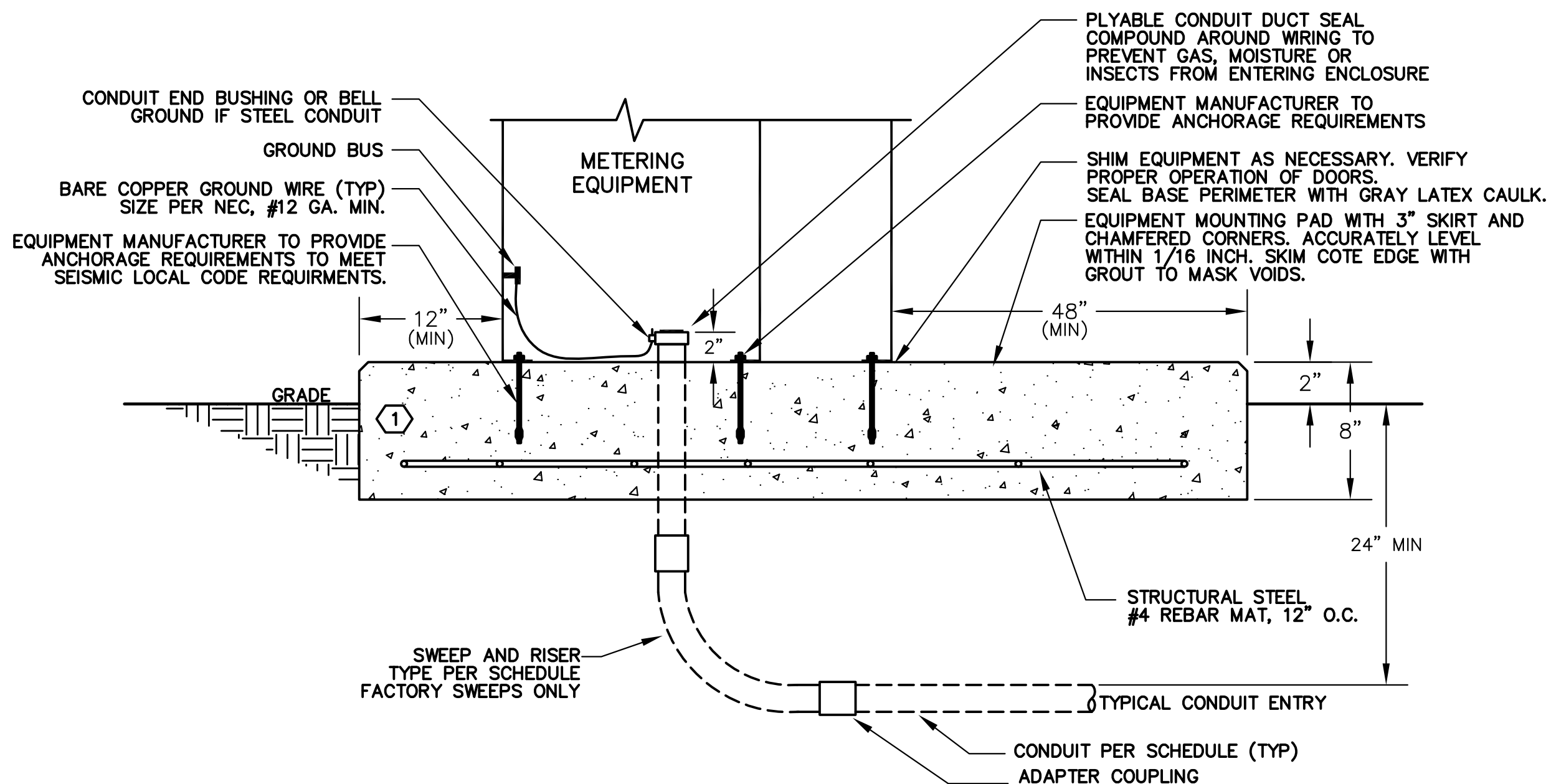


UPB
NOT TO SCALE
UNDERGROUND PULL BOX DETAIL



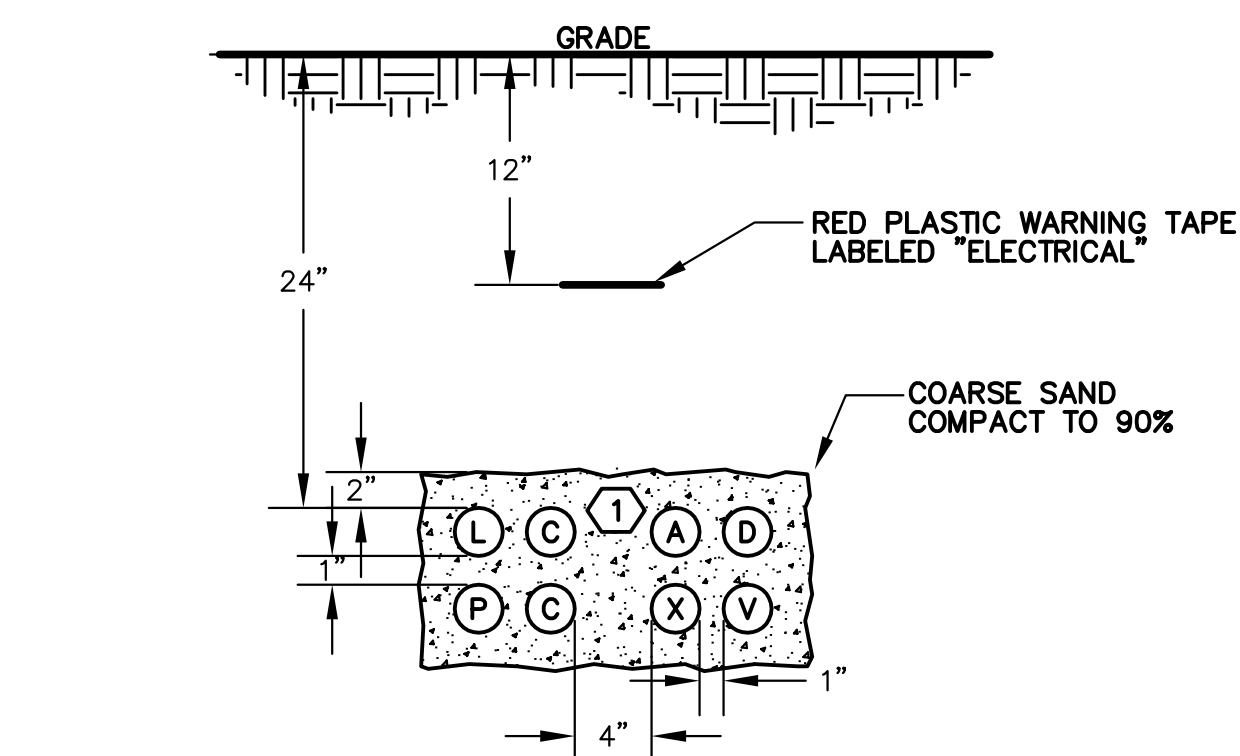
PTD
NOT TO SCALE
PRESSURE TRANSMITTER/SWITCH DETAIL

GIB
NOT TO SCALE
GROUND INSPECTION BOX DETAIL



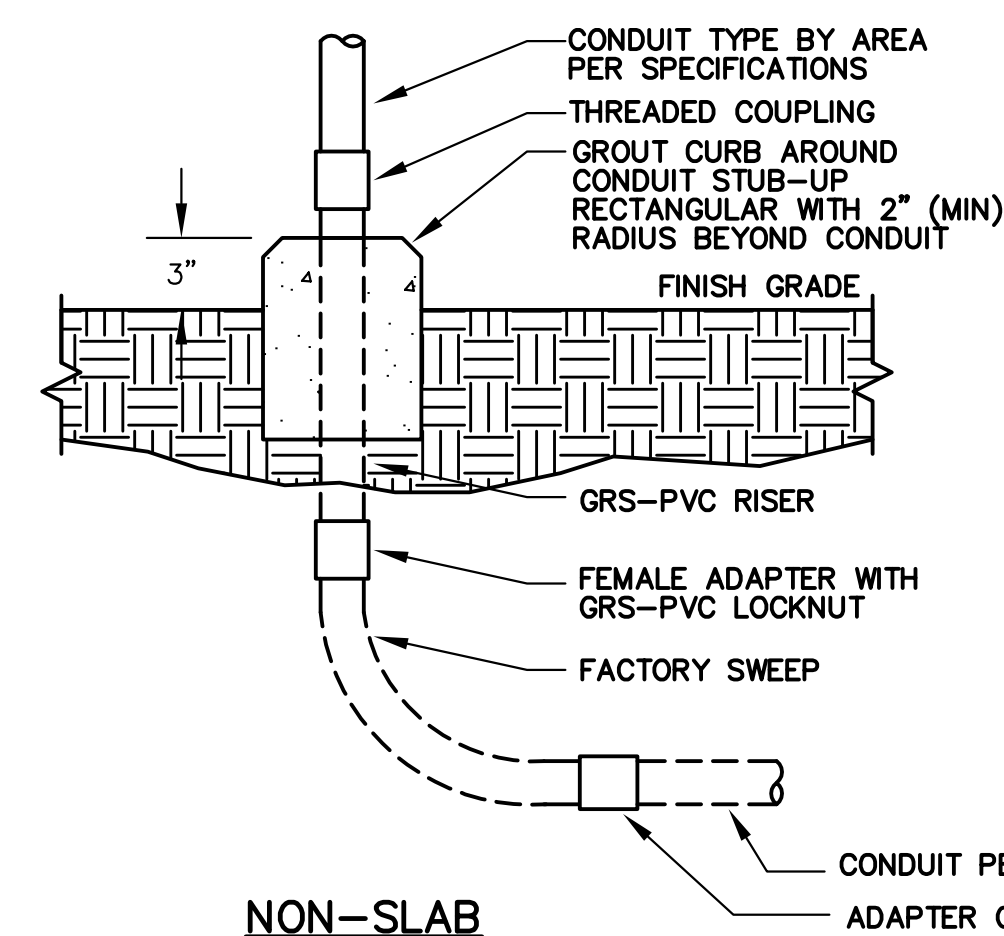
SPD
NOT TO SCALE
UTILITY SWITCHBOARD PAD DETAIL

- NOTES:
- EQUIPMENT PAD SIZE PER SITE PLANS
 - CONTRACTOR SHALL VERIFY EQUIPMENT SIZE AND SIZE PAD ACCORDINGLY. EQUIPMENT MANUFACTURER TO PROVIDE EQUIPMENT DIMENSIONS.

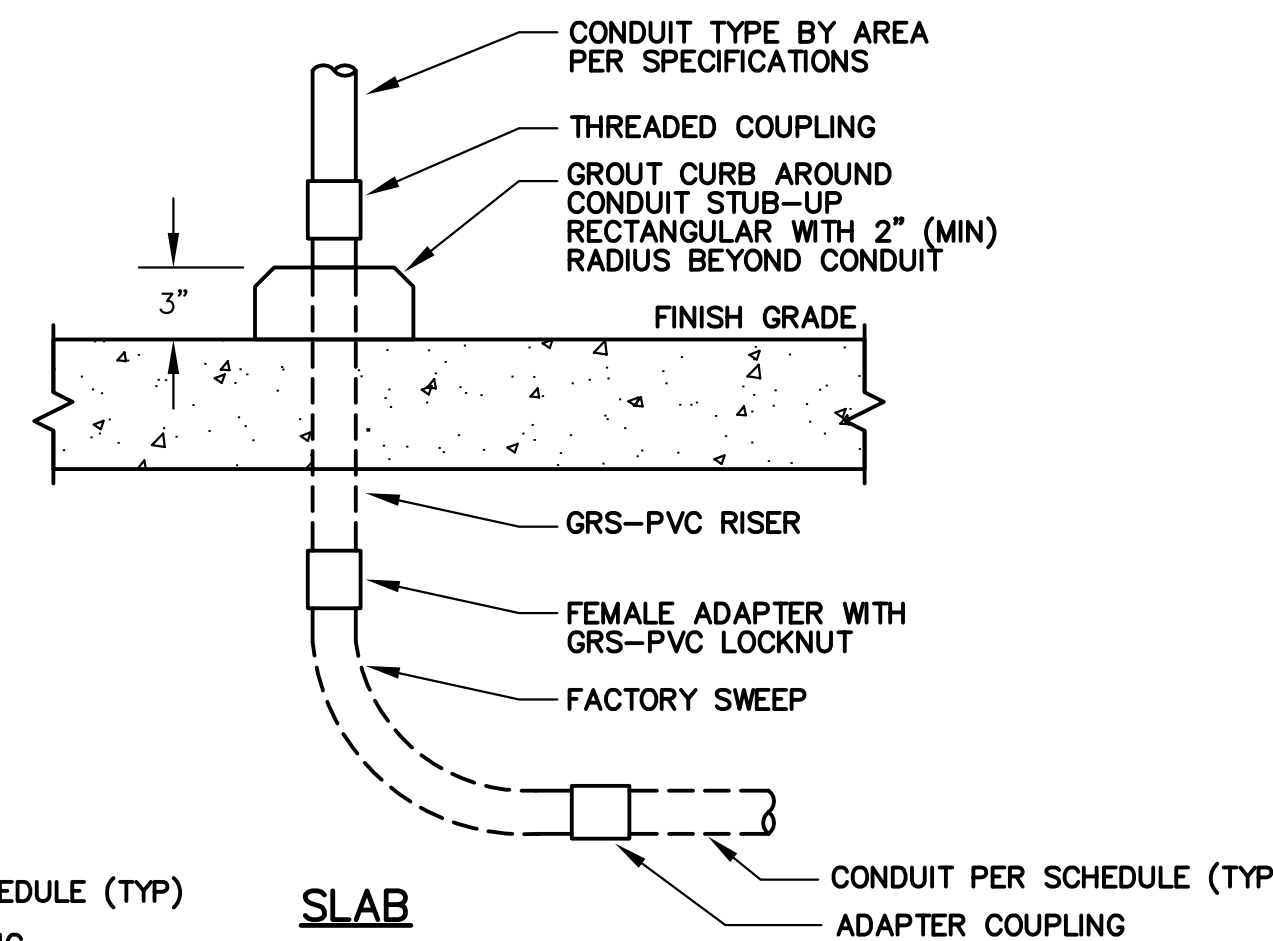


LVC
NOT TO SCALE
LOW VOLTAGE NON-DUCT BANK SECTION

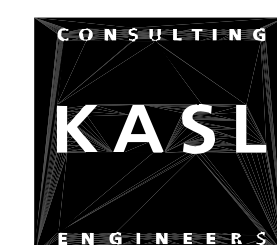
- NOTES:
- NUMBER OF CONDUITS PER PLANS AND SCHEDULE. MAXIMUM DEPTH OF TRENCH SHALL BE 42". DESIGN TRENCH DESIGN AND INSTALL TRENCH TO MAINTAIN 6" VERTICAL CLEARANCE AND 12" HORIZONTAL CLEARANCE FROM PIPES.
 - P, L, OR C DESIGNATION FOR POWER OR CONTROL CONDUITS.
 - A, D, V, OR X DESIGNATION FOR COMMUNICATION (TELEPHONE, DATA, VIDEO, OR INSTRUMENTATION) CONDUITS.
 - USE CONDUIT SPACERS TO SUPPORT CONDUITS AND MAINTAIN SPACING (3' INTERVALS)



ECT
NOT TO SCALE
EXPOSED CONDUIT TRANSITION DETAIL



BID SET



FRISCH ENGINEERING, INC.
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FOLSOM, CA 95630
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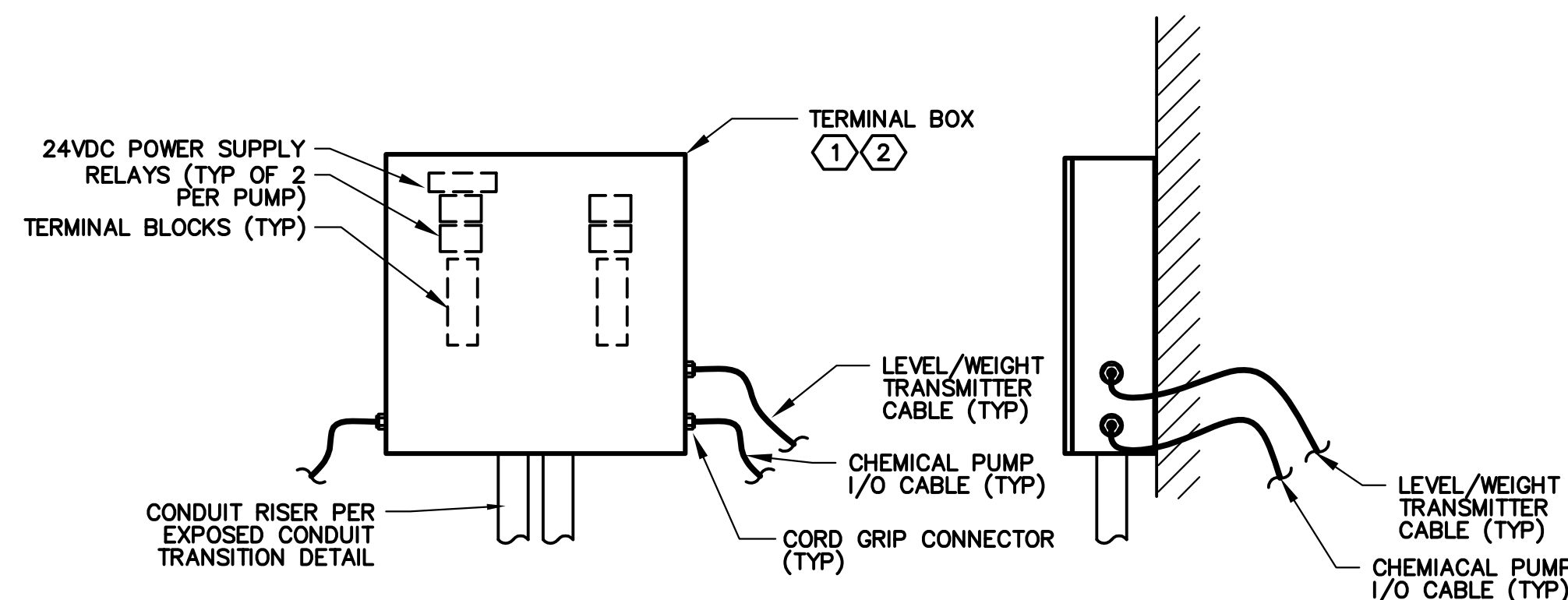
SHEET **E12**
OF **43** SHEETS **48**
PROJECT NUMBER
C26WTNWRE

REVIEWED BY:	DATE:	DESIGNED BY:				
		A. FRISCH				
REVIEWED BY:	DATE:	DRAWN BY:				
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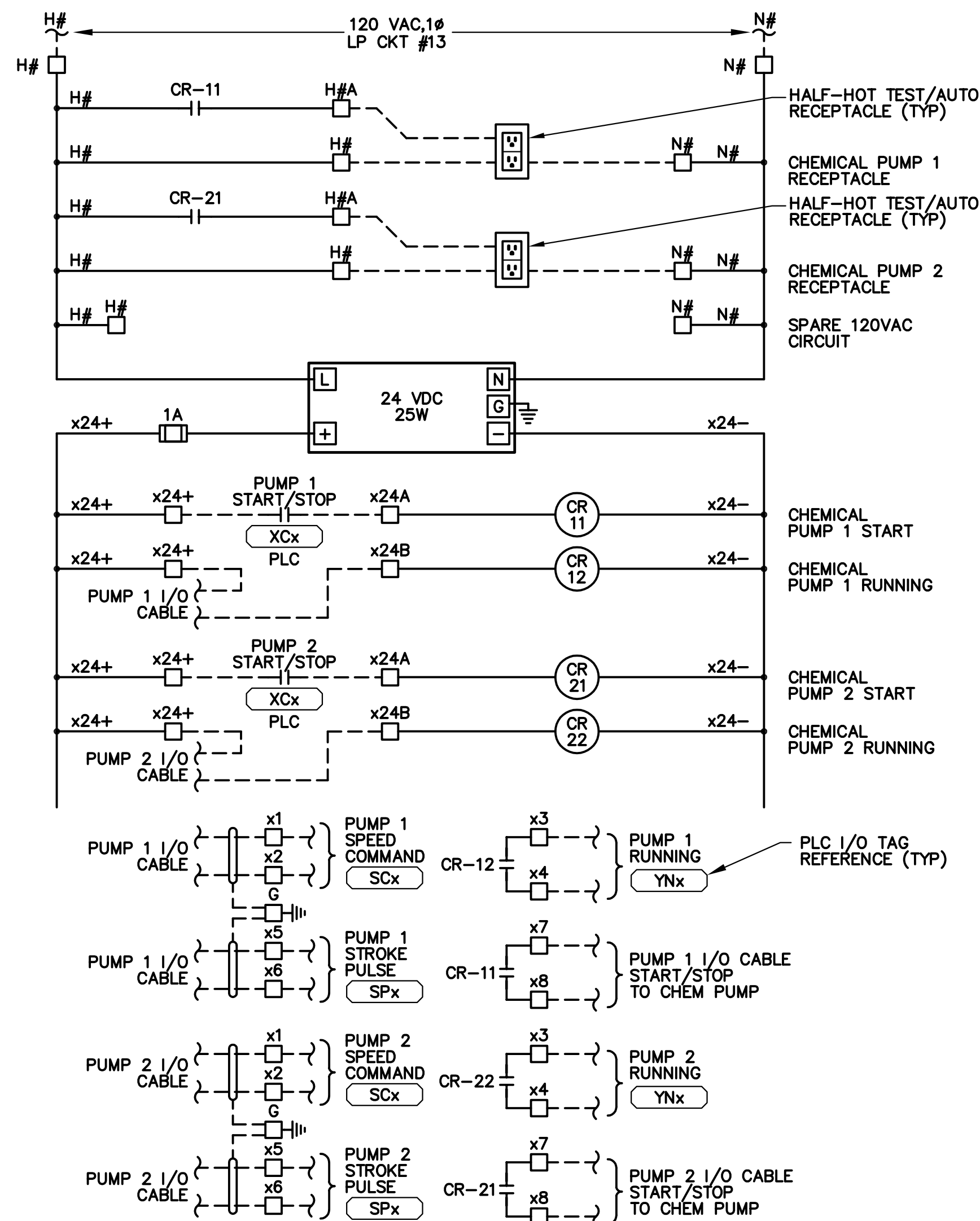
FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHridge WELL #15 EQUIPPING AND SITE IMPROVEMENTS

ELECTRICAL DETAILS 1

DATE: SEPT. 2026
SCALE: N/A
HORIZ: N/A
VERT: N/A
VER:



PANEL ELEVATION
(LOCATE CABLE ENTRANCES AS NEEDED)

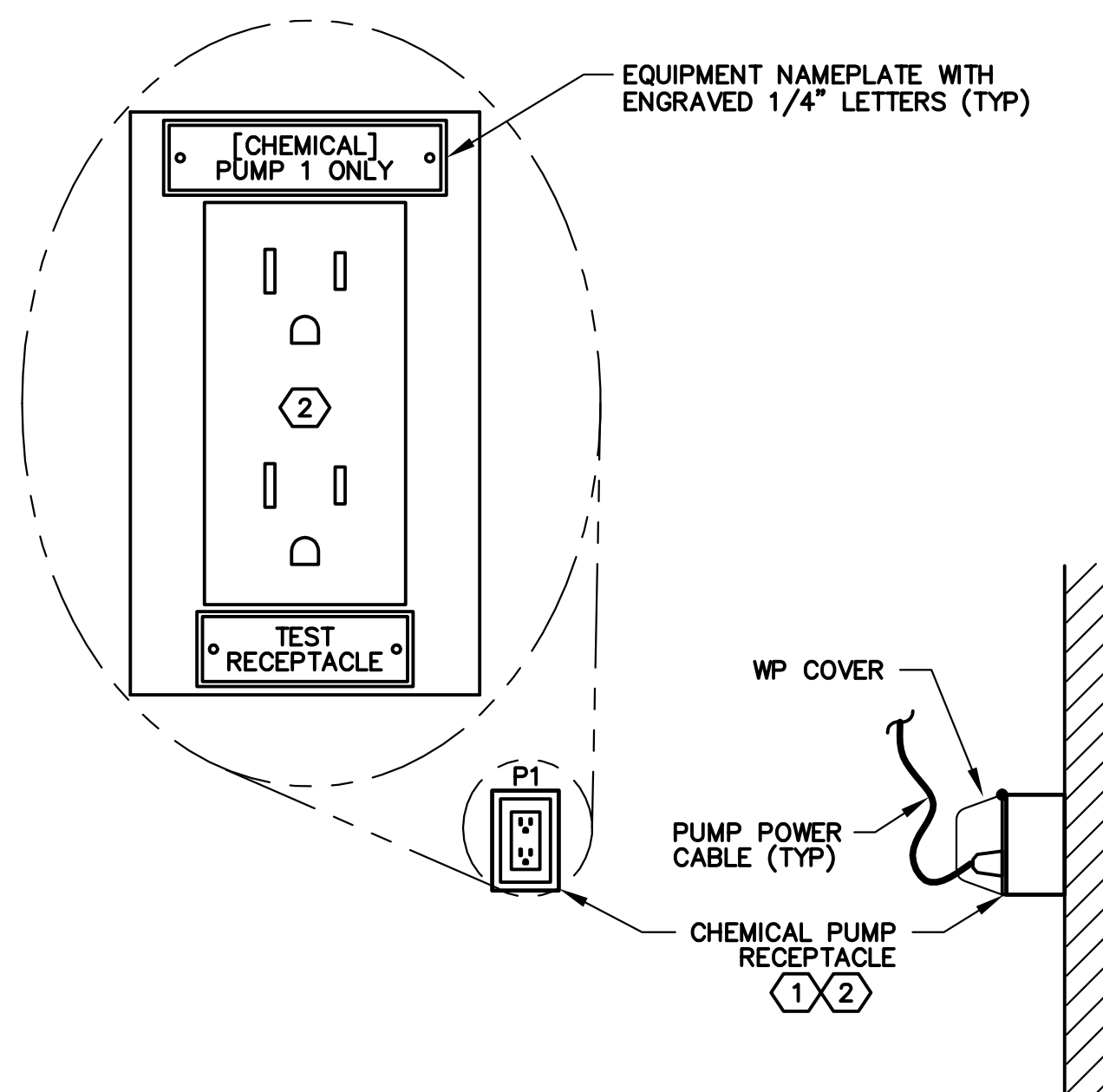


PANEL WIRING DIAGRAM

REPLACE # WITH CIRCUIT NUMBER PER PANELBOARD SCHEDULE
REPLACE x WITH EQUIPMENT NUMBER PER P&ID
TYPICAL FOR ALL CHEMICAL PUMPS

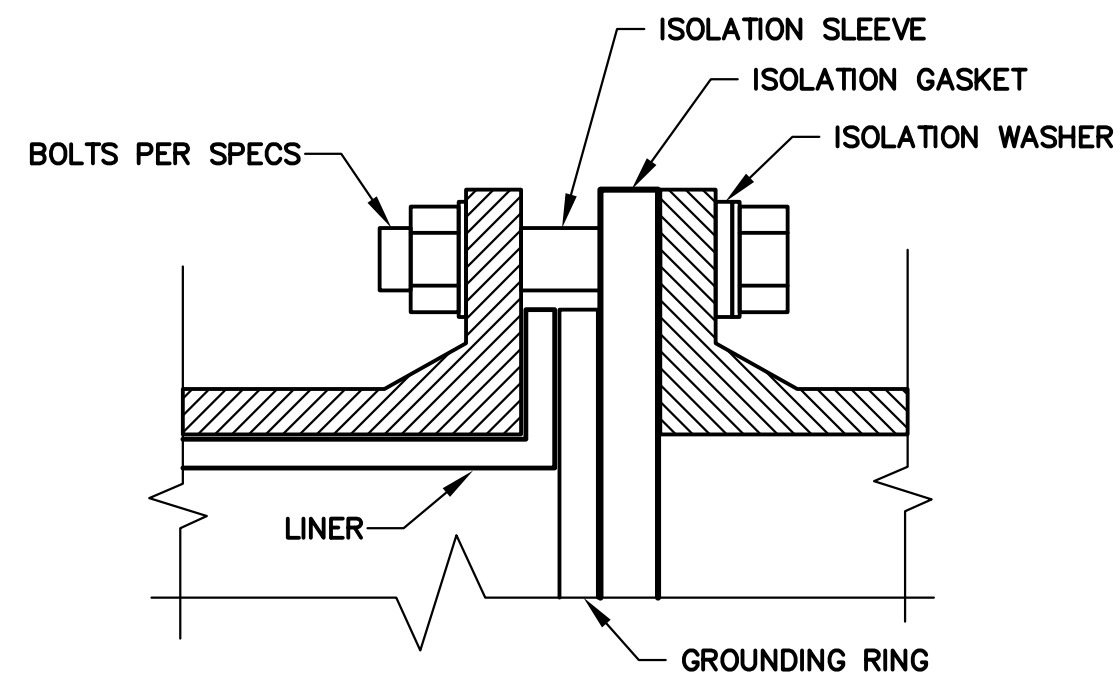
CIP CHEMICAL INTERFACE PANEL
NOT TO SCALE

- NOTES:
- 1 TERMINAL BOX SHALL BE NEMA 4X PVC HINGED SOLID DOOR, 24" X 24" X 8" HOFFMAN A2424SCHS2FG WITH BACKPAN OR EQUAL. PROVIDE NON-METALLIC CORD GRIP CONNECTIONS TO PUMP, FLOW SWITCH, AND LEVEL ELEMENT. CORD GRIPS SHALL BE OLFLEX SKINTOP OR EQUAL.
 - 2 TERMINAL BLOCKS, RELAYS AND 24VDC POWER SUPPLY PER CHEMICAL PUMP ELEMENTARY

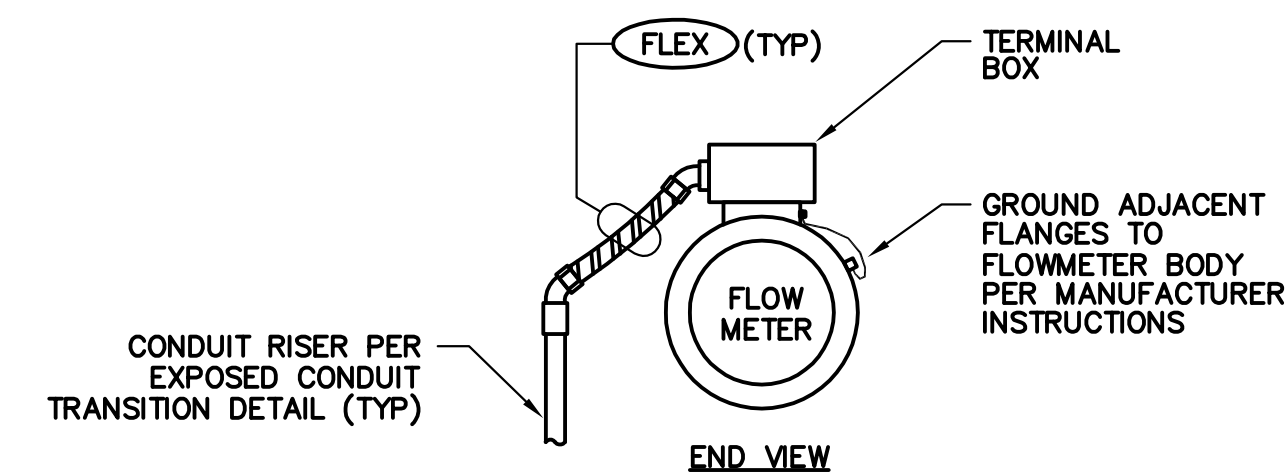


CHEMICAL PUMP RECEPTACLE
(TYPICAL FOR 2 PUMPS)

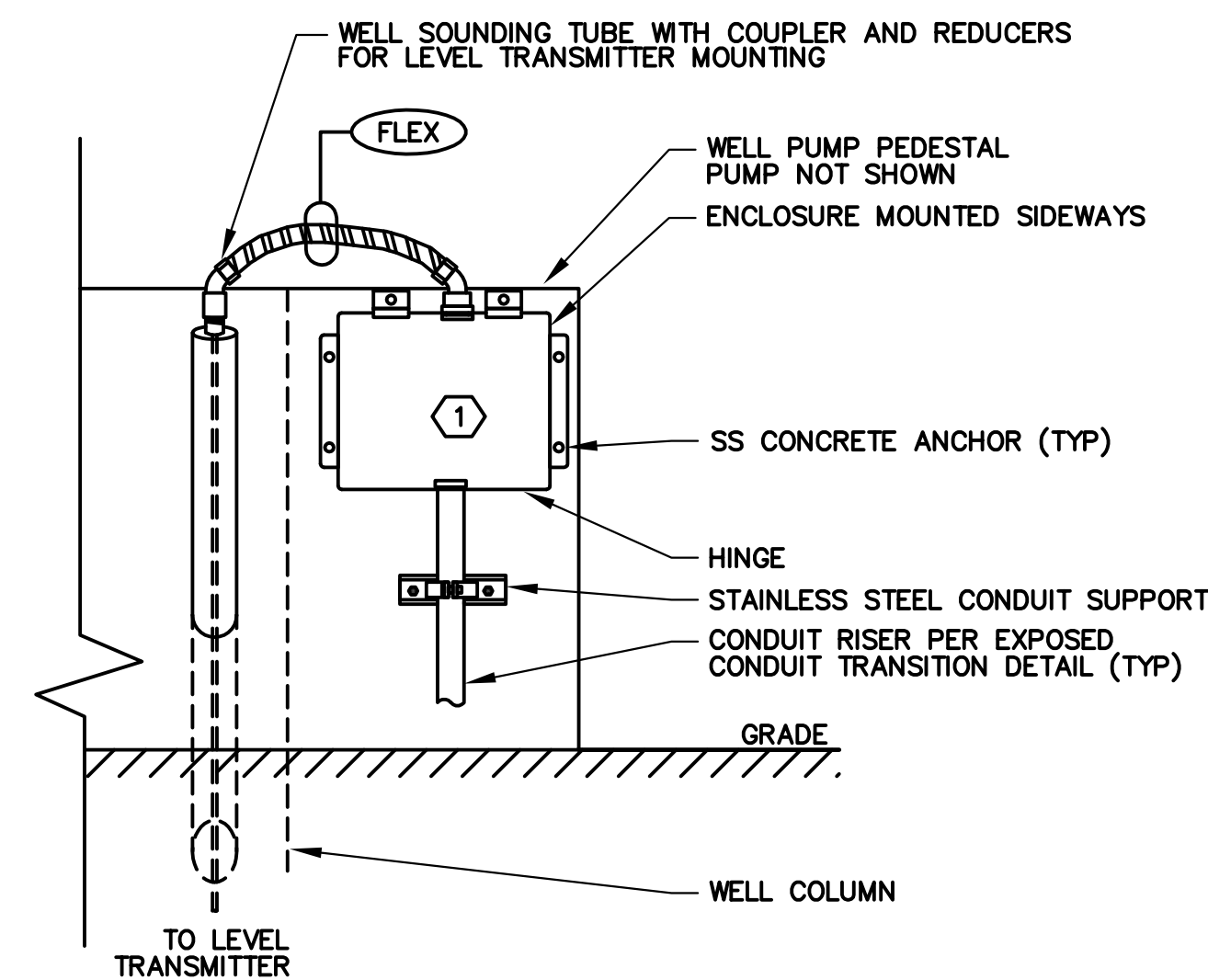
- NOTES:
- 1 RECEPTACLE BOX SHALL BE NON-METALLIC, WITH IN-USE WEATHERPROOF COVER.
 - 2 RECEPTACLE SHALL BE HALF HOT AND HALF SWITCHED BY PLC. HOT FOR TESTING / PRIMING PUMP.



FLG FLOWMETER FLANGE ASSEMBLY
NOT TO SCALE

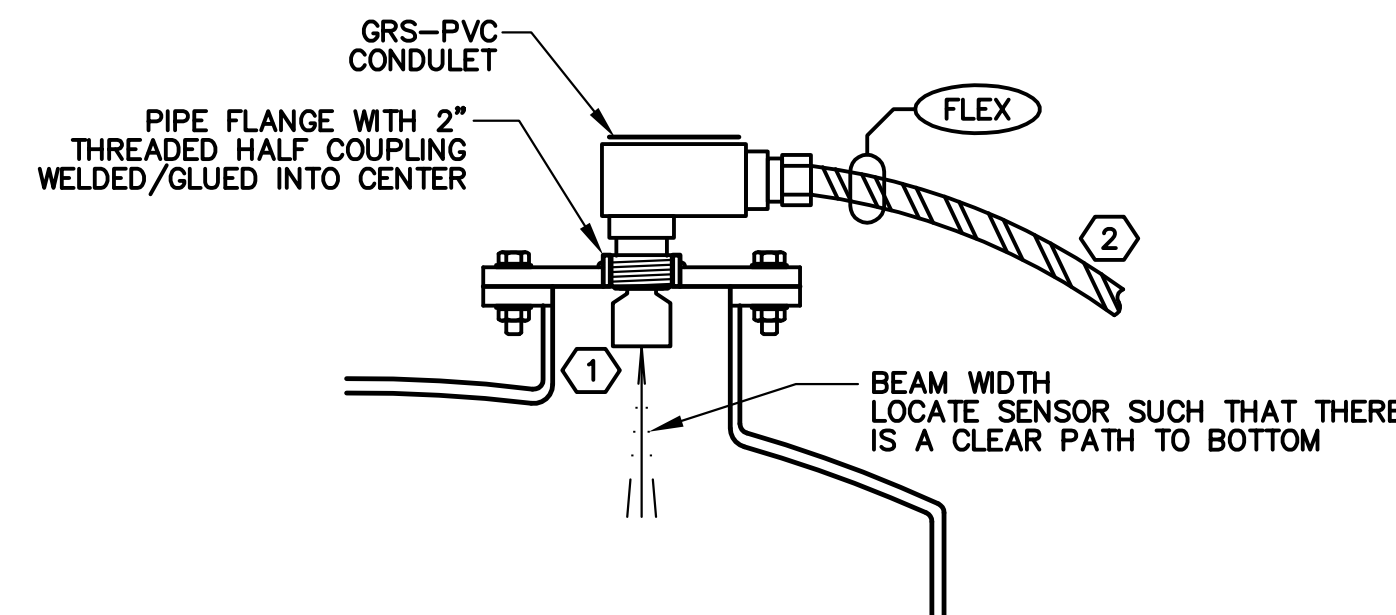


FM FLOWMETER DETAIL
NOT TO SCALE



WLT WELL LEVEL TRANSMITTER DETAIL
NOT TO SCALE

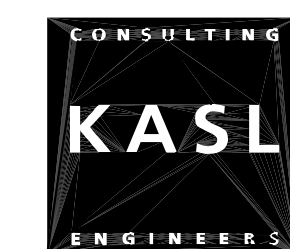
- NOTES:
- 1 12"H x 10"W x 6"D NEMA 4X STAINLESS STEEL ENCLOSURE WITH BACKPAN. MECHANICALLY FASTEN TRANSMITTER CABLE TO PANEL FOR STRESS RELIEF. ATTACH DESSICANT DRIER TO END OF SUBMERSIBLE PROBE CABLE. PROVIDE HOFFMAN CHNFS OR APPROVED EQUAL.



RTD RADAR TRANSMITTER DETAIL
NOT TO SCALE

- NOTES:
- 1 TANK NOZZLE LENGTH AND DIAMETER SHALL BE COORDINATED WITH TANK MANUFACTURER TO BE WITHIN TRANSMITTER MANUFACTURER GUIDELINES.
 - 2 ENTIRE SWEEP IS TO BE LOCATED WITHIN CONCRETE

BID SET



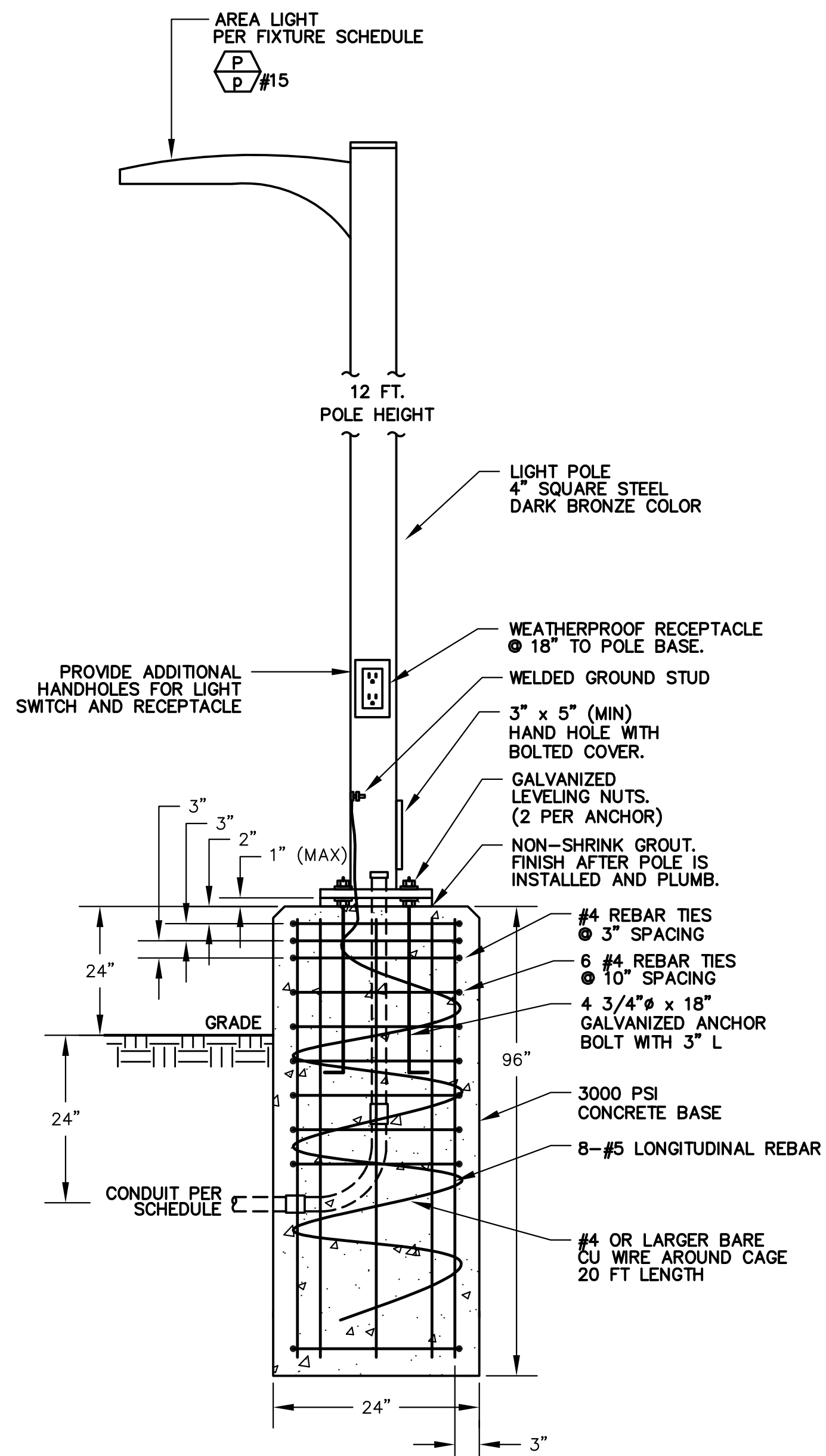
SHEET E13
OF 44 SHEETS 48
PROJECT NUMBER C26WTNWRE

REVIEWED BY:	DATE:	DESIGNED BY:				
		A. FRISCH				
REVIEWED BY:	DATE:	DRAWN BY:				
		T. FRISCH				
REVIEWED BY:	DATE:	CHECKED BY:				
		M. FRISCH				
	DATE:	Oct 14, 2026	REV.	DATE	DESCRIPTION	APP.

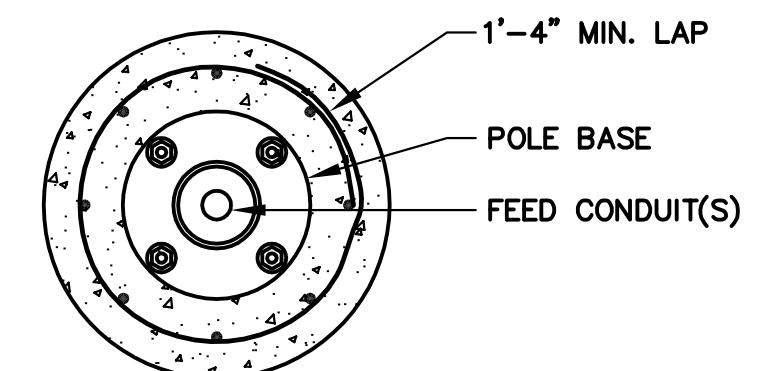
FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHTRIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENTS

ELECTRICAL DETAILS 2

DATE: SEPT. 2026
SCALE: N/A
HORIZ: N/A
VERT: N/A
VER:

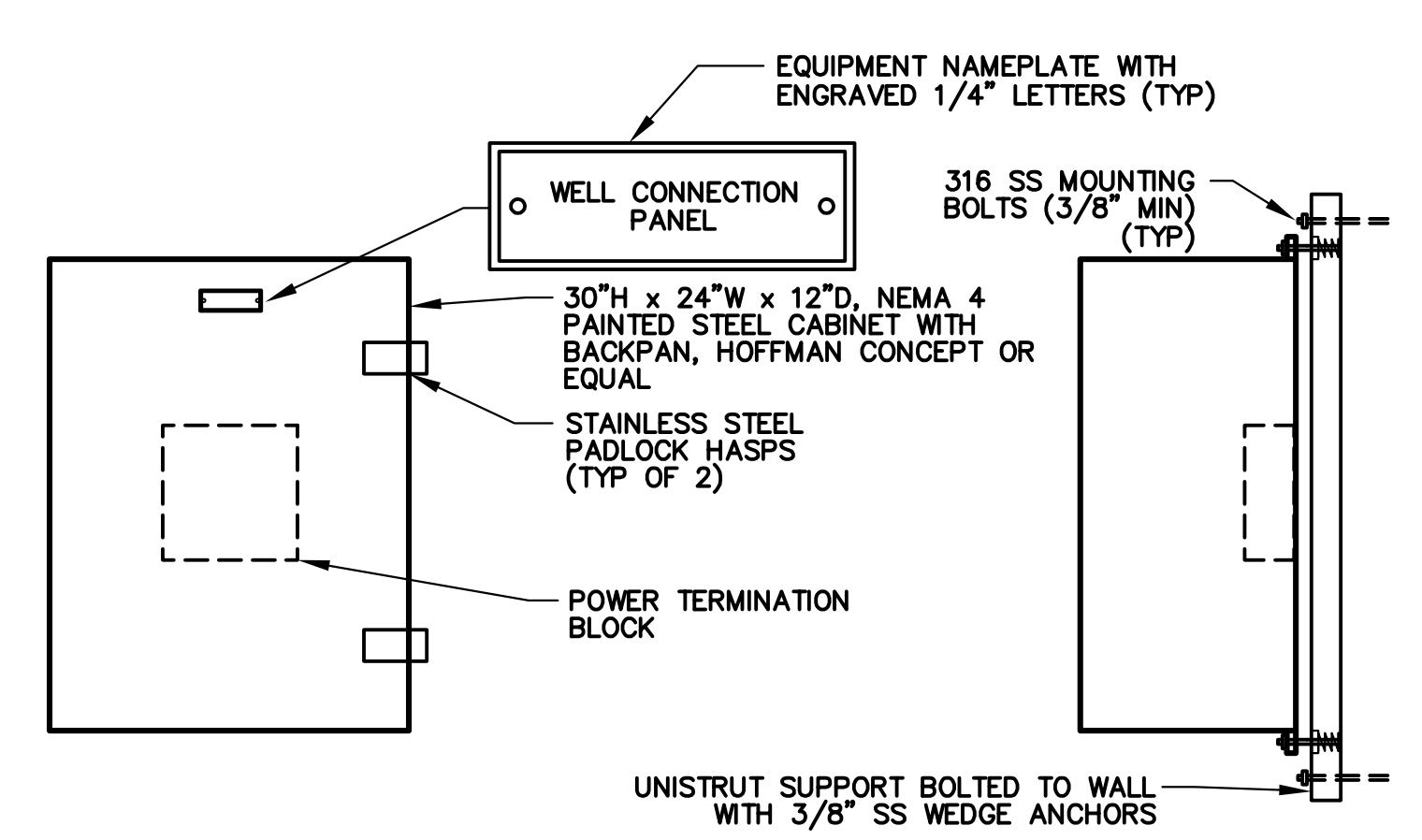


ELEVATION



TOP VIEW

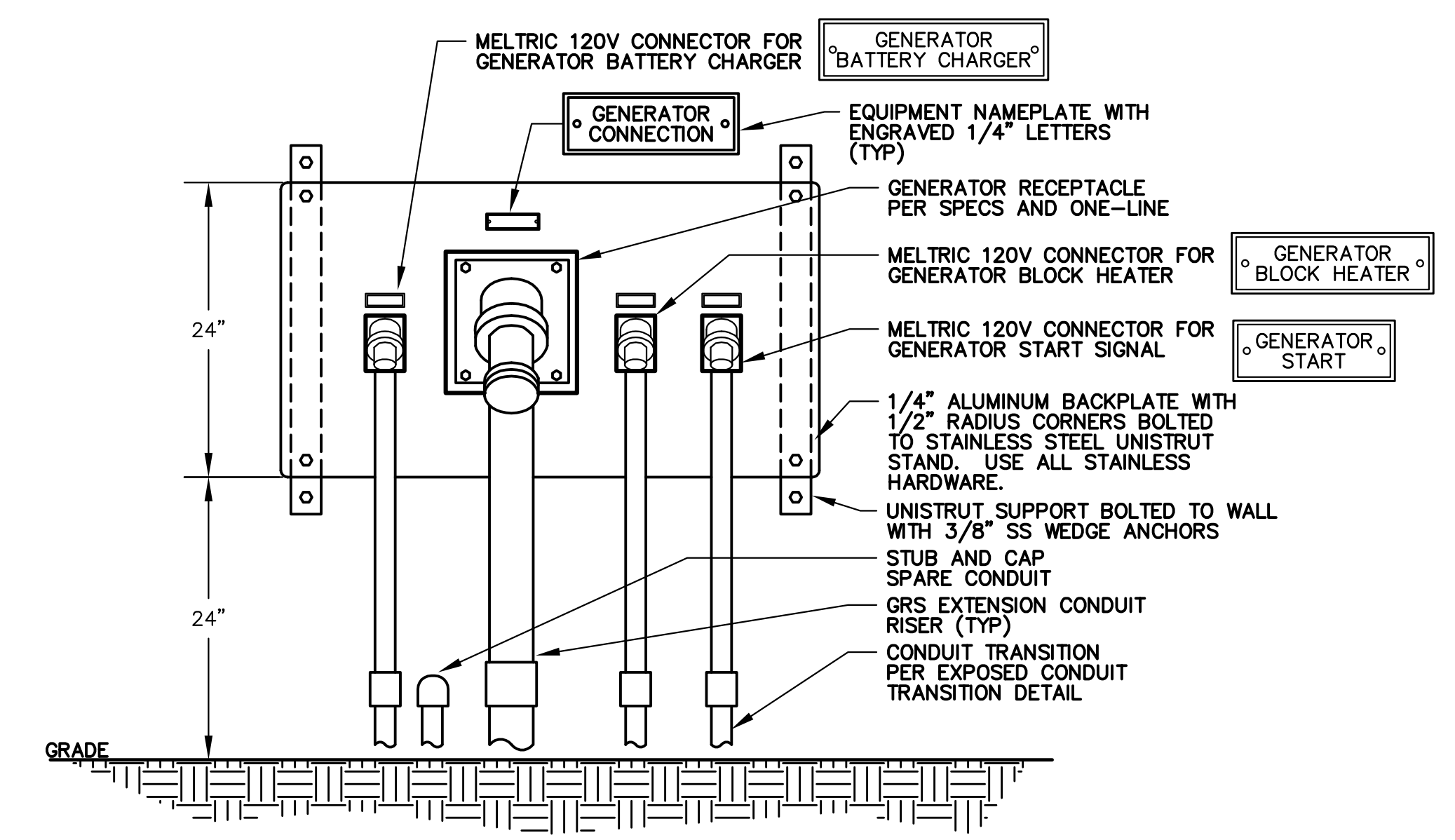
ALP AREA LIGHT POLE DETAIL
NOT TO SCALE



FRONT VIEW

SIDE VIEW

WCP WELL CONNECTION PANEL
NOT TO SCALE



GCP GENERATOR CONNECTION PLUG DETAIL
NOT TO SCALE

FILE: 2406B-E14.DWG
DATE: Oct 14, 2026

REVIEWED BY:	DATE:	DESIGNED BY:				
REVIEWED BY:	DATE:	DRAWN BY:				
REVIEWED BY:	DATE:	CHECKED BY:				
		DATE:	Oct 14, 2026	REV.	DATE	DESCRIPTION
						APP.

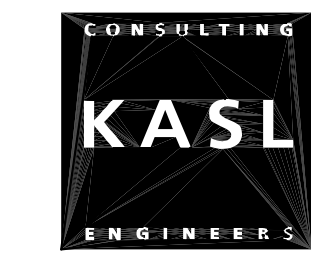
FAIR OAKS WATER DISTRICT
10326 FAIR OAKS BLVD, FAIR OAKS, CA 95628, (916) 967-5723
NORTHTRIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENTS

ELECTRICAL DETAILS 3

DATE: SEPT 2026
SCALE: N/A
HORIZ: N/A
VERT: N/A
VER:

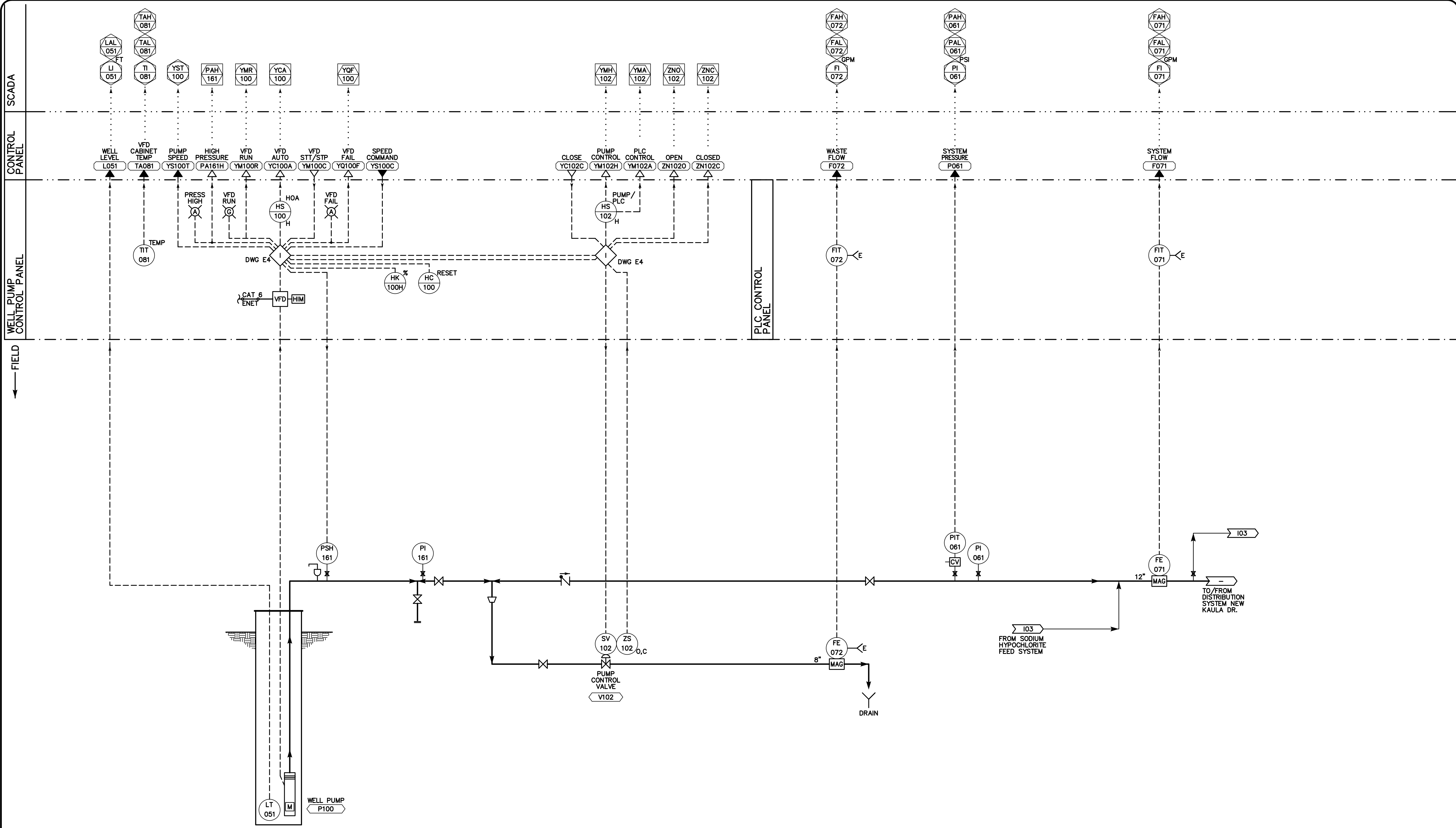


SHEET E14
OF 45 SHEETS 48
PROJECT NUMBER C26WTNWRE



FRISCH ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
13405 FOLSOM BLVD, UNIT 600
FOLSOM, CA 95630
PH 916.353.1025
WWW.FRISCHENGINEERING.COM
FILE: 2406B-E14.DWG
DATE: Oct 14, 2026 TIME: 3:45:05PM

BID SET



NORTHRIDGE WELL P&ID

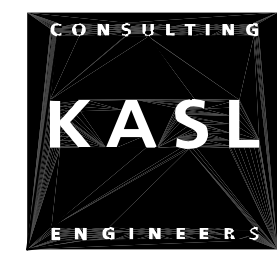
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DATE: Oct 14, 2026

REVIEWED BY:	DATE:	DESIGNED BY:				
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REVIEWED BY:	DATE:	CHECKED BY:				
	DATE:					
	Oct 14, 2026	REV.	DATE	DESCRIPTION	APP.	

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NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENTS
NORTHRIDGE WELL P&ID SHEET 1

BID SET

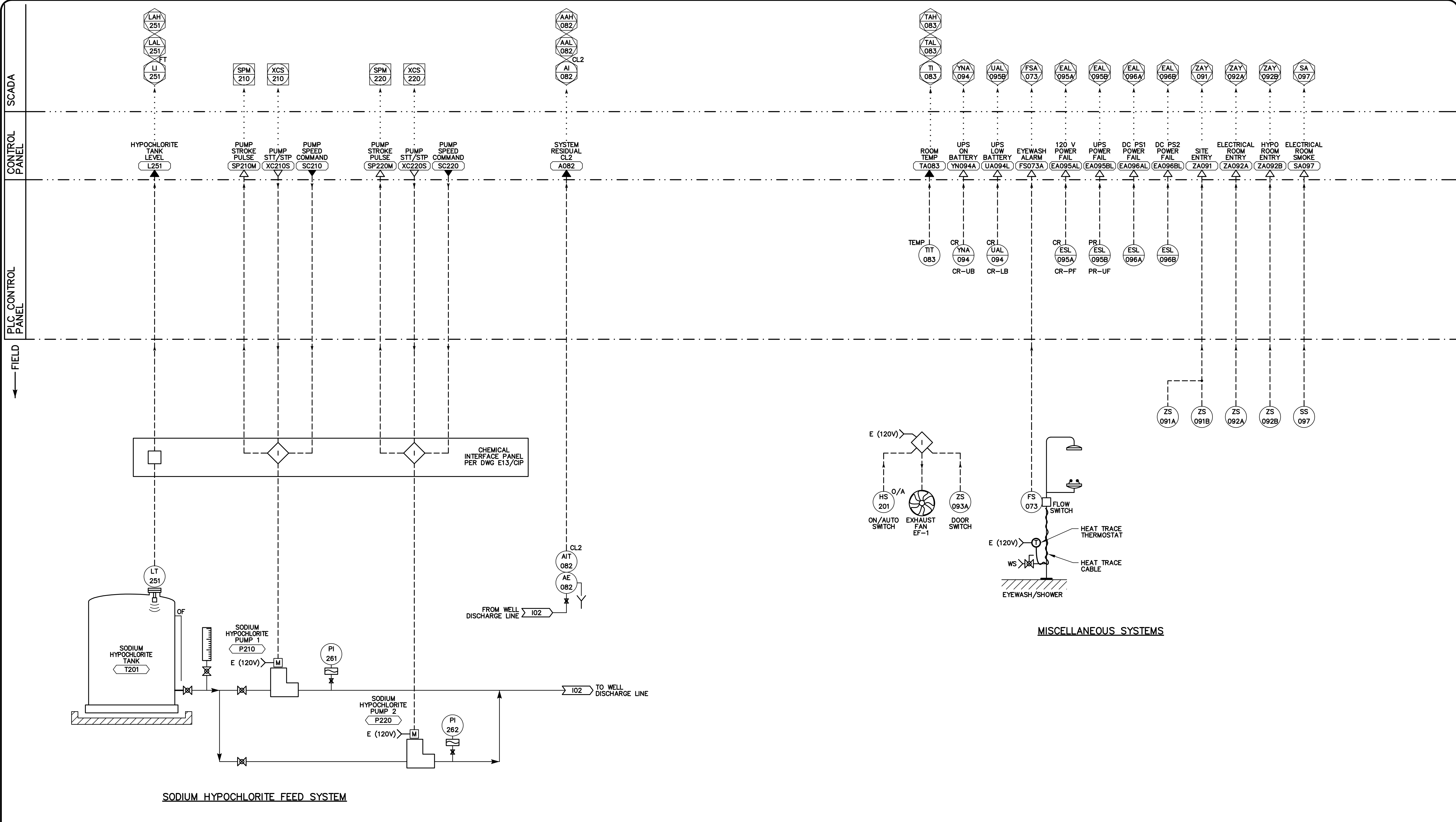
DATE: SEPT 2026
SCALE: N/A
VERT: N/A
VER:



FRISCH ENGINEERING, INC.
CONSULTING ELECTRICAL ENGINEERS
13405 FOLSOM BLVD, UNIT 600
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WWW.FRISCHENGINEERING.COM
FILE: 2406B-102.DWG
DATE: Oct 14, 2026 TIME: 3:45:26PM



SHEET **12**
OF **47** SHEETS **48**
PROJECT NUMBER
C26WTNWRE



CHEMICAL SYTEMS P&ID

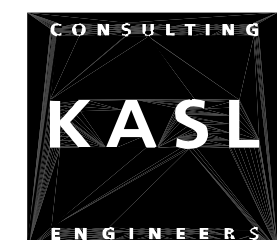
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DATE: Oct 14, 2026

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REVIEWED BY:	DATE:	DRAWN BY:				
REVIEWED BY:	DATE:	CHECKED BY:				
	DATE:	DATE:	REV.	DATE	DESCRIPTION	APP.
		Oct 14, 2026				

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NORTHRIDGE WELL #15 EQUIPPING AND SITE IMPROVEMENTS
NORTHRIDGE WELL P&ID SHEET 2

BID SET

DATE: SEPT. 2026
SCALE: N/A
HORIZ: N/A
VERT: N/A
VER:



FRISCH ENGINEERING, INC.
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13405 FOLSOM BLVD, UNIT 600
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FILE: 24068-103.DWG
DATE: Oct 14, 2026 TIME: 3:45:40PM



SHEET **13**
OF **48** SHEETS **48**
PROJECT NUMBER
C26WTNWRE