CITY OF SACRAMENTO

IMPROVEMENT PLANS FOR I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

PN: T15136000

FEDERAL PROJECT# BRLS-5002(164)

STANDARD ABBREVIATIONS

AB	AGGREGATE BASE	FT	FOOT (FEET)	RD	ROAD
AC	ASPHALTIC CONCRETE OR ACRE	G	GAS	RPT	RADIUS POINT
ADA	AMERICAN DISABILITY ACT	GB	GRADEBREAK	REM	REMOVE
ALT	ALTERNATIVE	GD	GUTTER DRAIN	RR	RAILROAD
AP	ANGLE POINT	GFL	GUTTER FLOWLINE	RSP	ROCK SLOPE PROTECTION
APPROX	APPROXIMATE	GR	INLET GRATE	RT	RIGHT
AVE	AVENUE	GV	GATE VALVE	R/W	RIGHT OF WAY
BC	BEGIN HORIZONTAL CURVE	HGL	HYDRAULIC GRADE LINE	S	SLOPE
BEG	BEGIN	HMA	HOT MIX ASPHALT	SC	SAWCUT
BFPD	BACKFLOW PREVENTION DEVICE	HP	HINGE POINT	ST	STORM DRAIN
BK, PG	BOOK, PAGE	HWY	HIGHWAY	SDMH	STORM DRAIN MANHOLE
BLDG	BUILDING	INTX	INTERSECTION	SEC	SECTION
BLVD	BOULEVARD	INV	PIPE, INVERT	SG	SUBGRADE
BM	BENCHMARK	IRR	IRRIGATION	SHT	SHEET
BOW	BACK OF WALK	L	LENGTH, FEET	SS	SANITARY SEWER
BVC	BEGIN VERTICAL CURVE	LIP	EDGE OF GUTTER PAN	SSMH	SANITARY SEWER MANHOLE
CALC	CALCULATED	LT	LEFT	SQ FT	SQUARE FOOT/FEET
CB	CONCRETE BOX	MAX	MAXIMUM	STA	STATION
C&G	CURB AND GUTTER	MED	MEDIAN	STD	STANDARD
CG&SW	CURB, GUTTER AND SIDEWALK	MH	MANHOLE	ST	STREET
CL	CENTERLINE OR CLASS	MIN	MINIMUM	SW	SIDEWALK
CLR	CLEAR	MISC	MISCELLANEOUS	TB	TOP OF BANK
CO	CLEANOUT OR COUNTY	MOD	MODIFIED	TBC	TOP BACK OF CURB
CONC	CONCRETE	MON	MONUMENT	TBW	TOP BACK OF WALK
CONST	CONSTRUCT	NO	NUMBER	TC	TOP OF CURB
COORD	COORDINATE	NTS	NOT TO SCALE	TEL	TELEPHONE
COTG	CLEANOUT TO GRADE	OC	ON-CENTER	TEMP	TEMPORARY
CP	CATCH POINT	OG	ORIGINAL GROUND	TF	TOP OF FOOTING
CR	CURB RAMP	OH	OVERHEAD	TOC	TOP OF CURB
CS	COMBINED SEWER	OHWM	ORDINARY HIGH WATER MARK	TOPO	TOPOGRAPHY
CT	CALTRANS	PB	PULL BOX	TOW	TOP OF WALL
∆	DELTA	PCC	PORTLAND CEMENT CONCRETE OR	TP	TELEPHONE POLE
DG	DECOMPOSED GRANITE		POINT OF COMPOUND CURVATURE	TRANS	TRANSITION
DI	DRAIN INLET	PI	POINT OF INTERSECTION	TS	TOP OF STAIR
DIA	DIAMETER	PG	PROFILE GRADE	TW	TOP OF WALL
DTL	DETAIL	PL	PROPERTY LINE	TYP	TYPICAL
DWG	DRAWING	POB	POINT OF BEGINNING	UG	UNDERGROUND
DWY	DRIVEWAY	POC	POINT OF CURVATURE	UPRR	UNION PACIFIC RAILROAD
EXIST	EXISTING	POT	POINT OF TANGENCY	VAR	VARIES
EC	END OF HORIZONTAL CURVE	PP	POWER POLE	VERT	VERTICAL
ECP	ELLIPTICAL CONCRETE PIPE	PRC	POINT OF REVERSE CURVE	VG	VEE GUTTER
Elev	ELEVATION	PRF	PAVEMENT REINFORCING FABRIC	VOL	VOLUME
EP	EDGE OF PAVEMENT	PROP	PROPOSED	W	WATER
ESMT	EASEMENT	PRVC	POINT OF REVERSING	WM	WATER METER
EVC	END VERTICAL CURVE		VERTICAL CURVE	WV	WATER VALVE
FC	FINISHED GRADE	PVMT	PAVEMENT	XING	CROSSING
FM	FORCE MAIN	PVI	POINT OF VERTICAL	YD	YARD
FL	FLOWLINE		INTERSECTION		
FNC	FENCE	R	RADIUS OR RIDGE		
FOW	FACE OF WALK	RAD	RADIAL		

APPROVED BY:

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07/30/2025
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07/30/2025
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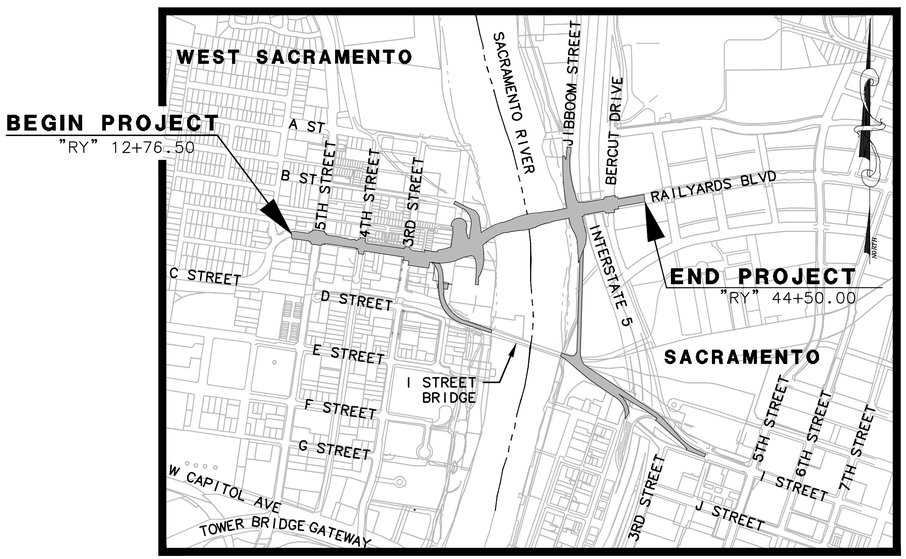
07/31/2025
DATE

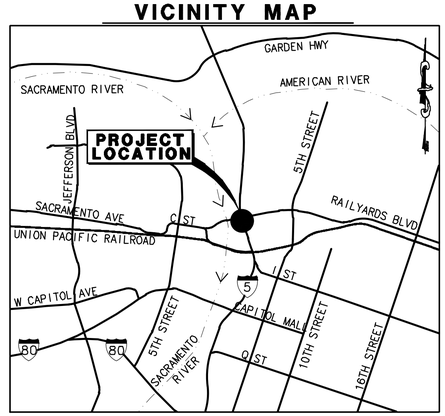
SHEET INDEX

SHEET	DRAWING	DESCRIPTION
1	C-1	COVER SHEET
2-3	C-2 to C-3	GENERAL NOTES
4-12	C-4 to C-12	TYPICAL SECTIONS
13-14	C-13 to C-14	KEY MAP
15	C-15	PROJECT CONTROL
16-29	C-16 to C-29	DEMOLITION PLANS
30-44	C-30 to C-44	LAYOUT PLAN
45-53	C-45 to C-53	PROFILE
54-70	C-54 to C-73	CONSTRUCTION DETAILS
71-81	D-1 to D-11	DRAINAGE PLAN
82-85	DP-1 to DP-5	DRAINAGE PROFILE
86-87	DD-1 to DD-2	DRAINAGE DETAILS
88-102	U-1 to U-15	UTILITY PLAN
103-104	W-1 to W-2	WATER PLANS
105-108	SC-1 to SC-4	STAGE CONSTRUCTION
109	TH-1	TRAFFIC HANDLING
110-113	DE-1 to DE-4	DETOUR PLANS
114-132	SS-1 to SS-19	SIGNING AND STRIPING
133-137	SD-1 to SD-5	SIGN DETAILS
138-153	RW-1 to RW-16	RETAINING WALL-STRUCTURES
154	RW-17	RETAINING WALL-ROADWAY
155-158	WT-1 to WT-4	TRAFFIC SIGNAL PLANS
159-178	TS-1 to TS-20	STREET LIGHTING
179-183	SL-1 to SL-5	ELECTRICAL DETAILS
184-189	LP-1 to LP-6	SITE LAYOUT PLAN
190-191	LD-1 to LD-2	SITE LAYOUT DETAILS
192-197	IP-1 to IP-6	IRRIGATION PLAN
198-203	ID-1 to ID-6	IRRIGATION DETAILS
204-209	PP-1 to PP-6	PLANTING PLAN
210-211	PD-1 to PD-2	PLANTING DETAILS
212-220	L-1 to L-9	LEVEE PLANS
221-242	E0.1 to E5.3	BRIDGE LIGHTING
243-320	S-1 to S-53	STRUCTURES BRIDGE APPROACH
321-491	MS-1 to MS-171	MAIN MOVABLE SPAN STRUCTURAL
492-533	M-1 to M-42	MOVABLE SPAN MECHANICAL
534-629	E-1 to E-96	MOVABLE SPAN ELECTRIC
630-634	MD-1 to MD-5	MONUMENT DETAILS
635-648	FS-1 to FS-14	FACADE DETAILS



LOCATION MAP
NTS

VICINITY MAP



REGISTERED PROFESSIONAL ENGINEER
ZACH SIVIGLIA
No. 73128
Exp. 12/31/26
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

COVER SHEET

T15136000

SHEET 1 OF 648

CITY OF SACRAMENTO GENERAL NOTES:

1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS, DATED NOVEMBER 2020 AND ALL APPLICABLE ADDENDA.
2. THE CONTRACTOR SHALL BE IN RECEIPT OF CITY ACCEPTED PLANS PRIOR TO BEGINNING CONSTRUCTION WITHIN THE STREET RIGHT-OF-WAY. ACCEPTANCE OF PLANS BY THE CITY OF SACRAMENTO IS BASED ON INFORMATION CONTAINED ON THE PLANS AND SUPPORTING DOCUMENTS, AND DOES NOT SUBROGATE THE DESIGN ENGINEER'S RESPONSIBILITY FOR THIS PROJECT. ANY AND/OR ALL ERRORS AND OMISSIONS ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER.
3. CONTACT THE CITY OF SACRAMENTO CONSTRUCTION SECTION AT (916)808-8300 TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR THE PROTECTION OF AND REPAIR OF DAMAGE TO THEM. CONTACT UNDERGROUND SERVICE ALERT 1-800-642-2444, 48 HOURS BEFORE WORK IS TO BEGIN.
5. RESPONSIBILITY FOR FINAL ACCEPTANCE OF LINE AND GRADE BY THE CITY OF SACRAMENTO WILL BE ASSUMED ONLY IF CONSTRUCTION STAKES ARE SET BY THE CITY SURVEY CREWS OR THEIR DESIGNATED REPRESENTATIVE. CITY WILL SET CONSTRUCTION STAKES ONLY IF SO INDICATED ON THE "NOTICE TO PROCEED" WITH CONSTRUCTION ISSUED FOR THIS PROJECT. CONTACT CITY OF SACRAMENTO CONSTRUCTION SECTION AT LEAST THREE (3) WORKING DAYS IN ADVANCE FOR CONSTRUCTION STAKES WITHIN PUBLIC RIGHT-OF-WAY.
6. FOR ALL TRENCH EXCAVATIONS 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY (2424 ARDEN WAY, SUITE 165, SACRAMENTO —PHONE 916-263-2800) PRIOR TO BEGINNING ANY EXCAVATION. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNS, BRIDGES, BARRICADES, FLAGMEN, AND OTHER FACILITIES TO ADEQUATELY SAFEGUARD THE GENERAL PUBLIC AND WORK, AND TO PROVIDE FOR THE PROPER ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC. CONSTRUCTION OPERATIONS SHALL COMPLY WITH THE WORK AREA AND TRAFFIC CONTROL HANDBOOK (WATCH). THE CONTRACTOR SHALL PROVIDE TO THE CITY TRAFFIC ENGINEER FOR REVIEW, A PLAN SHOWING TRAFFIC CONTROL MEASURES AND/OR DETOURS FOR VEHICLES AFFECTED BY THE CONSTRUCTION WORK. THE APPROVED PLAN SHALL BE DELIVERED TO THE CONSTRUCTION INSPECTOR PRIOR TO THE IMPLEMENTATION OF TRAFFIC CONTROL MEASURES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE (CITY DATUM) OF ALL UNDERGROUND IMPROVEMENTS CONSTRUCTED AND SHALL BE DELIVERED TO THE CONSTRUCTION INSPECTOR PRIOR TO, AND IN CONSIDERATION, OF THE CITY'S ACCEPTANCE OF WORK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE AND SEWER FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL NEW DRAINAGE AND SEWER IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
11. IF UNUSUAL AMOUNTS OF BONE, STONE OR ARTIFACTS ARE UNCOVERED, WORK WITHIN 50 METERS OF THE AREA SHALL CEASE IMMEDIATELY AND A QUALIFIED ARCHAEOLOGIST SHALL BE CONSULTED TO DEVELOP, IF NECESSARY, MITIGATION MEASURES TO REDUCE ANY ARCHAEOLOGICAL IMPACT TO A LESS THAN SIGNIFICANT EFFECT BEFORE CONSTRUCTION RESUMES IN THE AREA.
12. COST TO REMOVE AND REPLACE EXISTING PAVEMENT OVER UTILITY LINE TRENCHES SHALL BE INCLUDED IN THE BID PRICE. TRENCHES SHALL BE BACKFILLED AND PAVEMENT SHALL BE REPLACED PER CITY DETAIL T-80. PAVEMENT SHALL BE REPLACED IN KIND (MINIMUM OF 4" AC ON 12" AB) AS DETERMINED IN THE FIELD BY THE CITY INSPECTOR. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE RESTORED (IN THERMOPLASTIC).
13. PAVEMENT REPAIR NECESSARY DUE TO SUBSIDENCE RESULTING FROM TRENCH FAILURE OR OTHER DEFECTS IN WORKMANSHIP SHALL CONSIST OF KEY CUTTING AND OVERLAYING BETWEEN THE TWO NEAREST INTERSECTIONS, AS DETERMINED BY THE CITY INSPECTOR
14. SIDEWALK RAMPS SHALL BE CONSTRUCTED AT THE CENTER OF ALL ROUND CORNERS UNLESS OTHERWISE SHOWN. RAMPS SHALL COMPLY WITH THE MOST RECENT CITY STANDARD RAMP DETAILS, WHICH ARE AVAILABLE FROM THE CITY INSPECTOR.
15. PIPE AND MANHOLE DIMENSIONS ARE TO THE CENTERLINE, UNLESS OTHERWISE NOTED.
16. ALL TAPS 24 INCHES AND SMALLER INTO SEWER & DRAIN MANHOLES SHALL BE CORE BORED WITH KOR-N-SEAL TAPS OR APPROVED EQUAL.
17. ANY WATER ENTERING THE SANITARY SEWER SYSTEM TO BE CONSTRUCTED UNDER THESE PLANS SHALL NOT BE DISCHARGED TO THE EXISTING SYSTEM. PLUGS MUST BE INSTALLED IN EXISTING MANHOLES AS NECESSARY TO PERMIT PUMPING THE NEW SYSTEM CLEAR OF WATER AND DEBRIS PRIOR TO ACCEPTANCE. CARE SHALL BE EXERCISED IN LOCATING PLUGS TO AVOID INTERRUPTING SERVICES TO EXISTING CONNECTIONS. MORTAR OR BRICK PLUGS MUST BE USED, INFLATABLE DEVICES ARE NOT SATISFACTORY.
18. UNLESS OTHERWISE APPROVED, DRAIN PIPE MATERIAL SHALL BE EITHER REINFORCED CONCRETE PIPE CONFROMING TO ASTM, DESIGNATION C76 CLASS III, IV, V OR PVC SDR-35 OR AS SPECIFIED ON PLANS. USE RCP CLASS III OR PVC SDR-35 WITH 18" OR MORE MINIMUM COVER, RCP CLASS IV WITH 12" – 18" MINIMUM COVER, RCP CLASS IV ENCASED IN CDF WITH 6" – 12" MINIMUM COVER, AND CLASS 150 CEMENT MORTAR LINED DUCTILE IRON PIPE CONFORMING TO AWWA C151 ENCASED IN CDF WITH 0" – 6" MINIMUM COVER. IN ALL CASES, PROVIDE RUBBER GASKETED JOINTS. (NOTE: MINIMUM COVER IS FROM BOTTOM OF AB TO TOP OUTISDE DIAMETER OF DRAIN PIPE)
19. DI INLET LEADS SHALL BE RCP CLASS III OR PVC SDR-35 WITH 18" OR MORE MINIMUM COVER, PVC C-900 CLASS 150 OR RCP CLASS IV WITH 12" – 18" MINIMUM COVER, RCP CLASS IV OR PVC C-900 BOTH ENCASED IN CDF WITH 6" – 12" MINIMUM COVER, OR DUCTILE IRON PIPE ENCASED IN CDF WITH 0" – 6" MINIMUM COVER. IN ALL CASES, PROVIDE RUBBER GASKETED JOINTS. (NOTE: MINIMUM COVER IS FROM BOTTOM OF AB TO TOP OUTSIDE DIAMETER OF DRAIN PIPE)
20. SANITARY SEWER PIPE MAINS SHALL BE CONSTRUCTED OF V.C.P., A.B.S. OR PVC UNLESS OTHERWISE SPECIFIED ON THE PLANS.
21. ALL SEWER SERVICES SHALL BE CONSTRUCTED OF A.B.S. PIPE PER CITY STANDARD DRAWINGS S-260 AND S-265, UNLESS OTHERWISE NOTED ON THE PLANS.
22. ALL SEWER SERVICES SHALL BE 4" DIAMETER UNLESS OTHERWISE NOTED.
23. AGGREGATE SUBBASE SHALL CONFORM TO CALTRANS SPECIFICATIONS DATED: 2024, SECTION 25.
24. THE CONTRACTOR SHALL VIDEO RECORD ALL DRAIN AND SEWER PIPES PER CITY STANDARD SPECIFICATIONS.
25. UNLESS OTHERWISE APPROVED, THE CONTRACTOR SHALL BALL AND FLUSH ALL SEWER AND DRAIN SYSTEMS PRIOR TO VIDEO RECORDING. THESE SYSTEMS SHALL BE FREE OF DEBRIS PRIOR TO ACCEPTANCE OF WORK.
26. A STORM WATER PERMIT MUST BE OBTAINED WHEN CONSTRUCTION ACTIVITY RESULTS IN SOIL DISTURBANCE OF ONE (1) OR MORE ACRES. THE STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CA 95812-1977, SHALL BE CONTACTED TO OBTAIN THE PERMIT PRIOR TO BEGINNING CONSTRUCTION.
27. IF WORK SHOWN ON THESE PLANS HAS NOT COMMENCED WITHIN TWO YEARS FROM THE DATE OF THE CITY'S ACCEPTANCE OF THE PLANS, A SUBSEQUENT PLAN REVIEW AT THE CITY'S DISCRETION AND THE DEVELOPER'S EXPENSE MAY BE NECESSARY.
28. CONTRACTOR SHALL COMPLY WITH THE CITY OF SACRAMENTO ADMINISTRATIVE AND TECHNICAL PROCEDURES MANUAL FOR GRADING/EROSION AND SEDIMENT CONTROL.
29. CONSTRUCT SURVEY MONUMENT WELL PER STD. DWG.
30. CONCRETE RESTORATION: COLOR OF NEW CONCRETE SHALL MATCH ADJACENT EXISTING CONCRETE BY ADDING LAMP BLACK.
31. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS.
32. EXISTING ASPHALT PAVEMENT SHALL BE CUT TO A NEAT STRAIGHT LINE. THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING.
33. EXACT LIMITS OF CURB AND GUTTER, SIDEWALK, DRIVEWAY, AND PAVEMENT REMOVAL AND RECONSTRUCTION SHALL BE DETERMINED IN THE FIELD BY THE CONSTRUCTION SECTION.
34. GUTTER SLOPES FROM FLOWLINE TO LIP SHALL BE FIVE (5) PERCENT BETWEEN ROUND CORNER CURB RETURNS, THE FIVE (5) PERCENT SLOPE SHALL BE TRANSITIONED TO THE STANDARD GUTTER SLOPE OVER A DISTANCE OF THREE (3) TO FIVE (5) FEET, AS DIRECTED IN THE FIELD BY RESIDENT ENGINEER. THE GUTTER SLOPE ADJACENT TO THE HANDICAP RAMPS SHALL IN NO CASE BE GREATER THAN FIVE (5) PERCENT.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
SEWER	SS --s	
STORM DRAIN	SD	SD
WATER	W w	W
FIBER OPTIC (CENTURYLINK, CONSOLIDATED COMMS, XO COMM, LEVEL 3 COMM)	FO fo	
TELECOM (AT&T, VERIZON)	--tc	
GAS (PG&E, KINDER MORGAN)	---gs	
ELECTRICAL (PG&E, SMUD)	E -e	
TELEVISION (AT&T, COMCAST)	tv (oh)	
MANHOLE		
VALVE		
FIRE HYDRANT (FH)		
STREET LIGHT		
ELECTRICAL POLE		
SIGNAL LIGHT		
TRAFFIC SIGNAL		
GAS VALVE	GAS	
ELECTRICAL BOX		
UTILITY POLE		
UTILITY VAULT		
AIR RELEASE VALVE (ARV)		
WATER VALVE		
GUY WIRE		
POTHOLE LOCATION		
DRAIN INLET (DI)		
RIGHT-OF-WAY		
SAWCUT LINE		SAWCUT
EXIST PROPERTY LINE		
COLD PLANE (2") AND OVERLAY LIMIT		
REMOVE FENCE		
REMOVE BRIDGE		
ROADWAY EXCAVATION		
REMOVE CONCRETE		
2" COLD PLANE AC PAVEMENT		
DECOMPOSED GRANITE		
PCC		
RSP		
CLASS 2 AB		
RETAINING WALL		
TREE		(TO BE REMOVED)
LANDSCAPE AREA		
CURVE CALLOUT		X
TRUNCATED DOMES		

REGISTERED PROFESSIONAL ENGINEER
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No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

GENERAL NOTES

T15136000

SHEET 2 OF 648

CITY OF WEST SACRAMENTO GENERAL NOTES:

1. THE CONTRACTOR SHALL EXAMINE THE PROJECT SITE, COMPARE IT WITH THE PLANS AND SPECIFICATIONS, CAREFULLY EXAMINE ALL OF THE CONTRACT DOCUMENTS, AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED BEFORE ENTERING INTO THIS CONTRACT. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS/HER PART AND/OR HIS/HER NEGLIGENCE AND/OR FAILURE TO ACQUAINT HIMSELF/HERSELF WITH THE CONDITIONS OF THE PROJECT SITE.

2. THE TYPES, LOCATIONS SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPE, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. ALL REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES, HOWEVER, THE CITY OF WEST SACRAMENTO CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ITS DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT ARE NOT SHOWN ON THESE DRAWINGS.

3. THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION, HE/SHE SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES WHERE SUCH FACILITIES MAY POSSIBLY CONFLICT WITH THE PLACEMENT OF IMPROVEMENTS AS SHOWN ON THESE IMPROVEMENT PLANS. THE CONTRACTOR FOR THIS CONTRACT WILL BE REQUIRED TO NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 1-800-642-2444. EXCAVATION, FOR THE PURPOSE OF THESE REQUIREMENTS, SHALL BE DEFINED AS BEING BELOW THE EXISTING SURFACE. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO HIS/HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

4. THE CONTRACTOR SHALL REMOVE ALL "UNDERGROUND SERVICE ALERT" (USA) MARKINGS ATTRIBUTED TO THIS PROJECT PRIOR TO FINAL ACCEPTANCE.

5. THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD HARMLESS THE CITY, THE ENGINEER, AND THEIR DULY AUTHORIZED REPRESENTATIVES FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

6. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD) AND THE CITY OF WEST SACRAMENTO STANDARD SPECIFICATIONS.

7. THE CONTRACTOR SHALL NOTIFY RESPONSIBLE PROPERTY OCCUPANTS FORTY-EIGHT (48) HOURS IN ADVANCE BEFORE LIMITING ACCESS TO BUSINESS AND/OR RESIDENCES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

9. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL WORK INDICATED IN THESE PLANS AND THE PROJECT SPECIFICATIONS. ANY ITEMS INDICATED ON THESE PLANS BUT NOT ITEMIZED IN THE BID SCHEDULE WILL BE INCLUDED UNDER A BID SCHEDULE ITEM WHICH IT MOST PERTAINS TO.

CITY OF WEST SACRAMENTO REPRESENTATIVES		
CITY PROJECT MANAGER	CANDIDO RAMIREZ	(916)617-4611
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CITY POLICE DEPARTMENT	CARL CROUCH	(916)617-4900
RD-900	TIM MALLEN	(916)371-1483
SACRAMENTO REGIONAL COUNTY SANITATION DISTRICT	ROBB ARMSTRONG	(916)876-6104
USA		(800)642-2444
WASHINGTON UNIFIED SCHOOL DISTRICT	BRAD VON STRIVER	(916)375-7600
YOLO BUS	JOSE PEREZ	(530)371-2877
YOLO CO. COMMUNICATIONS	BRUCE ANDREOZZI	(530)666-8900
YOLO DEPT. OF ENVIRONMENTAL HEALTH	B. SARAZIN	(530)666-8646
YOLO COUNTY GENERAL SERVICES	CINDY BURGH	(530)666-8095
(AFTER HOURS) YOLO COUNTY DISPATCHER		(530)666-8920
YOLO-SOLANO AIR POLUTION	HARRY MOORE	(530)757-3650
YOLO COUNTY TRANSPORTATION DISTRICT	TERRY BASSETT	(530)661-0816

EMERGENCY CONTACT	
FIRE/POLICE	(916)617-4700
WATER/SEWER	(916)617-4850
PG&E 24 HOUR EMERGENCY	1-800-743-5000
AT&T	1-800-227-2600
ELECTRIC LIGHTWAVE	1-800-622-4354
YOLO COUNTY DISPATCHER	(530)666-2877

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-3

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

GENERAL NOTES

T15136000

SHEET 3 OF 648

GENERAL NOTES:

1. EMBANKMENT AND DITCH SIDE SLOPES ARE SHOWN AS MAXIMUM STEEPNESS. REFER TO THE GENERAL CROSS SECTIONS IN THE RESIDENT ENGINEER FILE FOR SLOPE STAKING.
2. ALL HINGES OFF THE EDGE OF PAVEMENT OR BACK OF WALK HAVE A 5% SLOPE.
3. FOR ALL LOCATIONS, LIMITS, AND DIMENSIONS OF CURBS, GUTTERS, SIDEWALKS, AND RAISED ISLANDS SEE LAYOUTS AND CONSTRUCTION DETAILS.
4. DIMENSIONS OF THE PAVEMENT STRUCTURAL SECTION ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
5. CURB AND GUTTER TO BE CONSTRUCTED PER CITY OF SACRAMENTO STANDARD DETAIL T–11.
6. MEDIAN CURB TO BE CONSTRUCTED PER CITY OF SACRAMENTO STANDARD DETAIL T–11.
7. CONCRETE MEDIAN AND MEDIAN CURB (WEST SACRAMENTO) TO BE CONSTRUCTED PER CITY OF WEST SACRAMENTO STANDARD #203 & #204.
8. CURB, GUTTER, AND SIDEWALK (WEST SACRAMENTO) TO BE CONSTRUCTED PER CITY OF WEST SACRAMENTO STANDARD DETAIL #201.
9. SEE RW SHEETS FOR RETAINING WALL DETAILS.
10. RETAINING WALLS TO INCLUDE FENCE AS SPECIFIED IN ARCHITECTURAL PLANS.

DESIGN DESIGNATIONS:

WEST SACRAMENTO

C STREET
R–VALUE = 20
T.I. VALUE = 9

LOCAL COLLECTORS
R–VALUE = 20
T.I. VALUE = 9

DESIGN SPEED:
C STREET – 25 MPH

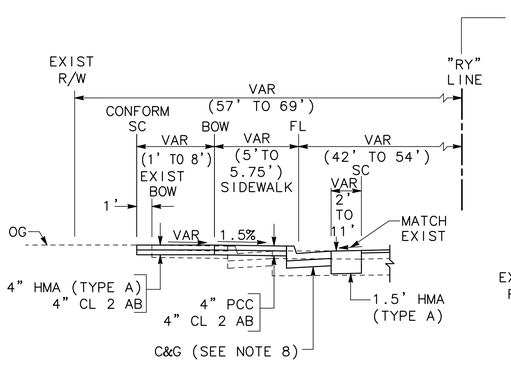
SACRAMENTO

RAILYARDS BOULEVARD
R–VALUE = 20
T.I. VALUE = 9

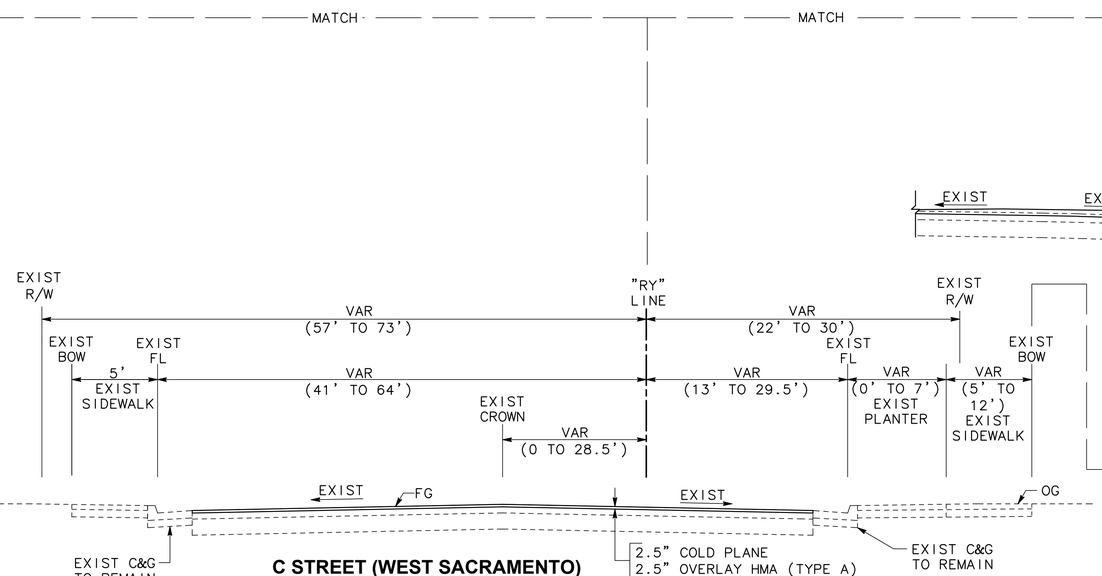
JIBOOM STREET
R–VALUE = 20
T.I. VALUE = 9

I–5 ON RAMP
R–VALUE = 20
T.I. VALUE = 10

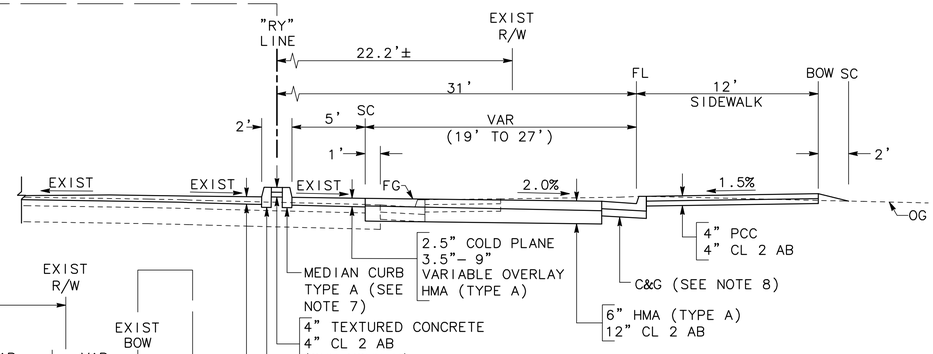
DESIGN SPEED:
RAILYARDS BOULEVARD – 25 MPH
JIBBOOM STREET – 25 MPH



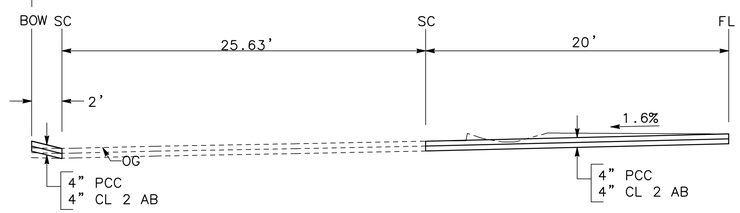
C STREET (WEST SACRAMENTO)
"RY" 17+37.54 TO 18+66.89



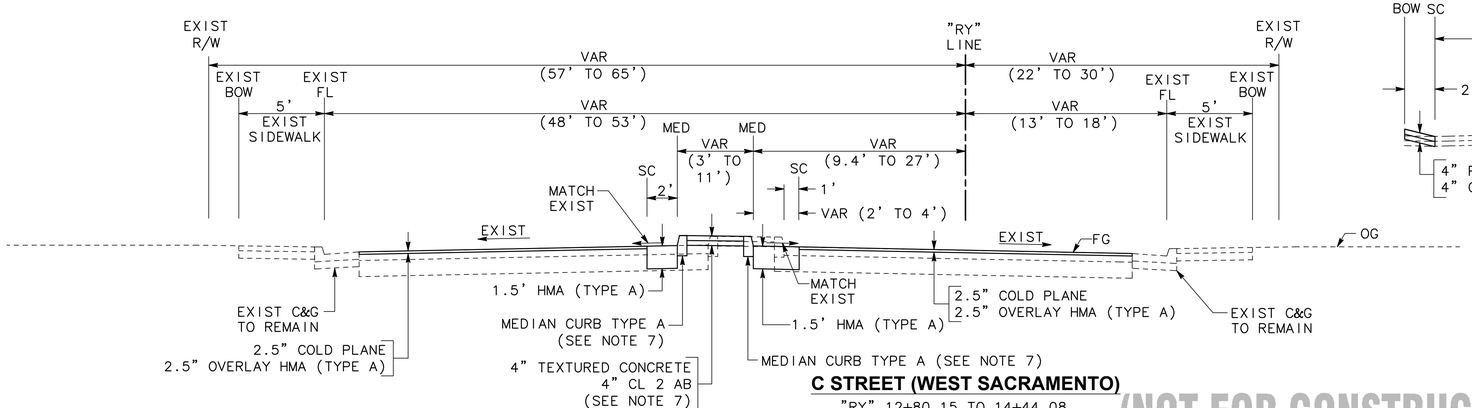
C STREET (WEST SACRAMENTO)
"RY" 14+44.08 TO 24+76.87



C STREET (WEST SACRAMENTO)
"RY" 23+16.71 TO 24+76.87



C STREET (WEST SACRAMENTO)
"RY" 24+37.76 TO 24+46.45



C STREET (WEST SACRAMENTO)
"RY" 12+80.15 TO 14+44.08

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-4

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297–B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

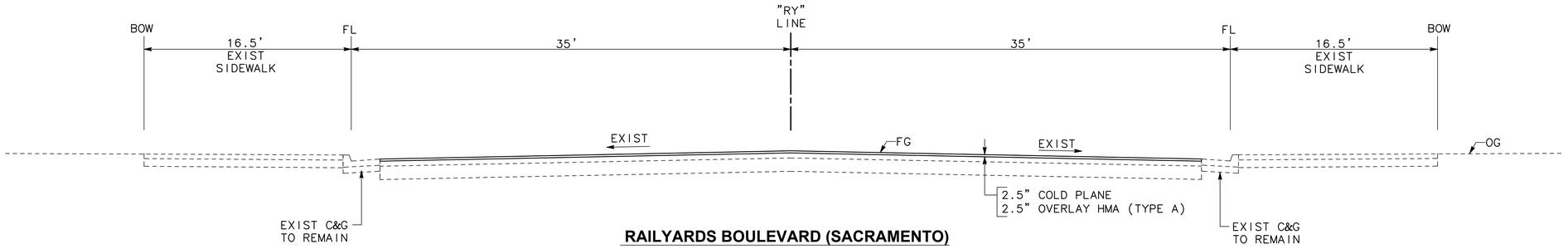
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12–31–26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

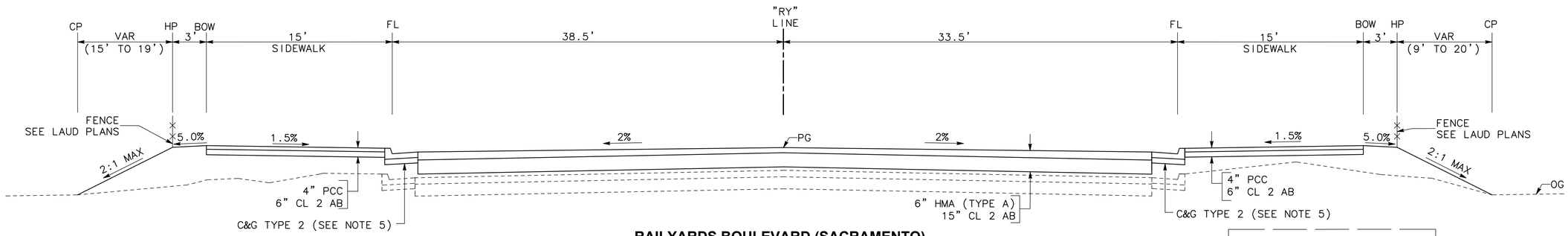
TYPICAL CROSS SECTIONS

T15136000

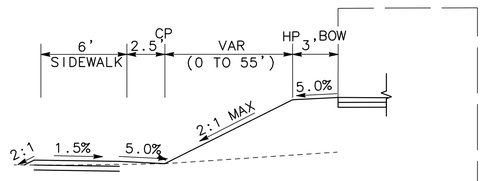
SHEET 4 OF 648



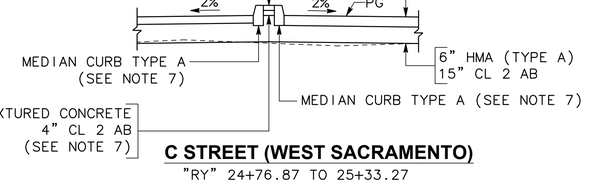
RAILYARDS BOULEVARD (SACRAMENTO)
"RY" 41+98.78 TO 44+49.46



RAILYARDS BOULEVARD (SACRAMENTO)
"RY" 38+00.24 EB TO 41+98.78

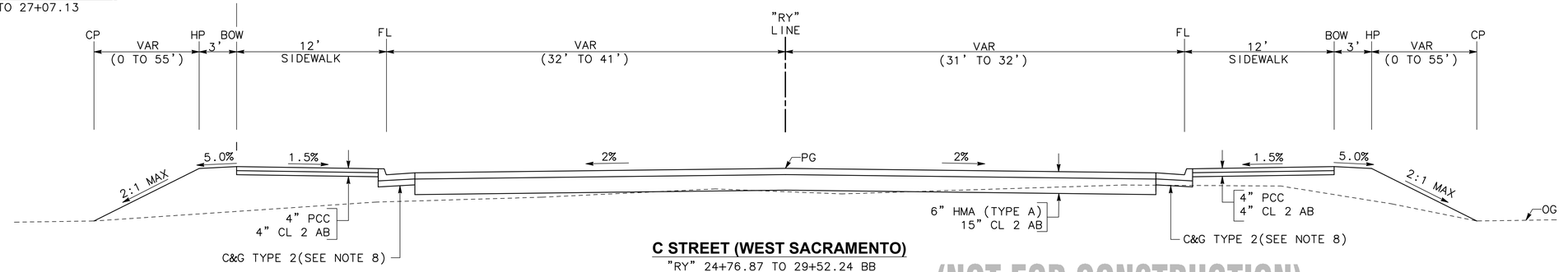


C STREET (WEST SACRAMENTO)
"RY" 25+26.19 TO 27+07.13



C STREET (WEST SACRAMENTO)
"RY" 24+76.87 TO 25+33.27

MATCH



C STREET (WEST SACRAMENTO)
"RY" 24+76.87 TO 29+52.24 BB

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-5

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

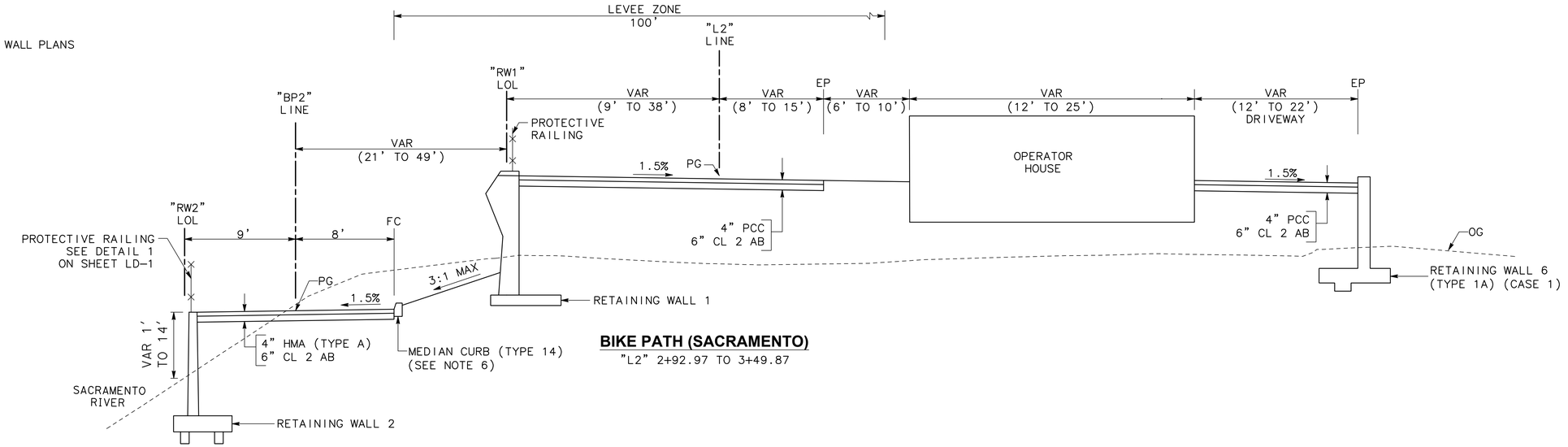
TYPICAL CROSS SECTIONS

T15136000

SHEET 5 OF 648

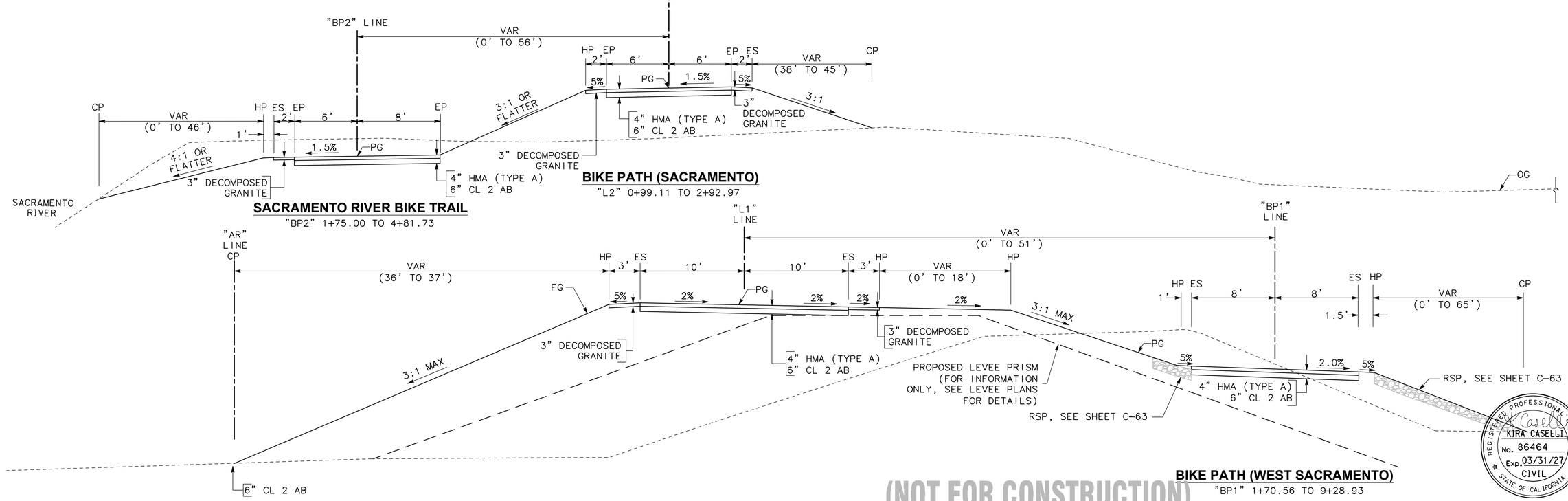
NOTE:

FOR RETAINING WALL PROFILES, SEE RETAINING WALL PLANS (RW–1 TO RW–12).



BIKE PATH (SACRAMENTO)
"L2" 2+92.97 TO 3+49.87

SACRAMENTO RIVER BIKE TRAIL
"BP2" 4+81.73 TO 5+53.55



SACRAMENTO RIVER BIKE TRAIL
"BP2" 1+75.00 TO 4+81.73

BIKE PATH (SACRAMENTO)
"L2" 0+99.11 TO 2+92.97

BIKE PATH (WEST SACRAMENTO)
"BP1" 1+70.56 TO 9+28.93

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-6

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297–B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

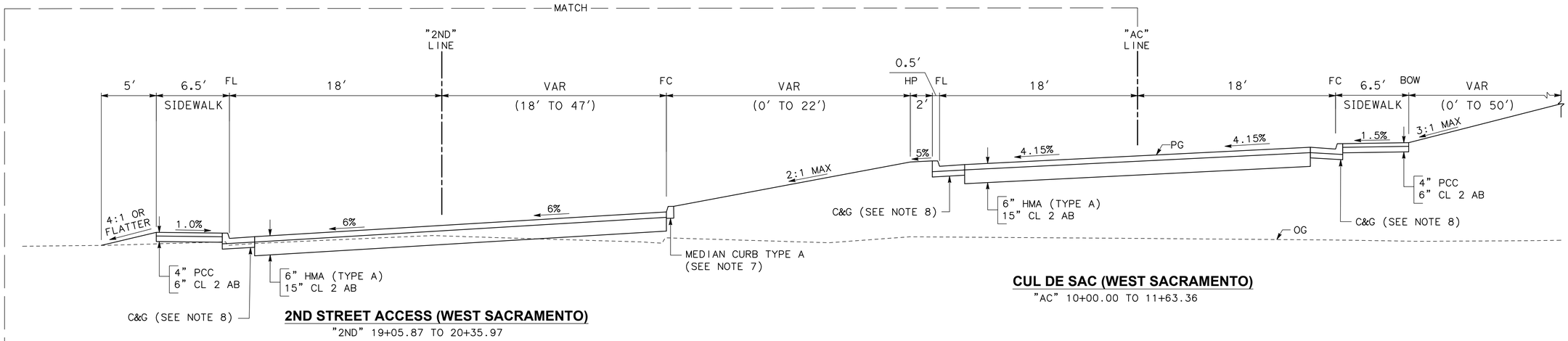
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12–31–26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TYPICAL CROSS SECTIONS

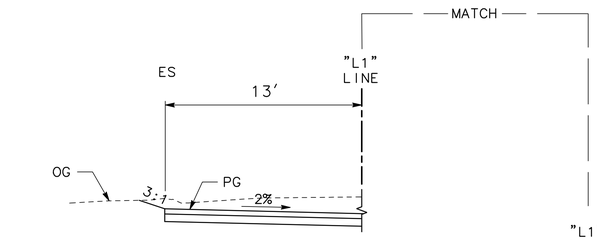
T15136000

SHEET 6 — OF — 648

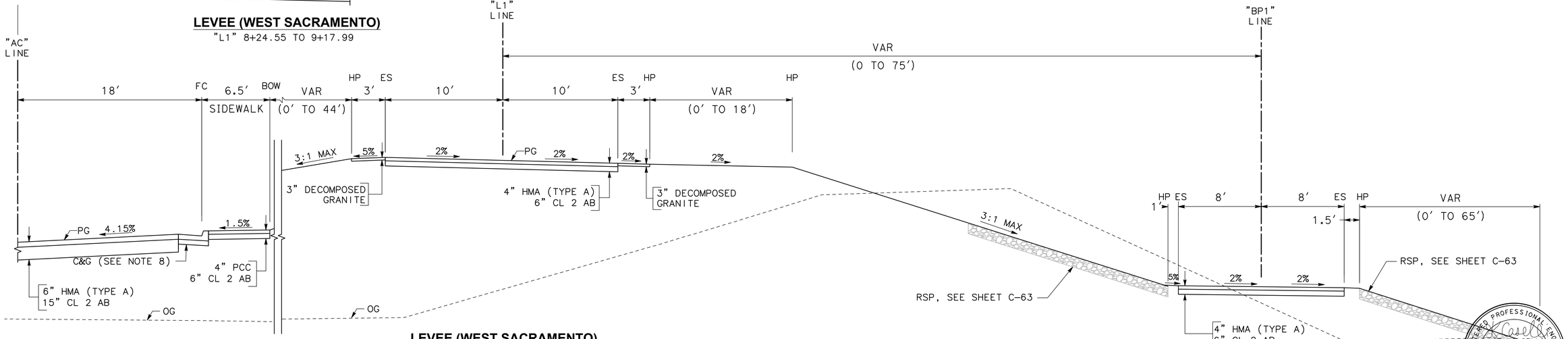


2ND STREET ACCESS (WEST SACRAMENTO)
"2ND" 19+05.87 TO 20+35.97

CUL DE SAC (WEST SACRAMENTO)
"AC" 10+00.00 TO 11+63.36



LEVEE (WEST SACRAMENTO)
"L1" 8+24.55 TO 9+17.99



CUL DE SAC (WEST SACRAMENTO)
"AC" 10+00.00 TO 11+63.36

LEVEE (WEST SACRAMENTO)
"L1" 5+77.97 TO 8+24.55

BIKE PATH (WEST SACRAMENTO)
"BP1" 1+70.56 TO 9+28.93

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-7

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

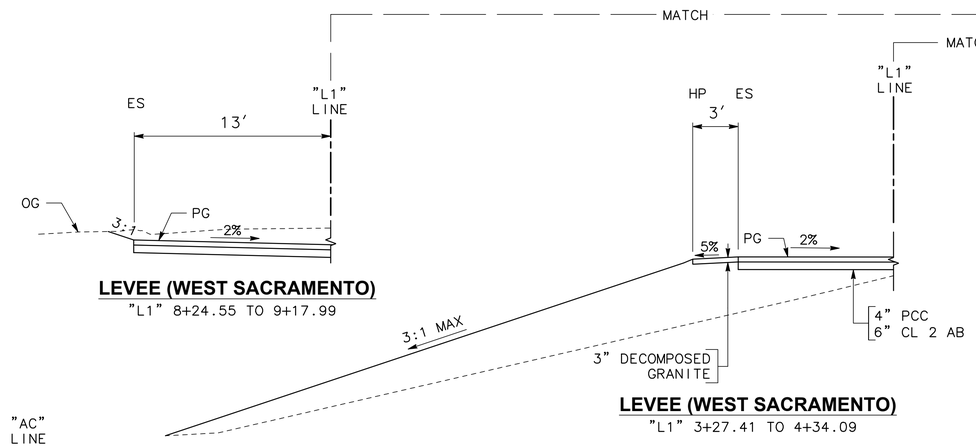
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TYPICAL CROSS SECTIONS

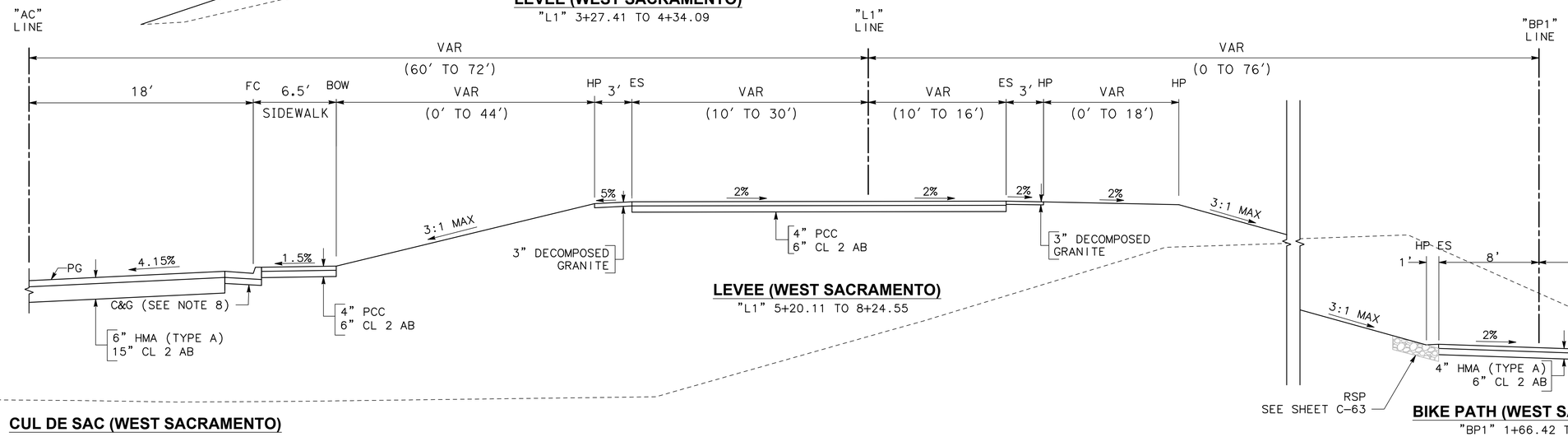
T15136000

SHEET 7 OF 648



LEVEE (WEST SACRAMENTO)
"L1" 8+24.55 TO 9+17.99

LEVEE (WEST SACRAMENTO)
"L1" 3+27.41 TO 4+34.09



CUL DE SAC (WEST SACRAMENTO)

LEVEE (WEST SACRAMENTO)
"L1" 5+20.11 TO 8+24.55

BIKE PATH (WEST SACRAMENTO)
"BP1" 1+66.42 TO 9+28.93

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-8

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

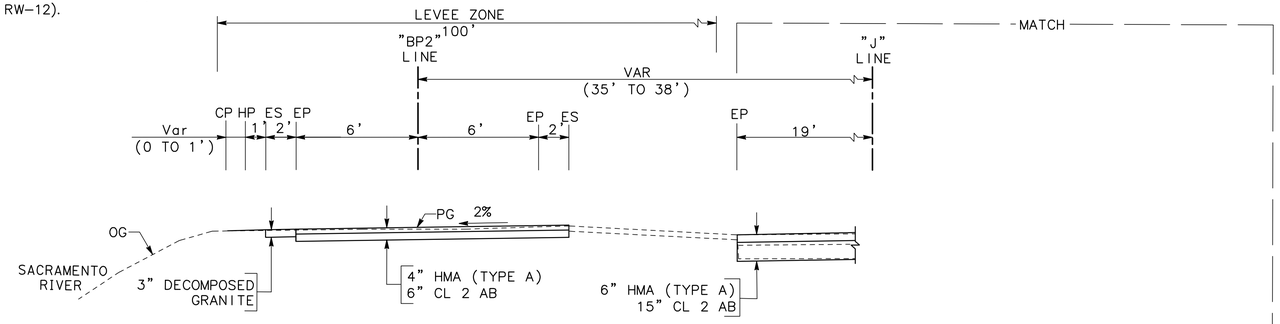
TYPICAL CROSS SECTIONS

T15136000

SHEET 8 OF 648

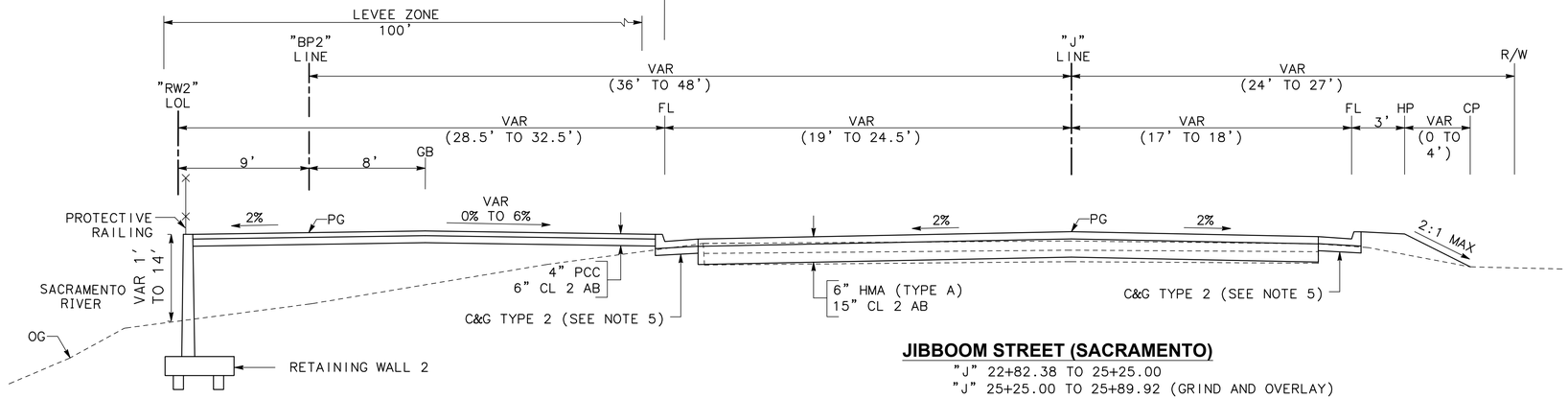
NOTE:

FOR RETAINING WALL PROFILES, SEE RETAINING WALL PLANS (RW-1 TO RW-12).



SACRAMENTO RIVER BIKE TRAIL

"BP2" 10+66.03 TO 10+99.31

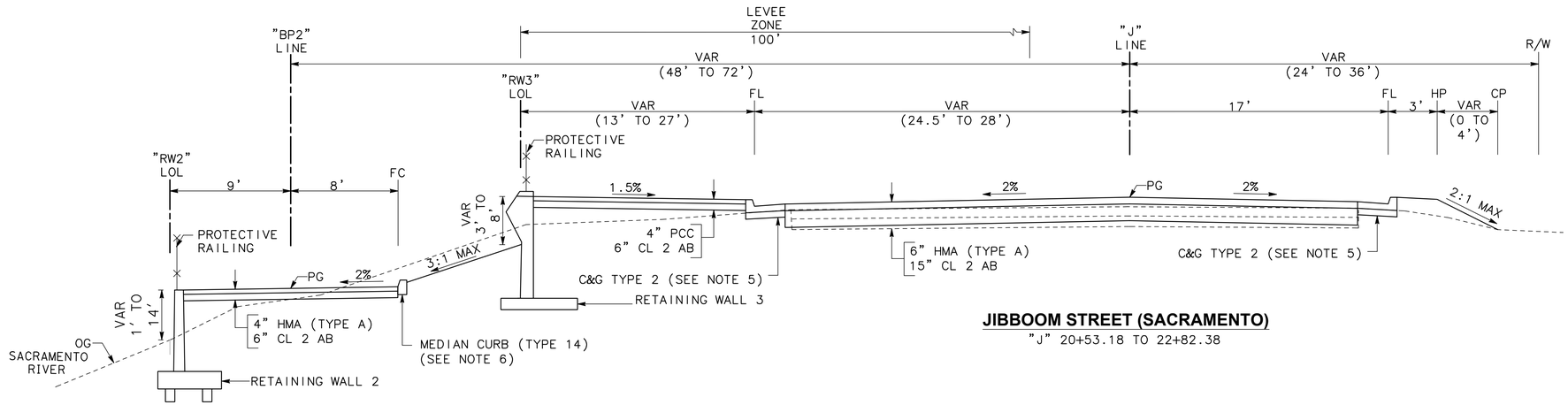


JIBBOOM STREET (SACRAMENTO)

"J" 22+82.38 TO 25+25.00
"J" 25+25.00 TO 25+89.92 (GRIND AND OVERLAY)

SACRAMENTO RIVER BIKE TRAIL

"BP2" 6+57.69 TO 10+18.08



JIBBOOM STREET (SACRAMENTO)

"J" 20+53.18 TO 22+82.38

SACRAMENTO RIVER BIKE TRAIL

"BP2" 6+57.69 TO 8+95.88

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-9

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

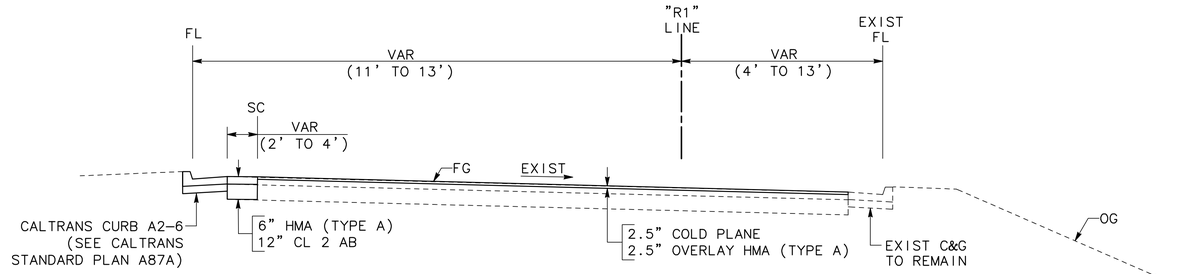
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TYPICAL CROSS SECTIONS

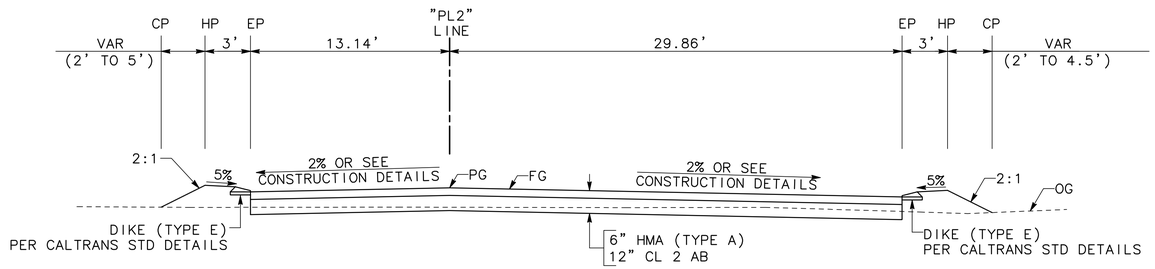
T15136000

SHEET 9 OF 648



I-5 ON-RAMP (SACRAMENTO)

"R1" STA 50+54.03 TO STA 55+88.82



PARKING LOT (WEST SACRAMENTO)

"PL2" 10+25.00 TO 11+64.11

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-10

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

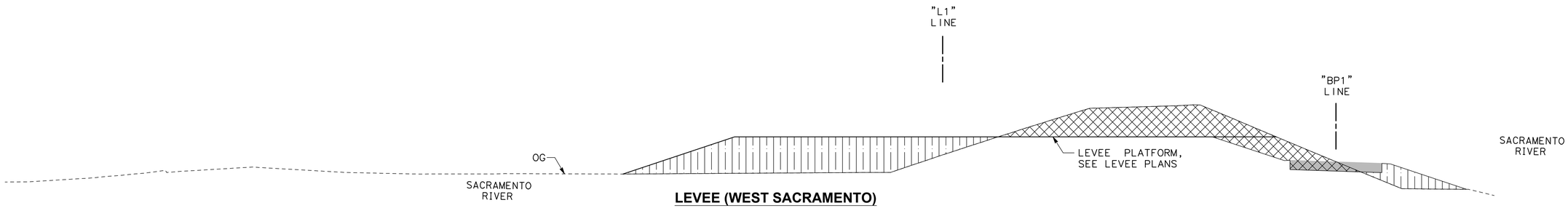
TYPICAL CROSS SECTIONS

T15136000

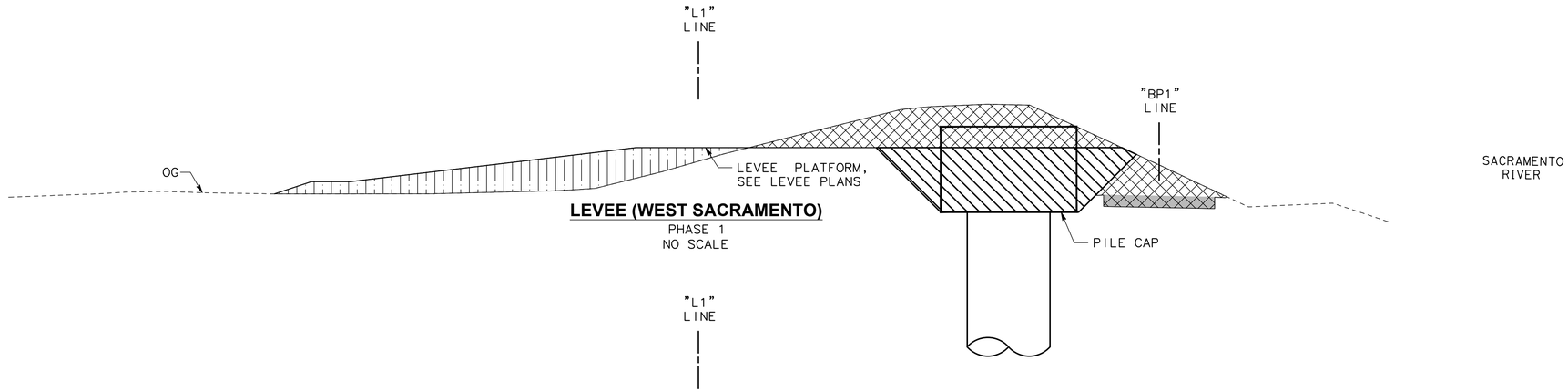
SHEET 10 OF 648

LEGEND:

- PHASE 1: ROADWAY EXCAVATION
- PHASE 1: STRUCTURAL EXCAVATION
- PHASE 1: LEVEE BACKFILL
- PAVEMENT SECTION



LEVEE (WEST SACRAMENTO)
PHASE 1
NO SCALE



LEVEE (WEST SACRAMENTO)
PHASE 1
NO SCALE

LEVEE (WEST SACRAMENTO)
PHASE 1
NO SCALE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-11

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TYPICAL CROSS SECTIONS

T15136000

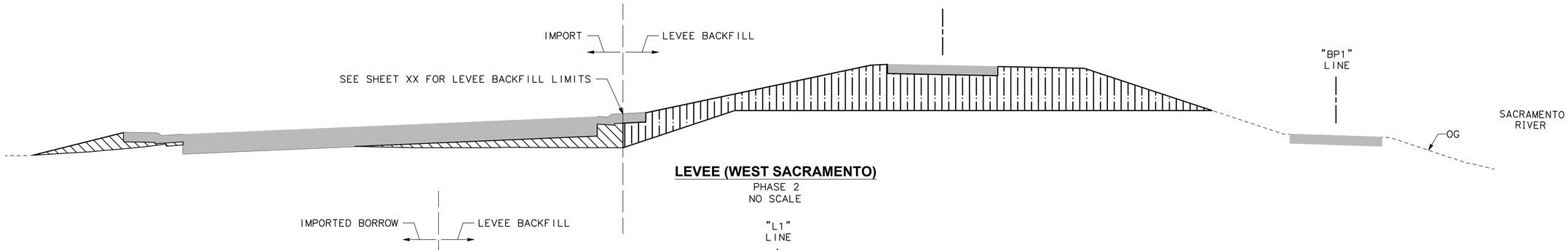
SHEET 11 — OF — 648

LEGEND:

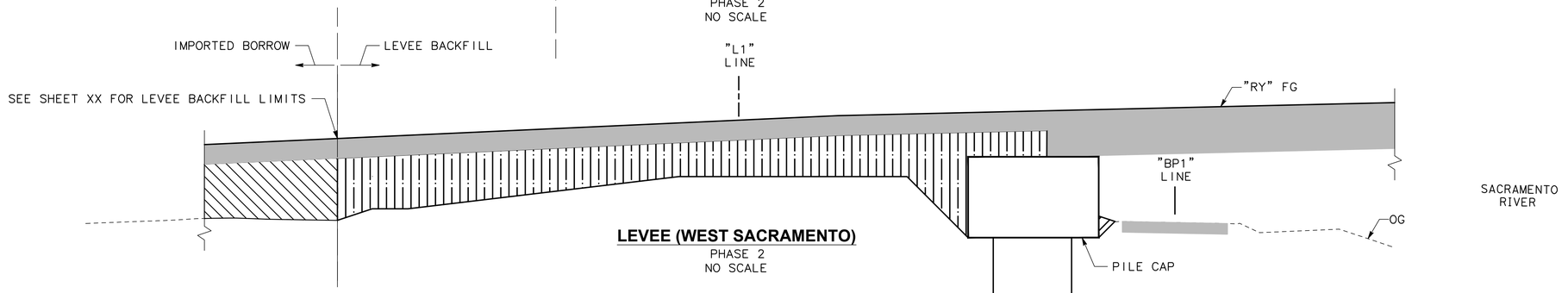
PHASE 2: LEVEE BACKFILL

PHASE 2: IMPORTED BORROW

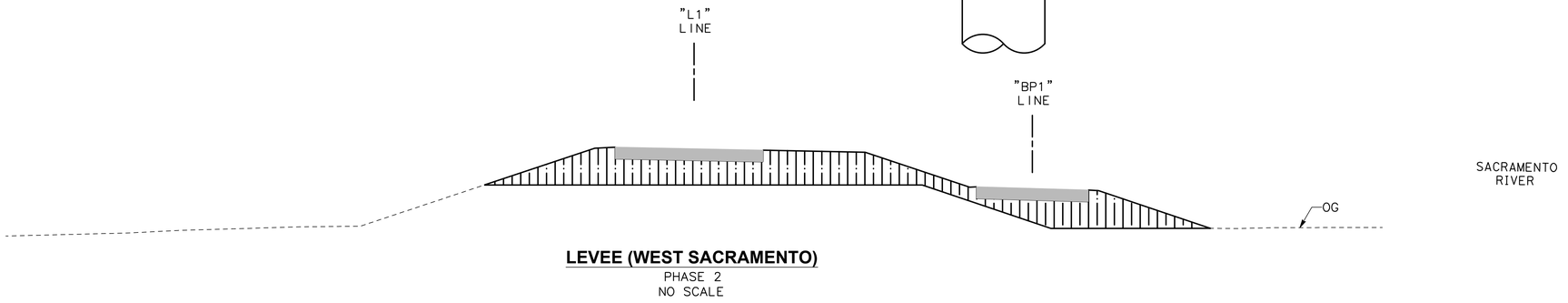
PAVEMENT SECTION



LEVEE (WEST SACRAMENTO)
PHASE 2
NO SCALE



LEVEE (WEST SACRAMENTO)
PHASE 2
NO SCALE



LEVEE (WEST SACRAMENTO)
PHASE 2
NO SCALE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-12

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

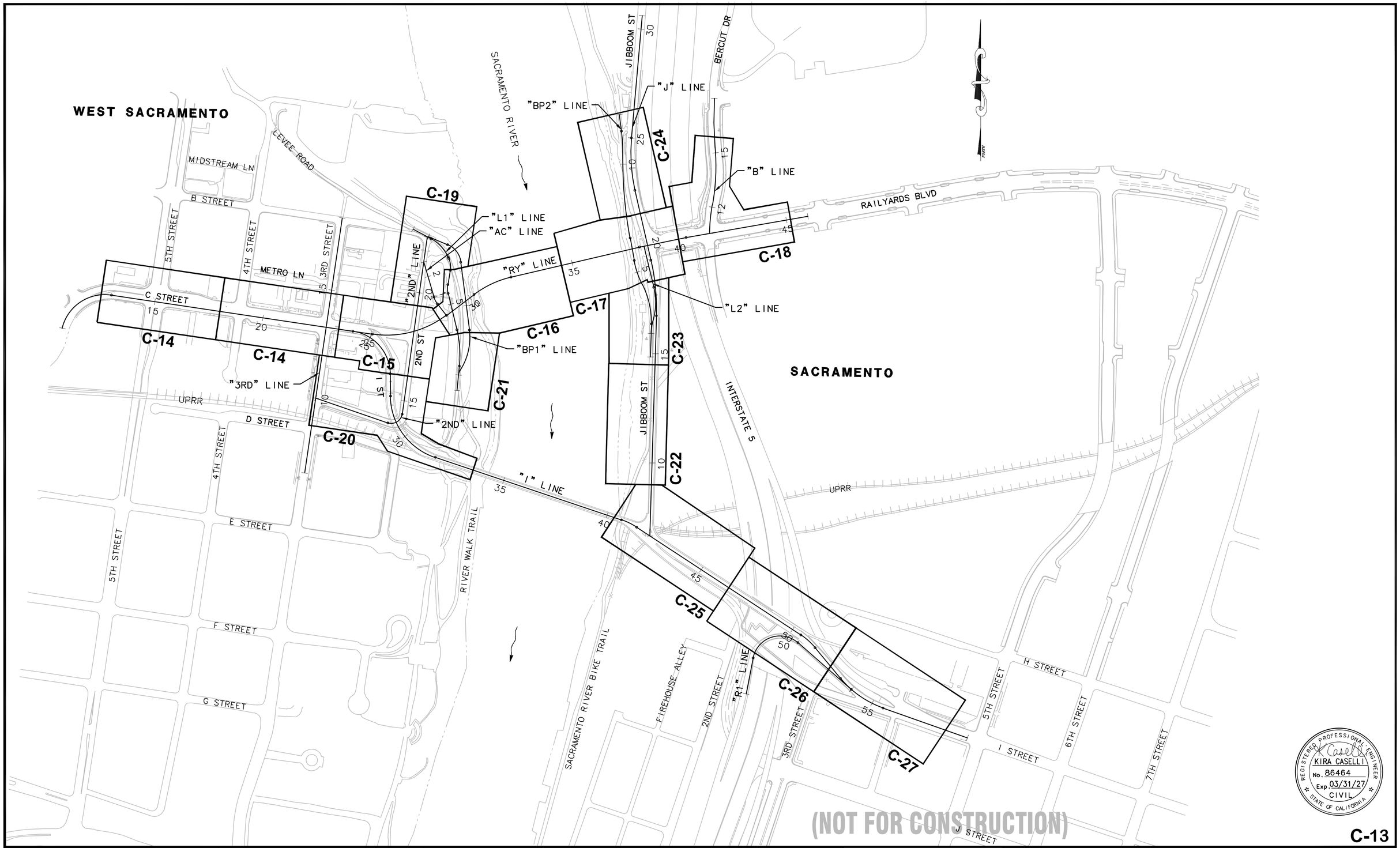
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TYPICAL CROSS SECTIONS

T15136000

SHEET 12 — OF — 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-13

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=200'
VERT. 1"=200'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

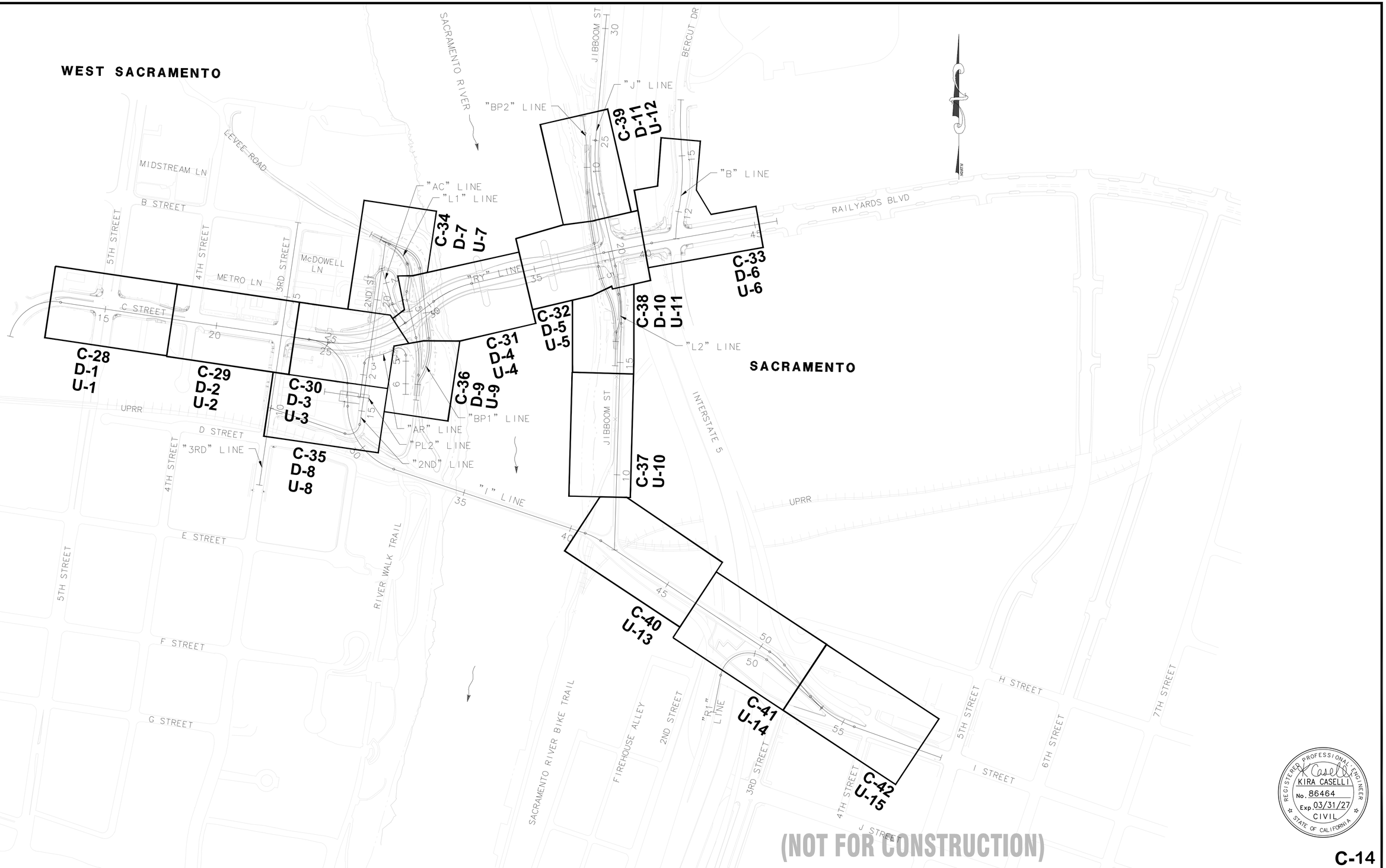
DRAWN BY: M. HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
KEYMAP
DEMOLITION PLANS

T15136000

SHEET 13 OF 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-14

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=200'
VERT. 1"=200'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
KEYMAP LAYOUT

T15136000

SHEET 14 OF 648

GENERAL NOTES:

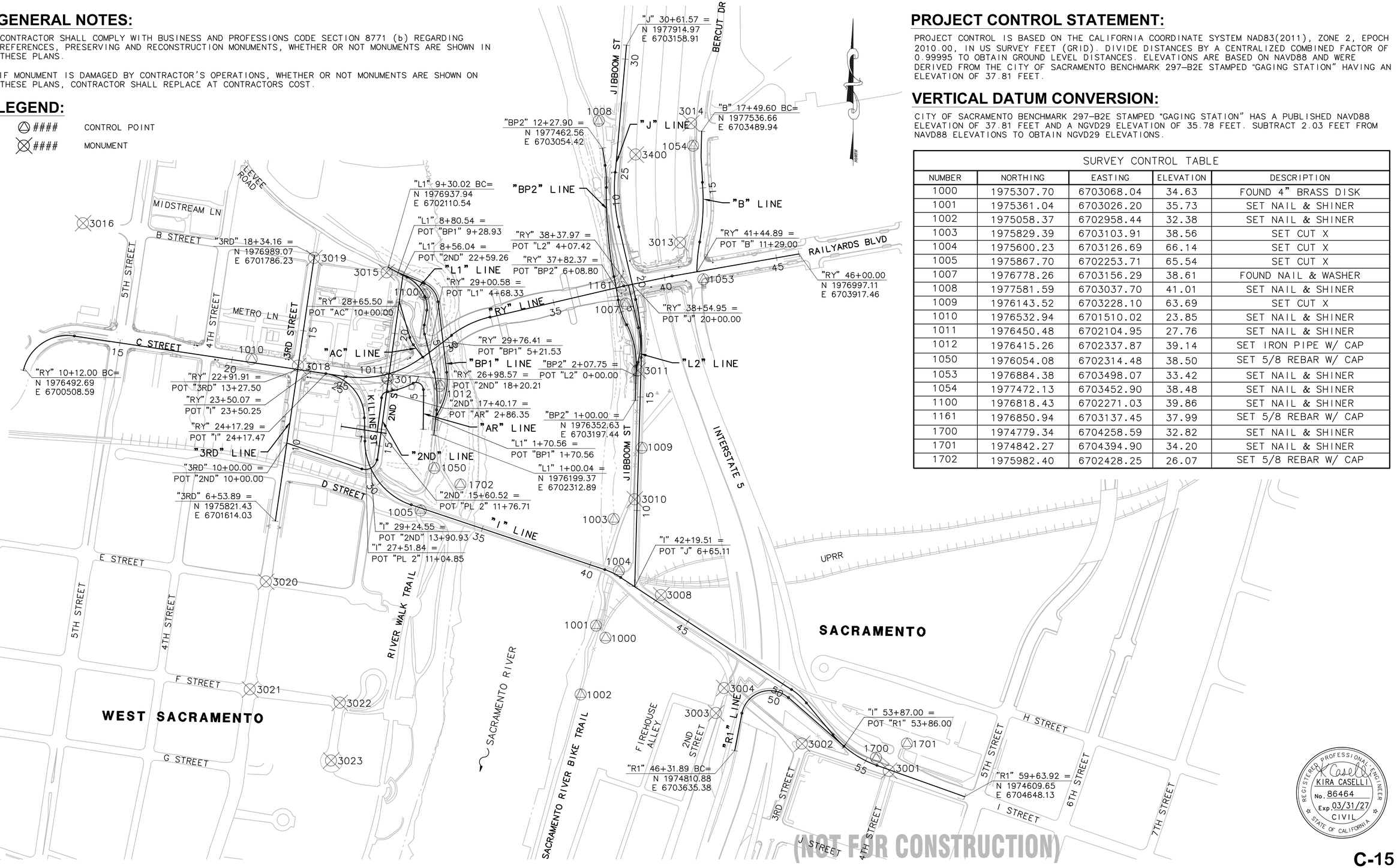
1. CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771 (b) REGARDING REFERENCES, PRESERVING AND RECONSTRUCTION MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN THESE PLANS.

2. IF MONUMENT IS DAMAGED BY CONTRACTOR'S OPERATIONS, WHETHER OR NOT MONUMENTS ARE SHOWN ON THESE PLANS, CONTRACTOR SHALL REPLACE AT CONTRACTORS COST.

LEGEND:

△ #### CONTROL POINT

⊗ #### MONUMENT



PROJECT CONTROL STATEMENT:

PROJECT CONTROL IS BASED ON THE CALIFORNIA COORDINATE SYSTEM NAD83(2011), ZONE 2, EPOCH 2010.00, IN US SURVEY FEET (GRID). DIVIDE DISTANCES BY A CENTRALIZED COMBINED FACTOR OF 0.99995 TO OBTAIN GROUND LEVEL DISTANCES. ELEVATIONS ARE BASED ON NAVD88 AND WERE DERIVED FROM THE CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAVING AN ELEVATION OF 37.81 FEET.

VERTICAL DATUM CONVERSION:

CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET. SUBTRACT 2.03 FEET FROM NAVD88 ELEVATIONS TO OBTAIN NGVD29 ELEVATIONS.

SURVEY CONTROL TABLE

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	1975307.70	6703068.04	34.63	FOUND 4" BRASS DISK
1001	1975361.04	6703026.20	35.73	SET NAIL & SHINER
1002	1975058.37	6702958.44	32.38	SET NAIL & SHINER
1003	1975829.39	6703103.91	38.56	SET CUT X
1004	1975600.23	6703126.69	66.14	SET CUT X
1005	1975867.70	6702253.71	65.54	SET CUT X
1007	1976778.26	6703156.29	38.61	FOUND NAIL & WASHER
1008	1977581.59	6703037.70	41.01	SET NAIL & SHINER
1009	1976143.52	6703228.10	63.69	SET CUT X
1010	1976532.94	6701510.02	23.85	SET NAIL & SHINER
1011	1976450.48	6702104.95	27.76	SET NAIL & SHINER
1012	1976415.26	6702337.87	39.14	SET IRON PIPE W/ CAP
1050	1976054.08	6702314.48	38.50	SET 5/8 REBAR W/ CAP
1053	1976884.38	6703498.07	33.42	SET NAIL & SHINER
1054	1977472.13	6703452.90	38.48	SET NAIL & SHINER
1100	1976818.43	6702271.03	39.86	SET NAIL & SHINER
1161	1976850.94	6703137.45	37.99	SET 5/8 REBAR W/ CAP
1700	1974779.34	6704258.59	32.82	SET NAIL & SHINER
1701	1974842.27	6704394.90	34.20	SET NAIL & SHINER
1702	1975982.40	6702428.25	26.07	SET 5/8 REBAR W/ CAP

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-15

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297–B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=200'
VERT. 1"=200'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

PROJECT CONTROL

T15136000

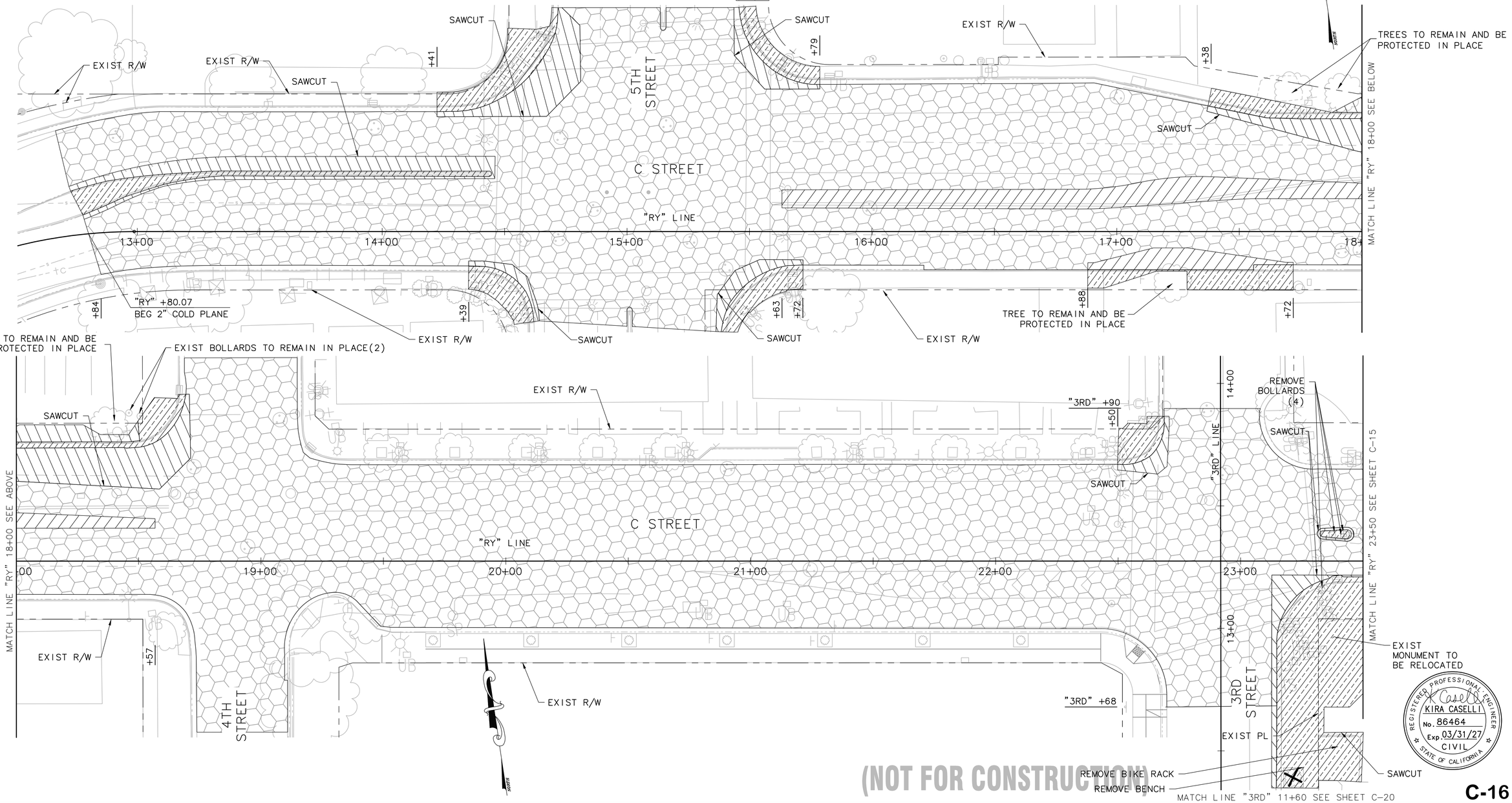
SHEET 15 — OF — 648

GENERAL NOTES:

1. ALL EXISTING FEATURES TO REMAIN UNLESS OTHERWISE NOTED.
2. SEE DRAINAGE AND UTILITY SHEETS FOR EXISTING UTILITY INFORMATION.
3. SEE SIGNING AND STRIPING SHEETS FOR SIGN REMOVAL.
4. ALL STATION AND OFFSET CALLOUTS REFERENCE THE "RY" LINE UNLESS OTHERWISE NOTED.
5. REFER TO CITY TREE PRESERVATION PROGRAM FOR TREE REMOVAL PROTECTION GUIDELINES AND DETAILS.
6. REFER TO SB 1383 FOR DISPOSAL OF ORGANIC WASTE.
7. REFER TO ELECTRICAL PLANS FOR STREETLIGHT AND SIGNAL REMOVALS.

LEGEND:

- ROADWAY EXCAVATION
- SAWCUT LINE
- EXISTING R/W
- EXISTING PL
- 2.5" COLD PLANE AC PAVEMENT
- REMOVE BRIDGE
- REMOVE TREE
- REMOVE FENCE
- REMOVE CONCRETE



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-16

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

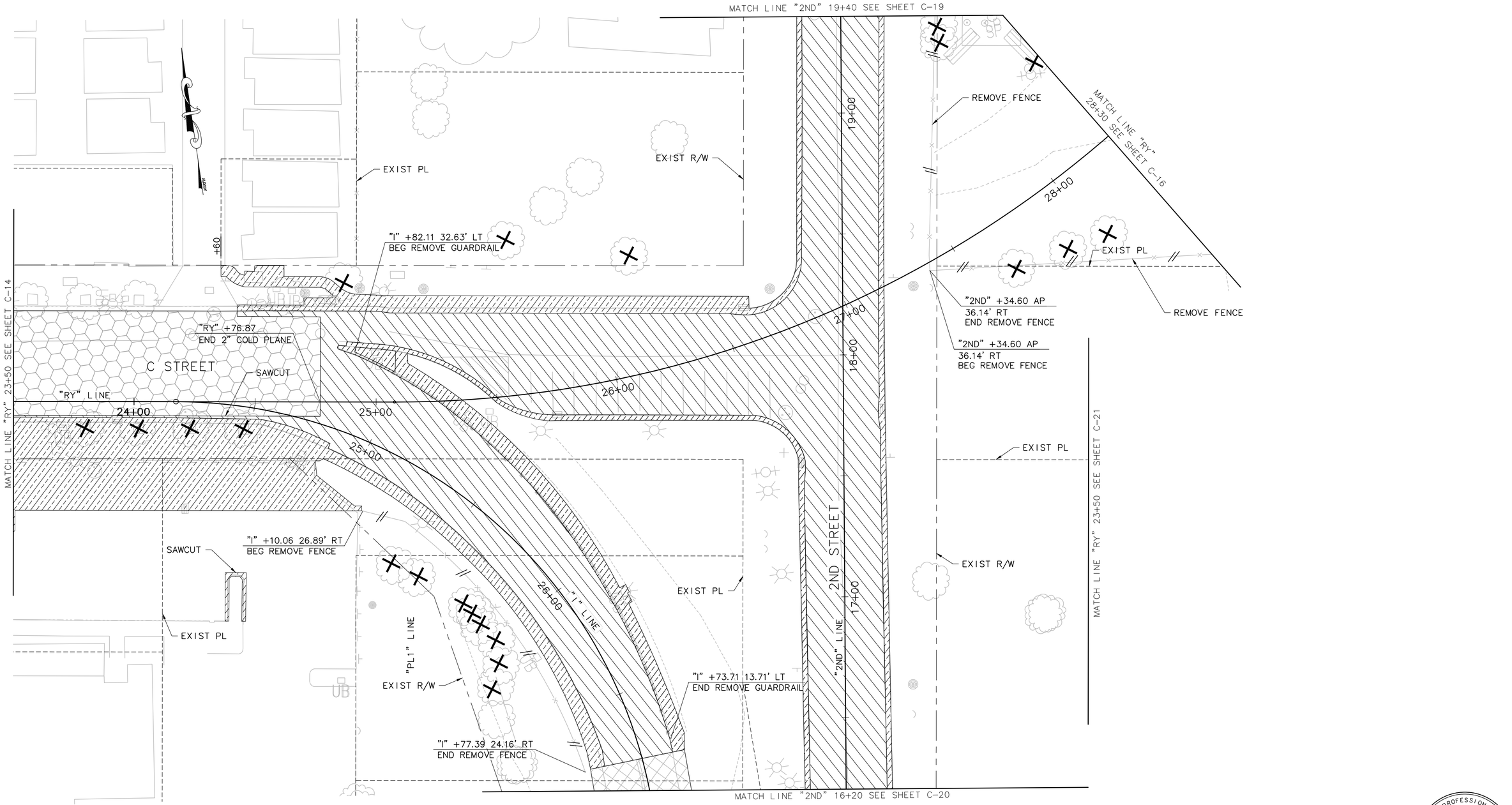
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 16 OF 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-17

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

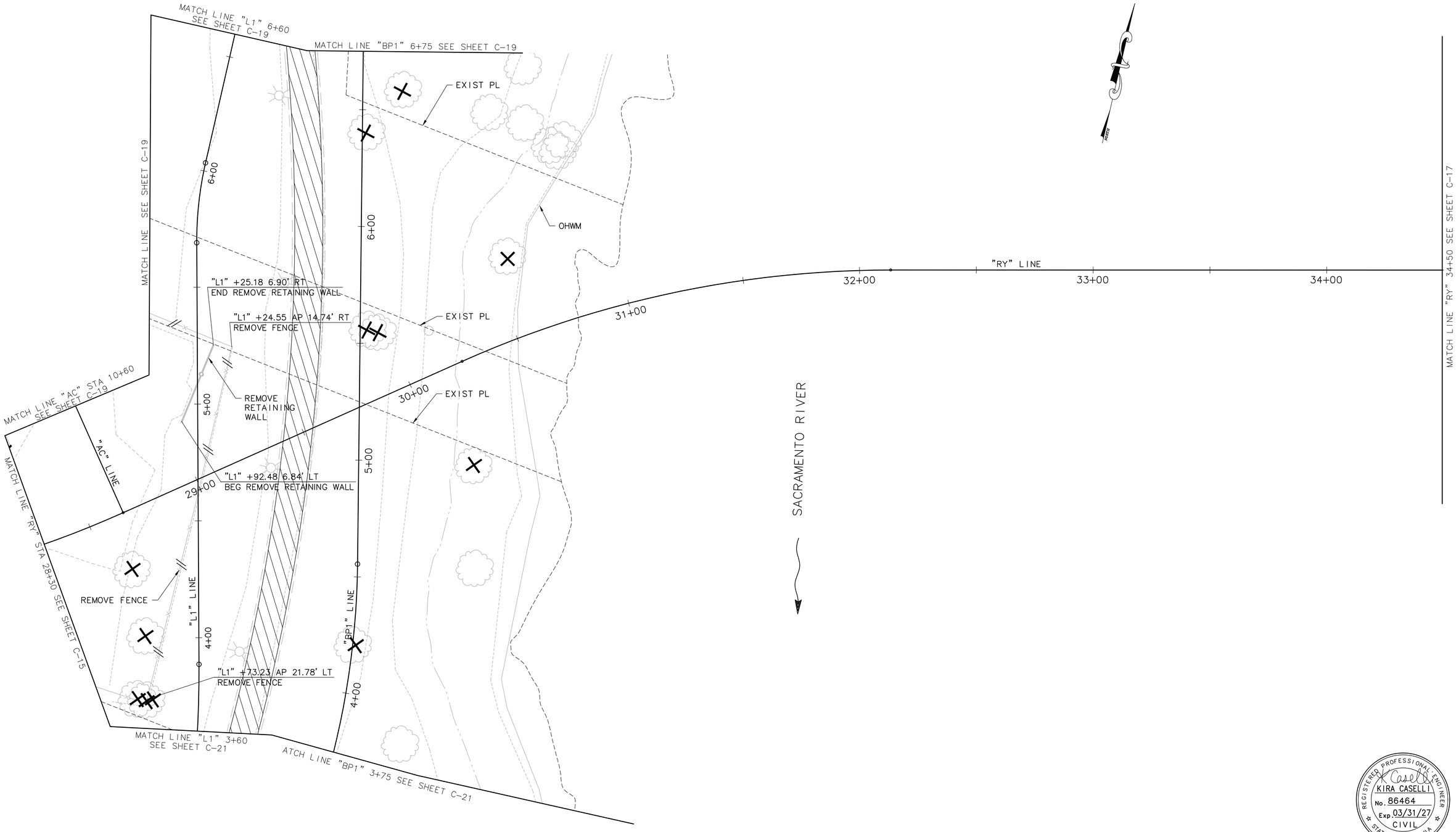
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 17 OF 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-18

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 18 — OF — 648

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-19

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

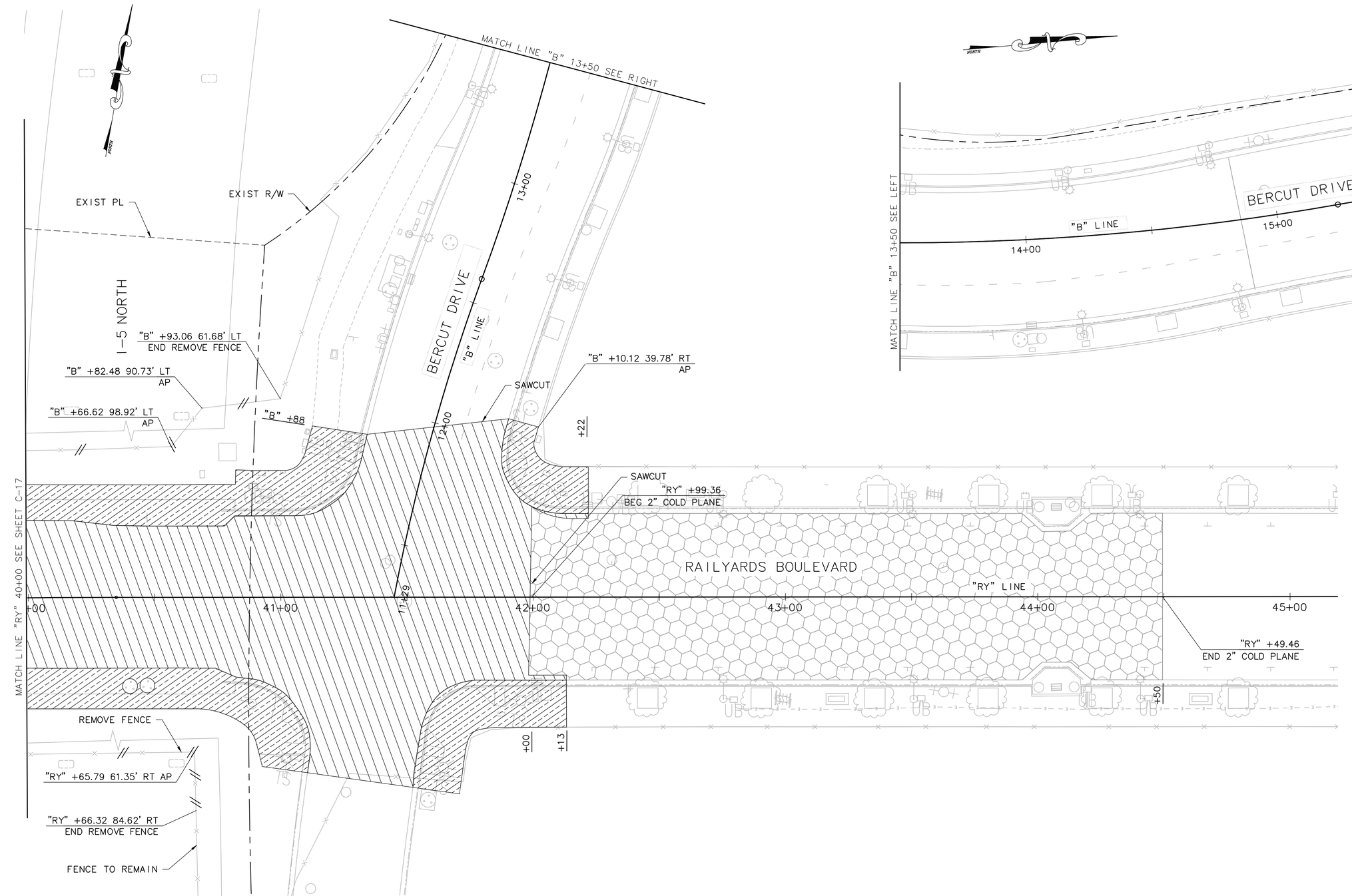
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 19 OF 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-20

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
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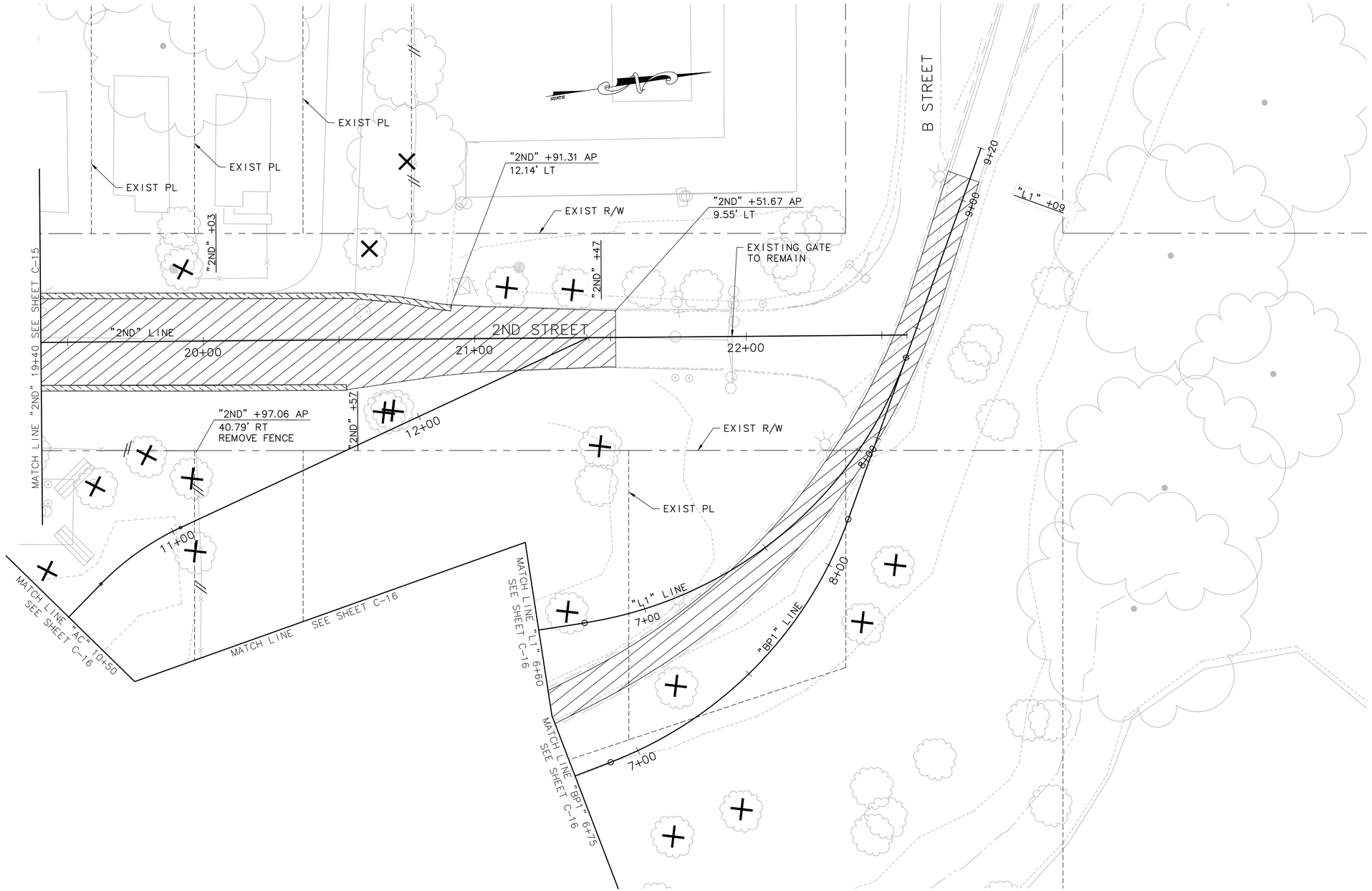
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 20 OF 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-21

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
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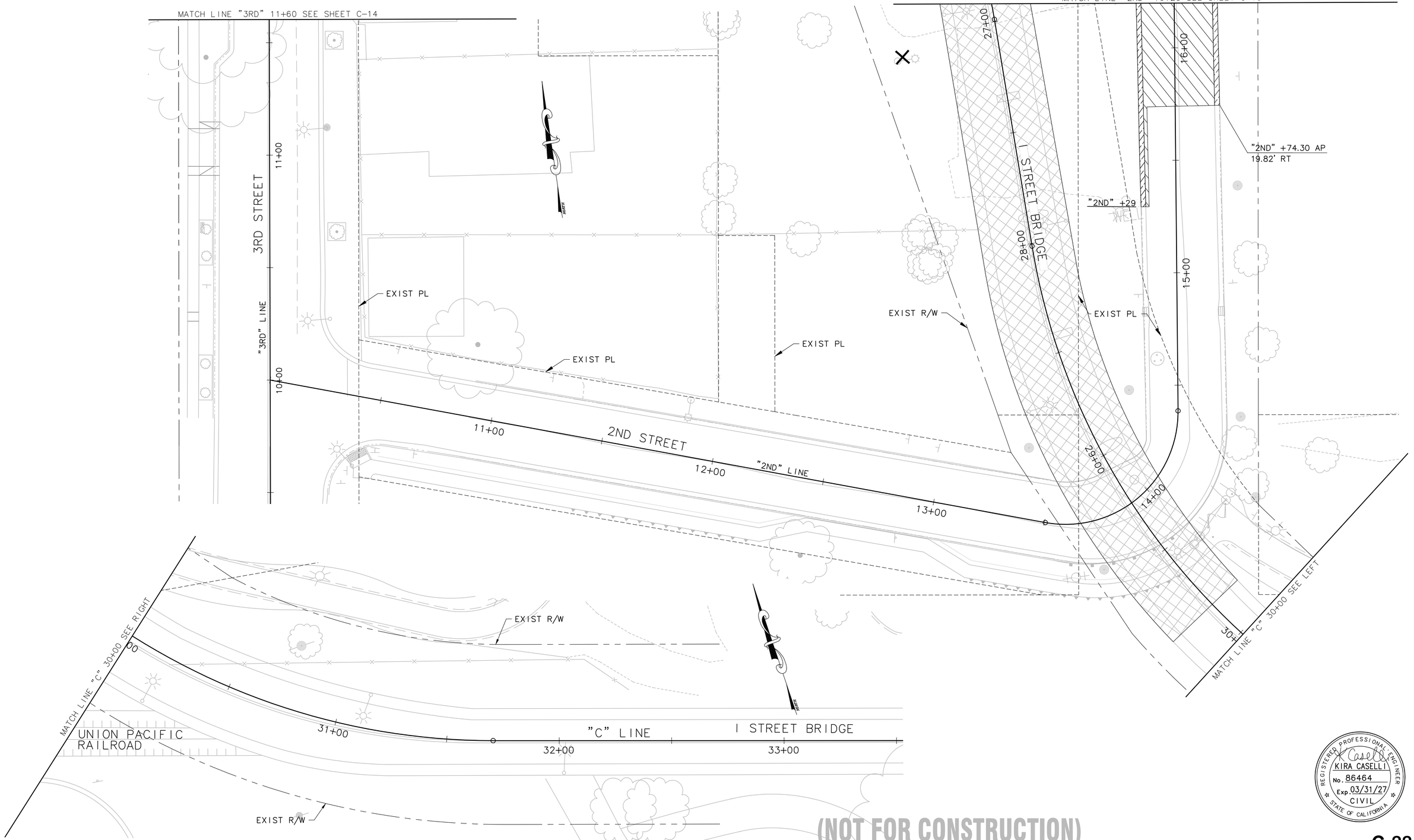
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 21 OF 648



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C-22

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
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FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

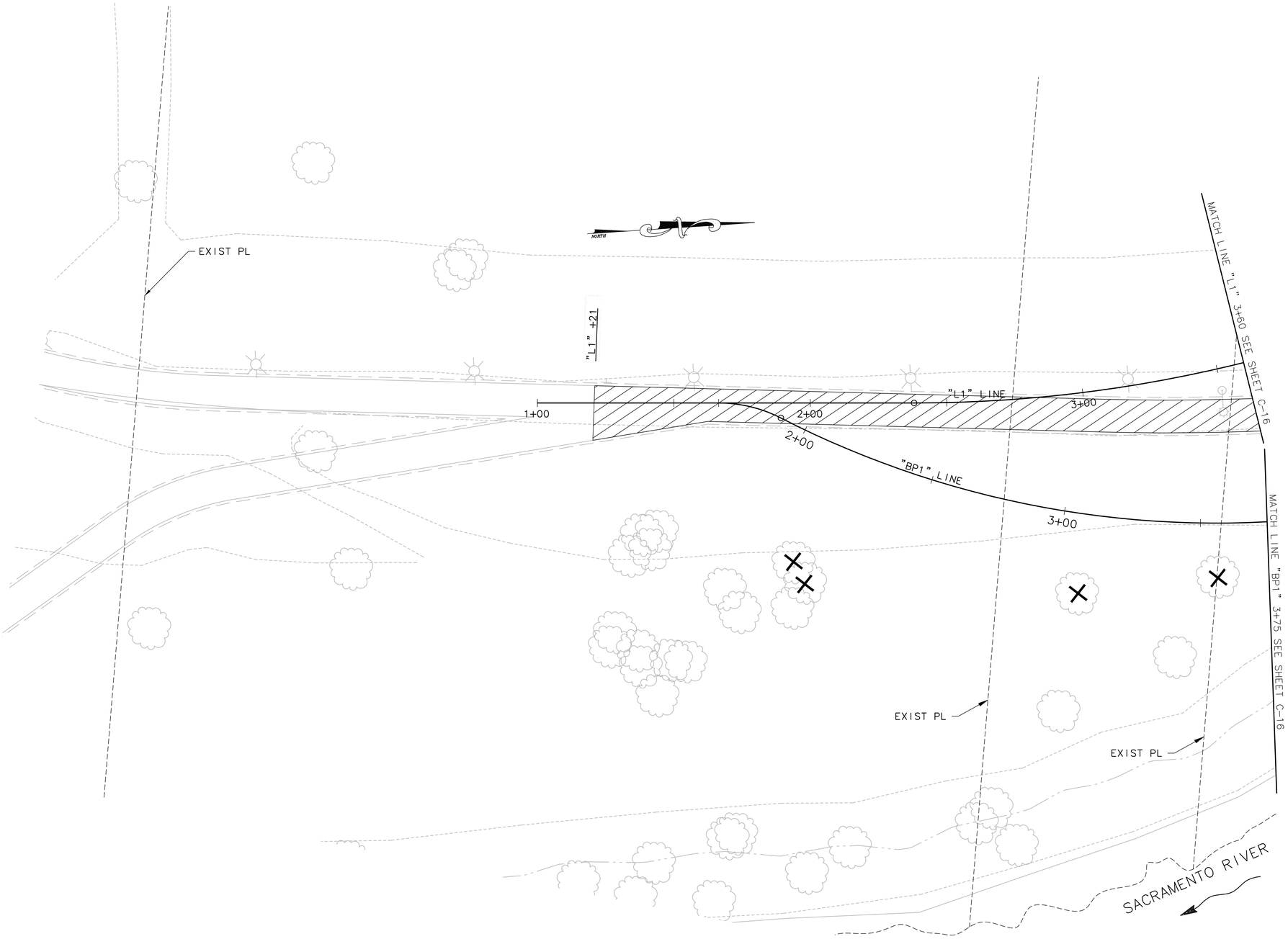
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 22 OF 648



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KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

C-23

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

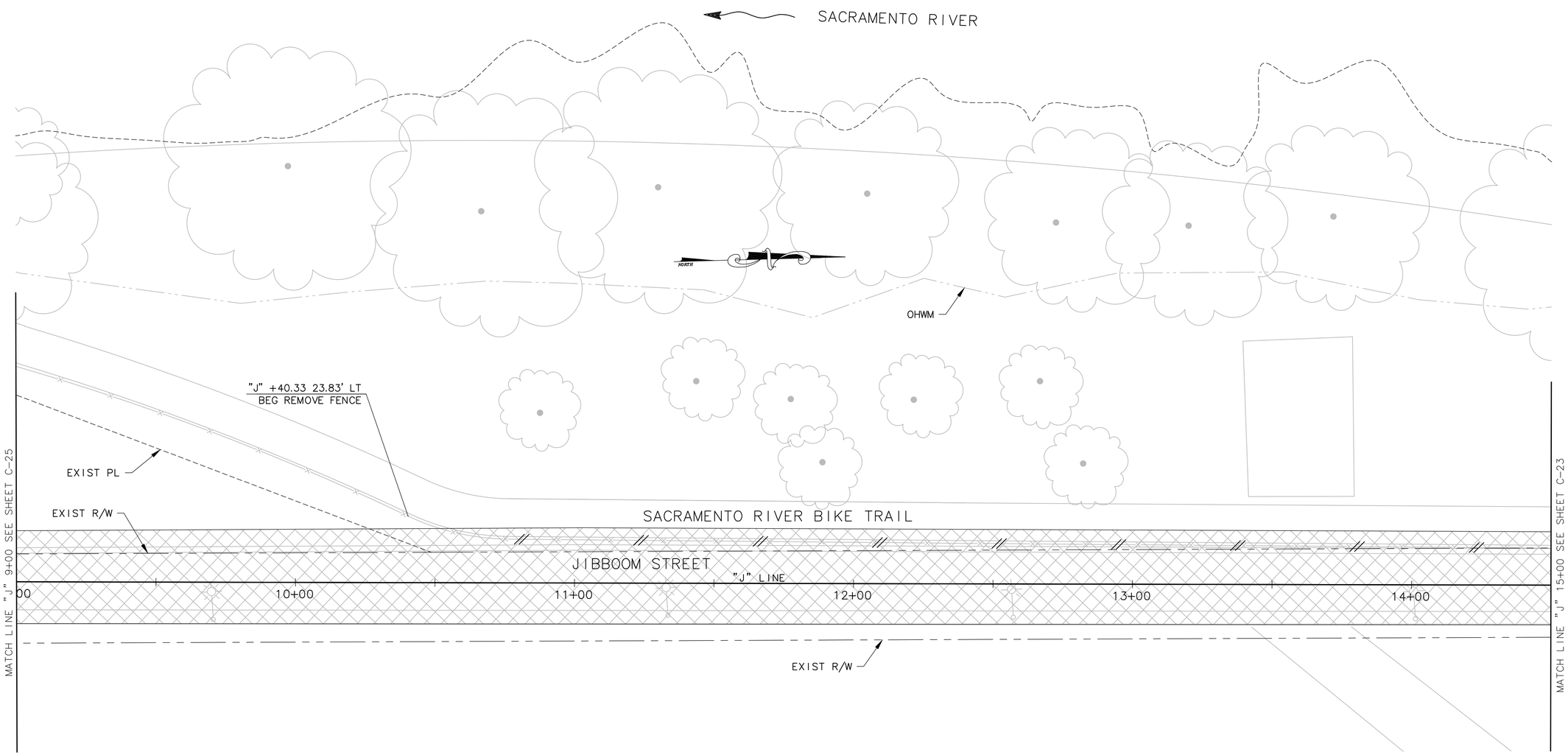
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 23 OF 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-24

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

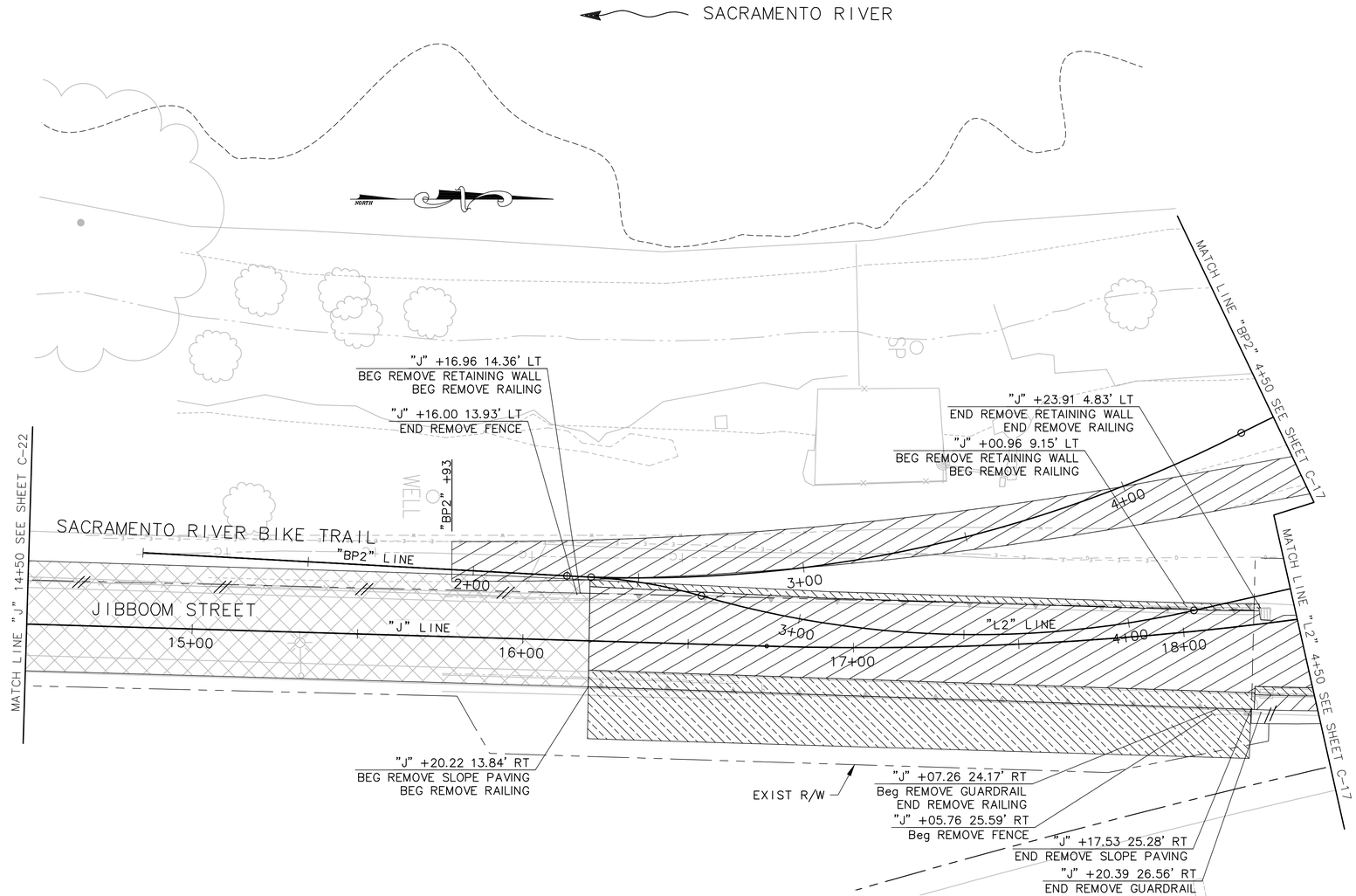
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 24 — OF — 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-25

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "CAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

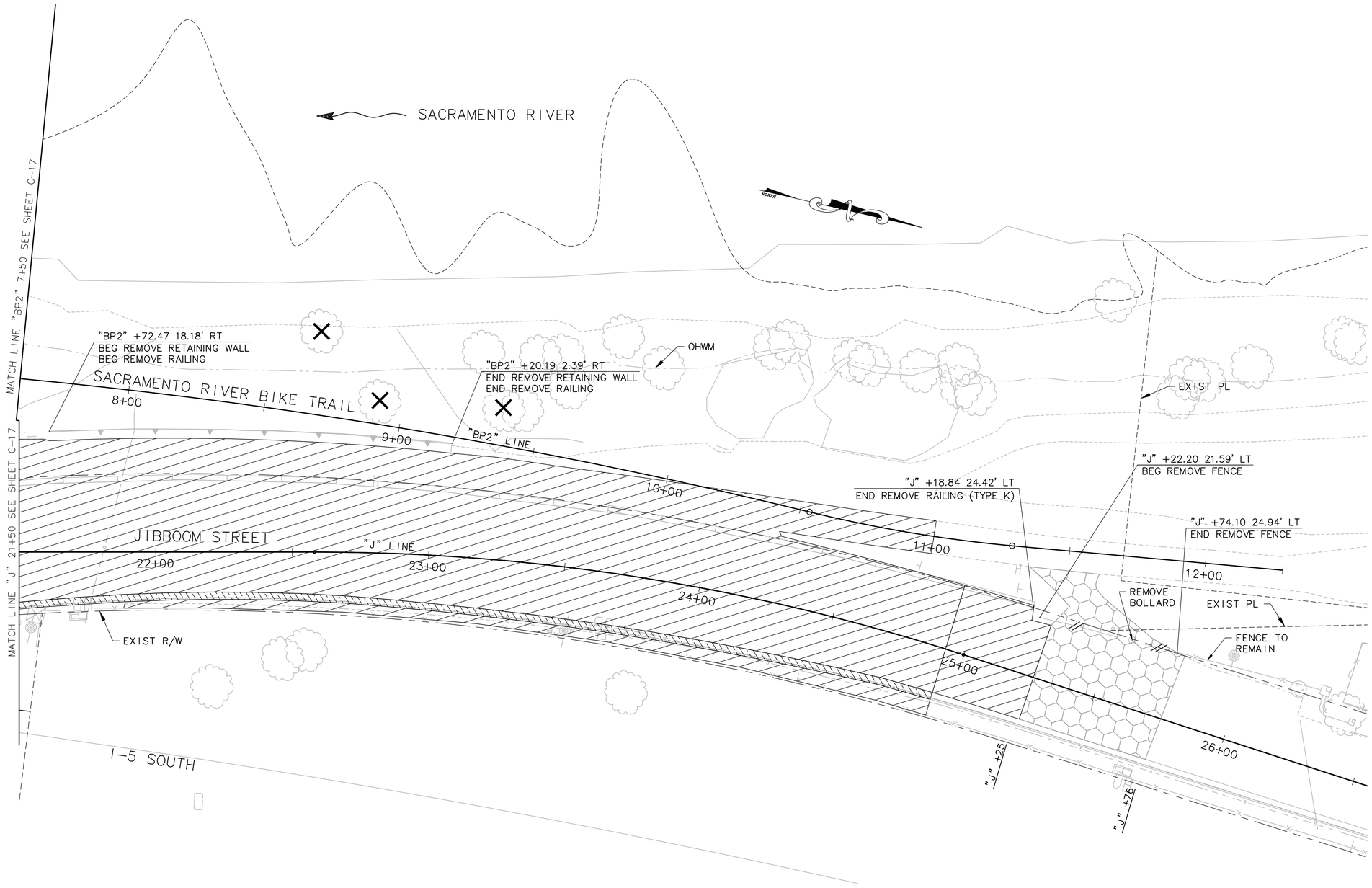
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 25 OF 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-26

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

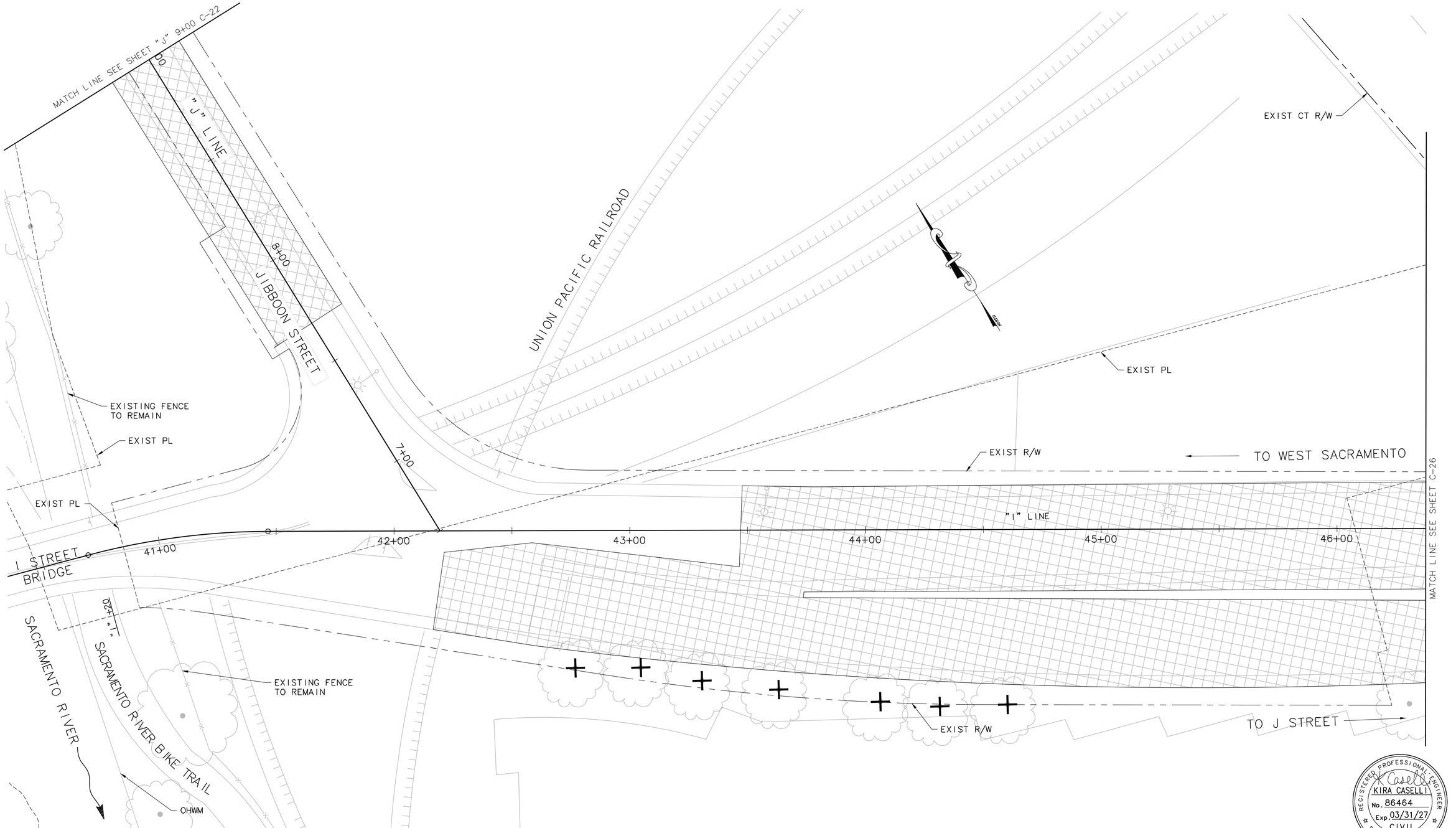
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 26 — OF — 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-27

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 27 — OF — 648

EXIST CT R/W

EXIST PL

TO J STREET OFF RAMP

I-5 SOUTH

I-5 NORTH

EXIST CT R/W

TO I-5 NORTH

"I" +13.21 105.08' LT
END REMOVE RAILING

EXIST PL

"I" +24

EXIST PL

"I" +67.31 26.39' LT
BEG REMOVE GUARDRAIL
BEG REMOVE RAILING

"I" +73.12 28.13' LT
END REMOVE GUARDRAIL

"I" +18.29 34.27' LT
END REMOVE RAILING

"I" +76.07 18.51' LT
BEG REMOVE RAILING

MATCH LINE SEE SHEET C-25

"I" LINE

I STREET

47+00

48+00

49+00

50+00

51+00

52+00

"I" +20.04 24.45' RT
BEG REMOVE RAILING

"I" +28.92 20.85' RT
BEG REMOVE FENCE
BEG REMOVE RAILING

TO J STREET

TO I-5 SOUTH

"R1" LINE

50+00

51+00

52+00

"R1" +54

SAWCUT

MATCH LINE SEE SHEET C-27

EXISTING FENCE
TO REMAIN

"I" +40.60 120.89' RT
END REMOVE FENCE
END REMOVE RAILING

"I" +32.00 120.03' RT
END REMOVE RAILING

49+00

EXISTING FENCE
TO REMAIN

I STREET

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-28

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS

UNDER THE SUPERVISION OF:
ZACH SIVIGLIA

R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 28 — OF — 648

SACRAMENTO VALLEY STATION

NORTH

MATCH LINE SEE SHEET C-26

TO I-5 NORTH

SAWCUT

"I" LINE

"I" +40

53+00

53+00

TO WEST SACRAMENTO

TO I-5 SOUTH

54+00

"R1" LINE

55+00

56+00

57+00

58+00

I STREET

"R1" +99

EXISTING FENCE TO REMAIN

"R1" +88

4TH STREET

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-29

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
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FIELD BOOK

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
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MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
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EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DEMOLITION PLANS

T15136000

SHEET 29 OF 648

GENERAL NOTES:

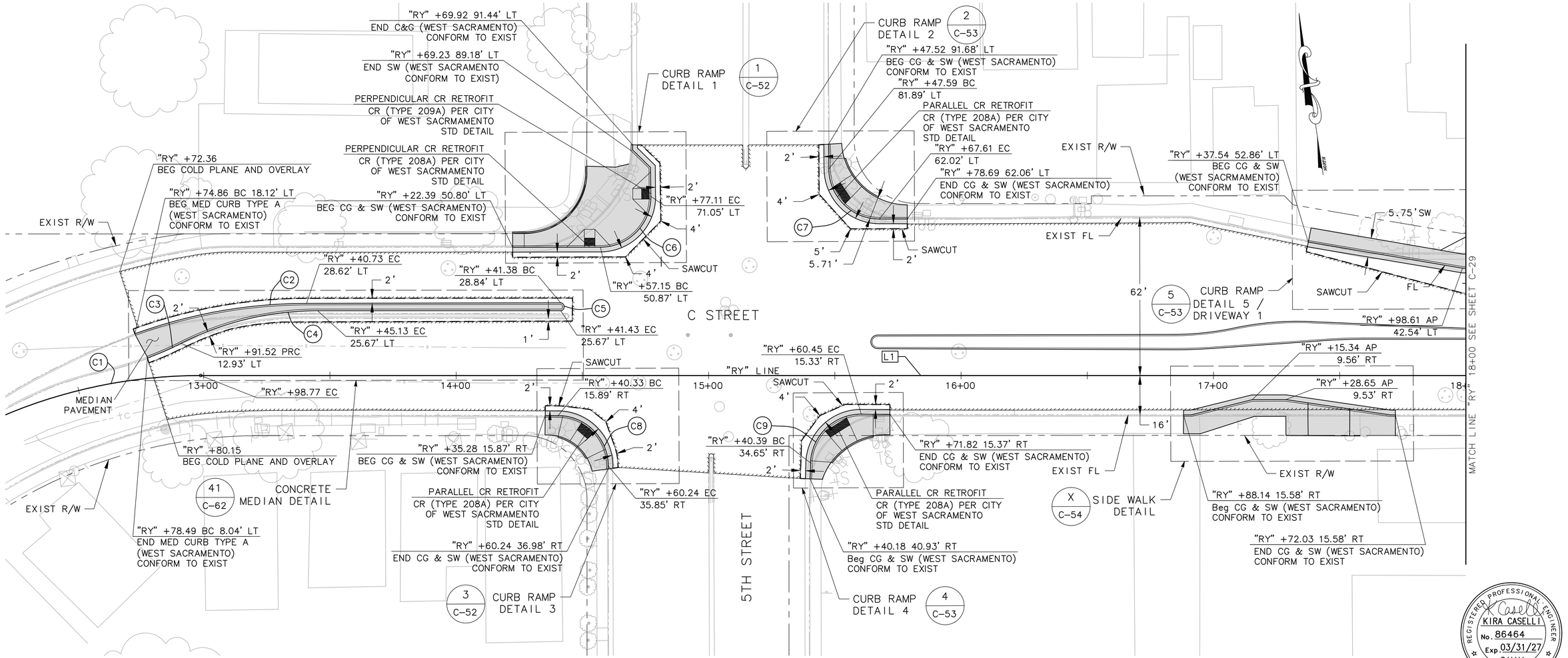
1. ALL STATION AND OFFSET CALLOUTS REFERENCE THE "RY" LINE UNLESS OTHERWISE NOTED.
2. STATION AND OFFSET CALLOUTS ARE TO THE FLOW LINE UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. MEASUREMENTS FOR ATTACHED SIDEWALK ARE FROM FLOW LINE.
4. CURB, GUTTER, AND SIDEWALK (WEST SACRAMENTO) TO BE CONSTRUCTED PER CITY OF WEST SACRAMENTO STANDARD DETAIL #201.
5. CONCRETE MEDIAN AND MEDIAN CURB (WEST SACRAMENTO) TO BE CONSTRUCTED PER CITY OF WEST SACRAMENTO STANDARD #203 & #204.
6. ROLLED CURB (TYPE 1) TO BE CONSTRUCTED PER CITY OF SACRAMENTO STANDARD DETAIL T-11.
7. CURB AND GUTTER (TYPE 2) TO BE CONSTRUCTED PER CITY OF SACRAMENTO STANDARD DETAIL T-11.
8. BARRIER CURB (TYPE 3) TO BE CONSTRUCTED PER CITY OF SACRAMENTO STANDARD DETAIL T-11.
9. CURB RAMPS (WEST SACRAMENTO) TO BE CONSTRUCTED PER CITY OF WEST SACRAMENTO STANDARD DETAILS #208, #208A, #209, AND #209A.
10. CURB RAMPS (SACRAMENTO) TO BE CONSTRUCTED PER CITY OF SACRAMENTO STANDARD DETAIL T-73.
11. DIKE (TYPE E) TO BE CONSTRUCTED PER CALTRANS STANDARD PLANS A87B.

LEGEND:

- PCC
- SAWCUT LINE
- COLD PLANE (2.5") AND OVERLAY LIMIT
- EXIST PROPERTY LINE
- EXIST RIGHT OF WAY
- RSP
- CLASS 2 AB
- DECOMPOSED GRANITE

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	1208.87'	N81°31'13"W

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C1	200.00'	82°09'11"	174.33'	286.77'
C2	200.00'	19°52'39"	35.05'	69.39'
C3	130.00'	6°25'17"	7.29'	14.57'
C4	120.00'	26°47'04"	28.57'	56.10'
C5	1.60'	163°49'05"	11.25'	4.57'
C6	20.00'	90°24'50"	20.14'	31.56'
C7	20.00'	89°41'37"	19.89'	31.31'
C8	20.00'	89°37'58"	19.87'	31.29'
C9	20.00'	88°15'04"	19.40'	30.81'



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-30

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

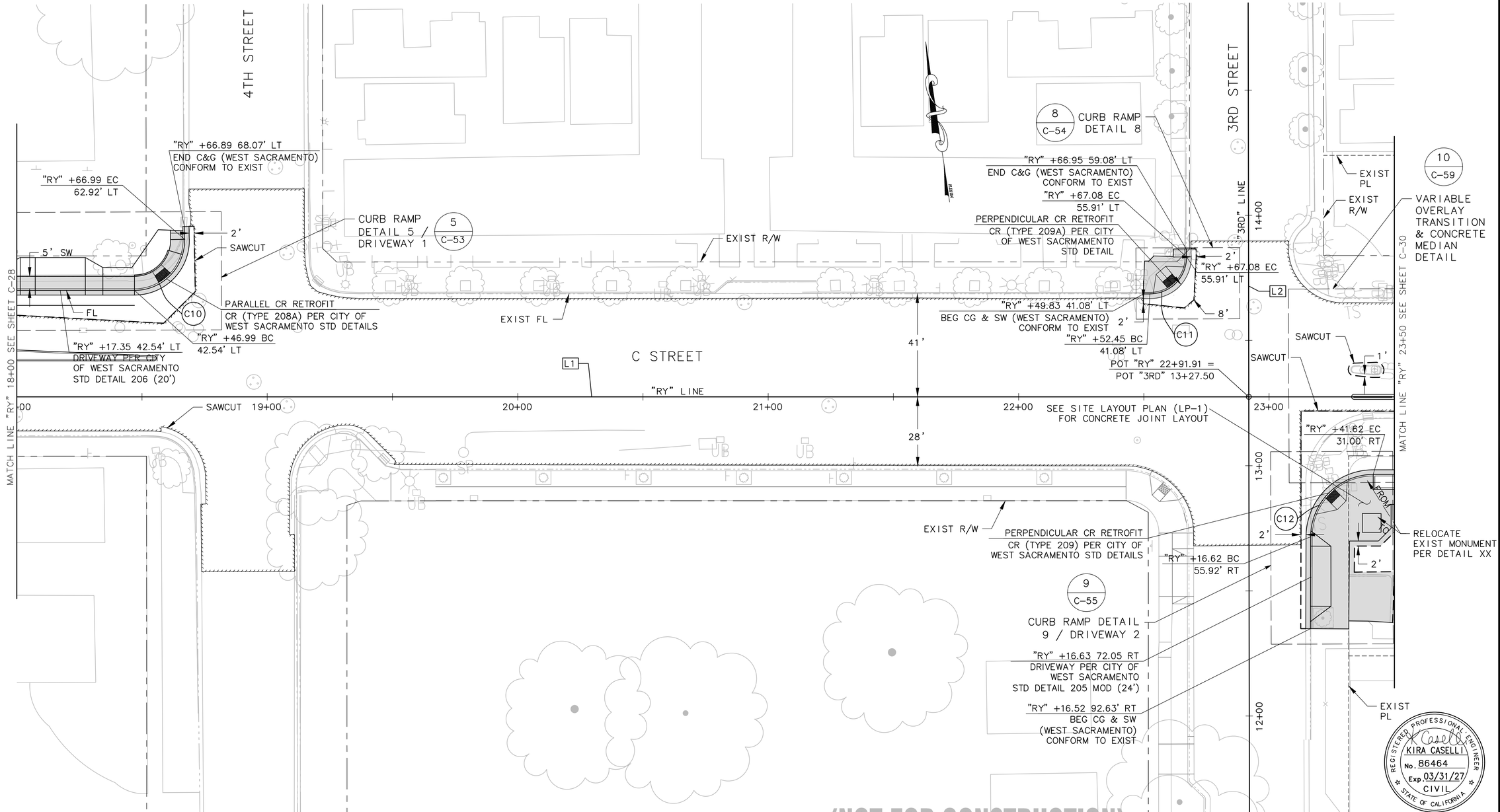
LAYOUT PLAN

T15136000

SHEET 30 OF 648

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C10	20.00'	91°06'50"	20.39'	31.80'
C11	14.63'	90°50'34"	14.84'	23.19'
C12	25.00'	89°50'07"	24.93'	39.20'

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	1208.87'	N81°31'13"W
L2	1180.27'	S8°23'22"W



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-31

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS

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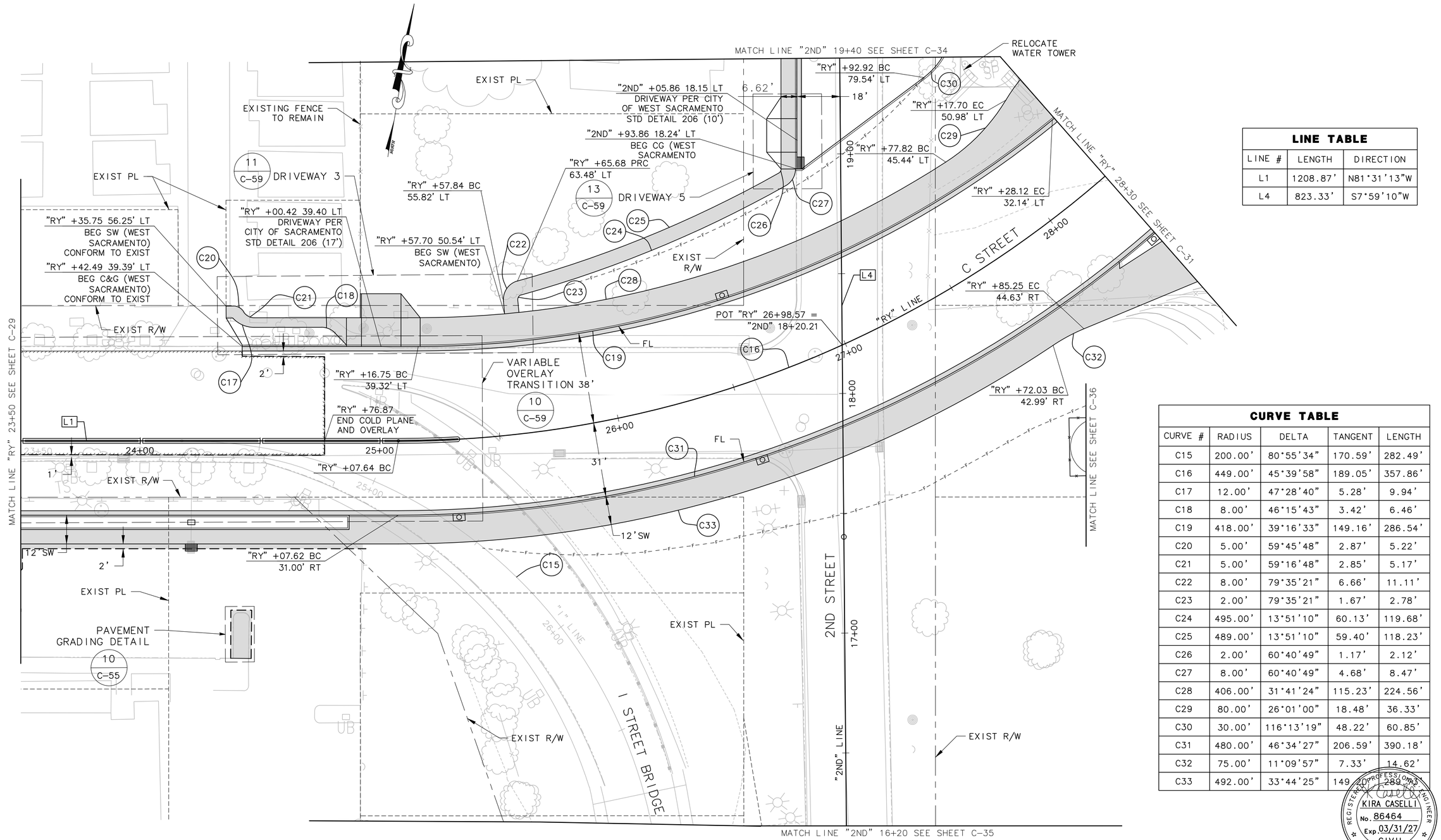
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LAYOUT PLAN

T15136000

SHEET 31 OF 648



LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	1208.87'	N81°31'13"W
L4	823.33'	S7°59'10"W

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C15	200.00'	80°55'34"	170.59'	282.49'
C16	449.00'	45°39'58"	189.05'	357.86'
C17	12.00'	47°28'40"	5.28'	9.94'
C18	8.00'	46°15'43"	3.42'	6.46'
C19	418.00'	39°16'33"	149.16'	286.54'
C20	5.00'	59°45'48"	2.87'	5.22'
C21	5.00'	59°16'48"	2.85'	5.17'
C22	8.00'	79°35'21"	6.66'	11.11'
C23	2.00'	79°35'21"	1.67'	2.78'
C24	495.00'	13°51'10"	60.13'	119.68'
C25	489.00'	13°51'10"	59.40'	118.23'
C26	2.00'	60°40'49"	1.17'	2.12'
C27	8.00'	60°40'49"	4.68'	8.47'
C28	406.00'	31°41'24"	115.23'	224.56'
C29	80.00'	26°01'00"	18.48'	36.33'
C30	30.00'	116°13'19"	48.22'	60.85'
C31	480.00'	46°34'27"	206.59'	390.18'
C32	75.00'	11°09'57"	7.33'	14.62'
C33	492.00'	33°44'25"	149.20'	289.73'

PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-32

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

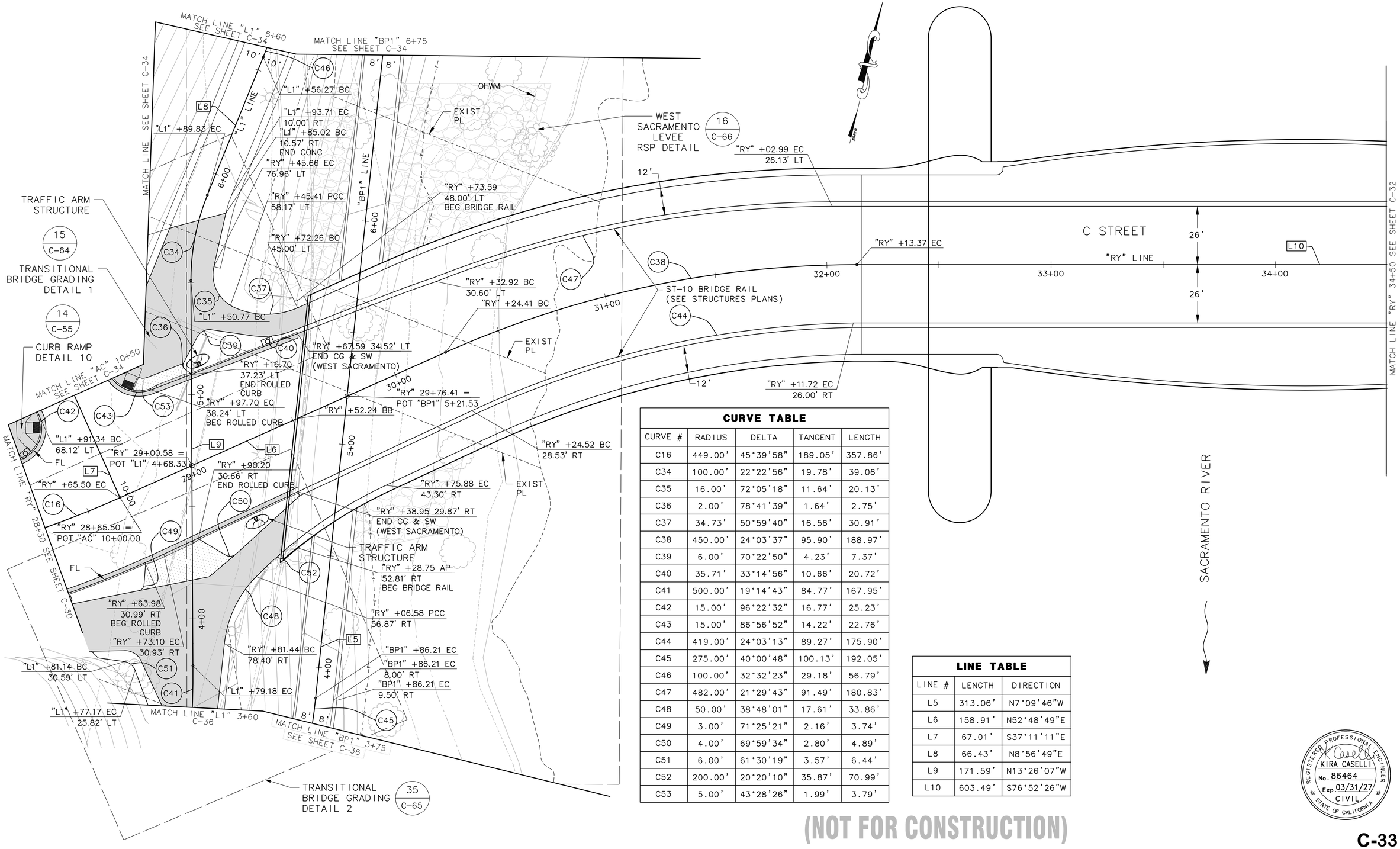
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LAYOUT PLAN

T15136000

SHEET 32 OF 648



CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C16	449.00'	45°39'58"	189.05'	357.86'
C34	100.00'	22°22'56"	19.78'	39.06'
C35	16.00'	72°05'18"	11.64'	20.13'
C36	2.00'	78°41'39"	1.64'	2.75'
C37	34.73'	50°59'40"	16.56'	30.91'
C38	450.00'	24°03'37"	95.90'	188.97'
C39	6.00'	70°22'50"	4.23'	7.37'
C40	35.71'	33°14'56"	10.66'	20.72'
C41	500.00'	19°14'43"	84.77'	167.95'
C42	15.00'	96°22'32"	16.77'	25.23'
C43	15.00'	86°56'52"	14.22'	22.76'
C44	419.00'	24°03'13"	89.27'	175.90'
C45	275.00'	40°00'48"	100.13'	192.05'
C46	100.00'	32°32'23"	29.18'	56.79'
C47	482.00'	21°29'43"	91.49'	180.83'
C48	50.00'	38°48'01"	17.61'	33.86'
C49	3.00'	71°25'21"	2.16'	3.74'
C50	4.00'	69°59'34"	2.80'	4.89'
C51	6.00'	61°30'19"	3.57'	6.44'
C52	200.00'	20°20'10"	35.87'	70.99'
C53	5.00'	43°28'26"	1.99'	3.79'

LINE TABLE		
LINE #	LENGTH	DIRECTION
L5	313.06'	N7°09'46"W
L6	158.91'	N52°48'49"E
L7	67.01'	S37°11'11"E
L8	66.43'	N8°56'49"E
L9	171.59'	N13°26'07"W
L10	603.49'	S76°52'26"W

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-33

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
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FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

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MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
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EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LAYOUT PLAN

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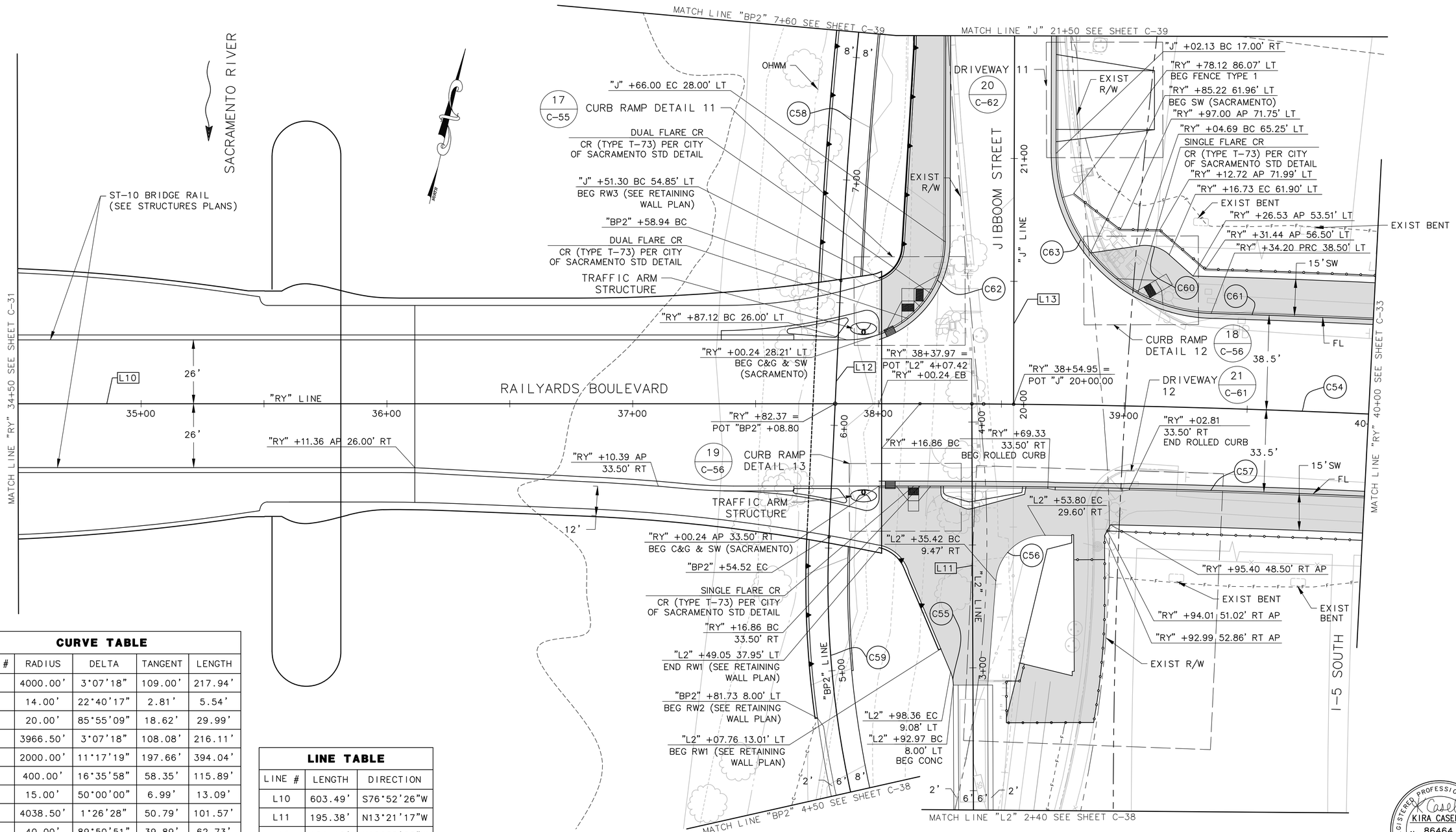
SHEET 33 OF 648



CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C54	4000.00'	3°07'18"	109.00'	217.94'
C55	14.00'	22°40'17"	2.81'	5.54'
C56	20.00'	85°55'09"	18.62'	29.99'
C57	3966.50'	3°07'18"	108.08'	216.11'
C58	2000.00'	11°17'19"	197.66'	394.04'
C59	400.00'	16°35'58"	58.35'	115.89'
C60	15.00'	50°00'00"	6.99'	13.09'
C61	4038.50'	1°26'28"	50.79'	101.57'
C62	40.00'	89°50'51"	39.89'	62.73'
C63	65.00'	88°28'18"	63.29'	100.37'

LINE TABLE		
LINE #	LENGTH	DIRECTION
L10	603.49'	S76°52'26"W
L11	195.38'	N13°21'17"W
L12	104.42'	N10°28'20"W
L13	328.06'	N12°58'25"W

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-34

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

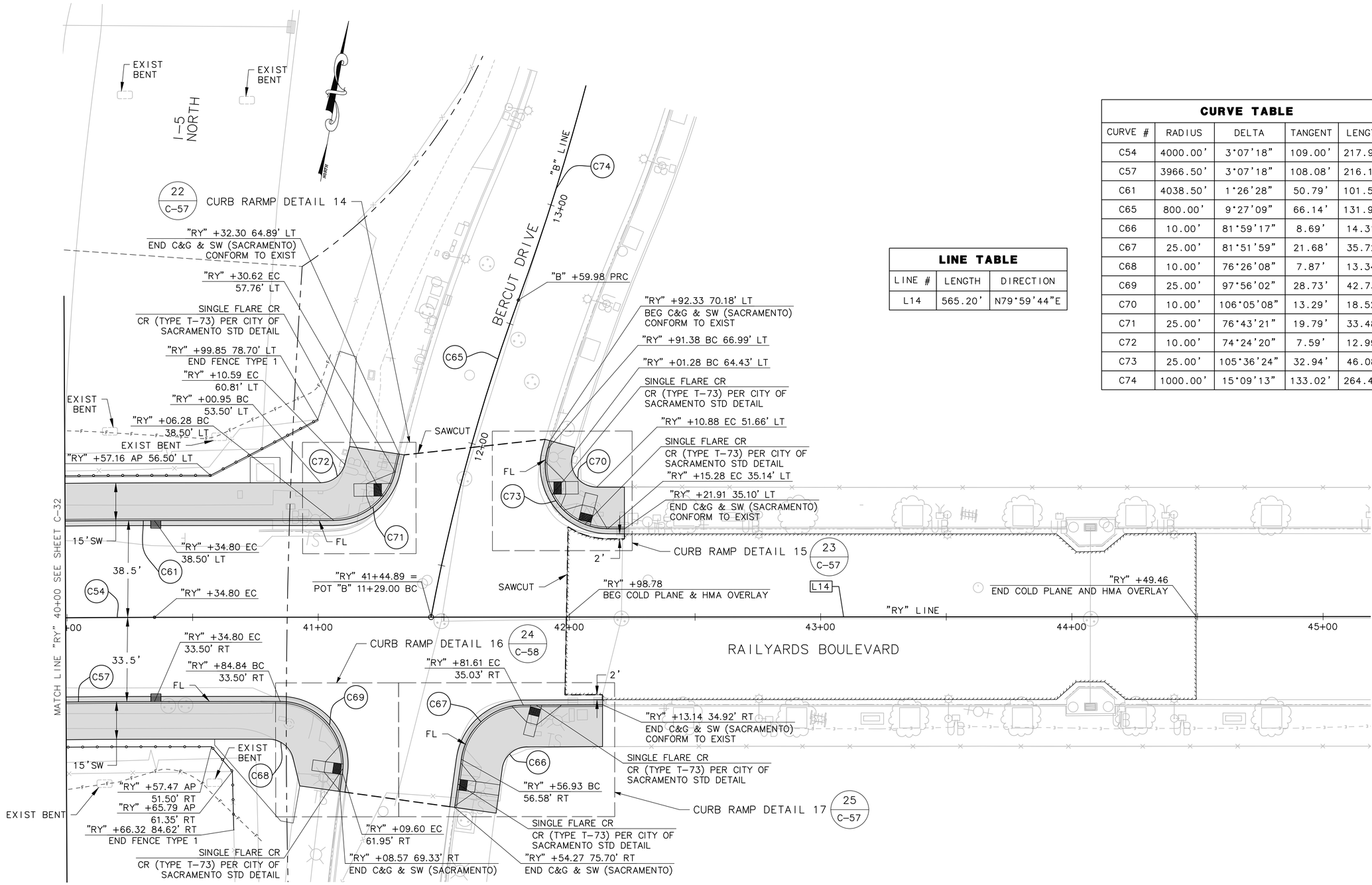
MARK THOMAS
UNDER THE SUPERVISION OF:
ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LAYOUT PLAN

T15136000

SHEET 34 OF 648



LINE TABLE		
LINE #	LENGTH	DIRECTION
L14	565.20'	N79°59'44"E

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C54	4000.00'	3°07'18"	109.00'	217.94'
C57	3966.50'	3°07'18"	108.08'	216.11'
C61	4038.50'	1°26'28"	50.79'	101.57'
C65	800.00'	9°27'09"	66.14'	131.98'
C66	10.00'	81°59'17"	8.69'	14.31'
C67	25.00'	81°51'59"	21.68'	35.72'
C68	10.00'	76°26'08"	7.87'	13.34'
C69	25.00'	97°56'02"	28.73'	42.73'
C70	10.00'	106°05'08"	13.29'	18.52'
C71	25.00'	76°43'21"	19.79'	33.48'
C72	10.00'	74°24'20"	7.59'	12.99'
C73	25.00'	105°36'24"	32.94'	46.08'
C74	1000.00'	15°09'13"	133.02'	264.48'

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-35

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

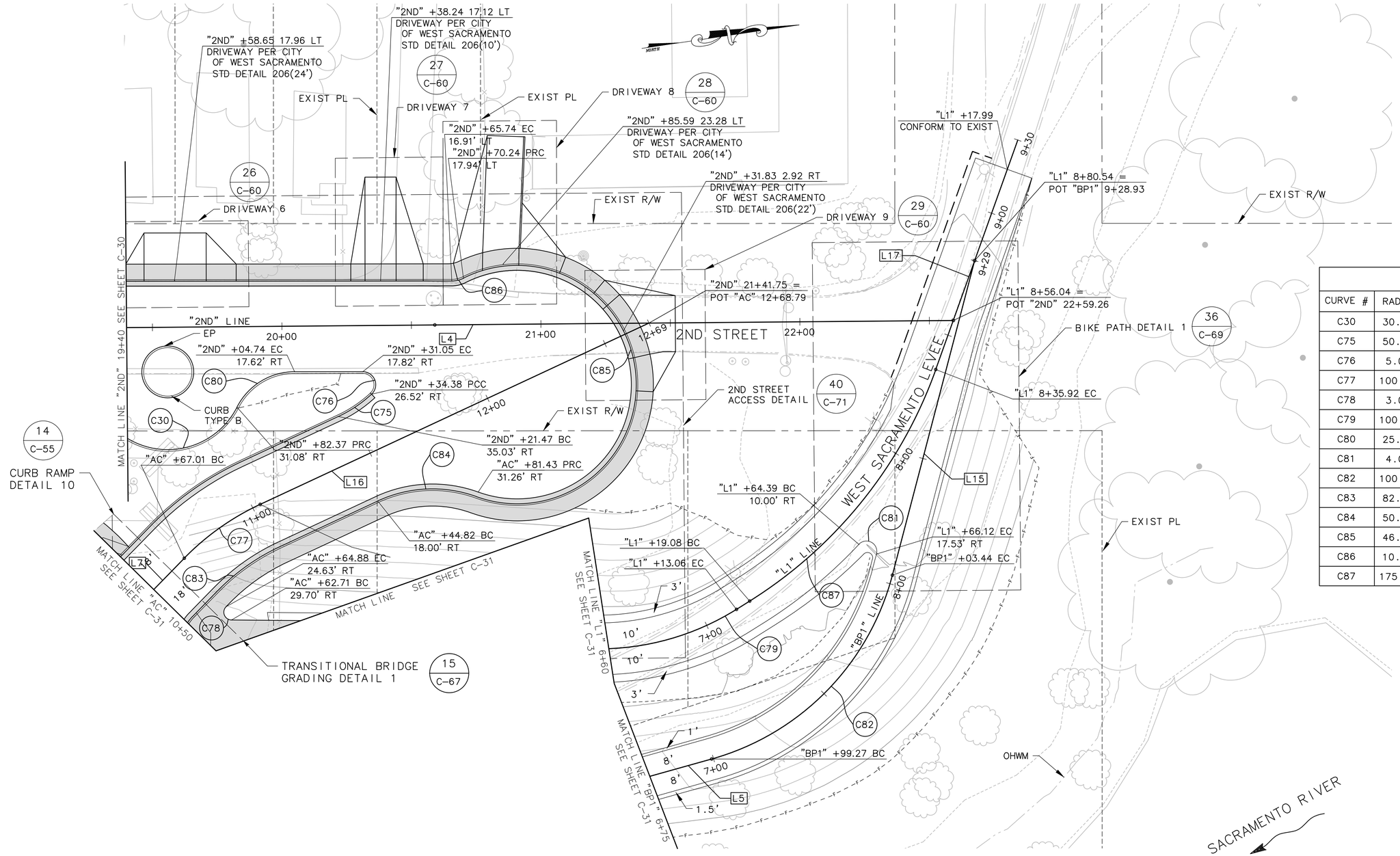
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

LAYOUT PLAN

T15136000

SHEET 35 OF 648



CURVE TABLE

CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C30	30.00'	116°13'19"	48.22'	60.85'
C75	50.00'	17°47'32"	7.83'	15.53'
C76	5.00'	137°02'36"	12.72'	11.97'
C77	100.13'	20°39'36"	18.25'	36.11'
C78	3.00'	133°51'39"	7.04'	7.01'
C79	100.00'	32°32'23"	29.18'	56.79'
C80	25.00'	62°57'52"	15.31'	27.47'
C81	4.00'	151°34'51"	15.80'	10.58'
C82	100.00'	59°41'05"	57.37'	104.17'
C83	82.00'	20°40'28"	14.96'	29.59'
C84	50.00'	44°54'02"	20.66'	39.18'
C85	46.00'	226°39'36"	106.66'	181.97'
C86	10.00'	26°42'09"	2.37'	4.66'
C87	175.47'	36°50'07"	58.43'	112.81'

LINE TABLE

LINE #	LENGTH	DIRECTION
L4	820.67'	N7°59'10"E
L5	313.06'	N7°09'46"W
L7	17.01'	S37°11'11"E
L15	125.50'	N66°50'50"W
L16	165.67'	N16°30'45"W
L17	94.10'	S61°50'50"E

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-36

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

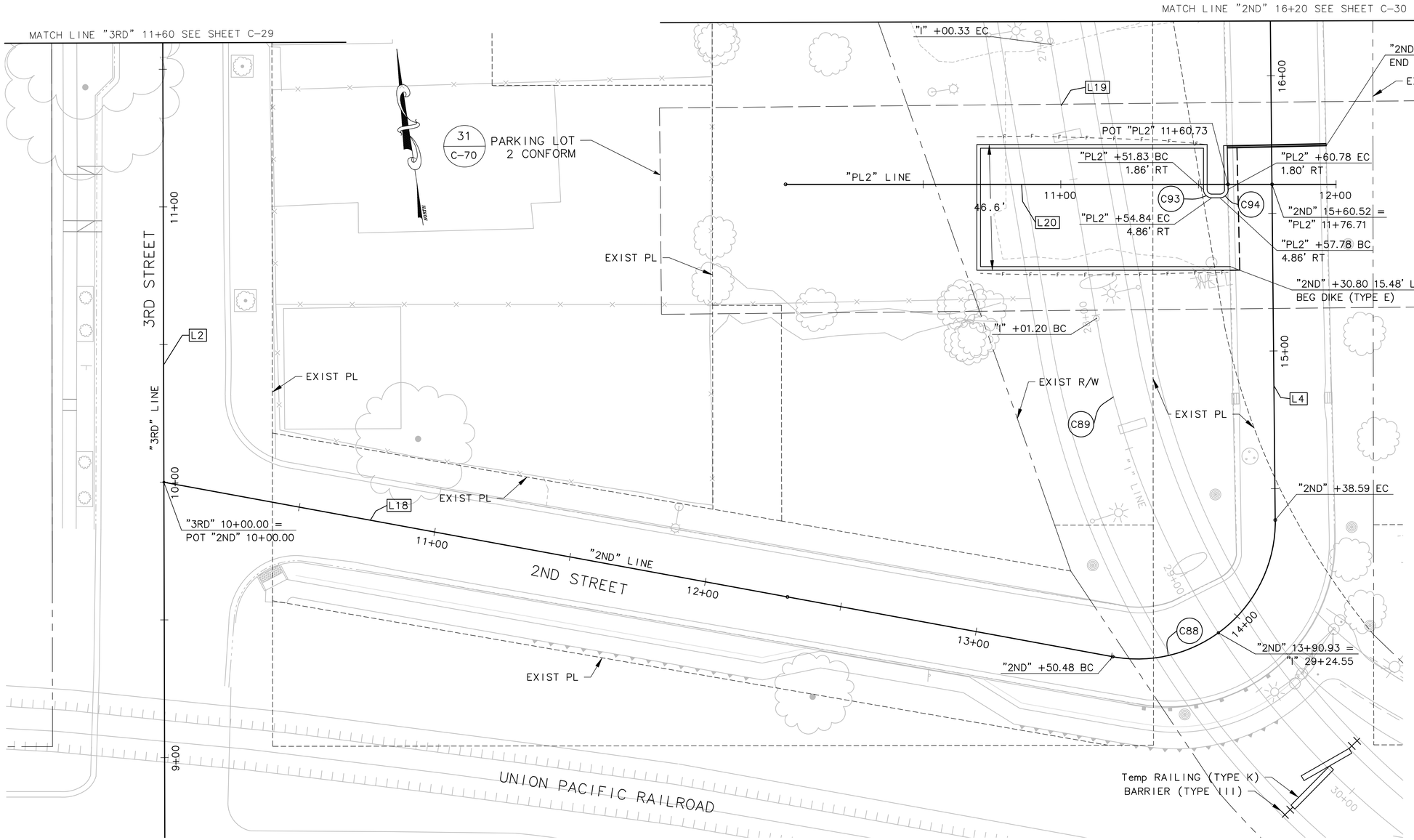
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LAYOUT PLAN

T15136000

SHEET 36 OF 648



CURVE TABLE

CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C88	50.00'	100°58'08"	60.62'	88.11'
C89	300.00'	70°33'45"	212.26'	369.46'
C93	3.00'	90°13'07"	3.01'	4.72'
C94	3.00'	91°10'29"	3.06'	4.77'

LINE TABLE

LINE #	LENGTH	DIRECTION
L2	1180.27'	S8°23'22"W
L4	820.67'	N7°59'10"E
L18	350.48'	S71°02'42"E
L19	100.87'	S0°53'06"E
L20	200.00'	S81°27'43"E

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-37

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

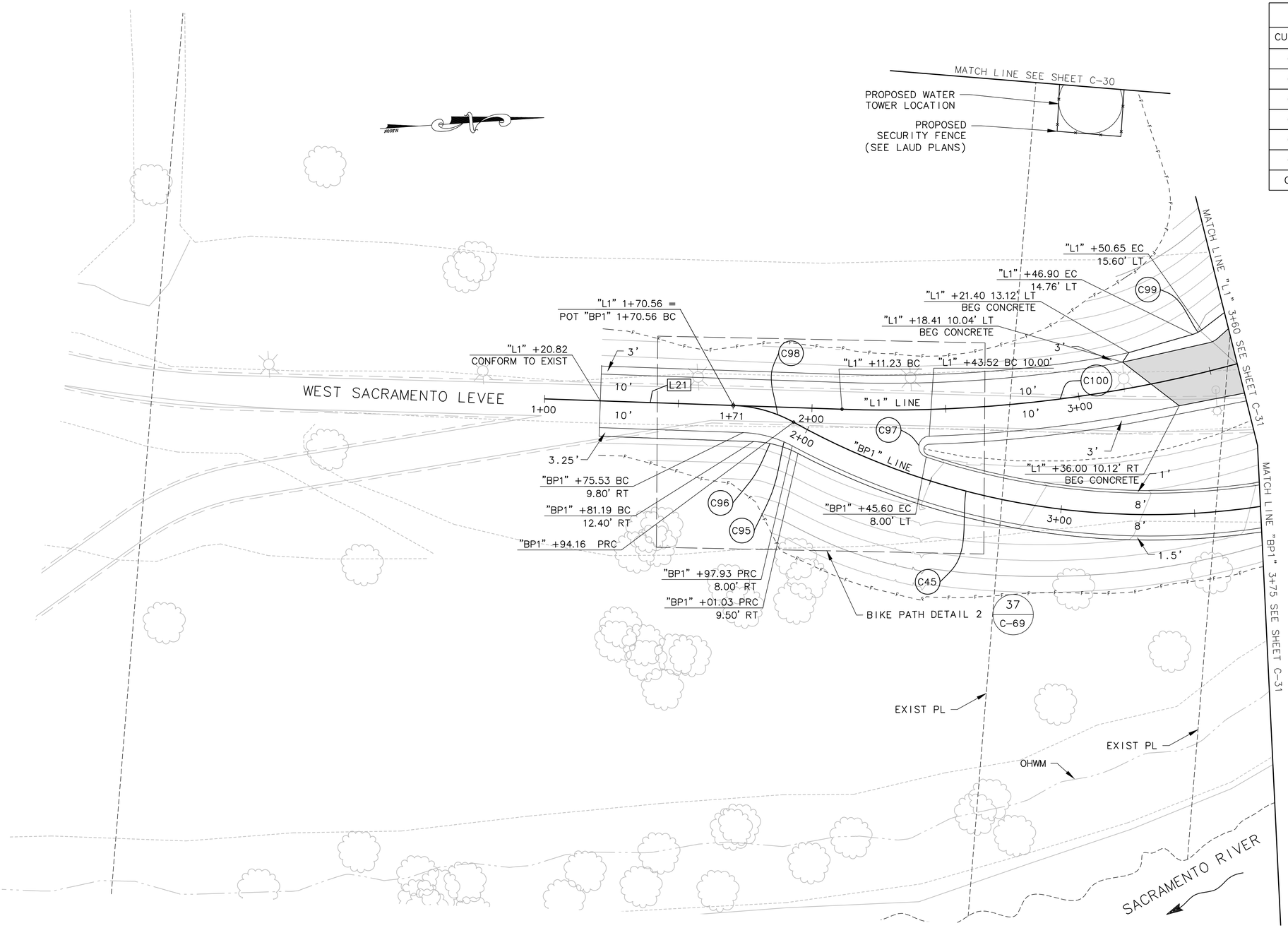
LAYOUT PLAN

T15136000

SHEET 37 OF 648

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C45	275.00'	40°00'48"	100.13'	192.05'
C95	42.00'	26°15'17"	9.79'	19.25'
C96	39.00'	25°36'31"	8.86'	17.43'
C97	4.00'	159°58'42"	22.66'	11.17'
C98	50.00'	27°02'27"	12.02'	23.60'
C99	10.00'	21°30'38"	1.90'	3.75'
C100	500.00'	19°14'43"	84.77'	167.95'

LINE TABLE		
LINE #	LENGTH	DIRECTION
L21	111.19'	N5°48'36"E



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-38

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

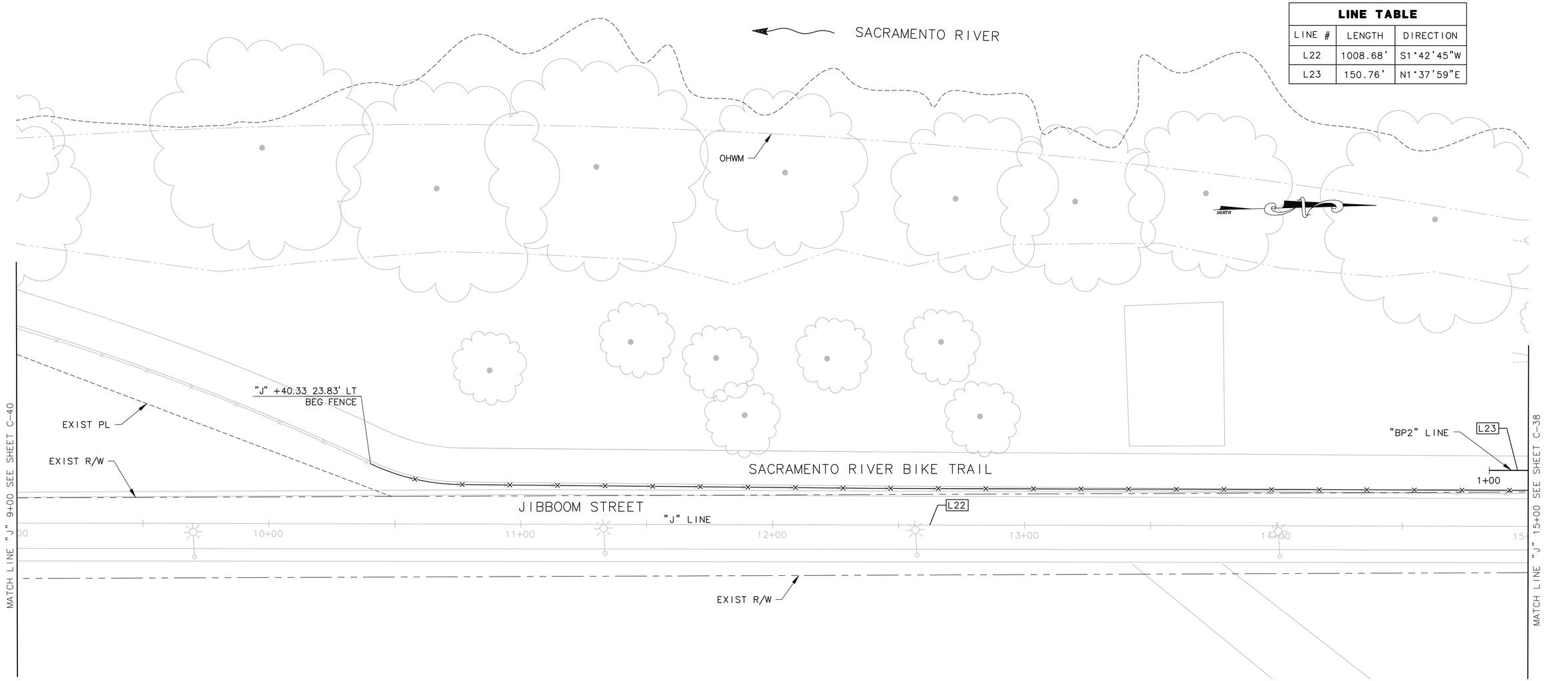
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LAYOUT PLAN

T15136000

SHEET 38 OF 648

LINE TABLE		
LINE #	LENGTH	DIRECTION
L22	1008.68'	S1°42'45"W
L23	150.76'	N1°37'59"E



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-39

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

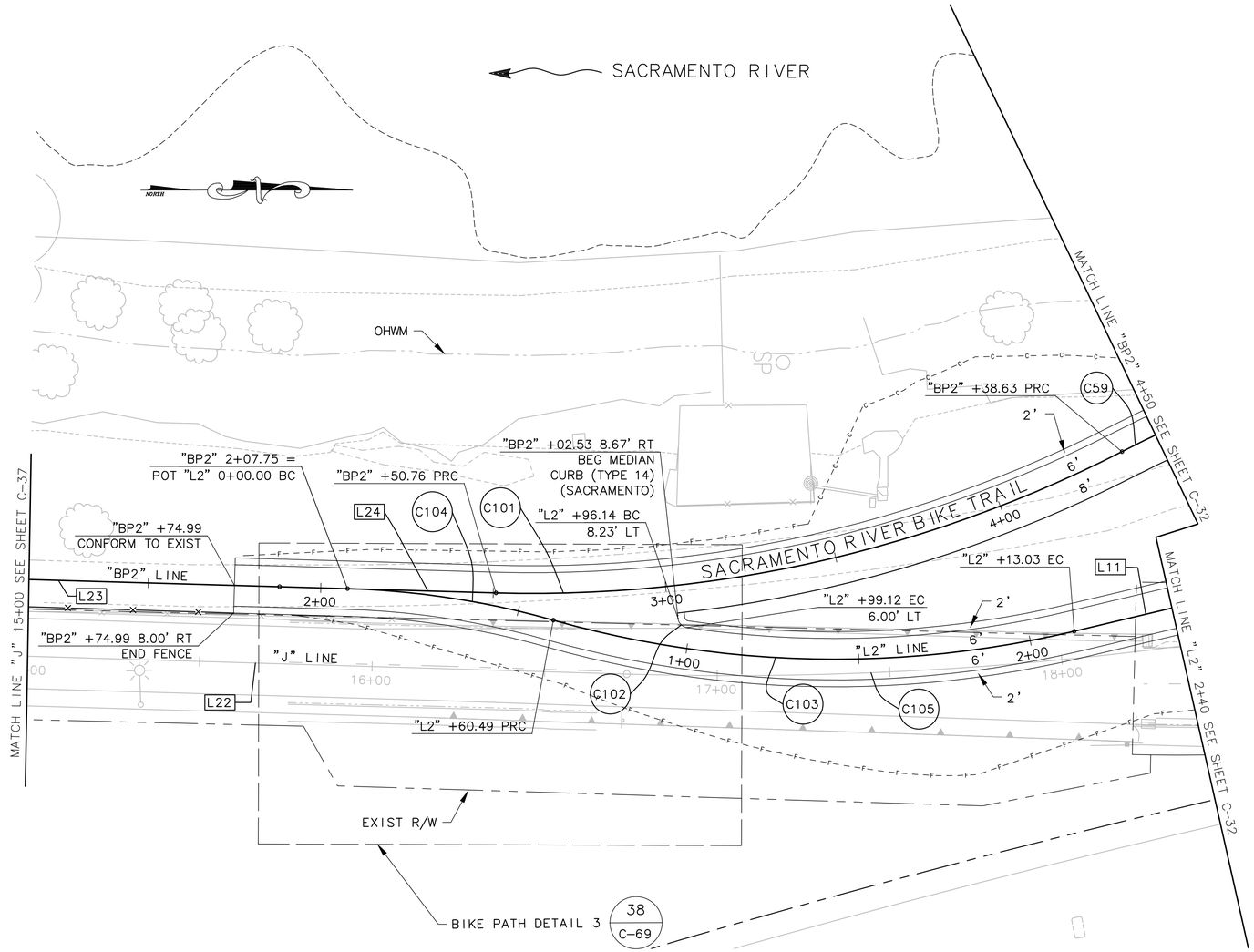
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LAYOUT PLAN

T15136000

SHEET 39 OF 648



LINE TABLE		
LINE #	LENGTH	DIRECTION
L11	194.38'	N13°21'17"W
L22	1008.68'	S1°42'45"W
L23	150.76'	N1°37'59"E
L24	150.76'	N1°37'59"E

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C59	400.00'	16°35'58"	58.35'	115.89'
C101	375.00'	28°42'16"	95.95'	187.87'
C102	3.00'	75°19'25"	2.32'	3.94'
C103	300.00'	29°08'01"	77.96'	152.54'
C104	245.00'	14°08'46"	30.40'	60.49'
C105	1000.00'	14°41'10"	128.87'	256.32'

KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-40

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

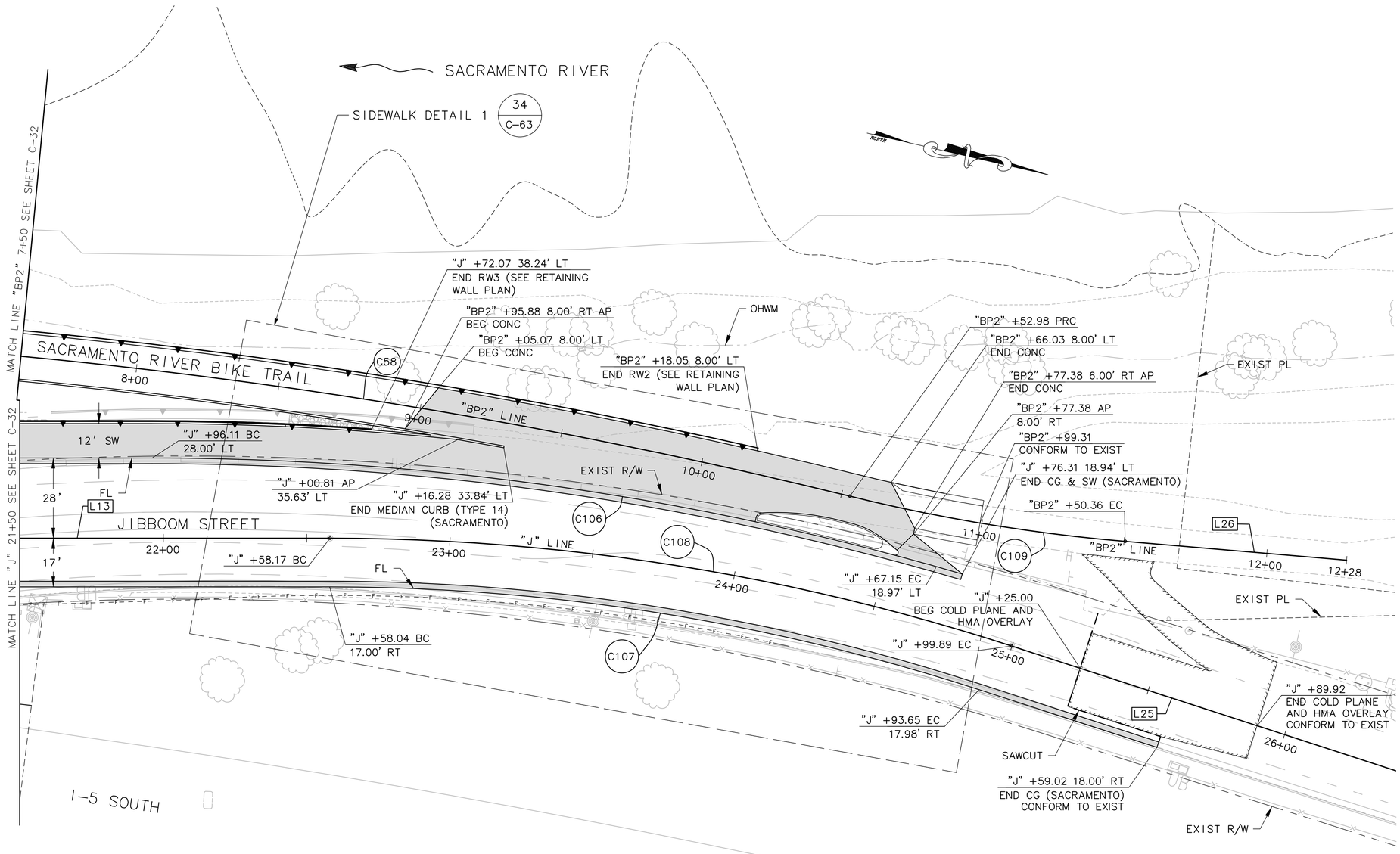
LAYOUT PLAN

T15136000

SHEET 40 — OF — 648

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C58	2000.00'	11°17'19"	197.66'	394.04'
C106	1006.00'	15°46'48"	139.41'	277.07'
C107	734.00'	17°58'42"	116.11'	230.32'
C108	770.00'	17°59'10"	121.86'	241.72'
C109	625.00'	8°55'38"	48.79'	97.38'

LINE TABLE		
LINE #	LENGTH	DIRECTION
L13	328.06'	S12°58'25"E
L25	223.64'	N5°00'45"E
L26	77.54'	N8°06'39"W



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-41

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

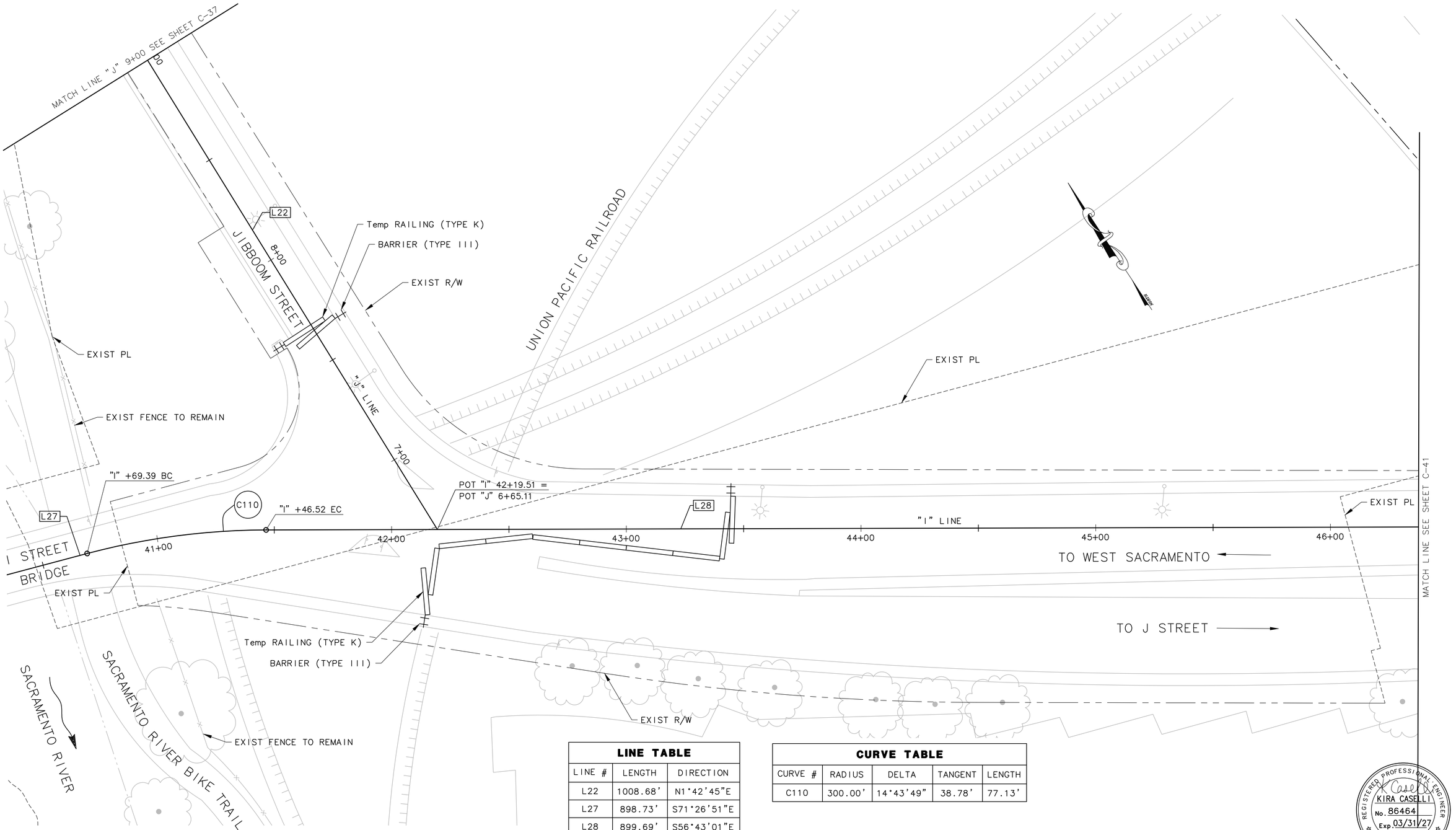
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

LAYOUT PLAN

T15136000

SHEET 41 OF 648



LINE TABLE		
LINE #	LENGTH	DIRECTION
L22	1008.68'	N1°42'45"E
L27	898.73'	S71°26'51"E
L28	899.69'	S56°43'01"E

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C110	300.00'	14°43'49"	38.78'	77.13'

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-42

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

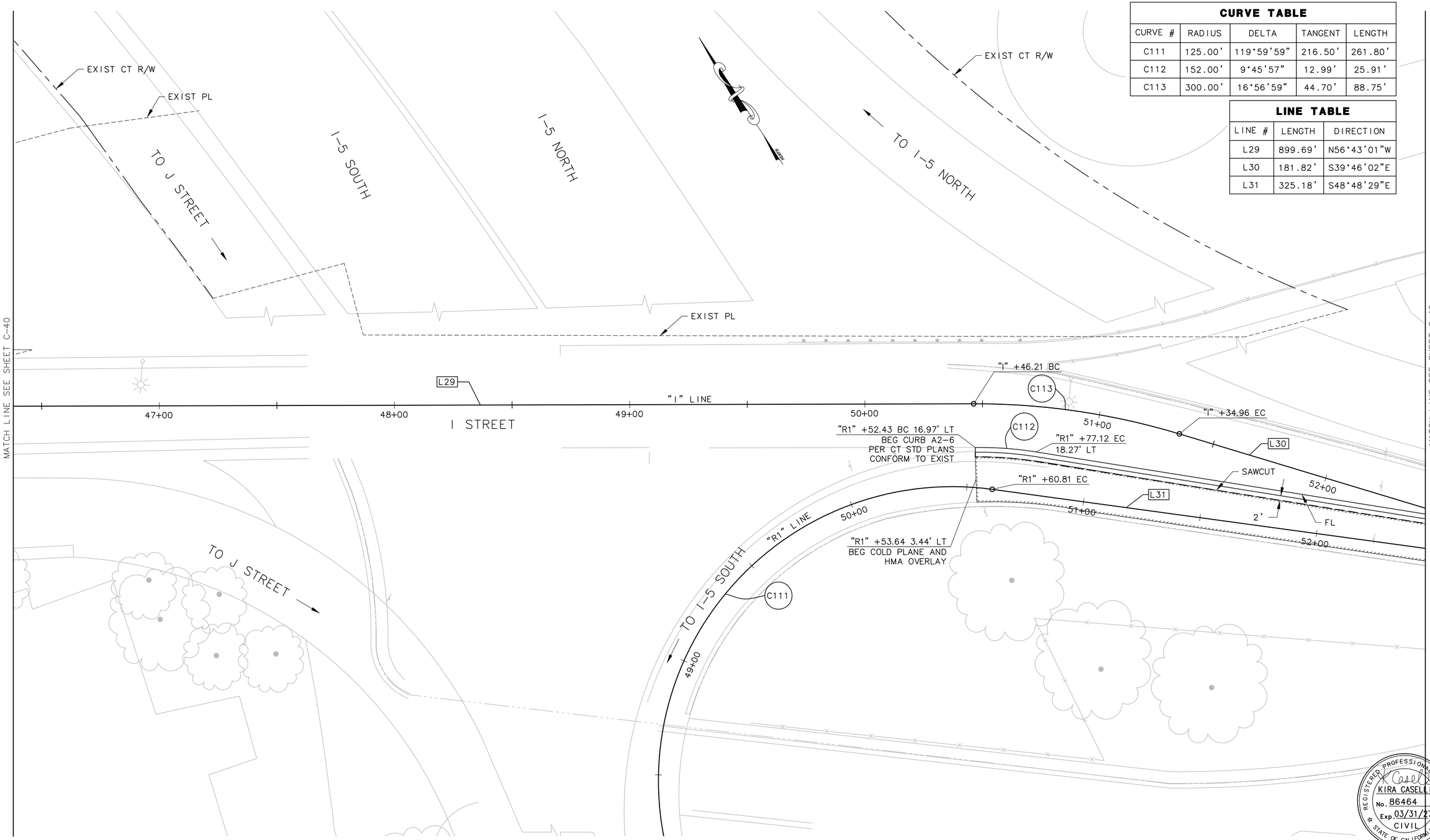
LAYOUT PLAN

T15136000

SHEET 42 OF 648

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C111	125.00'	119°59'59"	216.50'	261.80'
C112	152.00'	9°45'57"	12.99'	25.91'
C113	300.00'	16°56'59"	44.70'	88.75'

LINE TABLE		
LINE #	LENGTH	DIRECTION
L29	899.69'	N56°43'01"W
L30	181.82'	S39°46'02"E
L31	325.18'	S48°48'29"E



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-43

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

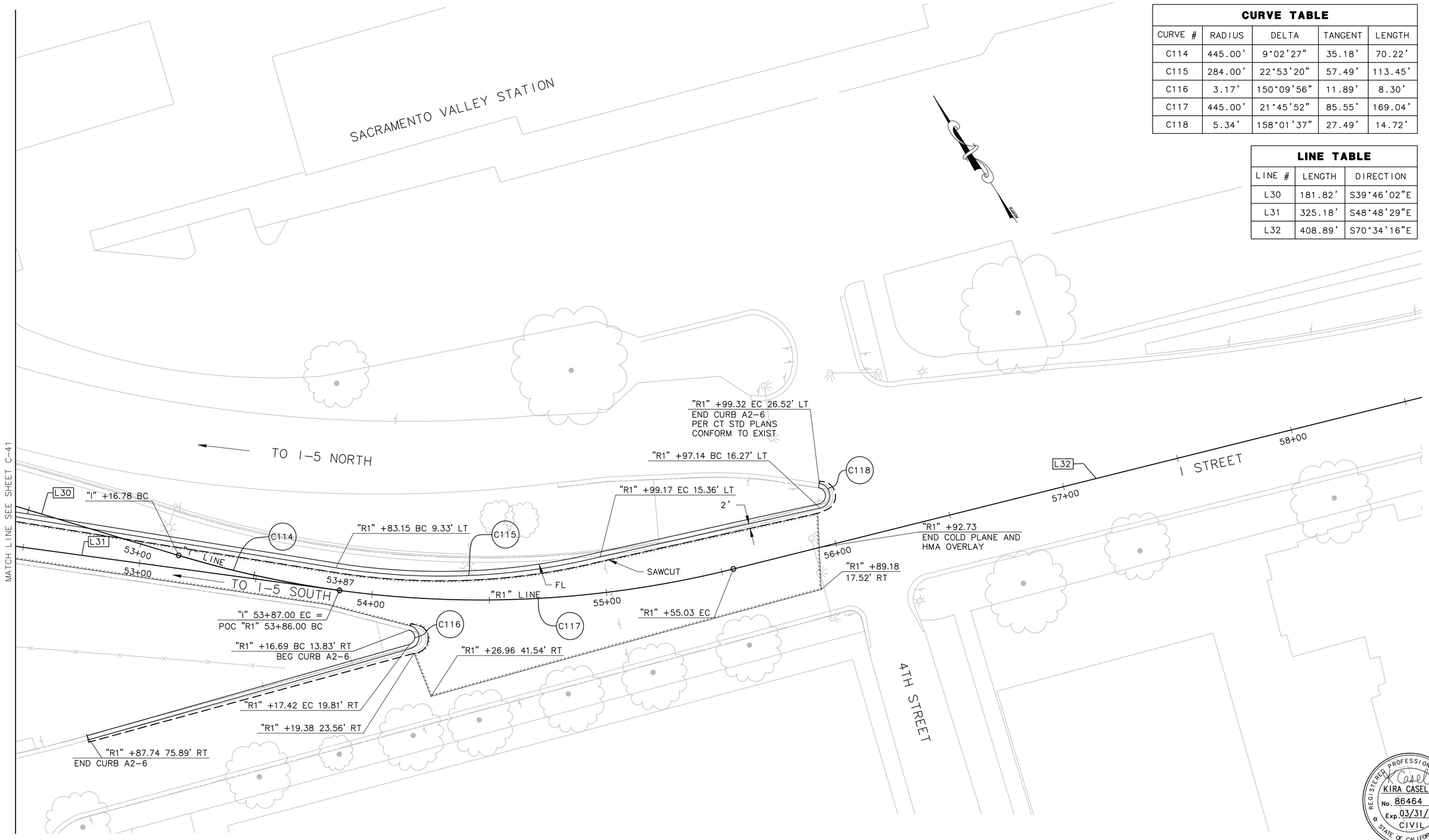
LAYOUT PLAN

T15136000

SHEET 43 OF 648

CURVE TABLE				
CURVE #	RADIUS	DELTA	TANGENT	LENGTH
C114	445.00'	9°02'27"	35.18'	70.22'
C115	284.00'	22°53'20"	57.49'	113.45'
C116	3.17'	150°09'56"	11.89'	8.30'
C117	445.00'	21°45'52"	85.55'	169.04'
C118	5.34'	158°01'37"	27.49'	14.72'

LINE TABLE		
LINE #	LENGTH	DIRECTION
L30	181.82'	S39°46'02"E
L31	325.18'	S48°48'29"E
L32	408.89'	S70°34'16"E



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-44

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

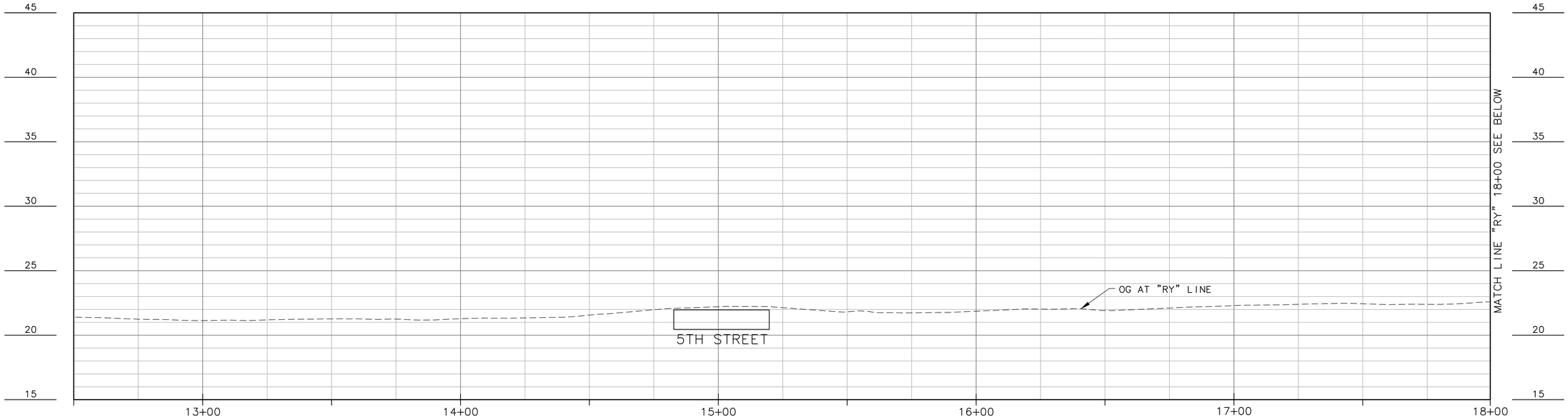
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

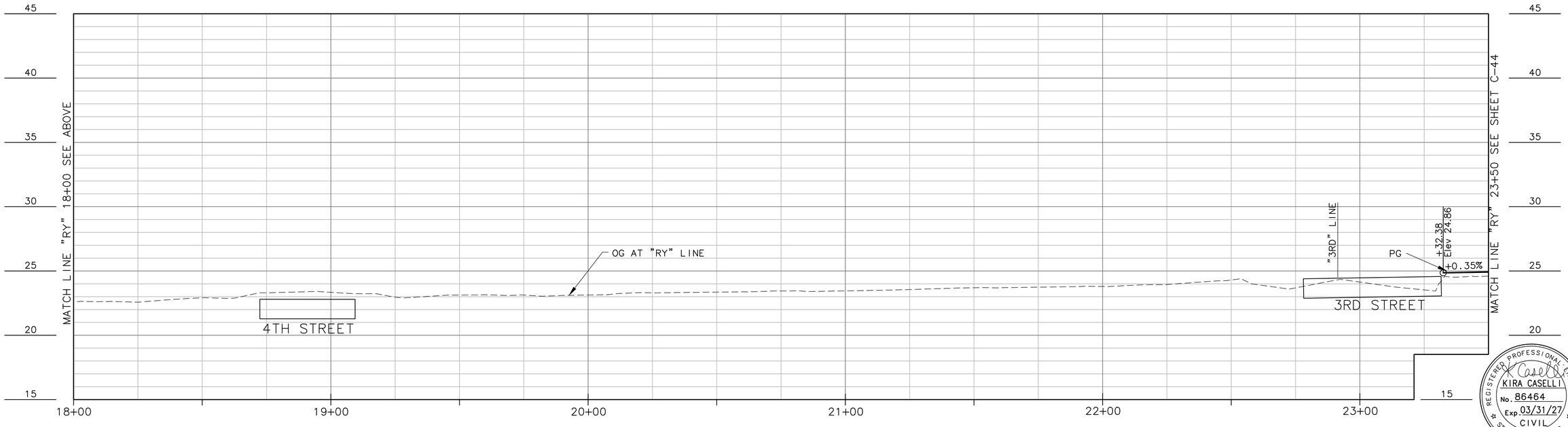
LAYOUT PLAN

T15136000

SHEET 44 OF 648



"RY" LINE



"RY" LINE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-45

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

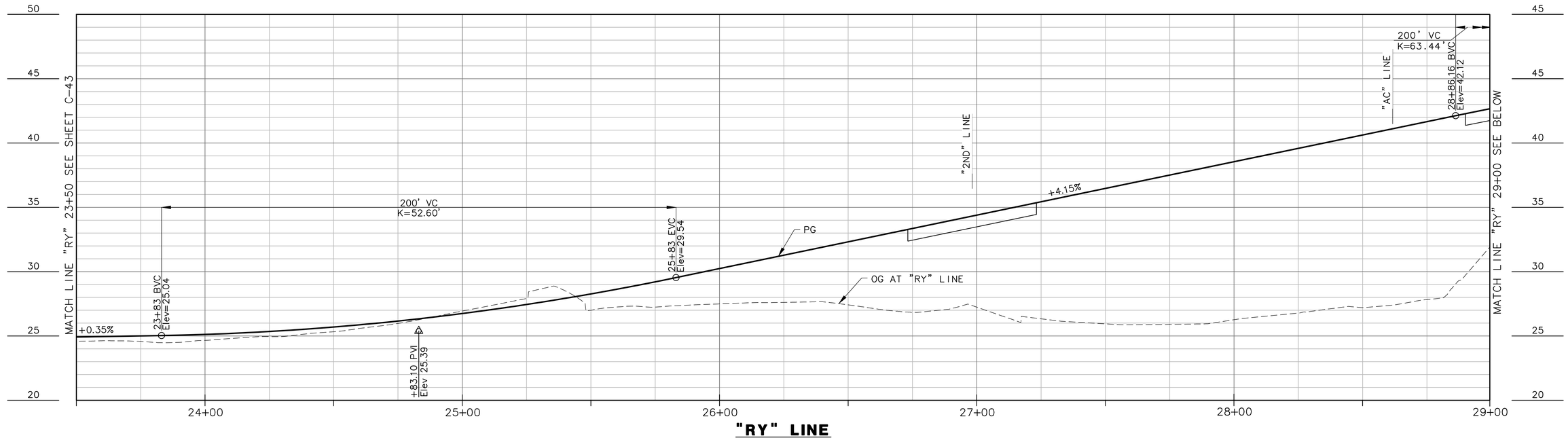
DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

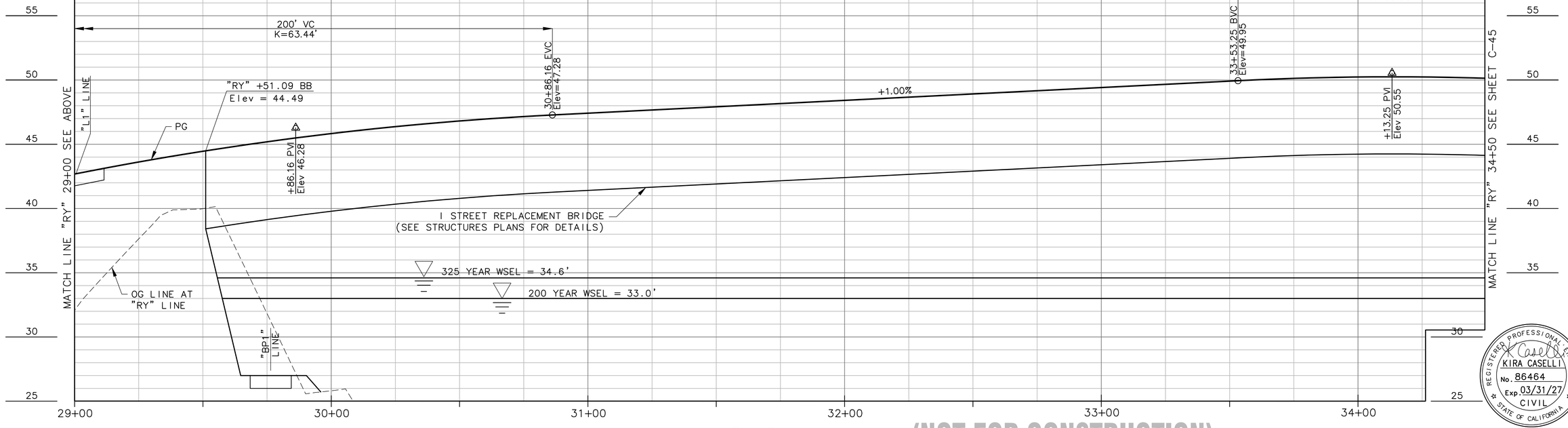
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
PROFILES
C STREET

T15136000

SHEET 45 OF 648



"RY" LINE



"RY" LINE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-46

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

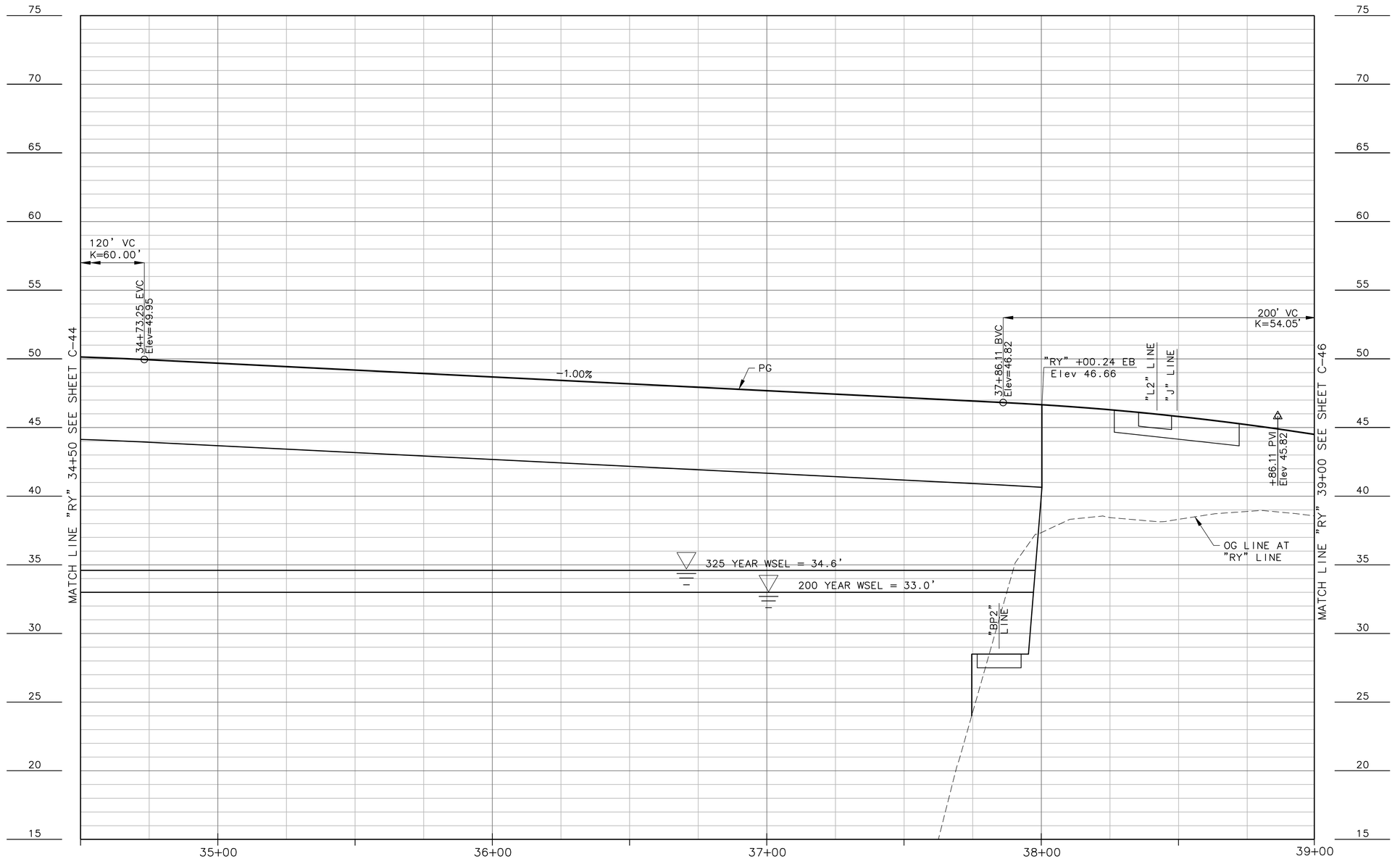
DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER PROFILES C STREET

T15136000

SHEET 46 OF 648



"RY" LINE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-47

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

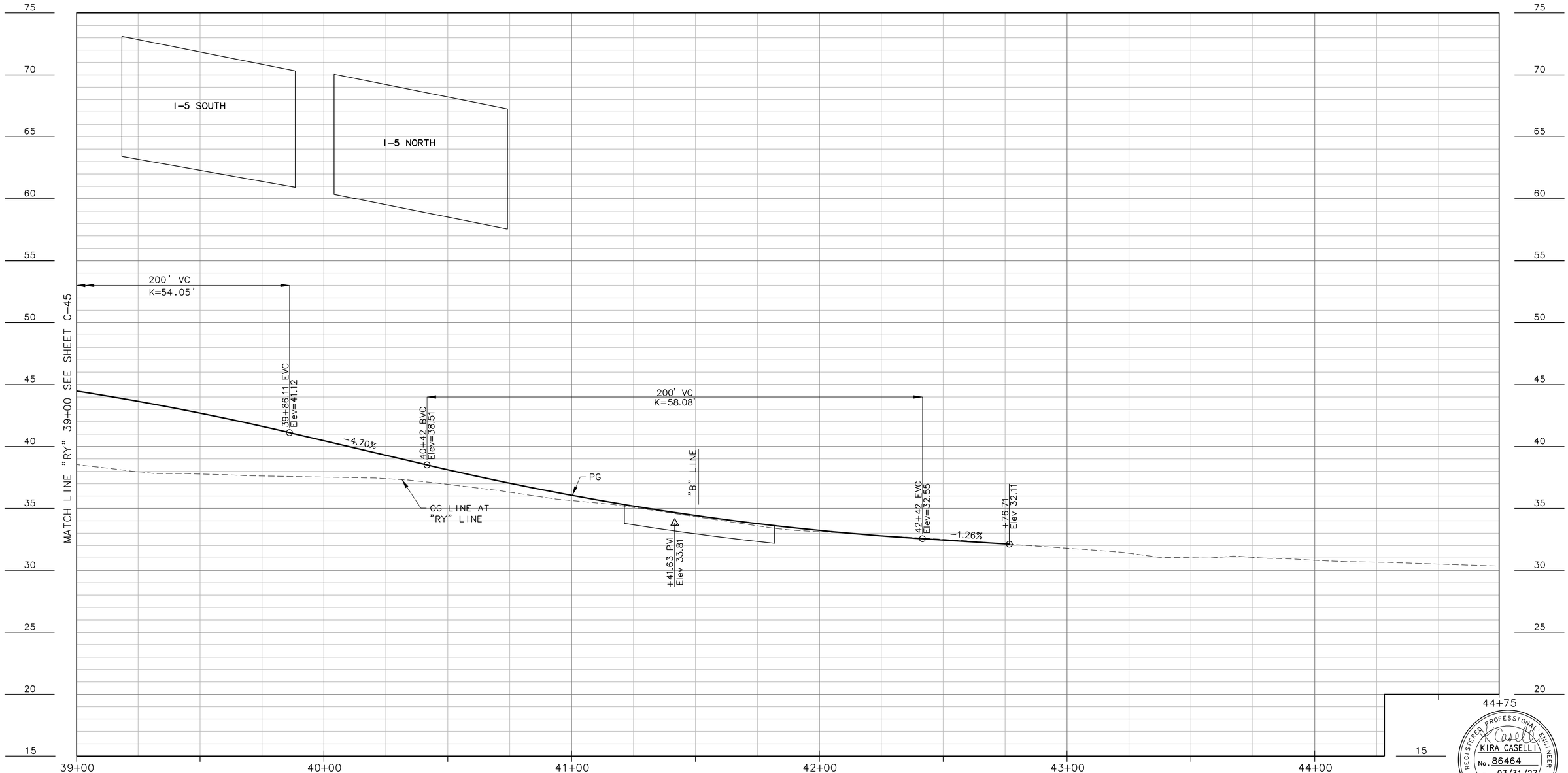
DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
PROFILES
C STREET/RAILYARDS BOULEVARD

T15136000

SHEET 47 OF 648



"RY" LINE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-48

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

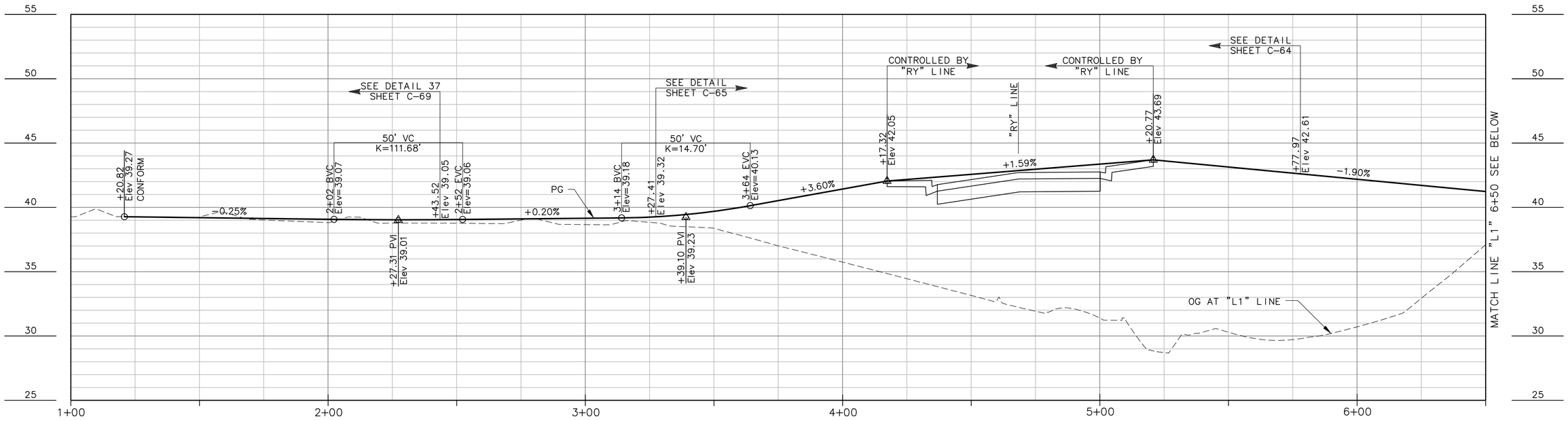
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

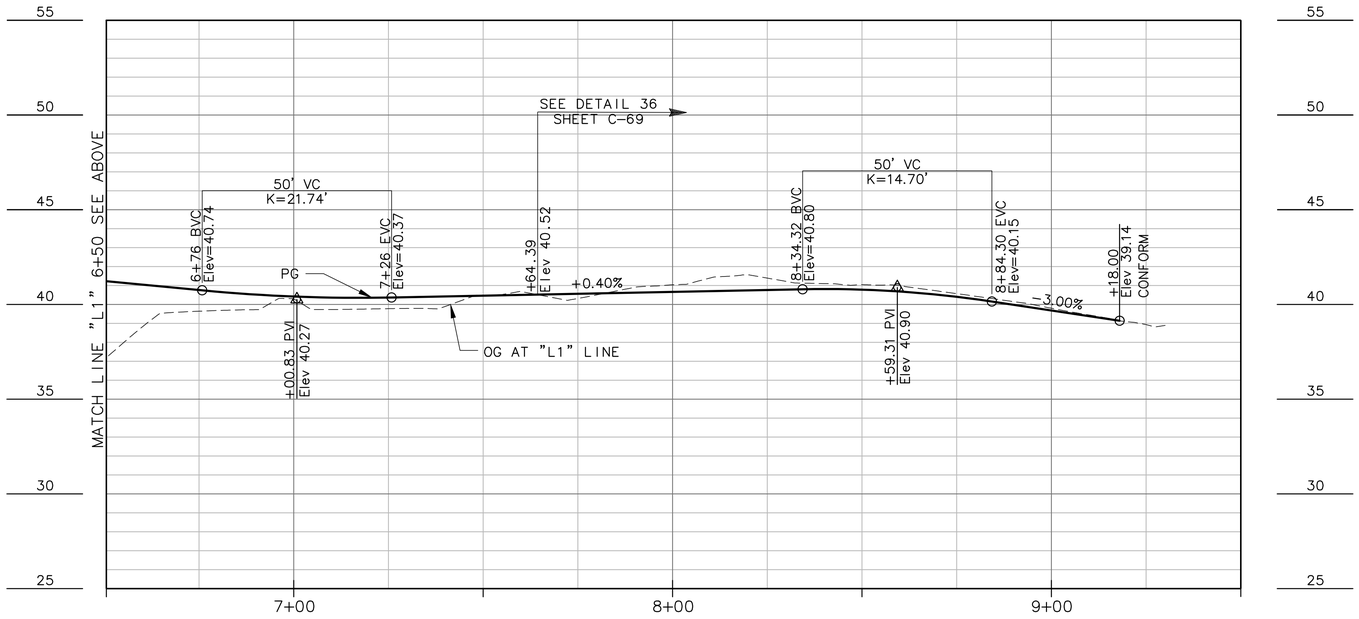
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
PROFILES
RAILYARDS BOULEVARD

T15136000

SHEET 48 OF 648



"L1" LINE



"L1" LINE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-49

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

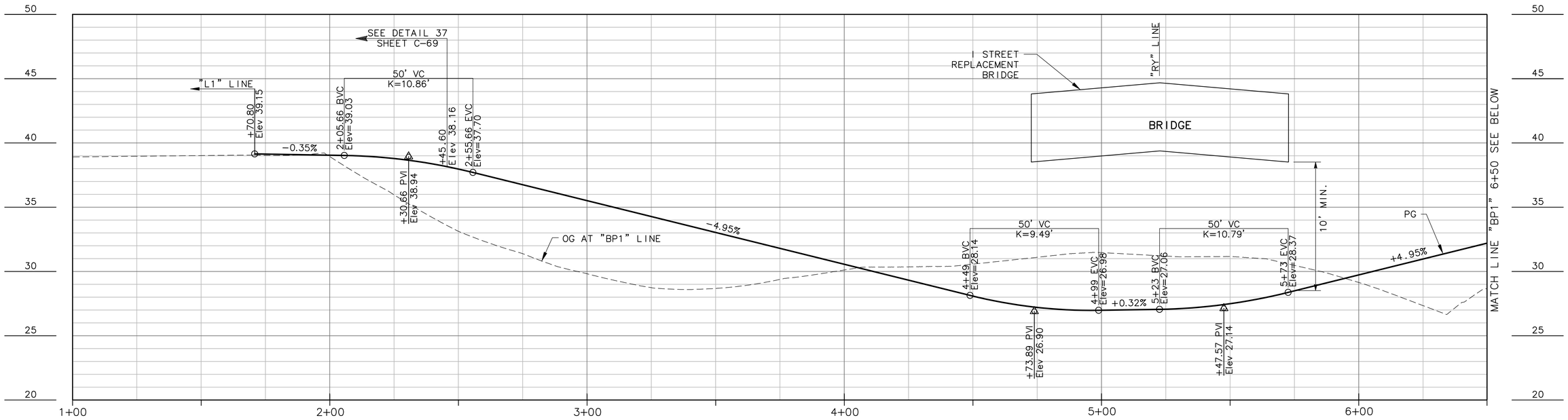
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

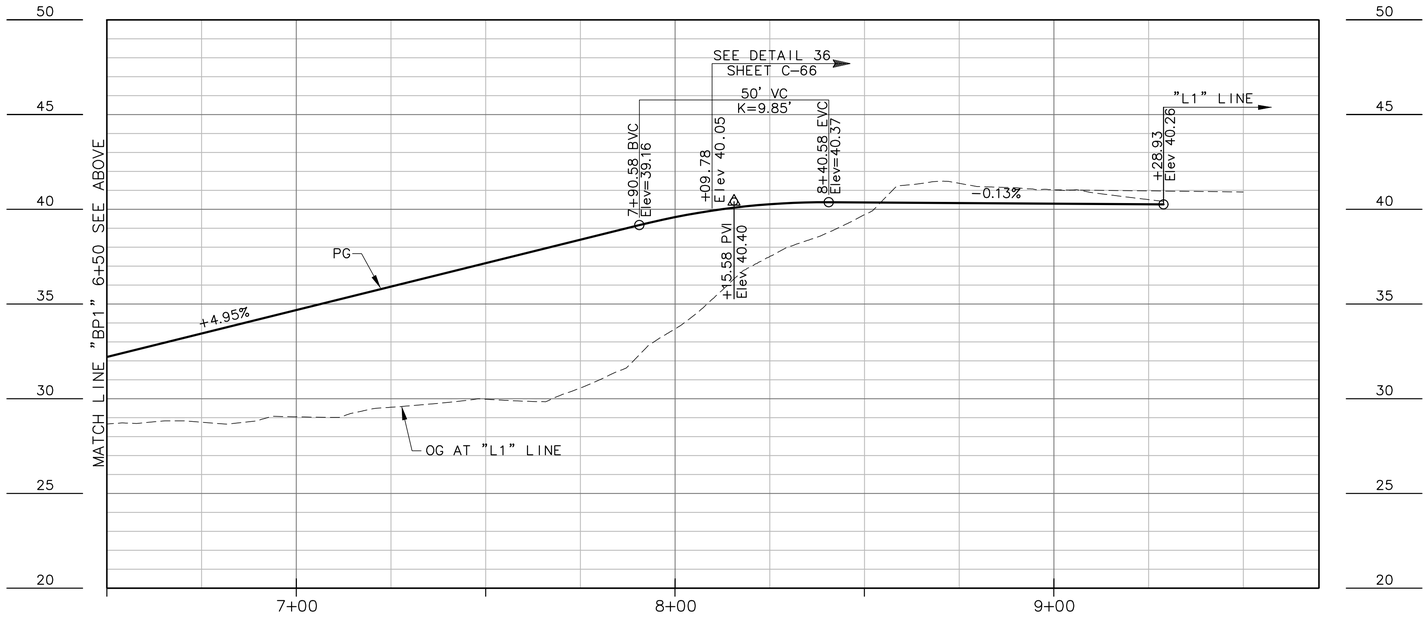
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
PROFILES
WEST SACRAMENTO LEVEE

T15136000

SHEET 49 OF 648



"BP1" LINE



"BP1" LINE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-50

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

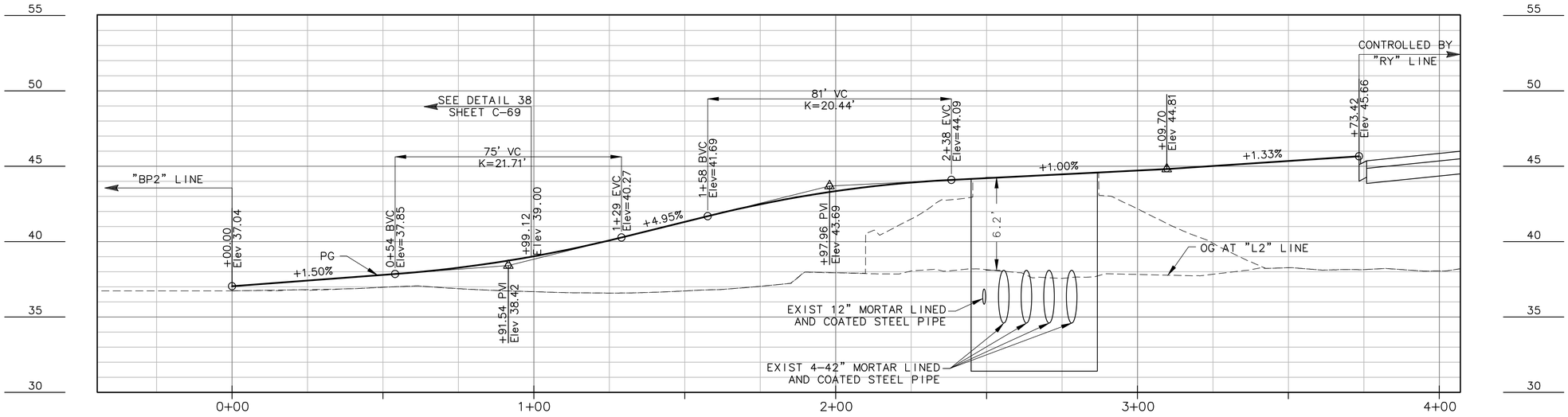
DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
PROFILES
WEST SACRAMENTO BIKE PATH

T15136000

SHEET 50 OF 648



"L2" LINE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-51

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

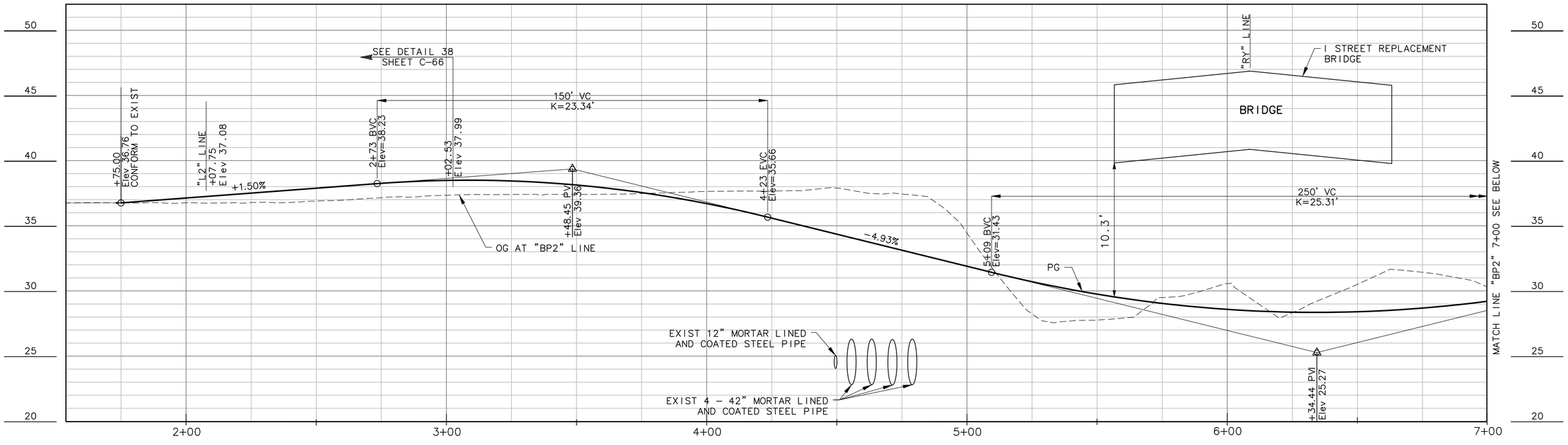
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

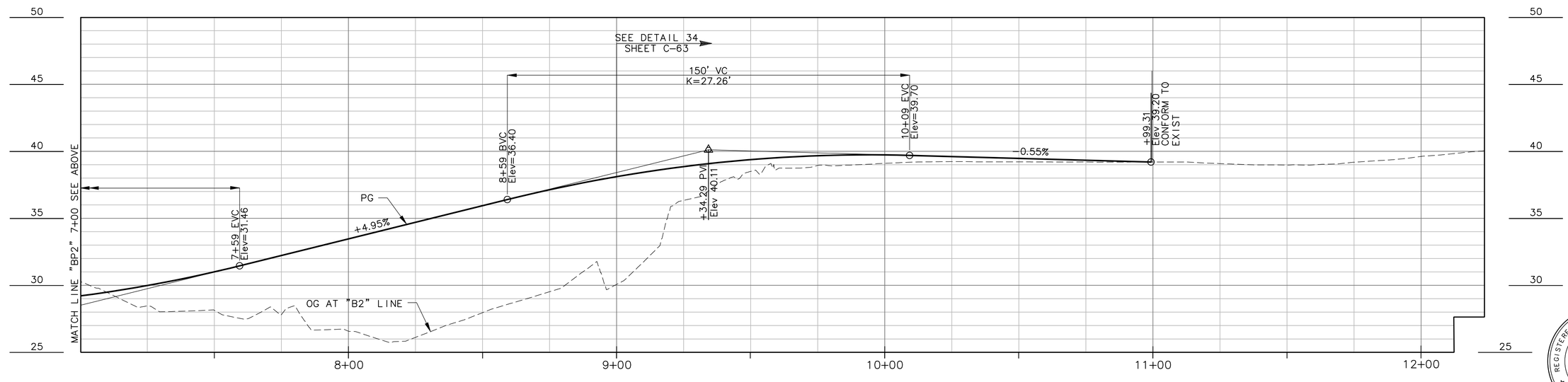
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
PROFILES
SACRAMENTO LEVEE ROAD

T15136000

SHEET 51 OF 648



"BP2" LINE



"BP2" LINE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-52

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

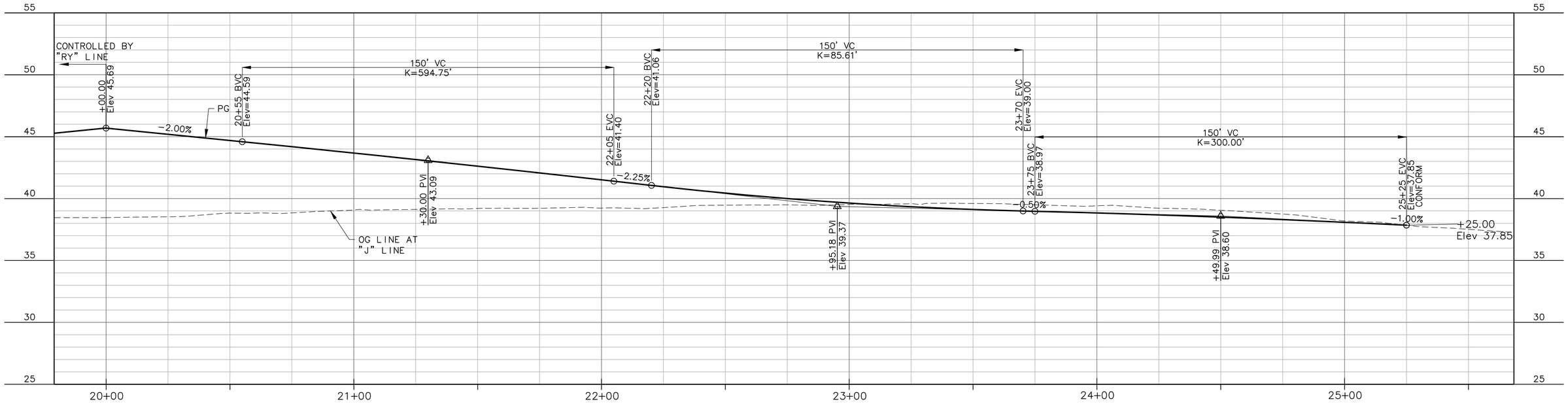
DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER PROFILES SACRAMENTO RIVER BIKE TRAIL

T15136000

SHEET 52 OF 648



"J" LINE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-53

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER PROFILES JIBBOOM STREET AND BERCUT DRIVE

T15136000

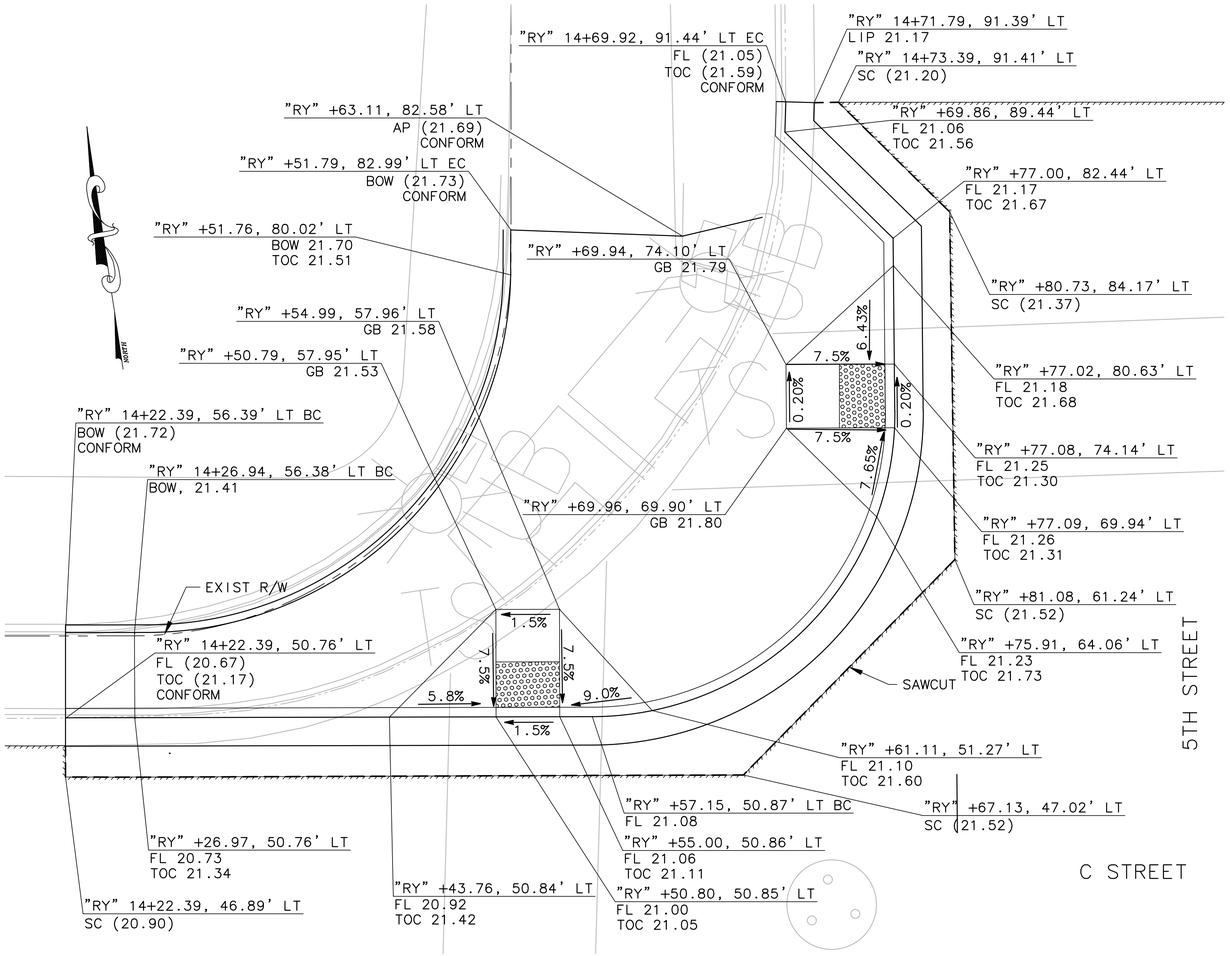
SHEET 53 OF 648

GENERAL NOTES:

1. MEASUREMENTS FOR ATTACHED SIDEWALK ARE FROM FLOW LINE.
2. CURB, GUTTER, AND SIDEWALK (WEST SACRAMENTO) TO BE CONSTRUCTED PER CITY OF WEST SACRAMENTO STANDARD DETAIL #201.
5. CONCRETE MEDIAN AND MEDIAN CURB (WEST SACRAMENTO) TO BE CONSTRUCTED PER CITY OF WEST SACRAMENTO STANDARD #203 & #204.
6. CURB, GUTTER, AND SIDEWALK (TYPE 2) TO BE CONSTRUCTED PER CITY OF SACRAMENTO STANDARD DETAIL T–11.
7. BARRIER CURB (TYPE 3) TO BE CONSTRUCTED PER CITY OF SACRAMENTO STANDARD DETAIL T–11.
8. CURB RAMPS IN WEST SACRAMENTO TO BE CONSTRUCTED PER CITY OF WEST SACRAMENTO STANDARD DETAILS #208, #208A, #209, AND #209A.

LEGEND:

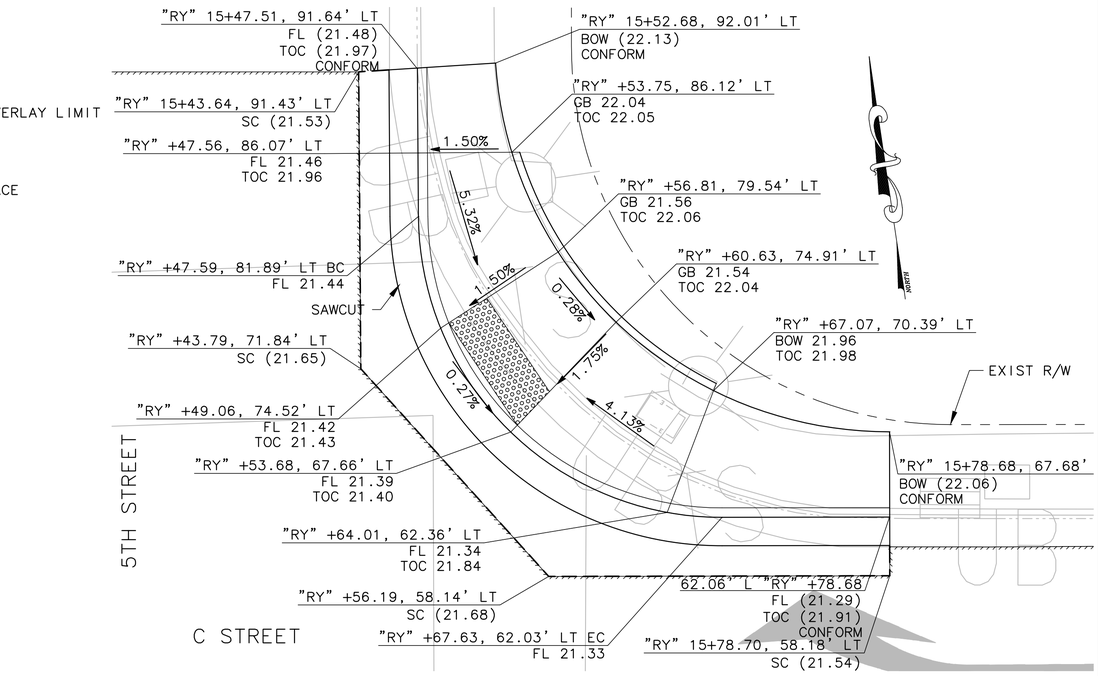
- PCC
- SAWCUT LINE
- COLD PLANE (2.5") AND OVERLAY LIMIT
- EXIST PROPERTY LINE
- EXIST RIGHT OF WAY
- DETECTABLE WARNING SURFACE
- (XXX.XX) EXISTING ELEVATION



CURB RAMP DETAIL 1

SCALE: 1" = 5'

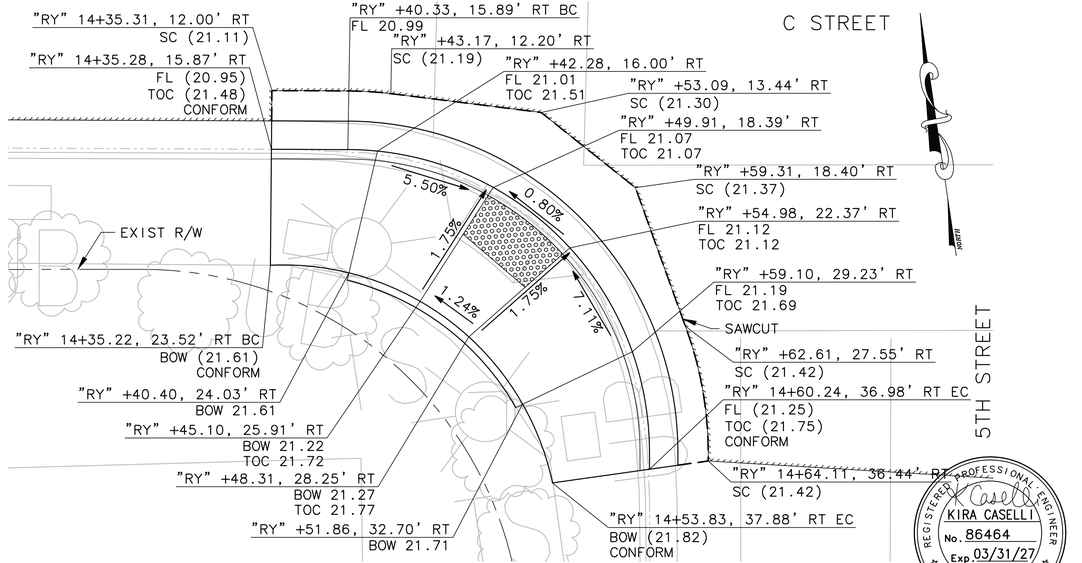
(1)



CURB RAMP DETAIL 2

SCALE: 1" = 5'

(2)



CURB RAMP DETAIL 3

SCALE: 1" = 5'

(3)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-54

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297–B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

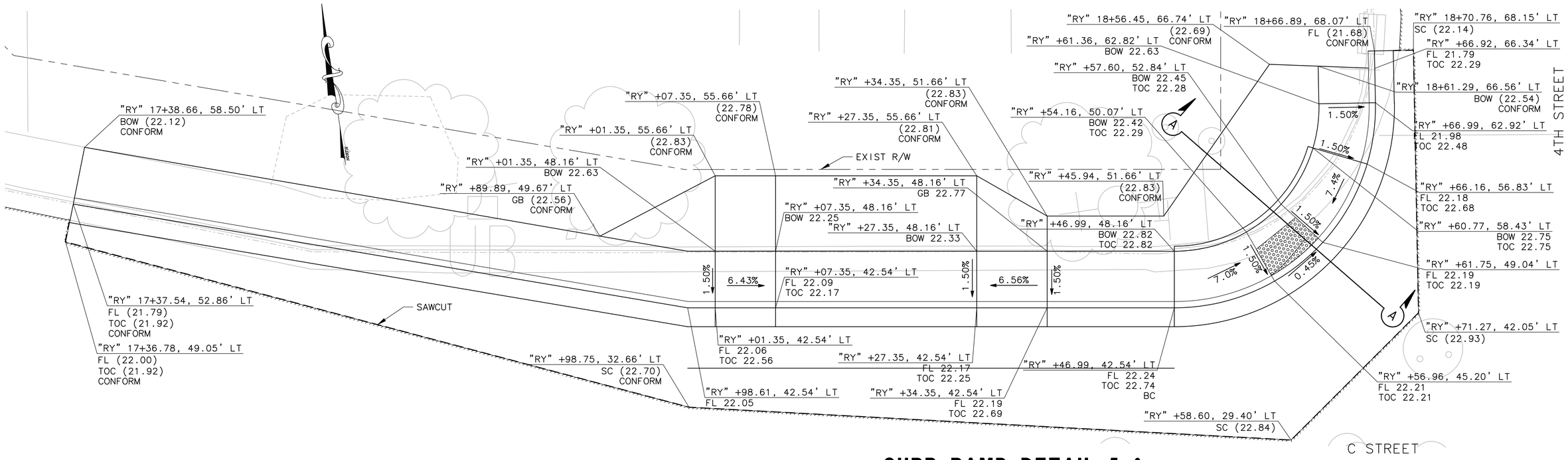
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER CONSTRUCTION DETAILS WEST SACRAMENTO

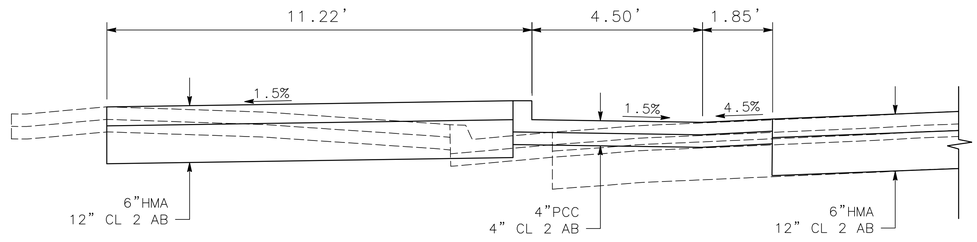
T15136000

SHEET 54 — OF — 648



CURB RAMP DETAIL 5 & DRIVEWAY 1 GRADING (6)

SCALE: 1" = 5'



SECTION A-A

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-55

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

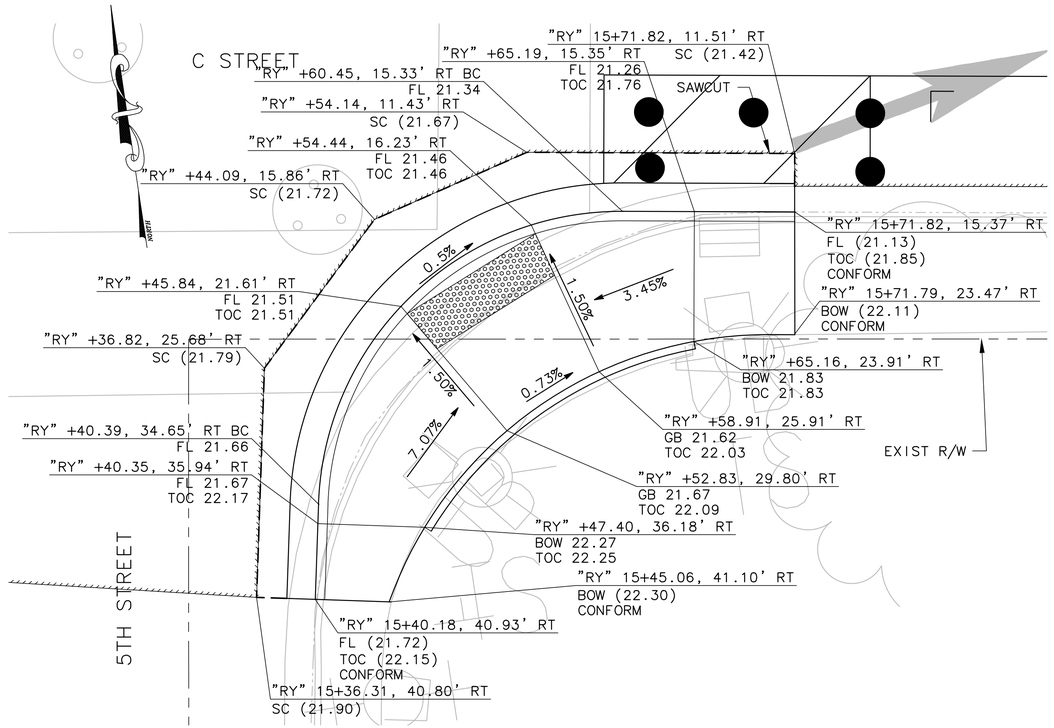
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
WEST SACRAMENTO

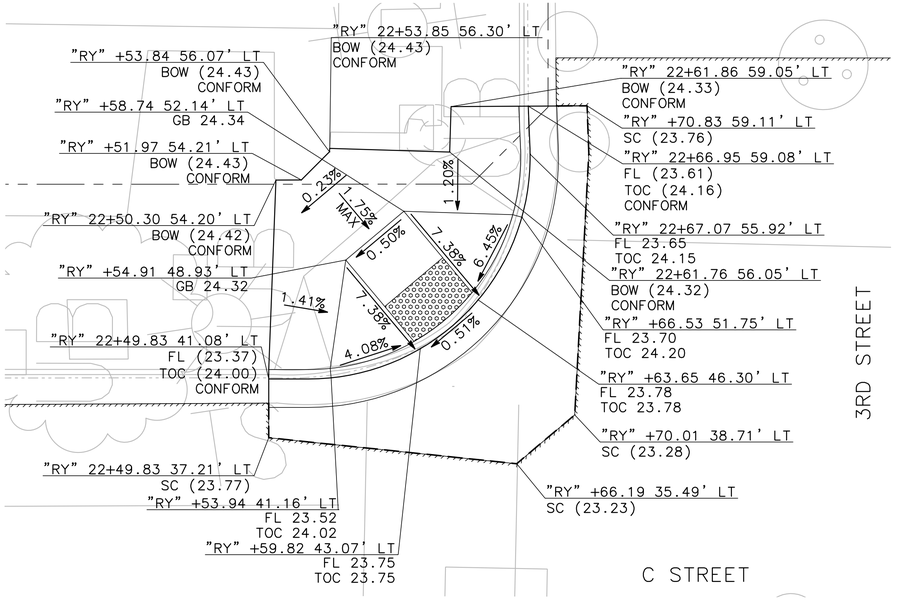
T15136000

SHEET 55 — OF — 648



CURB RAMP DETAIL 4 (4)

SCALE: 1" = 5'



CURB RAMP DETAIL 8 (8)

SCALE: 1" = 5'

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-56

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

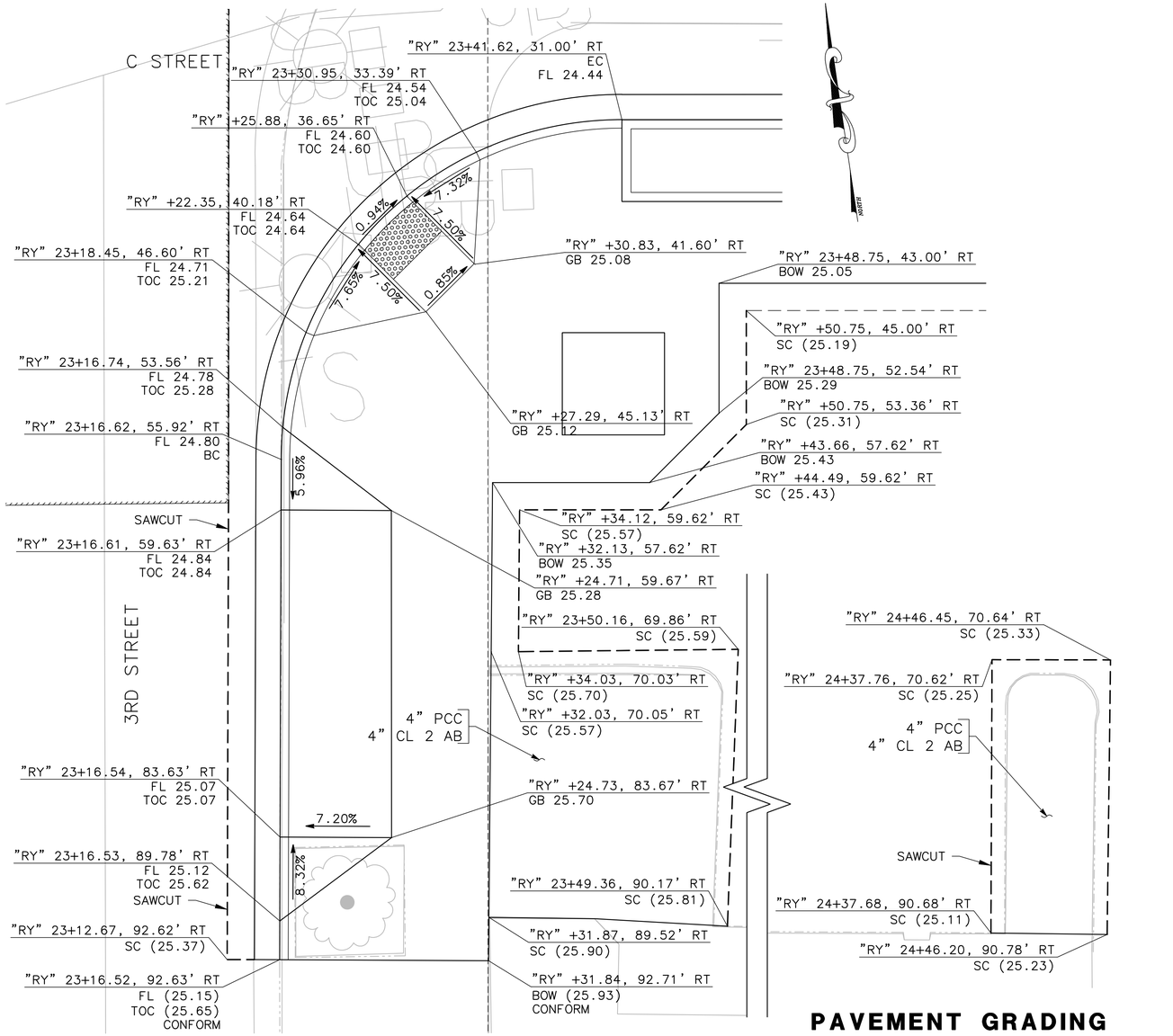
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
WEST SACRAMENTO

T15136000

SHEET 56 — OF — 648

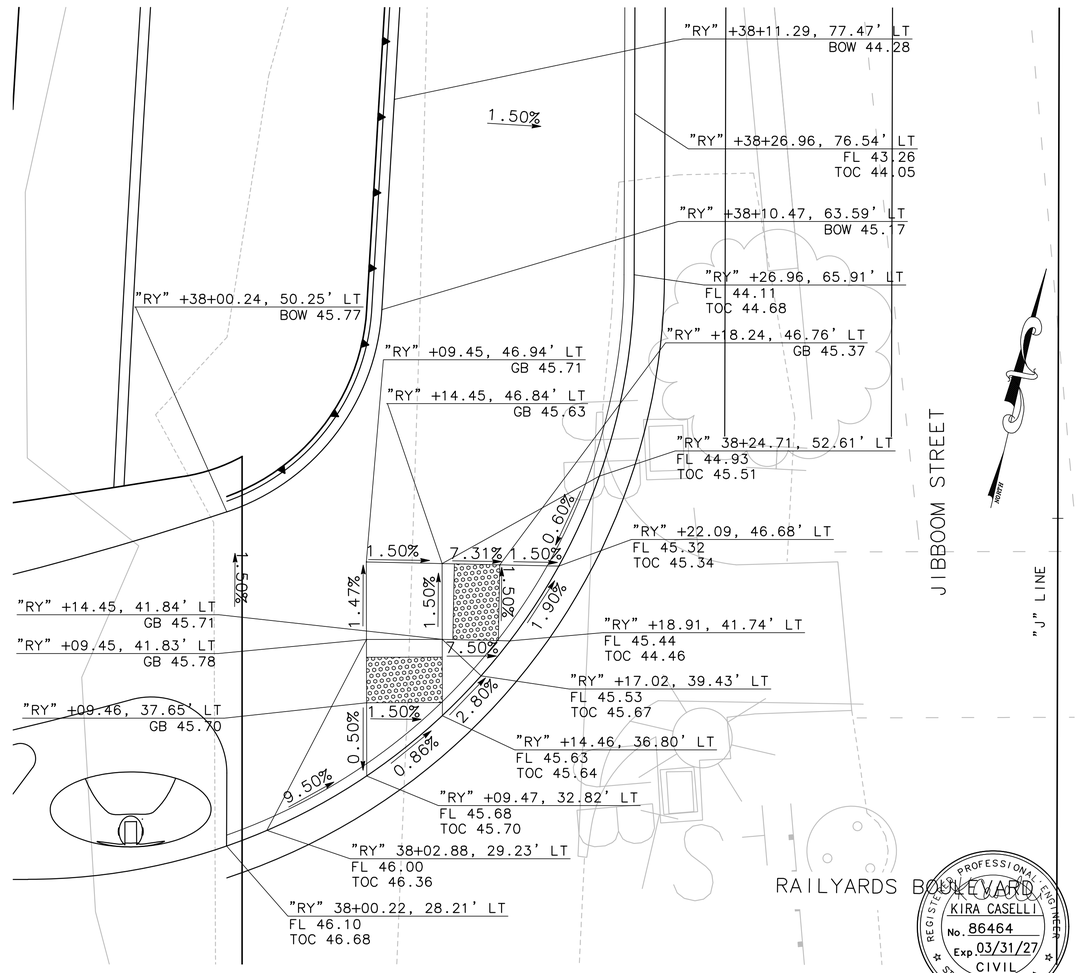


CURB RAMP DETAIL 9 & DRIVEWAY 2 GRADING (9)

SCALE: 1" = 5'

PAVEMENT GRADING DETAIL (10)

SCALE: 1" = 5'



CURB RAMP DETAIL 11 (17)

SCALE: 1" = 5'

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-57

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

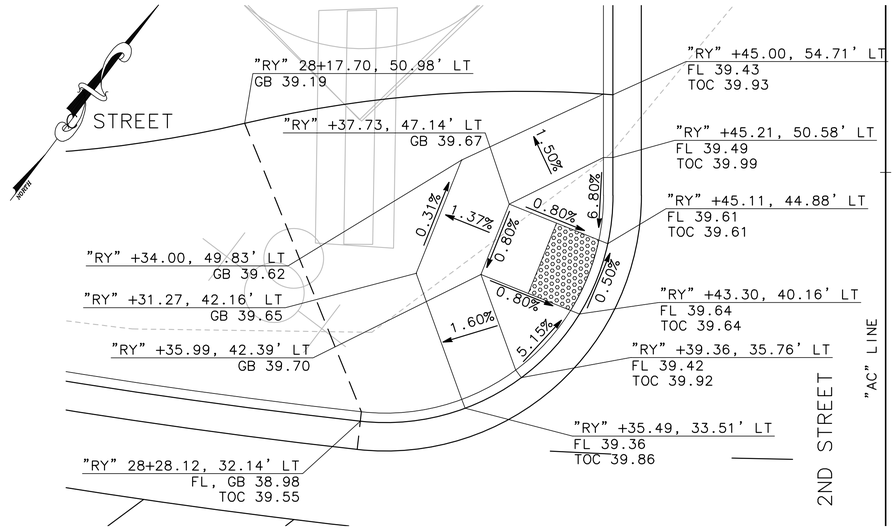
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER CONSTRUCTION DETAILS WEST SACRAMENTO

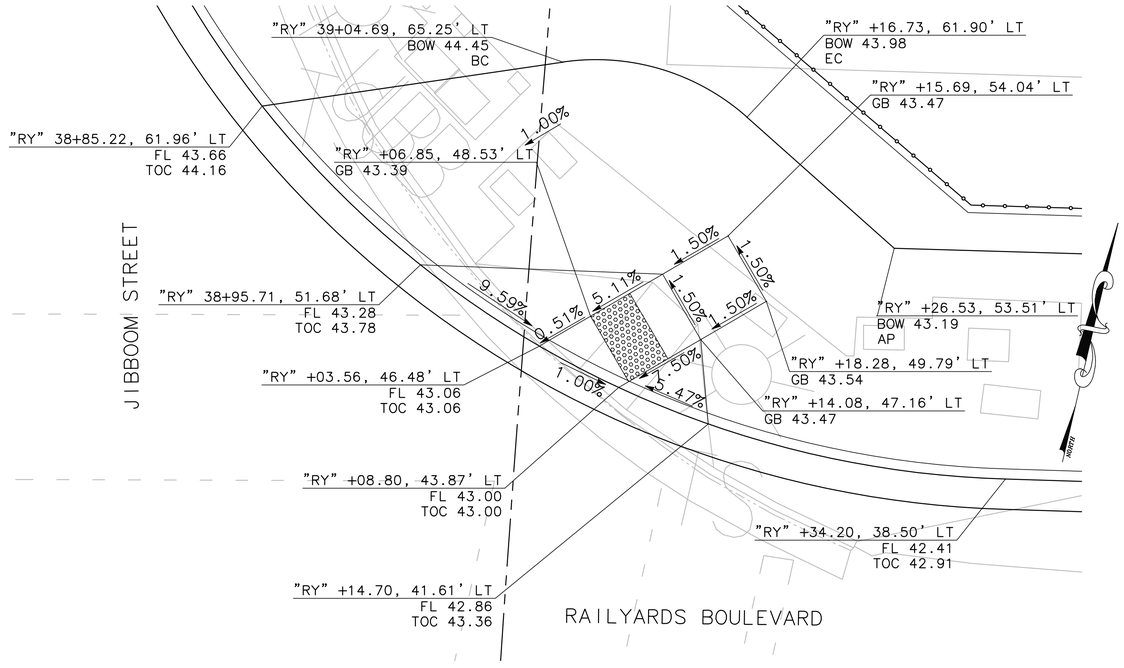
T15136000

SHEET 57 — OF — 648



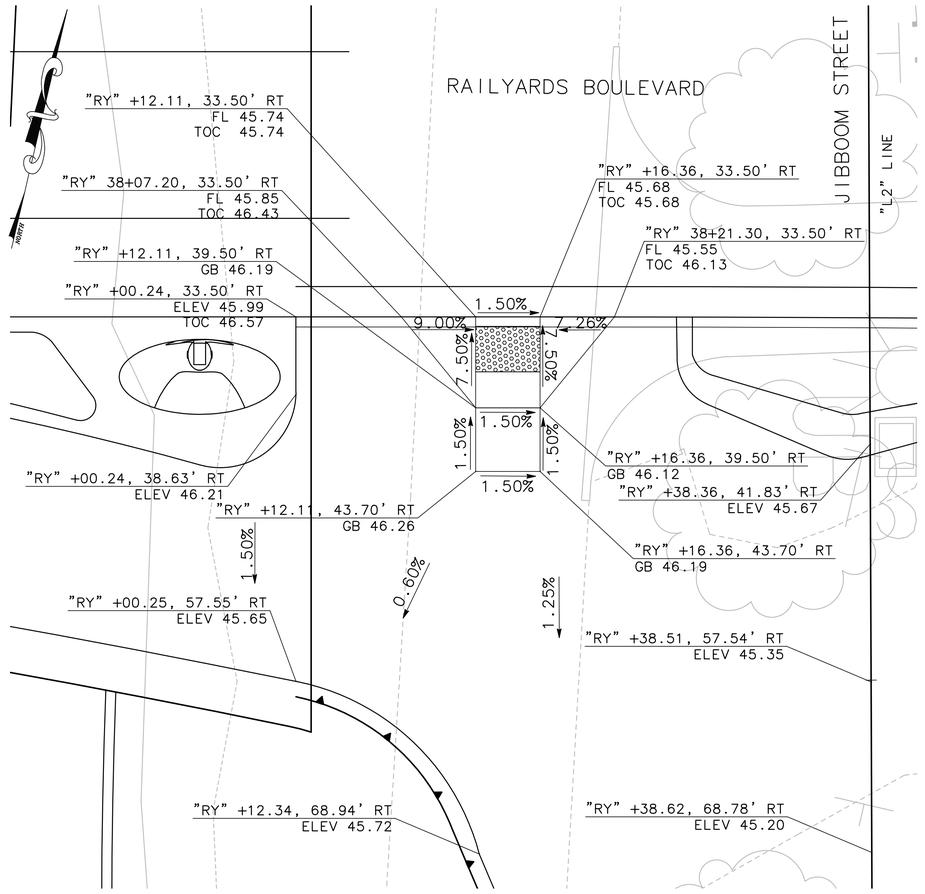
CURB RAMP DETAIL 10 (14)

SCALE: 1" = 5'



CURB RAMP DETAIL 12 (18)

SCALE: 1" = 5'



CURB RAMP DETAIL 13 (19)

SCALE: 1" = 5'

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-58

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

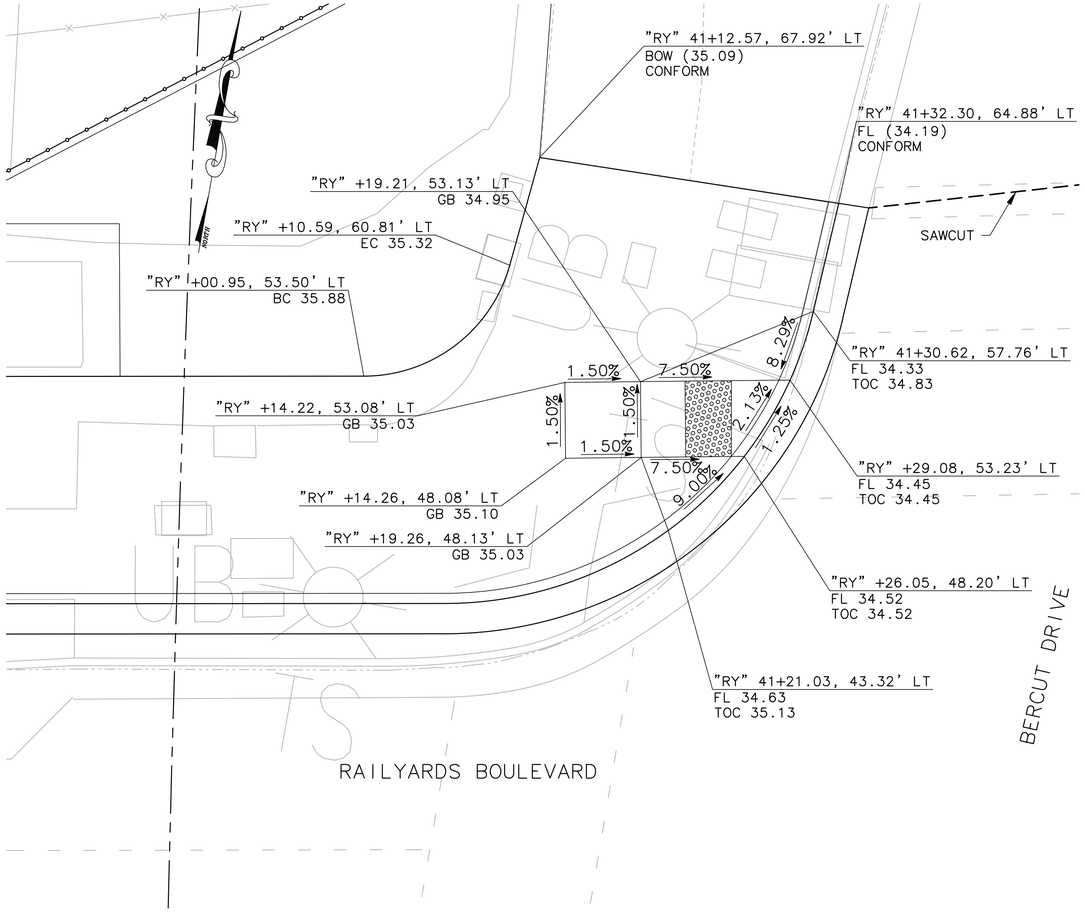
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
SACRAMENTO

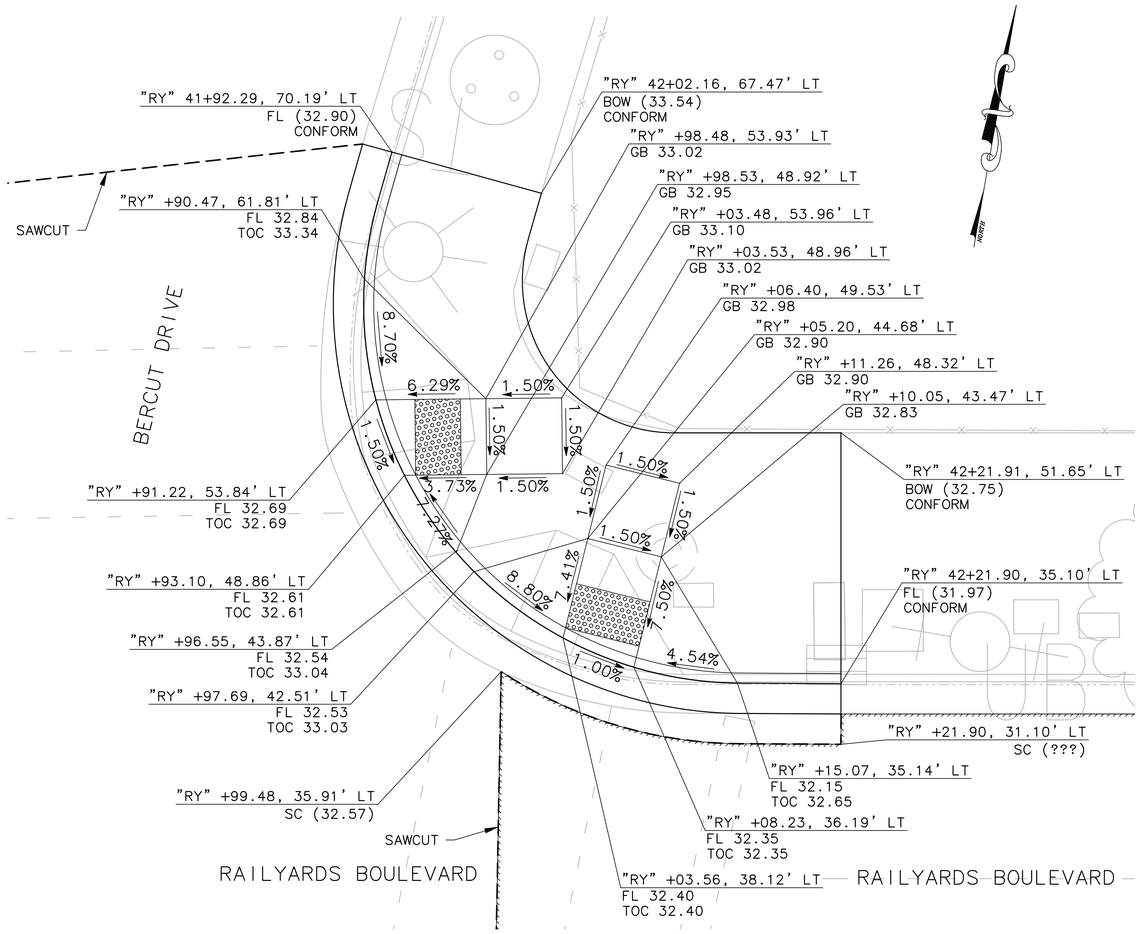
T15136000

SHEET 58 — OF — 648



CURB RAMP DETAIL 14 (22)

SCALE: 1" = 5'



CURB RAMP DETAIL 15 (23)

SCALE: 1" = 5'

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-59

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

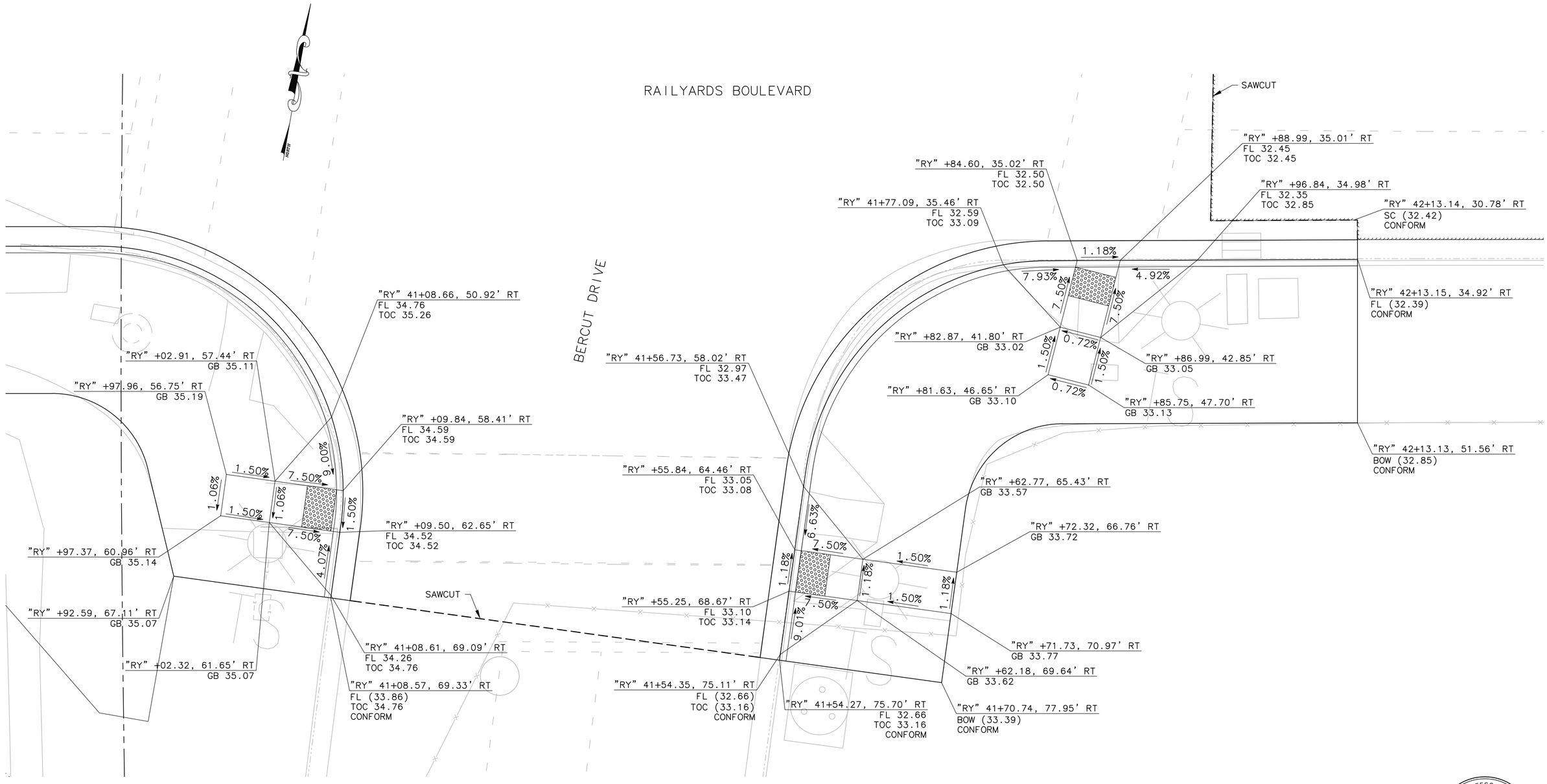
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
SACRAMENTO

T15136000

SHEET 59 — OF — 648



CURB RAMP DETAIL 16 (24)

SCALE: 1" = 5'

CURB RAMP DETAIL 17 (25)

SCALE: 1" = 5'

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-60

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

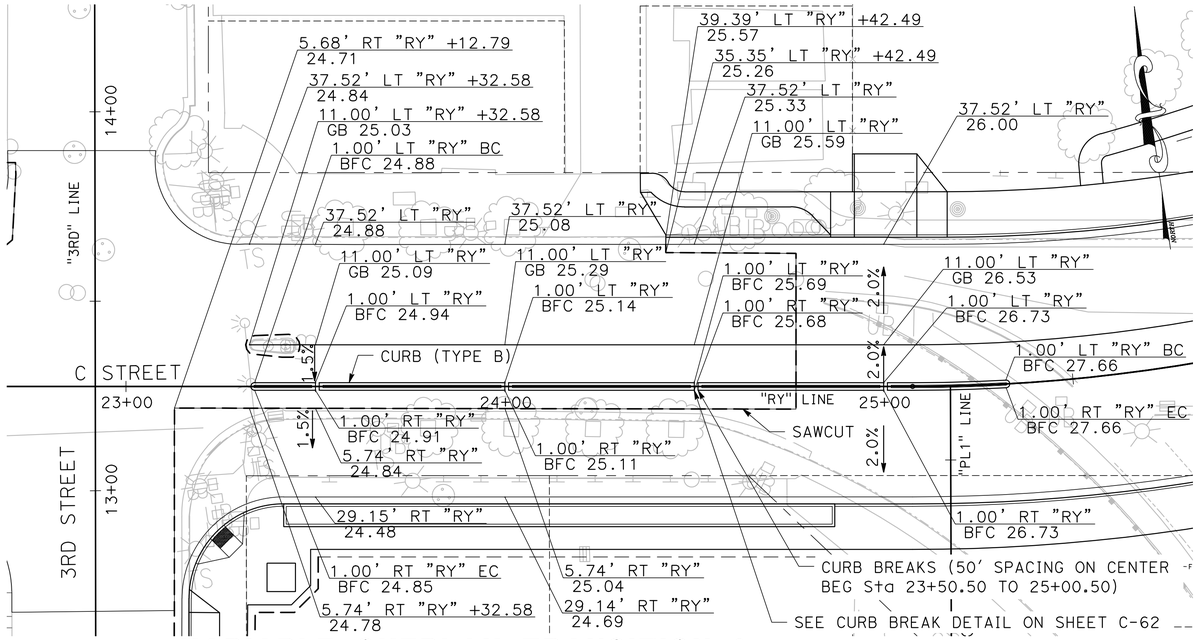
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
SACRAMENTO

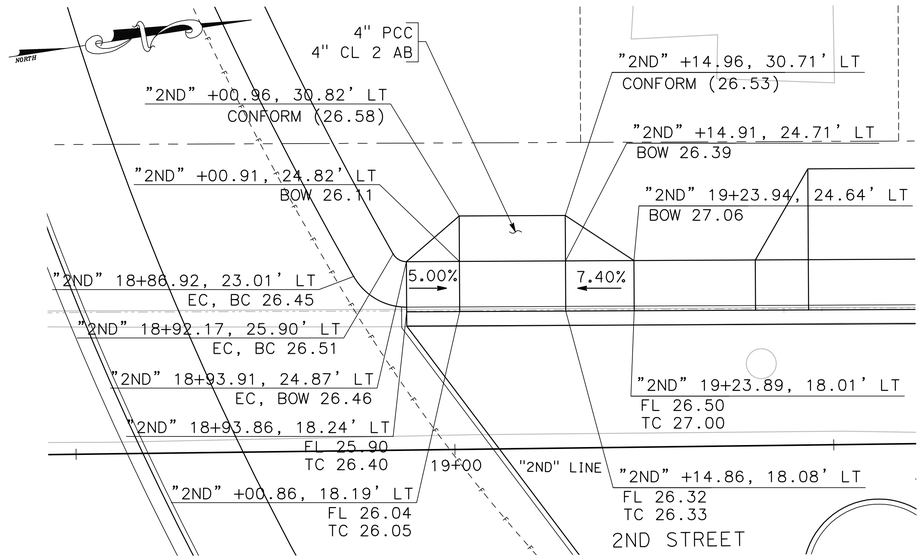
T15136000

SHEET 60 OF 648



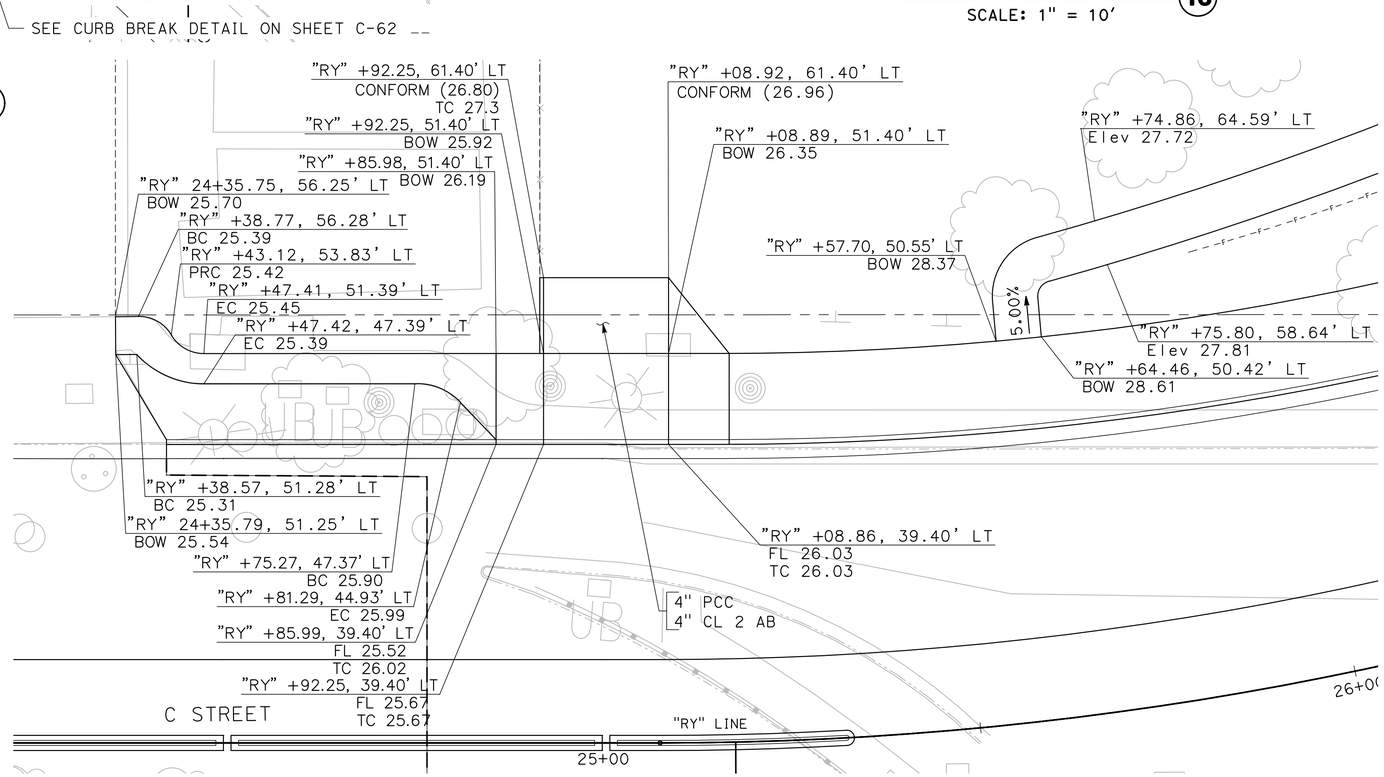
VARIABLE OVERLAY TRANSITION & CONCRETE MEDIAN DETAIL (10)

SCALE: 1" = 20'



DRIVEWAY 5 (13)

SCALE: 1" = 10'



DRIVEWAY 3 (11)

SCALE: 1" = 10'

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-61

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

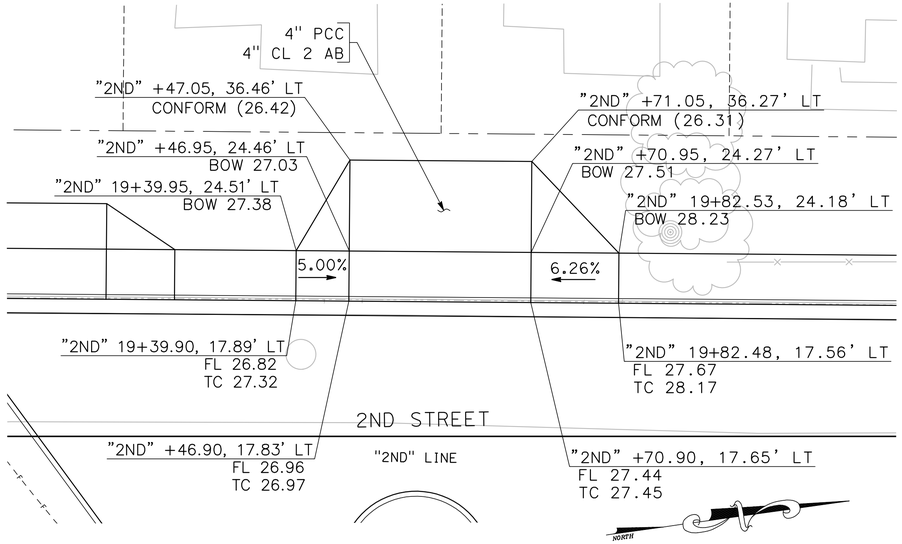
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER CONSTRUCTION DETAILS WEST SACRAMENTO

T15136000

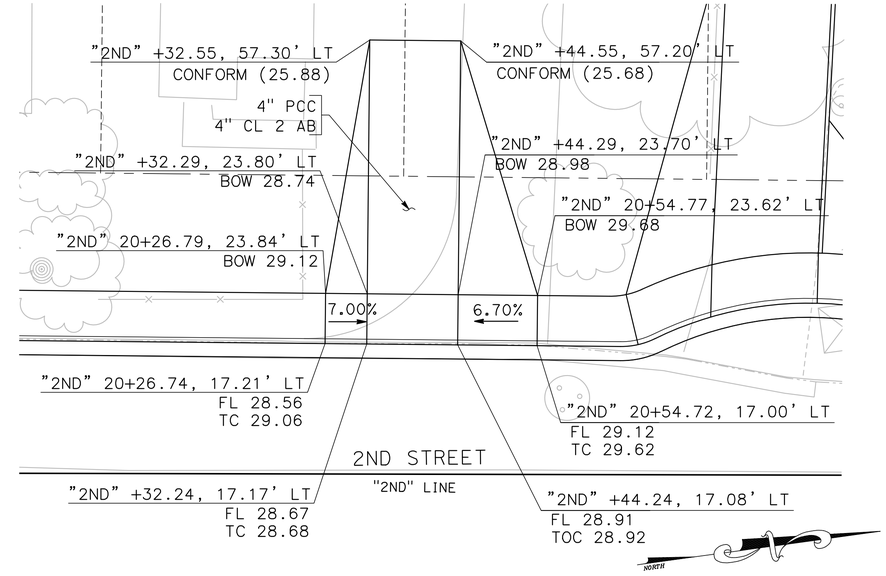
SHEET 61 OF 648



DRIVEWAY 6

SCALE: 1" = 10'

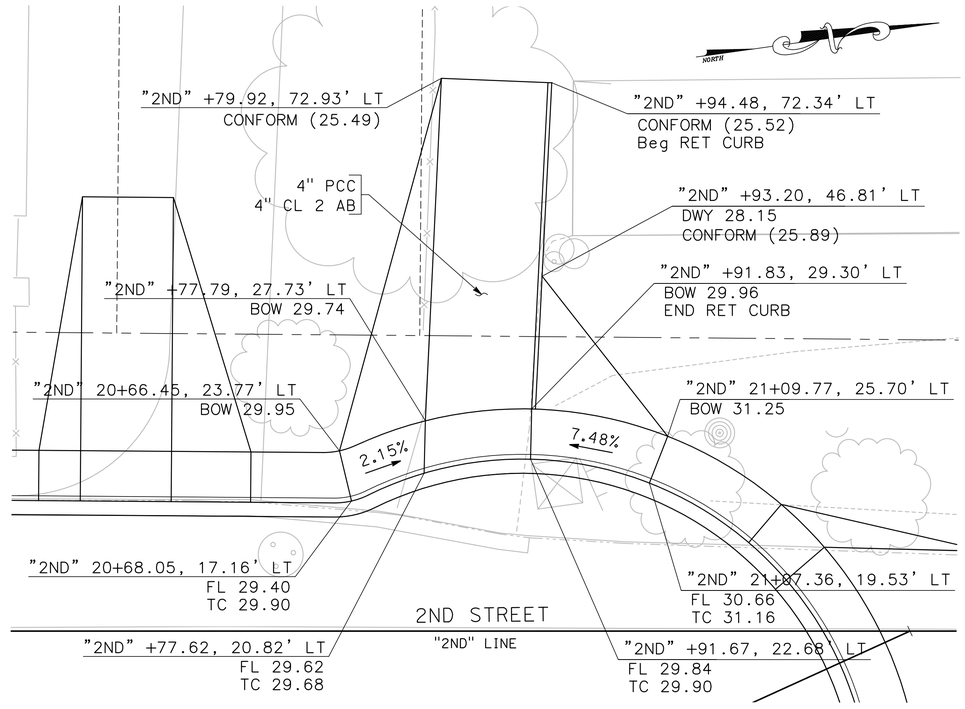
26



DRIVEWAY 7

SCALE: 1" = 10'

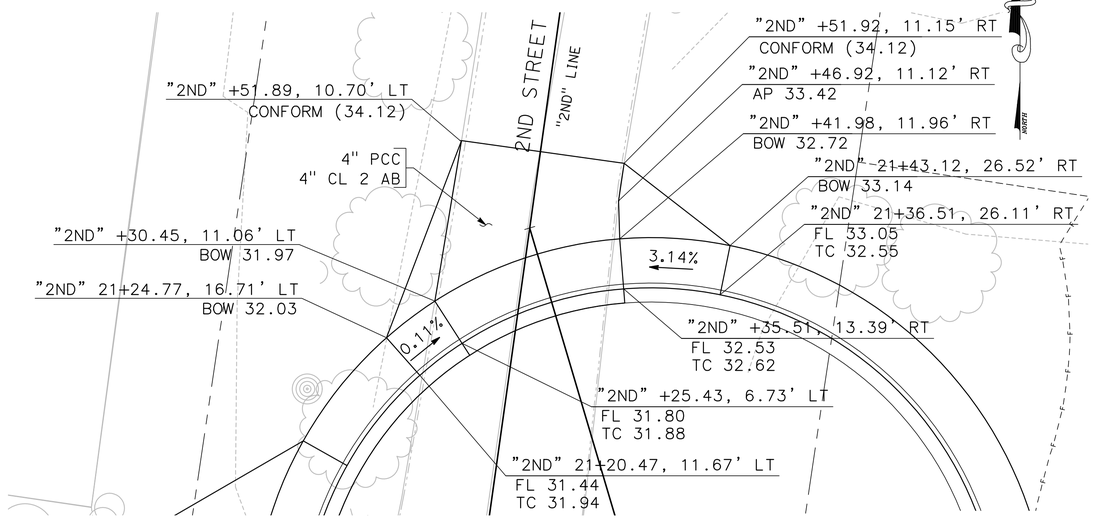
27



DRIVEWAY 8

SCALE: 1" = 10'

28



DRIVEWAY 9

SCALE: 1" = 10'

29

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-62

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

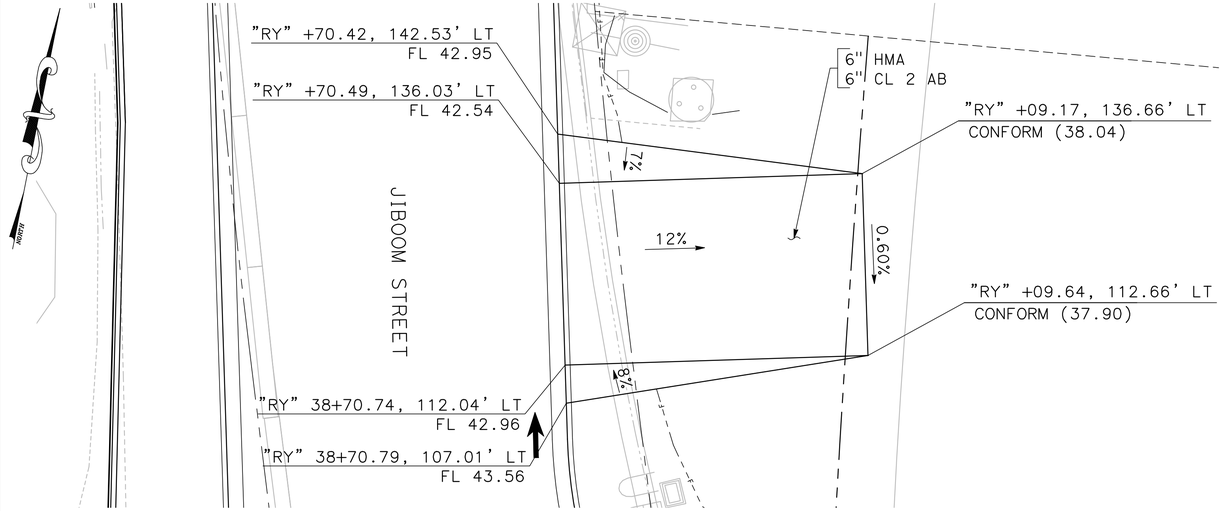
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

CONSTRUCTION DETAILS
WEST SACRAMENTO

T15136000

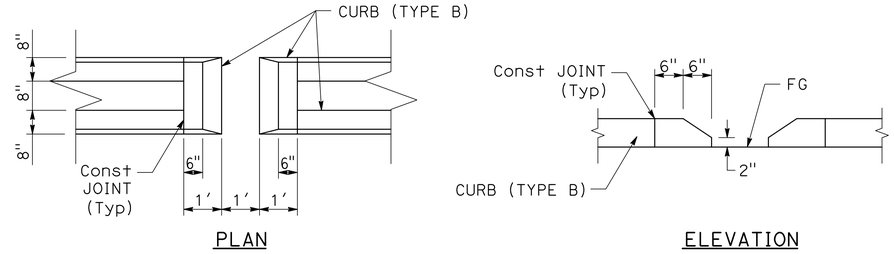
SHEET 62 OF 648



DRIVEWAY 11

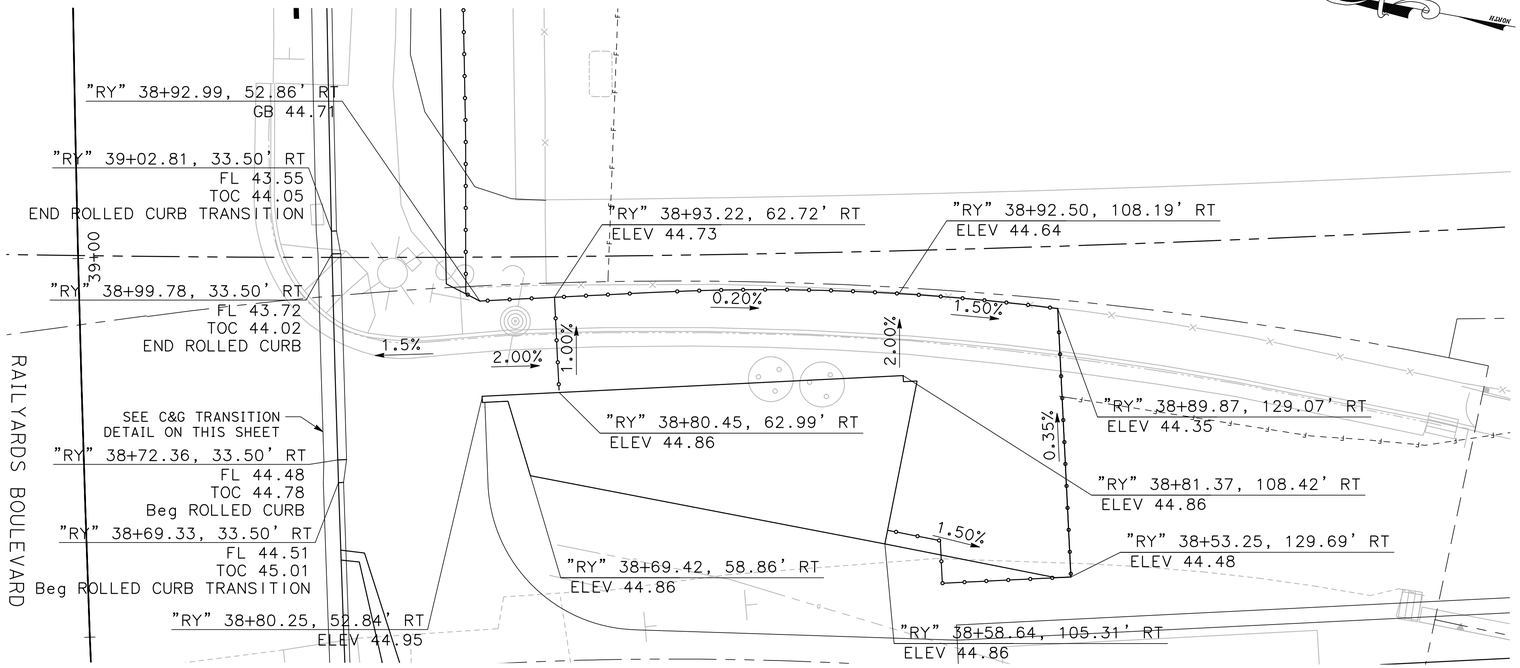
SCALE: 1" = 10'

20



CURB BREAK IN MEDIAN

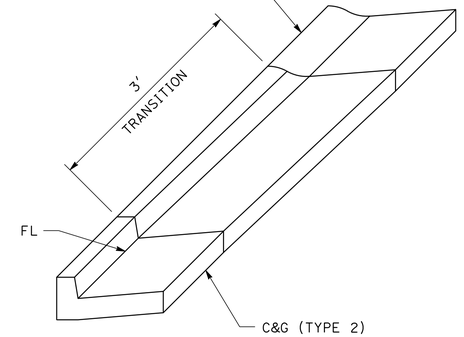
NO SCALE



DRIVEWAY 12

SCALE: 1" = 10'

21



C&G TRANSITION DETAIL

NO SCALE

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-63

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

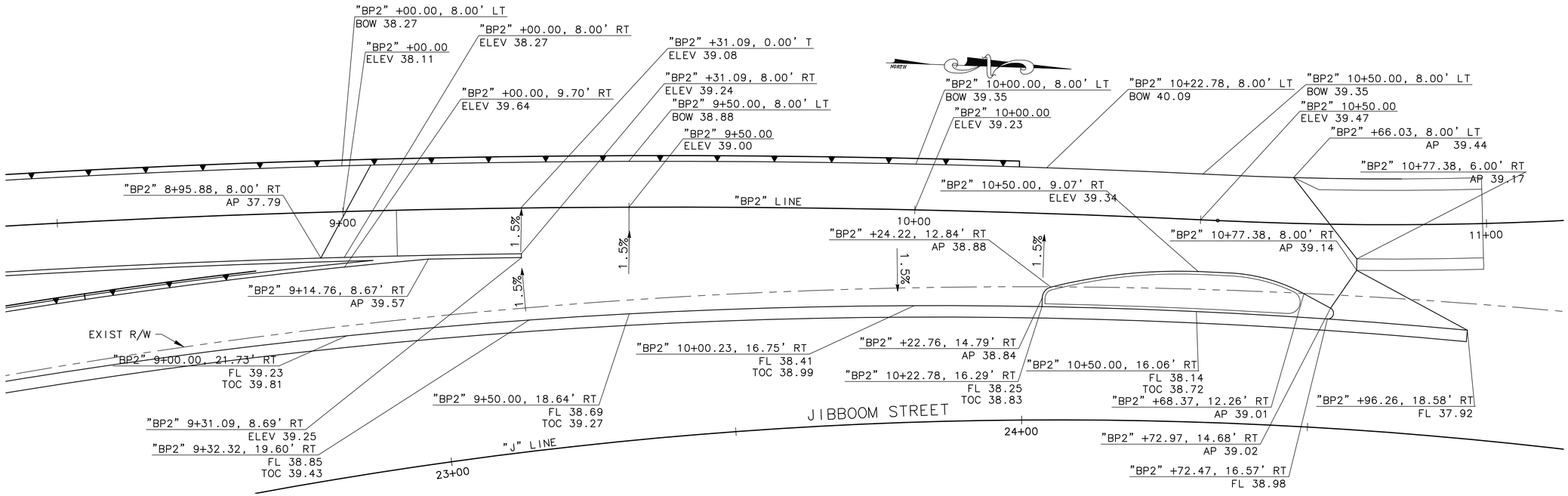
DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS SACRAMENTO

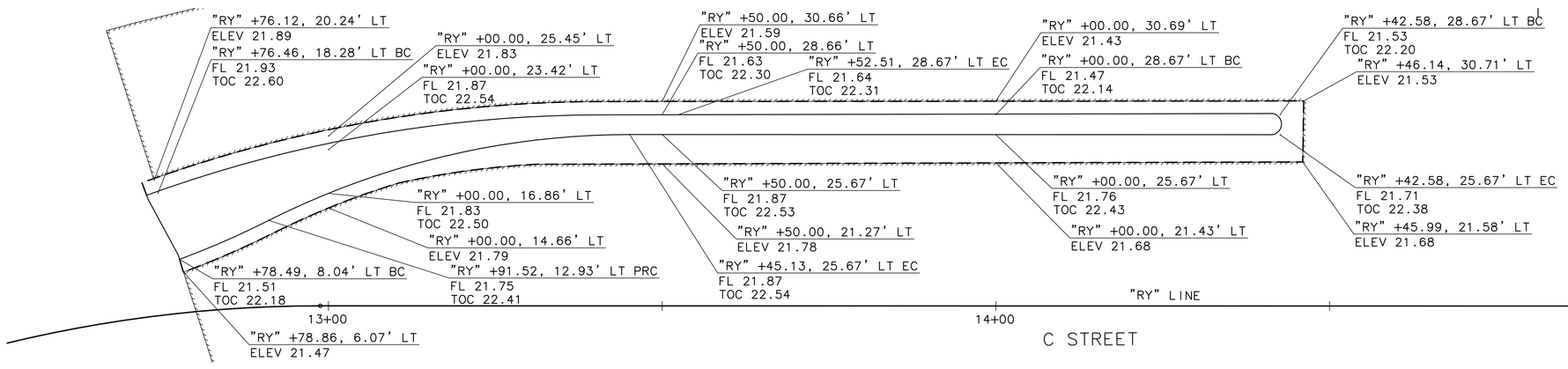
T15136000

SHEET 63 OF 648



SIDEWALK DETAIL 1 (34)

SCALE: 1" = 10'



CONCRETE MEDIAN DETAIL (41)

SCALE: 1" = 10'

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-64

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

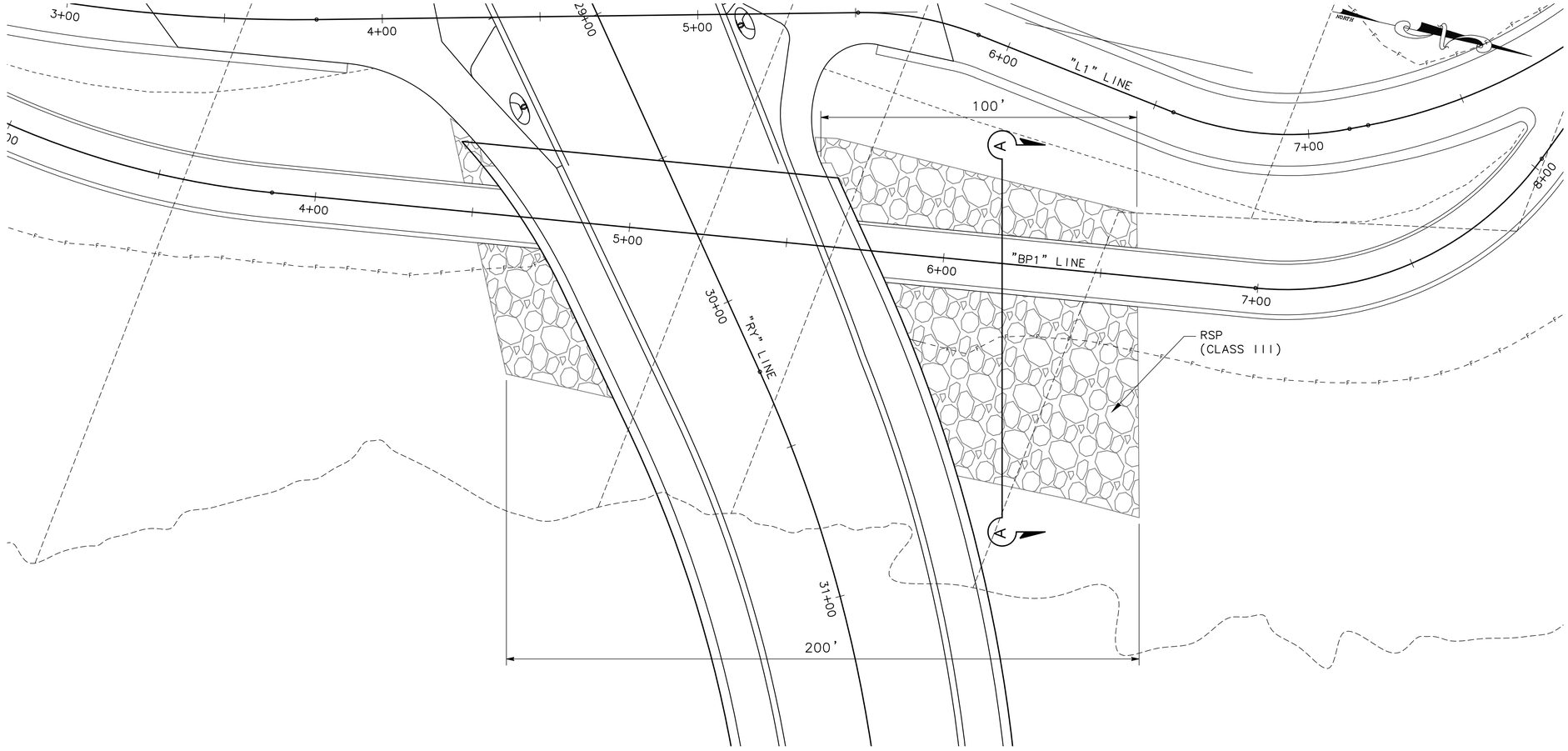
DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
SACRAMENTO

T15136000

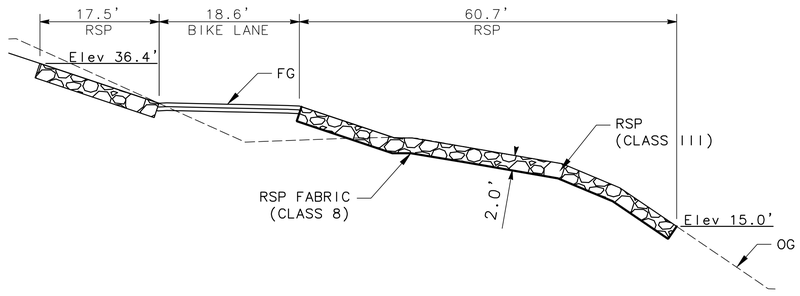
SHEET 64 — OF — 648



RSP DETAIL

SCALE: 1" = 20'

16



SECTION A-A

SCALE: 1" = 10'

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-65

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
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CHECKED BY: Z. SIVIGLIA
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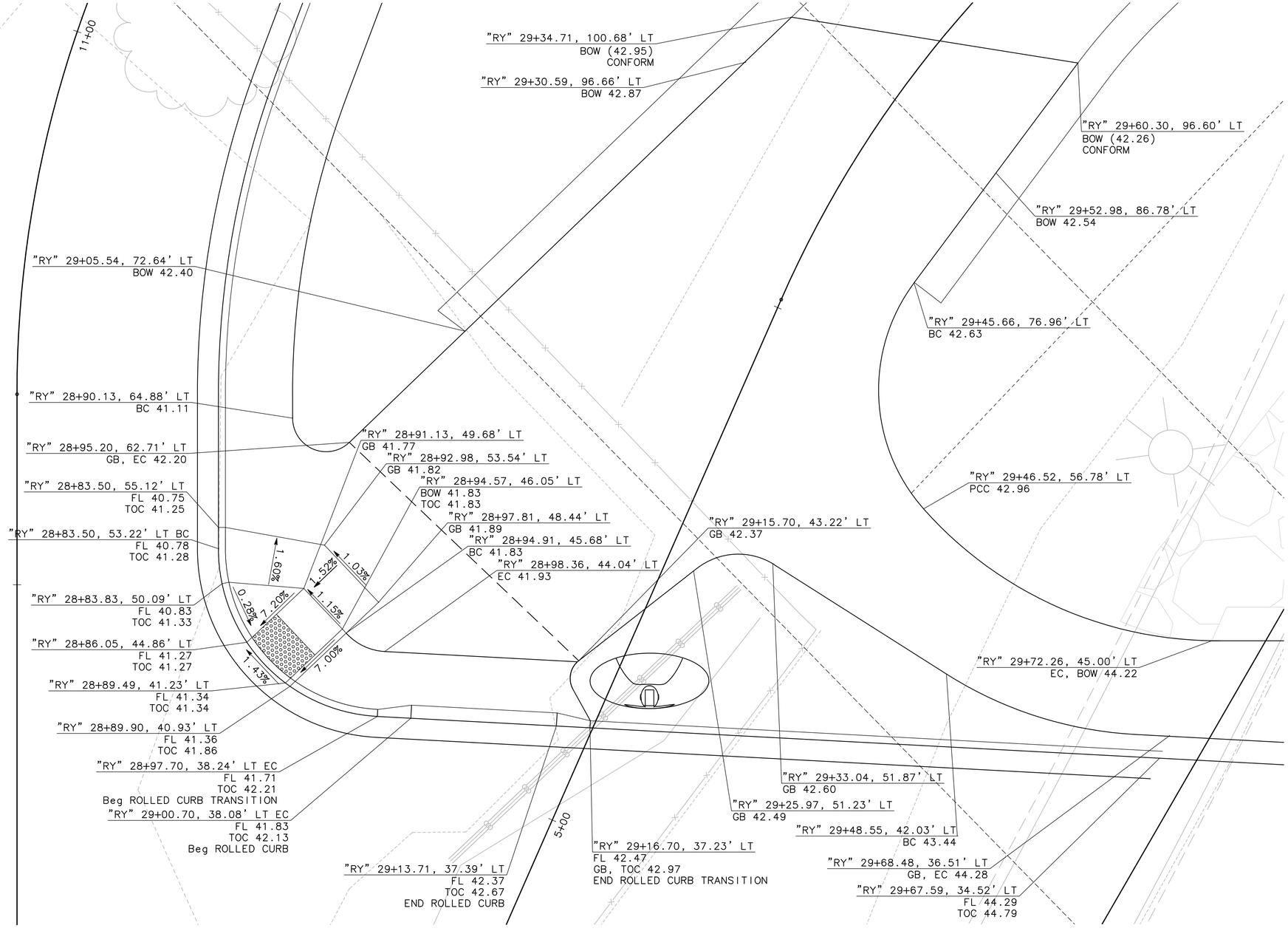
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
SACRAMENTO

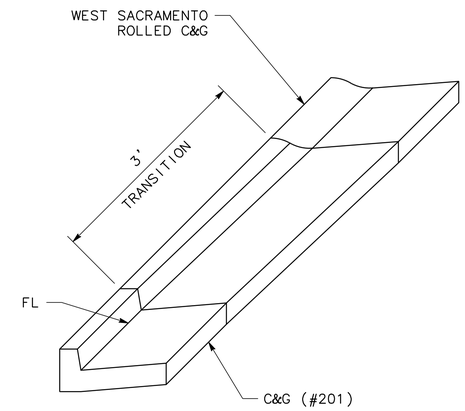
T15136000

SHEET 65 OF 648



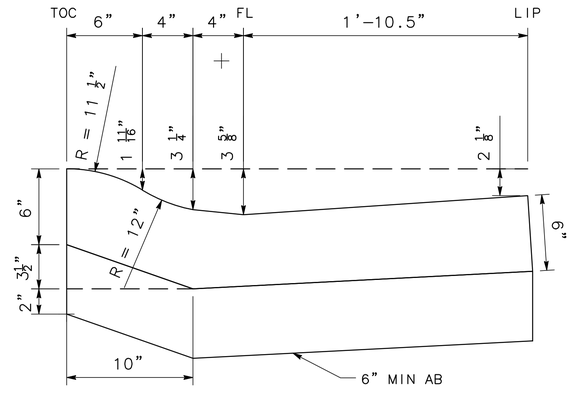
TRANSITIONAL BRIDGE GRADING DETAIL 1 (15)

SCALE: 1" = 5'



C&G TRANSITION DETAIL

NO SCALE



WEST SACRAMENTO ROLLED C&G DETAIL

NO SCALE

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-66

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=5'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

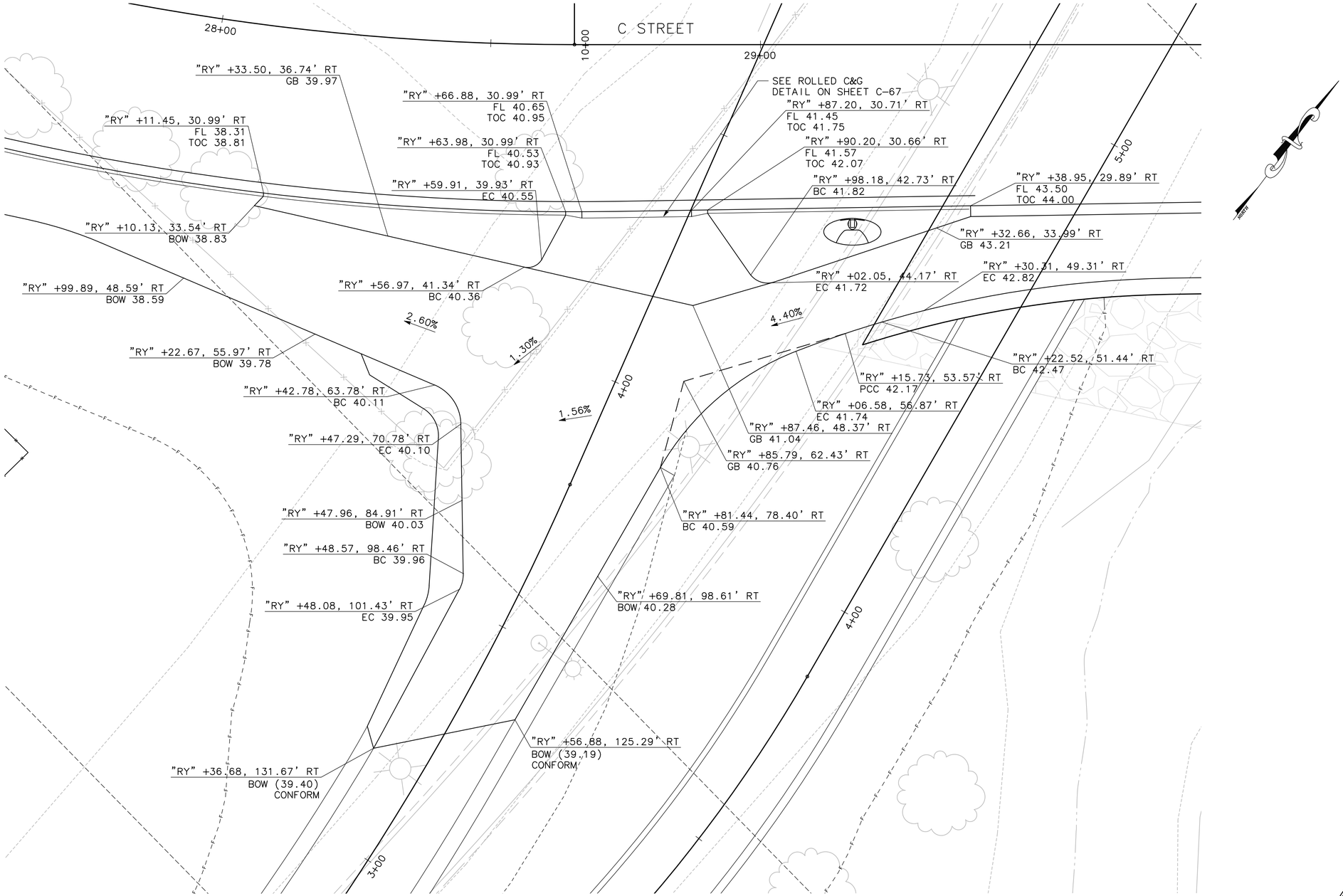
DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
WEST SACRAMENTO

T15136000

SHEET 66 — OF — 648



TRANSITIONAL BRIDGE GRADING DETAIL 2 (35)

SCALE: 1" = 10'

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-67

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=10'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

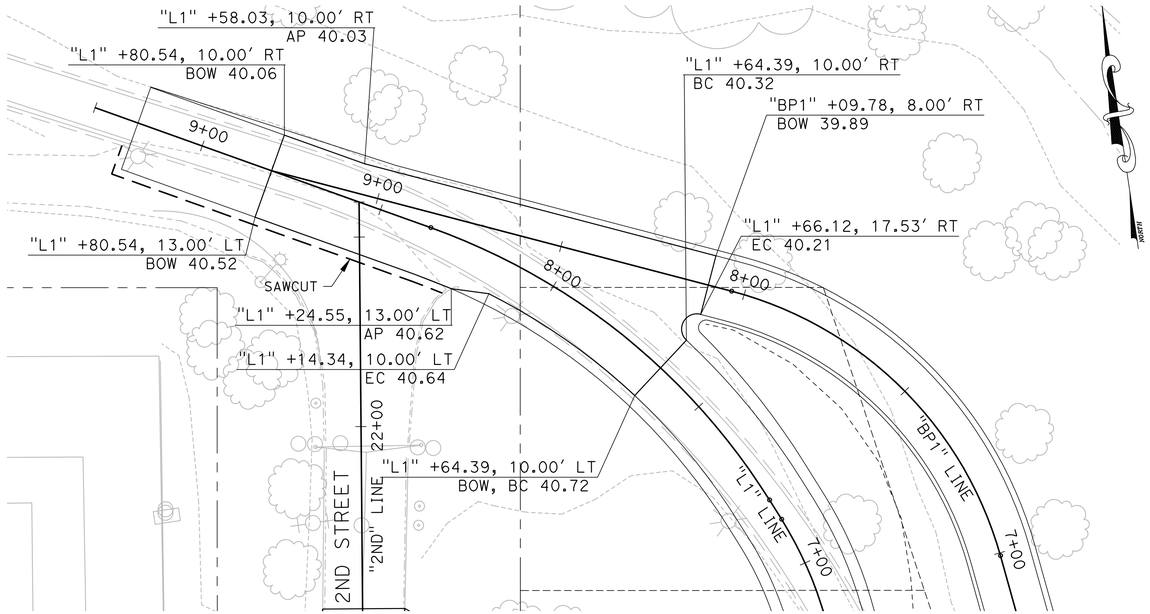
DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
WEST SACRAMENTO

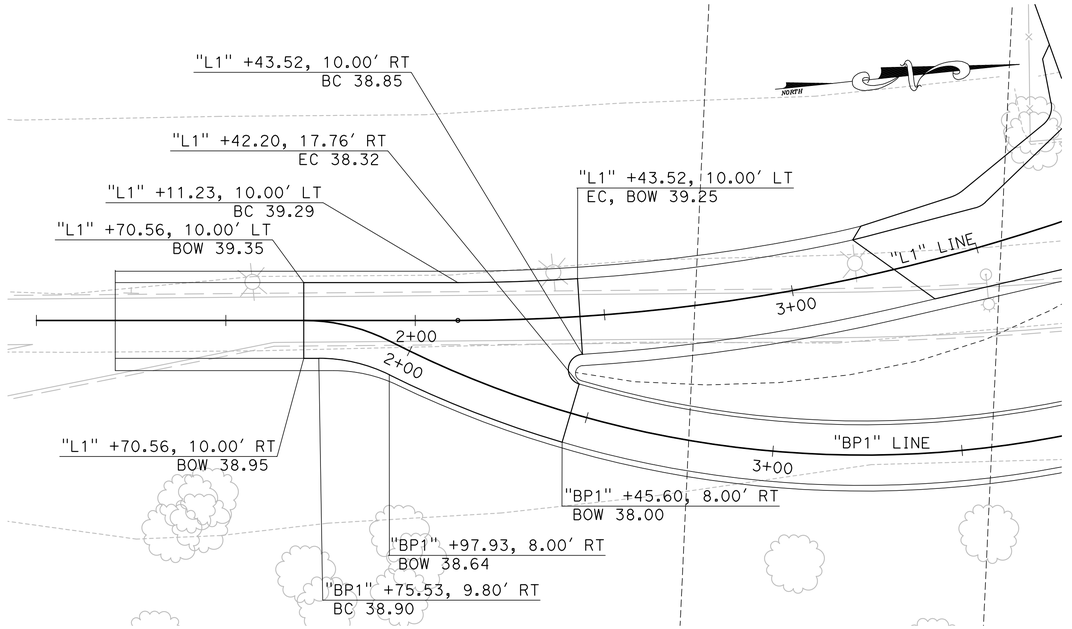
T15136000

SHEET 67 OF 648



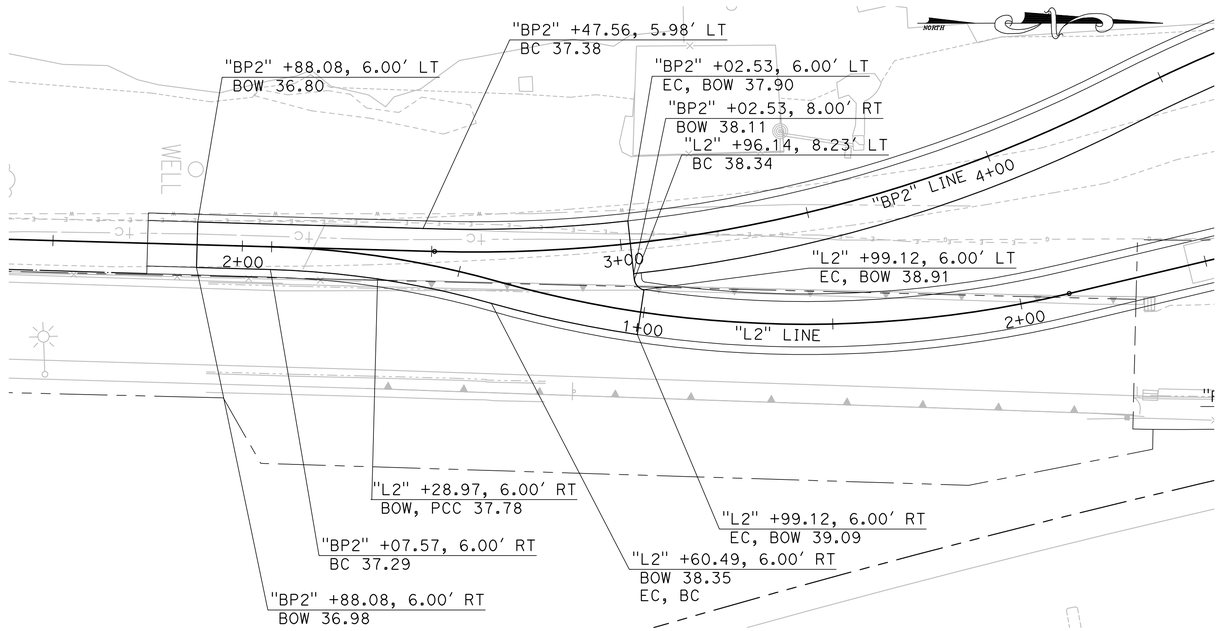
BIKE PATH DETAIL 1 (36)

SCALE: 1" = 20'



BIKE PATH DETAIL 2 (37)

SCALE: 1" = 20'



BIKE PATH DETAIL 3 (38)

SCALE: 1" = 20'

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-68

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

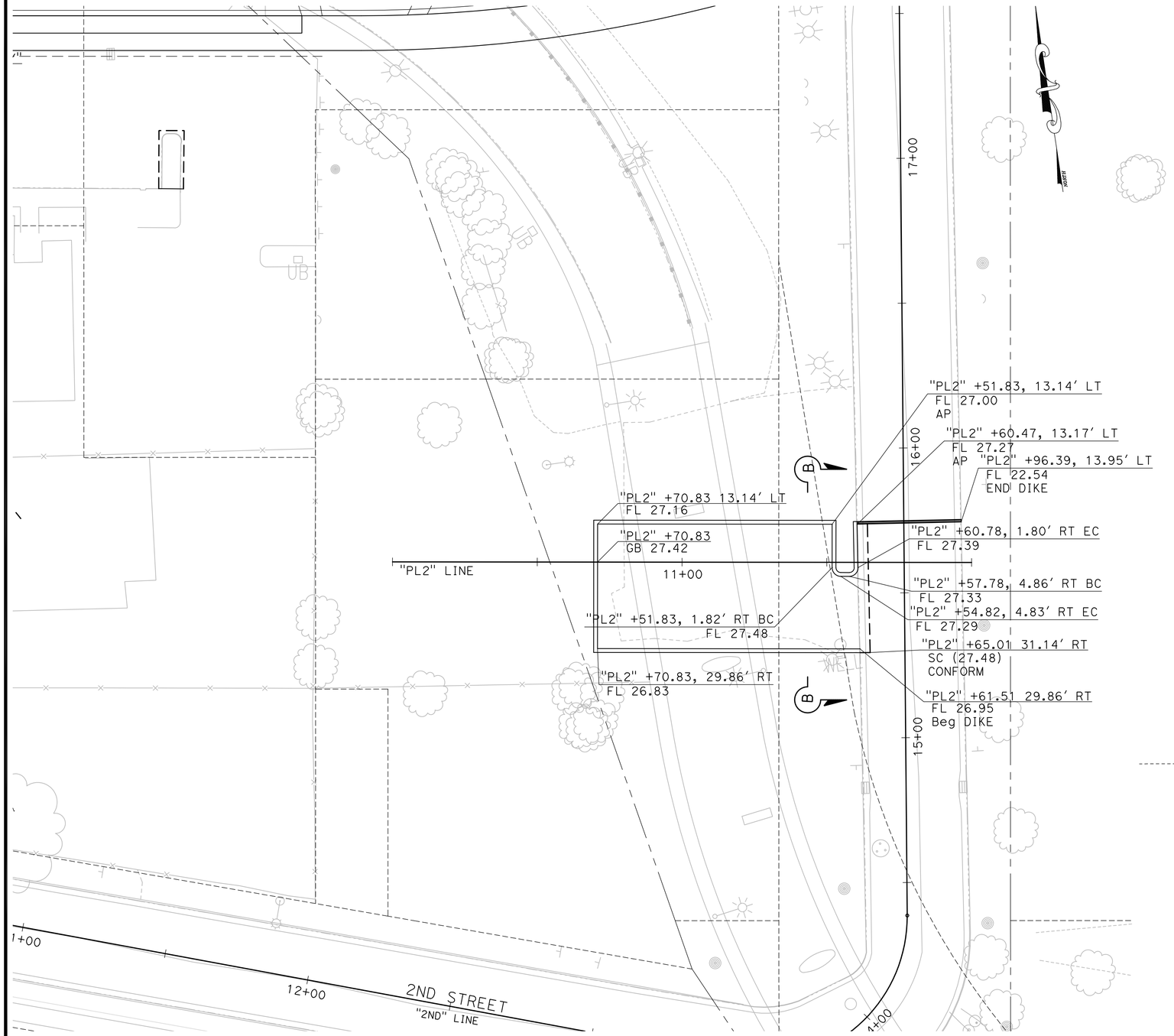
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
CONSTRUCTION DETAILS
WEST SACRAMENTO

T15136000

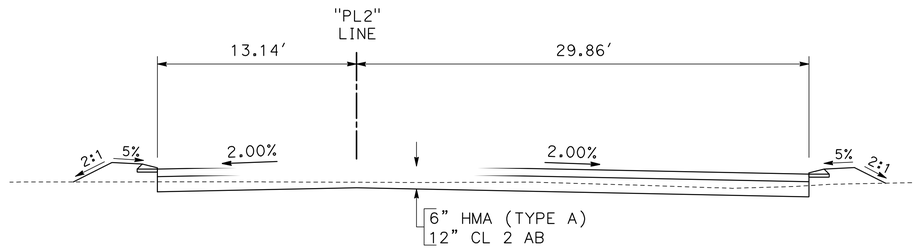
SHEET 68 — OF — 648



PARKING LOT DETAIL

SCALE: 1" = 20'

39



SECTION B-B

SCALE: 1" = 5'

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

C-69

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

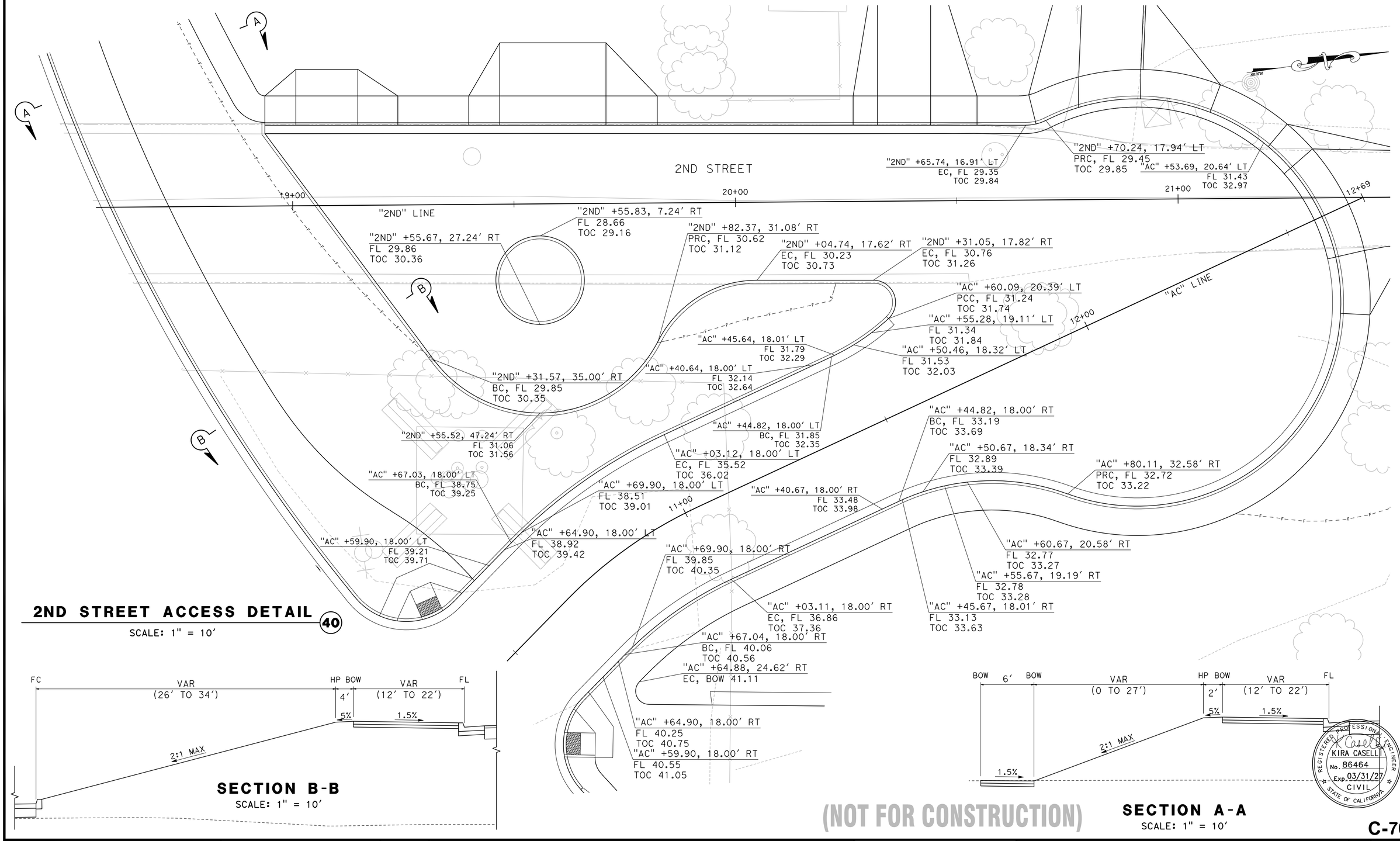
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER CONSTRUCTION DETAILS WEST SACRAMENTO

T15136000

SHEET 69 OF 648



2ND STREET ACCESS DETAIL (40)

SCALE: 1" = 10′

SECTION B-B

SCALE: 1" = 10′

SECTION A-A

SCALE: 1" = 10′

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

C-70

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=10′
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER CONSTRUCTION DETAILS WEST SACRAMENTO

T15136000

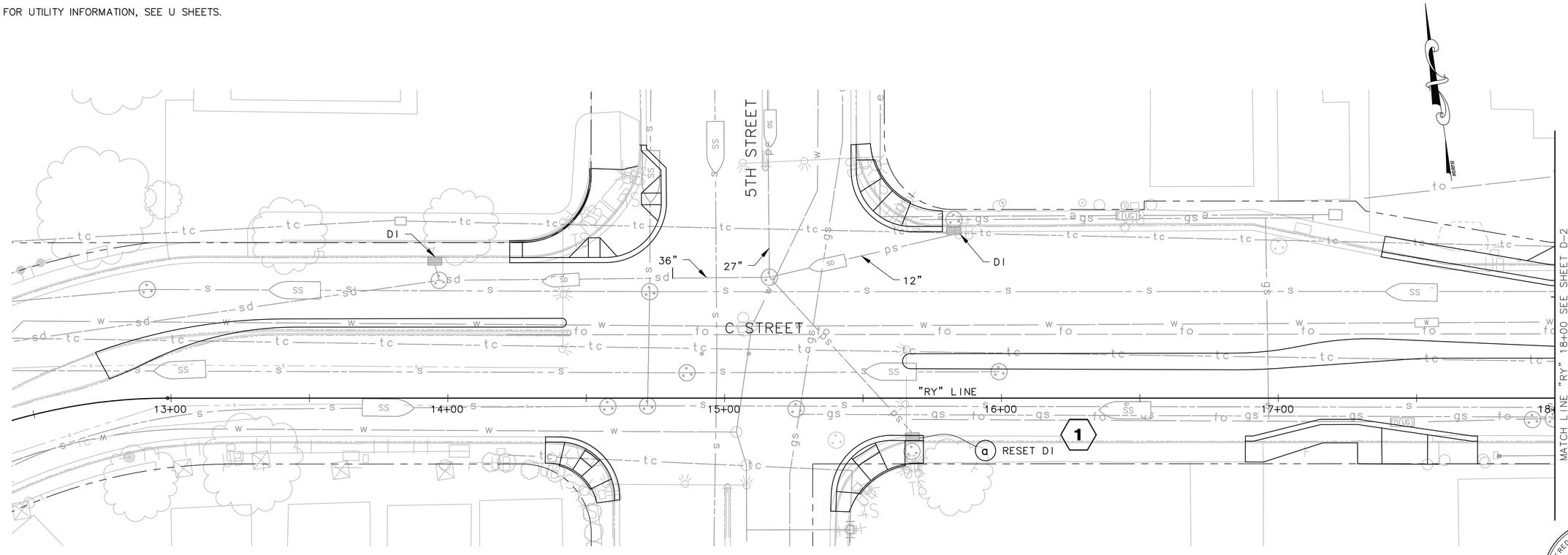
SHEET 70 — OF — 648

GENERAL NOTES:

1. ALL WORK DONE IN THE CITY OF SACRAMENTO SHALL BE DONE IN ACCORDANCE WITH: CITY STANDARD SPECIFICATIONS, DATED NOVEMBER 2020 AND ALL APPLICABLE ADDENDA, AND CALTRANS STANDARD PLANS, DATED 2024.
2. ALL WORK DONE IN THE CITY OF WEST SACRAMENTO SHALL BE DONE IN ACCORDANCE WITH: CITY STANDARD SPECIFICATIONS, DATED JUNE 2002 AND ALL APPLICABLE AMENDMENTS, AND CALTRANS STANDARD PLANS, DATED 2024.
3. DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING FEATURES DAMAGED BY HIS OPERATIONS, AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING STORM DRAIN FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE PROPOSED STORM DRAIN IMPROVEMENTS ARE PLACED AND FUNCTIONING.
5. WHEN CONNECTING TO AN EXISTING STORM DRAIN SYSTEM, THE CONTRACTOR SHALL VERIFY THE EXISTING ELEVATIONS AT THE CONNECTION POINT PRIOR TO ORDERING OR INSTALLING ANY NEW STORM DRAIN FACILITIES.
6. GRATES INSTALLED IN BIKE LANES SHALL USE CALTRANS GRATE TYPE 24–12X OR 18–9X.
7. CONTRACTOR SHALL USE CONCRETE BACKFILL WHEN TOP OF PIPE IS LESS THAN 2 FEET UNDERGROUND. SEE DD SHEETS FOR DETAILS.
8. FOR STATION OFFSET & INVERT INFORMATION, SEE DP SHEETS.
9. FOR UTILITY INFORMATION, SEE U SHEETS.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
STORM DRAIN	SD	SD
MANHOLE		
Exist CATCH BASIN		
GRATE INLET		
CURB INLET		
JUNCTION BOX WITH MANHOLE		
OVERFLOW INLET		
CLEANOUT		
BIORETENTION AREA		



REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

D-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: H. GREWAL R.C.E. 95969 DATE NOVEMBER 2025
CHECKED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025

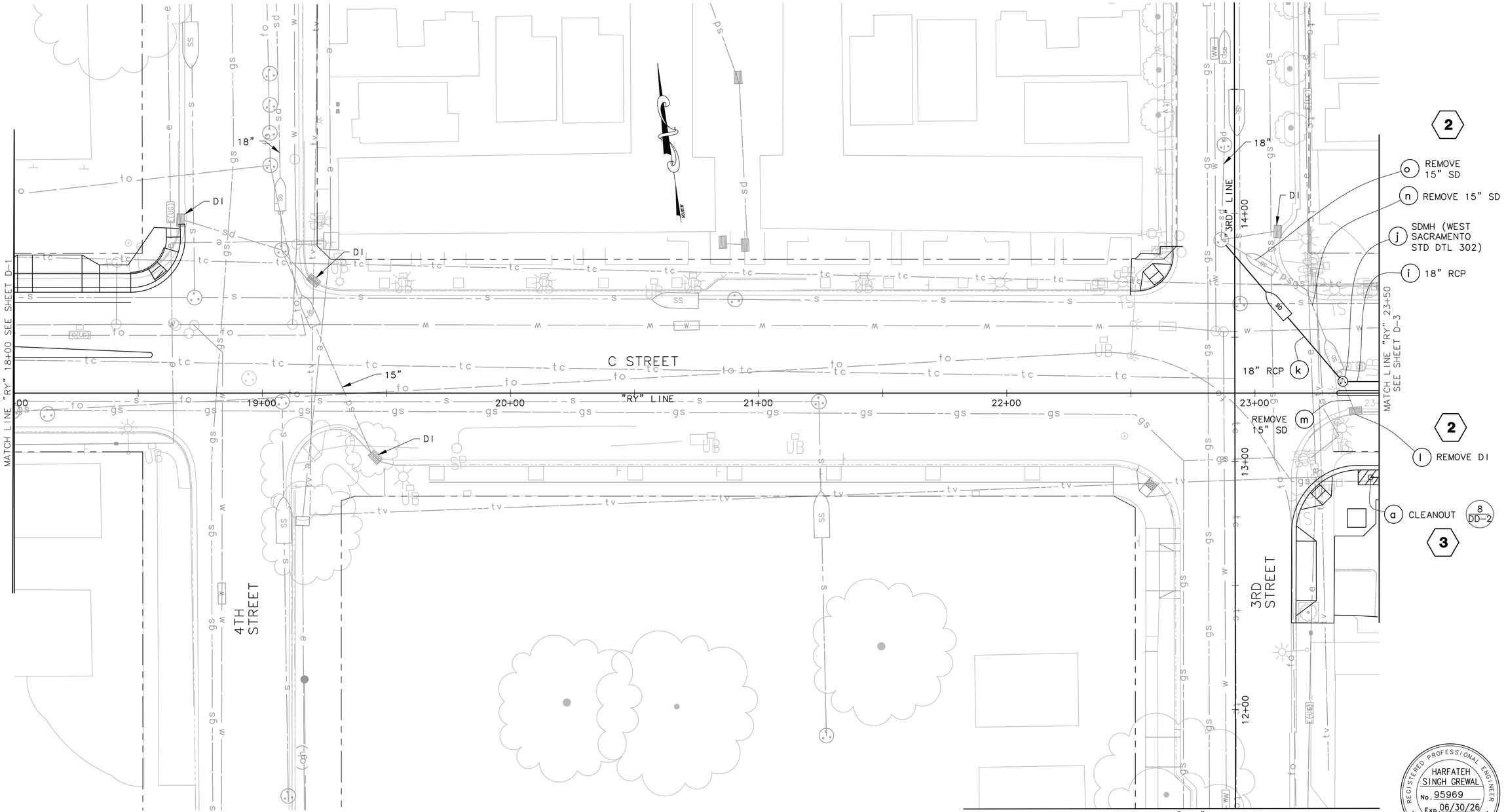
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 71 OF 648



(NOT FOR CONSTRUCTION)

HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

D-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

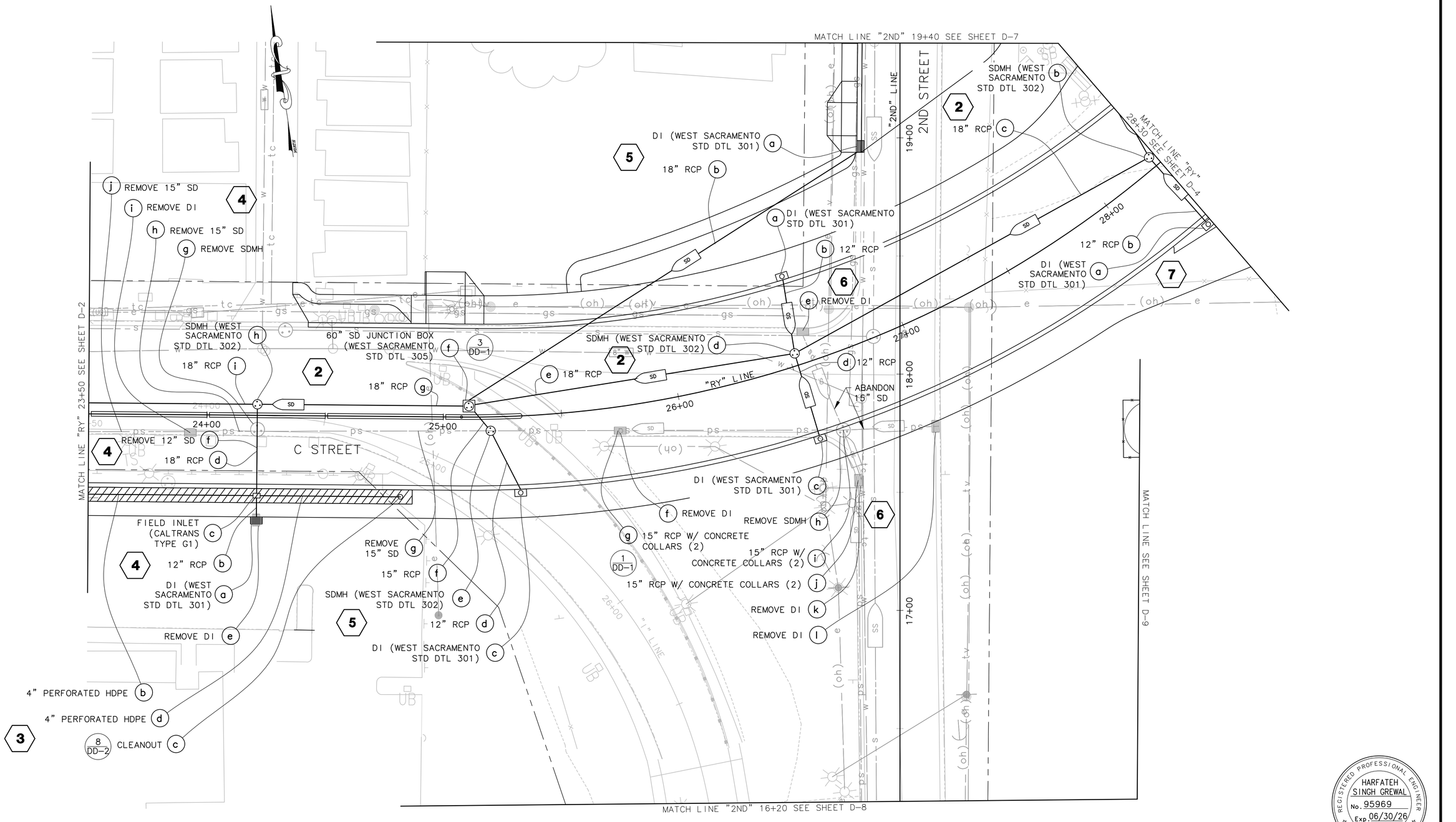
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 72 — OF — 648



(NOT FOR CONSTRUCTION)

HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

D-3

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: H. GREWAL R.C.E. 95969 DATE NOVEMBER 2025
CHECKED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025

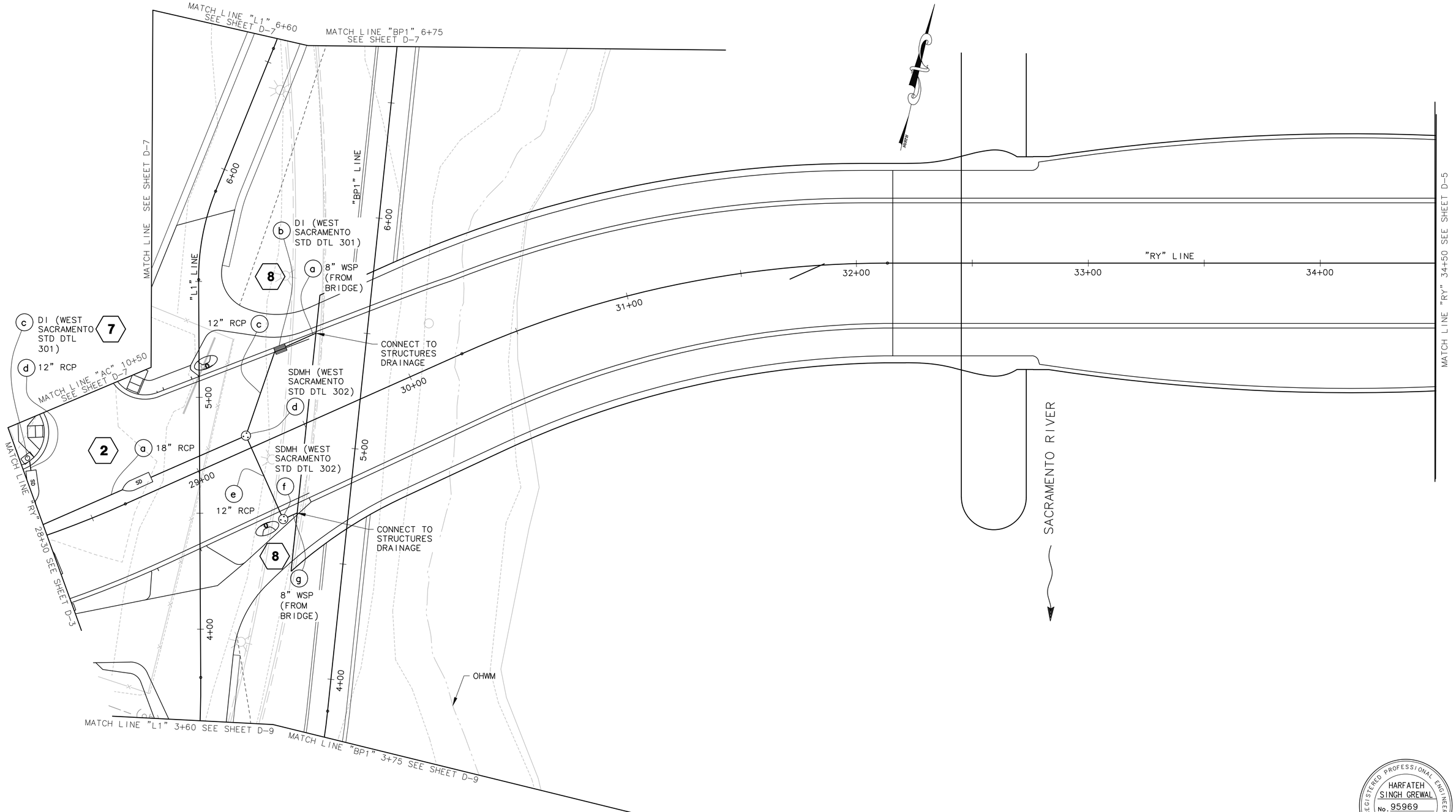
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 73 OF 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

D-4

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

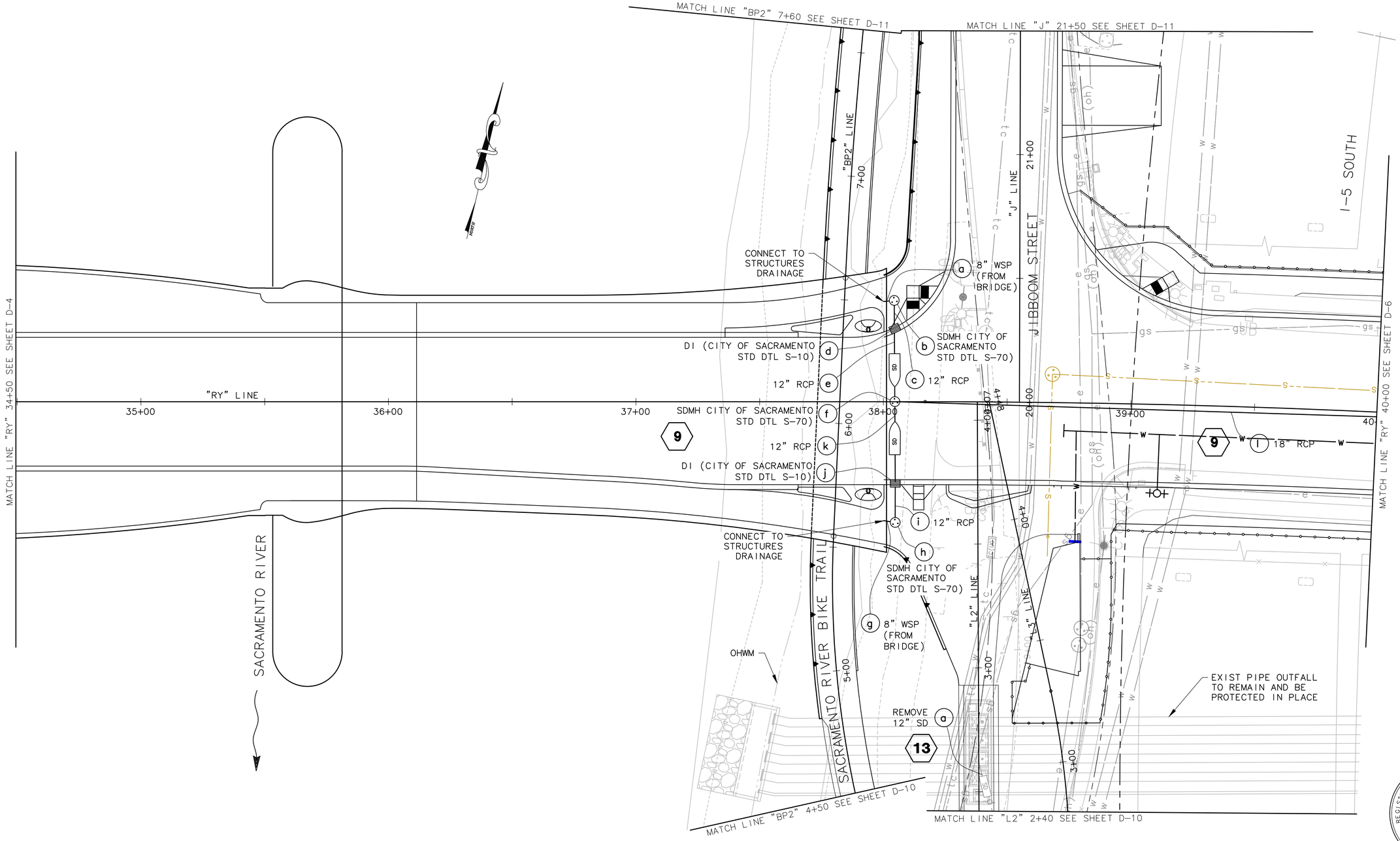
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 74 — OF — 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

D-5

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

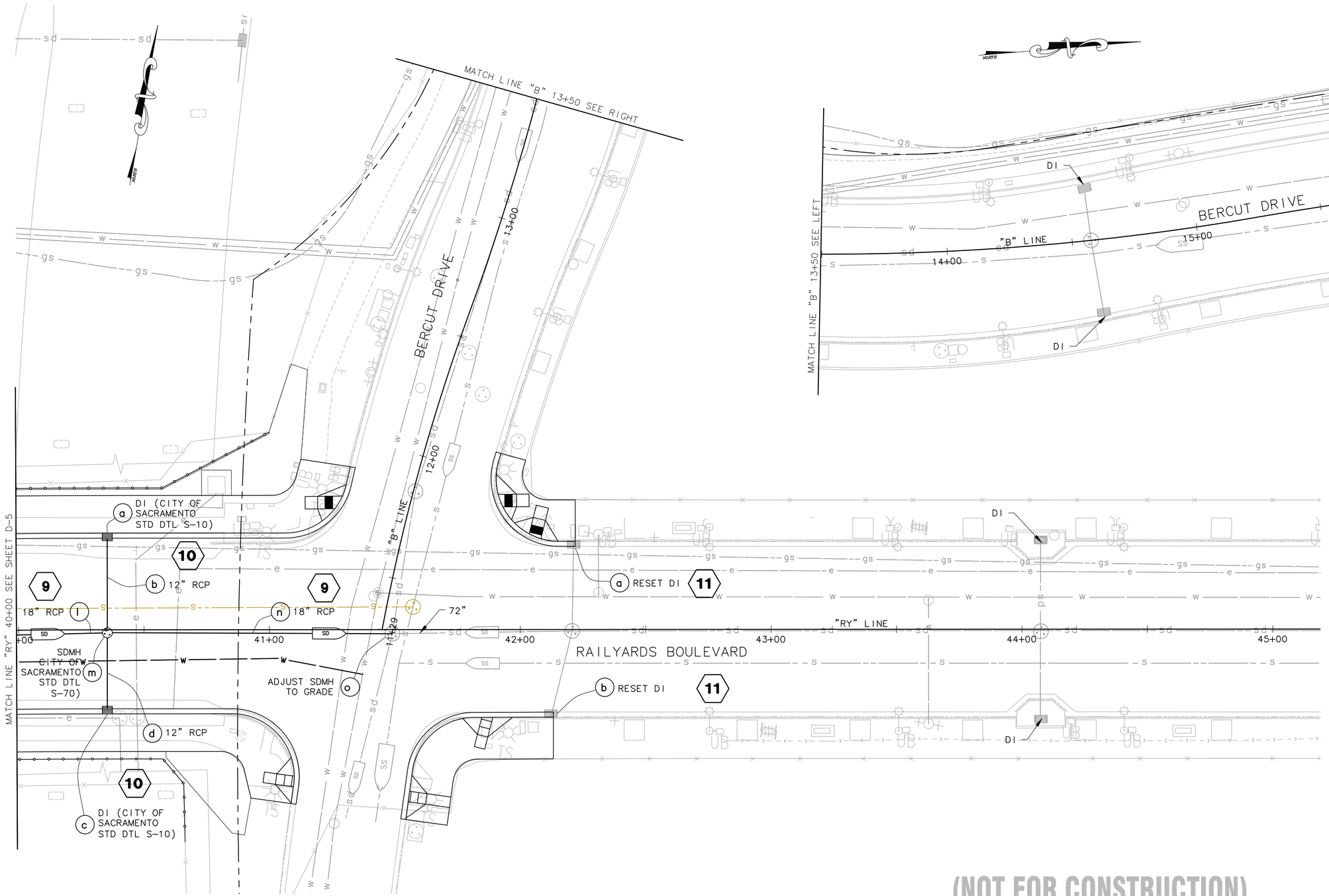
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 75 OF 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

D-6

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
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FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

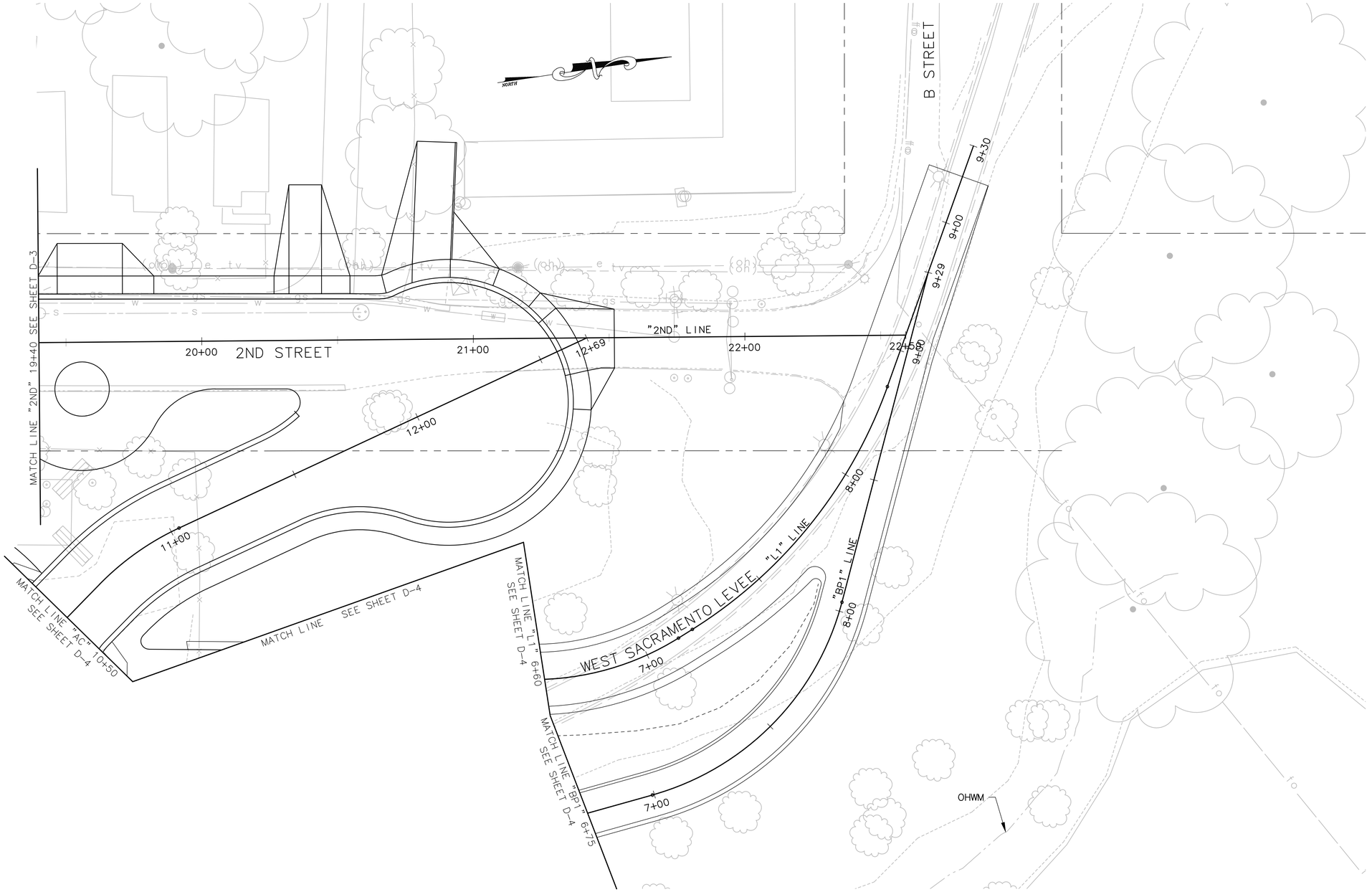
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 76 — OF — 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

NO DRAINAGE WORK THIS SHEET

D-7

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

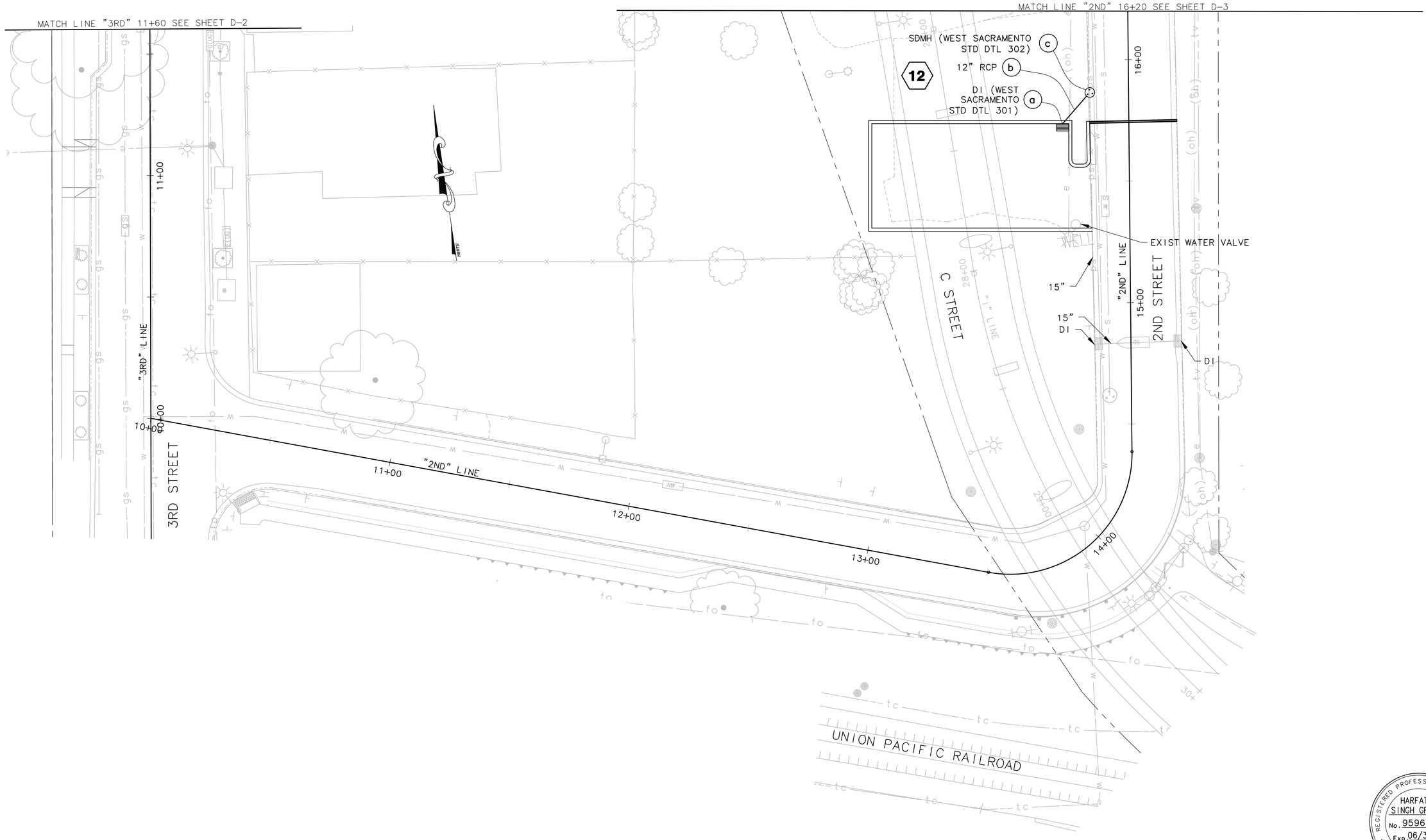
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 77 — OF — 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

D-8

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
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FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: H. GREWAL R.C.E. 95969 DATE NOVEMBER 2025
CHECKED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025

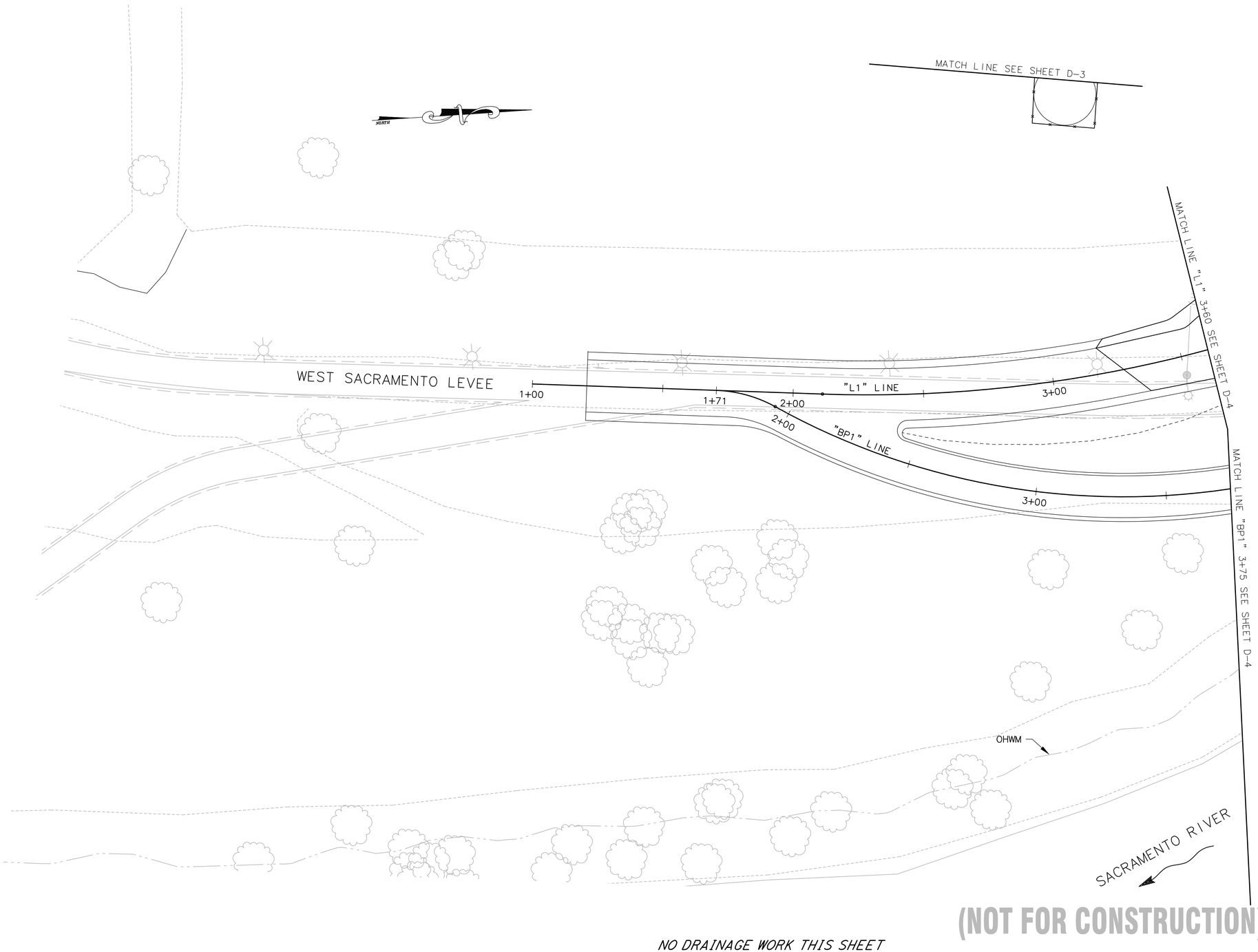
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 78 OF 648



(NOT FOR CONSTRUCTION)

NO DRAINAGE WORK THIS SHEET

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

D-9

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
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FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

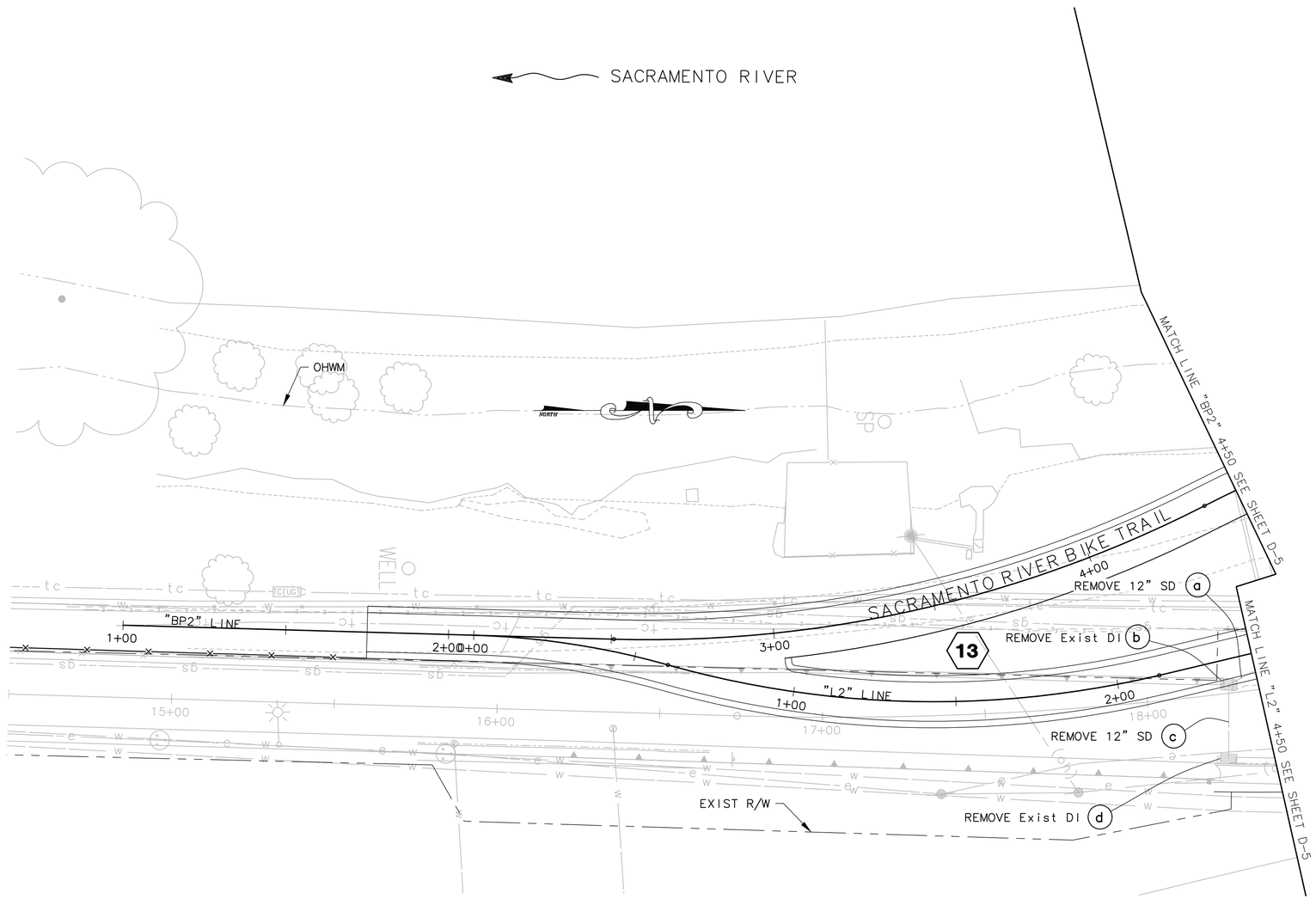
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 79 OF 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

D-10

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

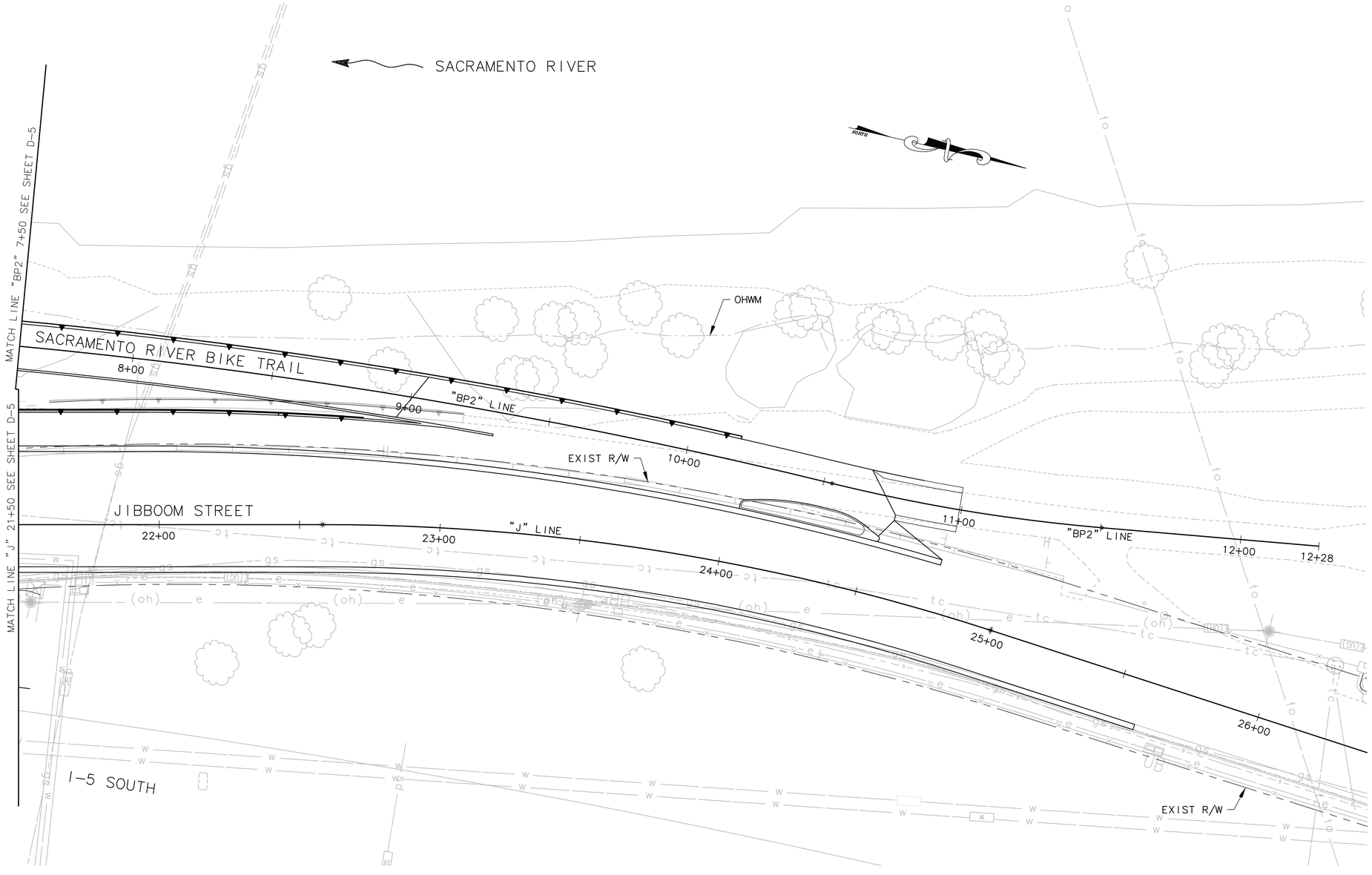
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

DRAINAGE PLANS

T15136000

SHEET 80 OF 648



(NOT FOR CONSTRUCTION)

NO DRAINAGE WORK THIS SHEET

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

D-11

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

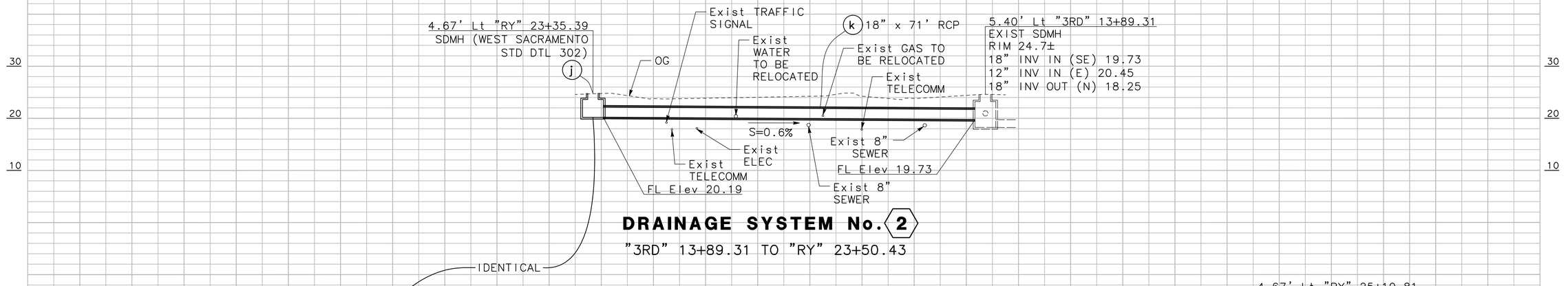
DRAINAGE PLANS

T15136000

SHEET 81 OF 648

GENERAL NOTES:

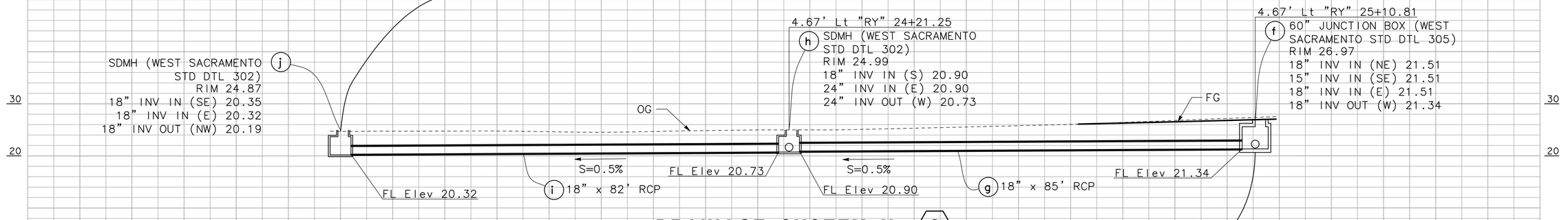
1. FOR UTILITY INFORMATION, SEE U SHEETS.
2. CALL 811 BEFORE ANY EXCAVATION ACTIVITY.
3. PROVIDE 1' MINIMUM VERTICAL CLEARANCE AT ALL UTILITY CROSSINGS.



DRAINAGE SYSTEM No. 2

"3RD" 13+89.31 TO "RY" 23+50.43

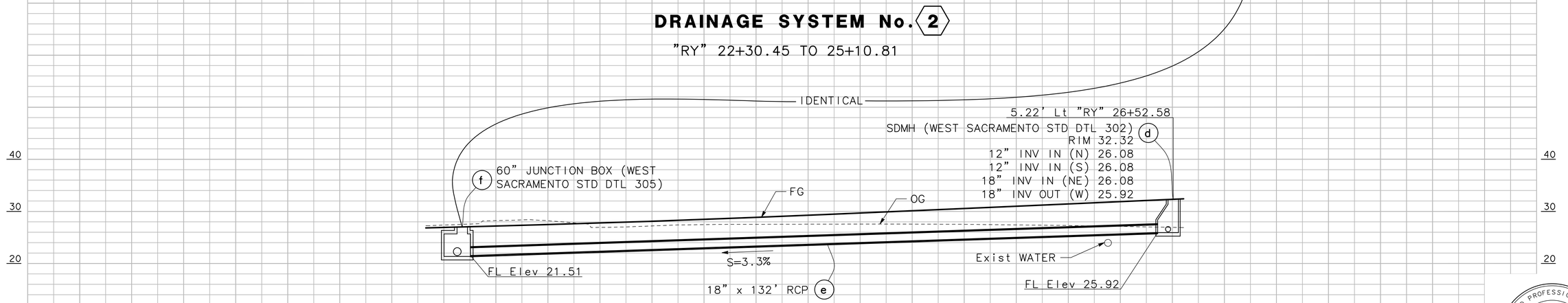
IDENTICAL



DRAINAGE SYSTEM No. 2

"RY" 22+30.45 TO 25+10.81

IDENTICAL



DRAINAGE SYSTEM No. 2

"RY" 25+10.81 TO 26+52.58

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

DP-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=10'
VERT. 1"=10'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: H. GREWAL R.C.E. 95969 DATE NOVEMBER 2025
CHECKED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025

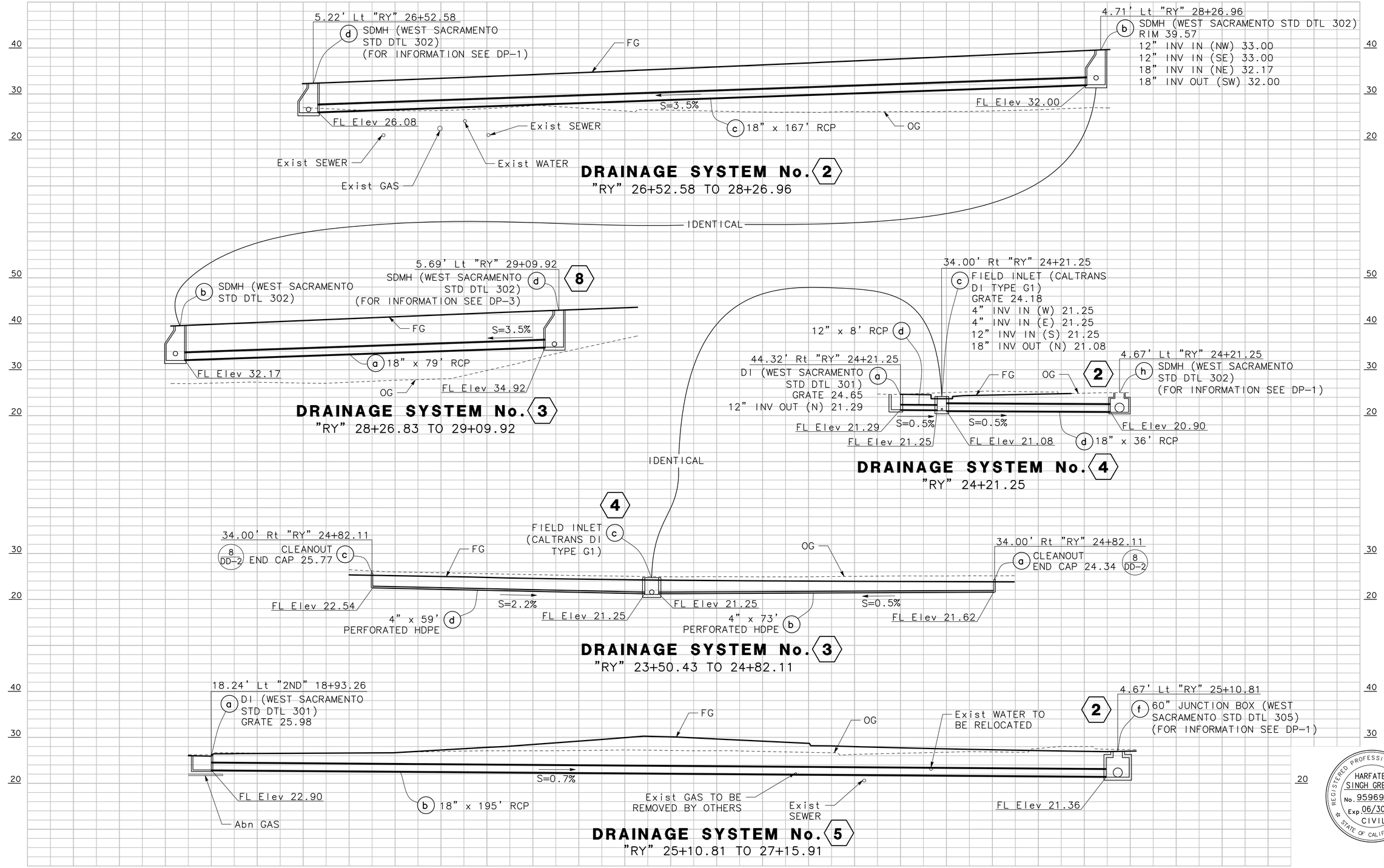
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PROFILES

T15136000

SHEET 82 OF 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

DP-2

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=10'
VERT. 1"=10'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: H. GREWAL R.C.E. 95969 DATE NOVEMBER 2025
CHECKED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025

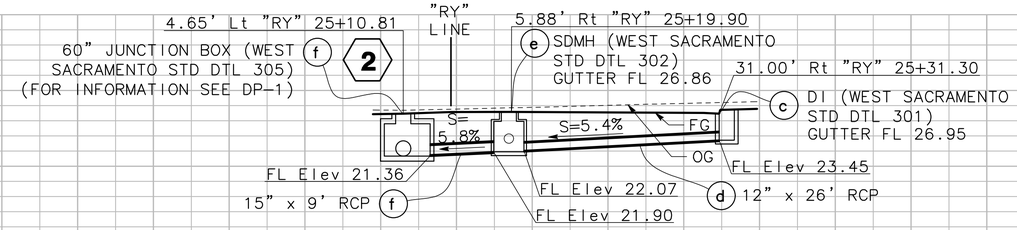
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PROFILES

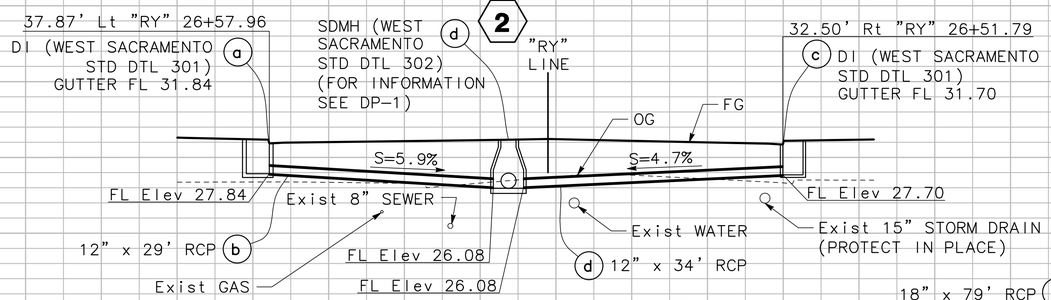
T15136000

SHEET 83 OF 648



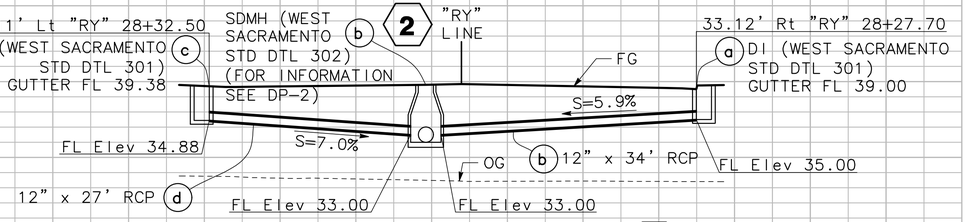
DRAINAGE SYSTEM No. 5

"RY" 25+10.81 TO 25+31.30



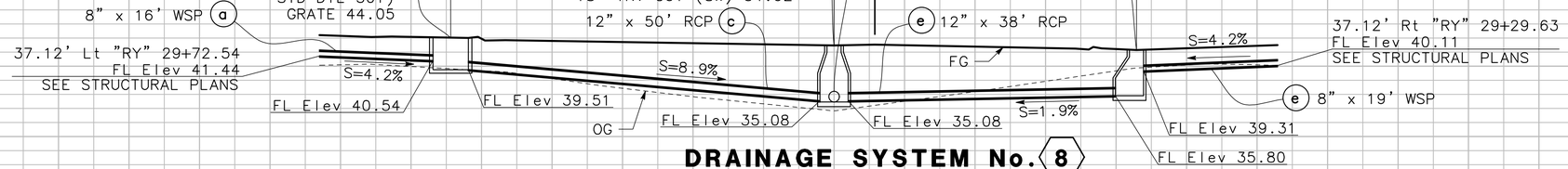
DRAINAGE SYSTEM No. 6

"RY" 26+51.79 TO 26+57.96



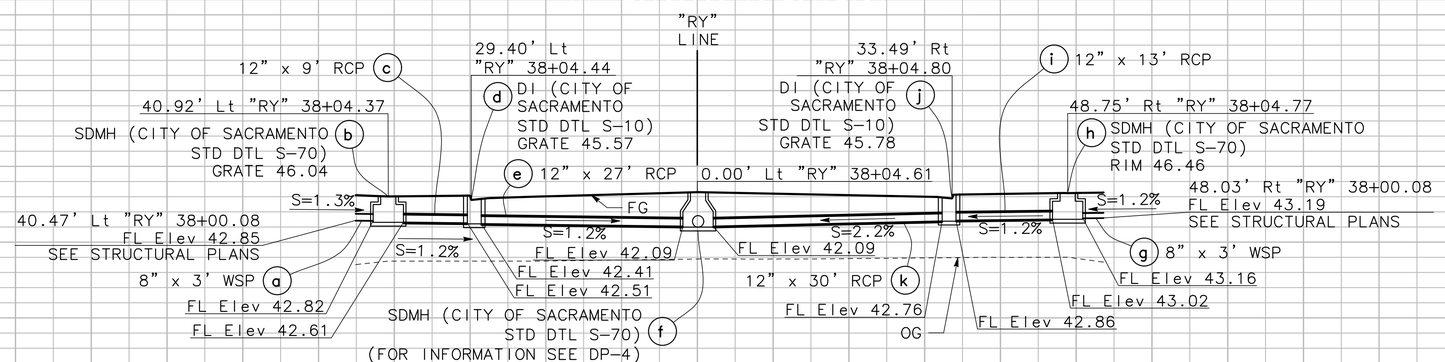
DRAINAGE SYSTEM No. 7

"RY" 28+27.70 TO 28+32.50



DRAINAGE SYSTEM No. 8

"RY" 29+09.63 TO 29+72.54



DRAINAGE SYSTEM No. 9

"RY" 38+00.08 TO 38+04.80

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

DP-3

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=10'
VERT. 1"=10'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

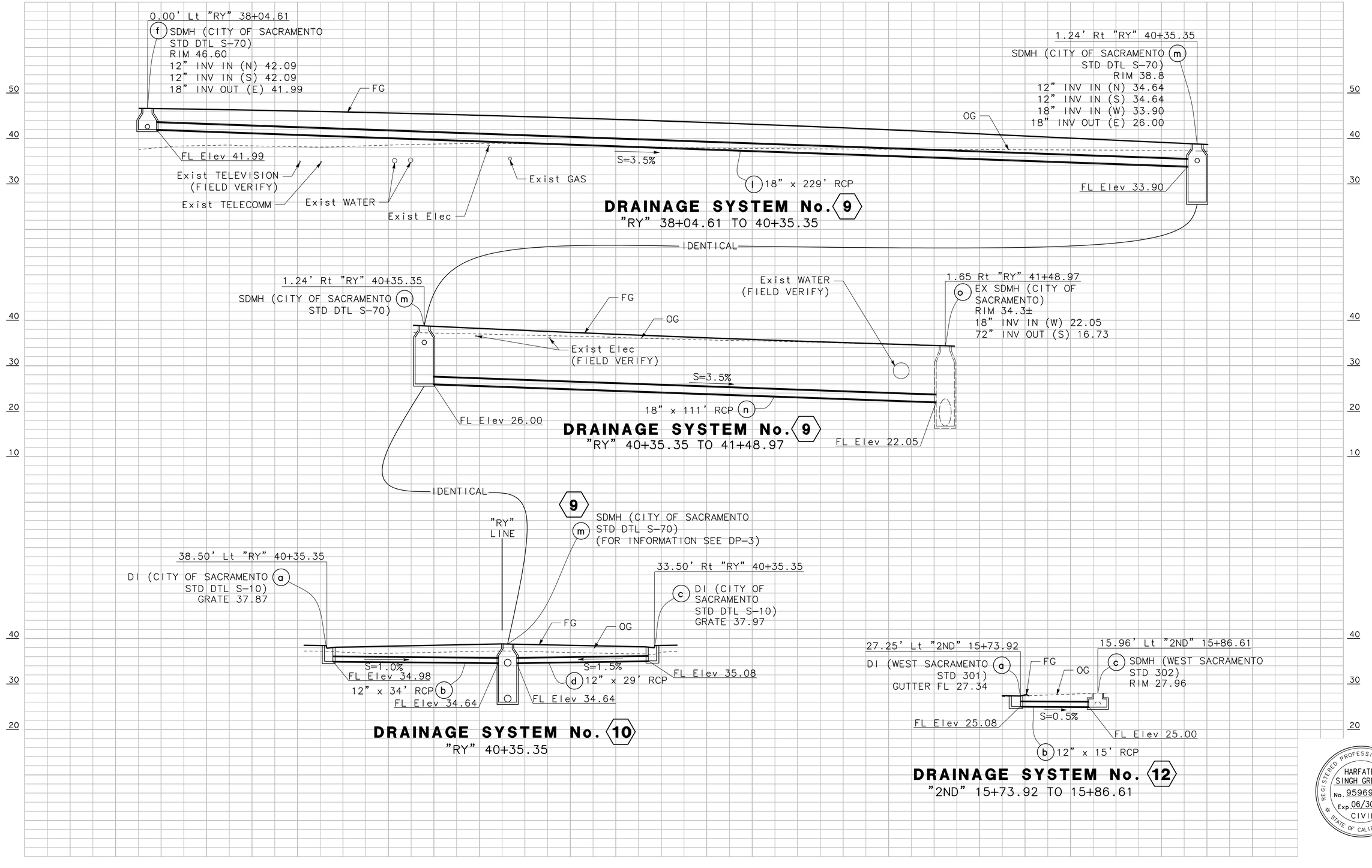
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PROFILES

T15136000

SHEET 84 — OF — 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
STATE OF CALIFORNIA

DP-4

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=10'
VERT. 1"=10'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
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CHECKED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025

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R.C.E. 73128 EXP. 12-31-26

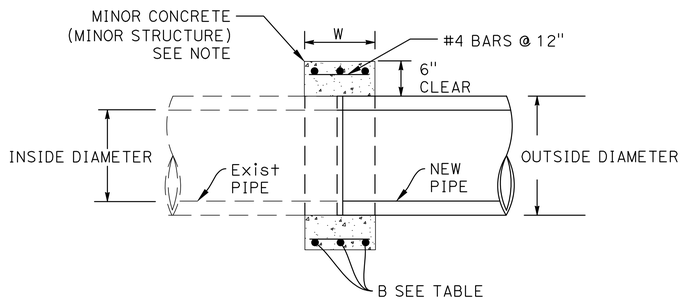
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

DRAINAGE PROFILES

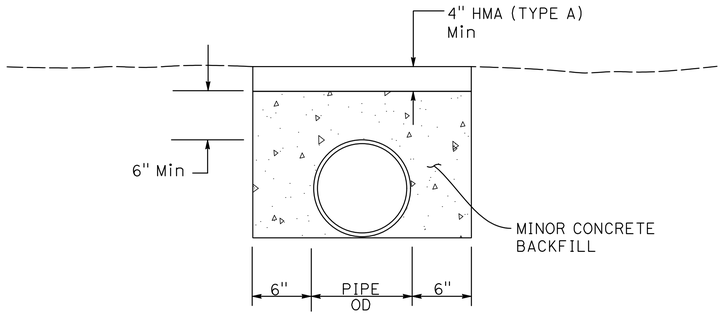
T15136000

SHEET 85 OF 648

PIPE INNER DIAMETER (D)	B	W
UP TO 24"	2-#5 HOOPS	1'-6"
OVER 24"	3-#5 HOOPS	2'-0"



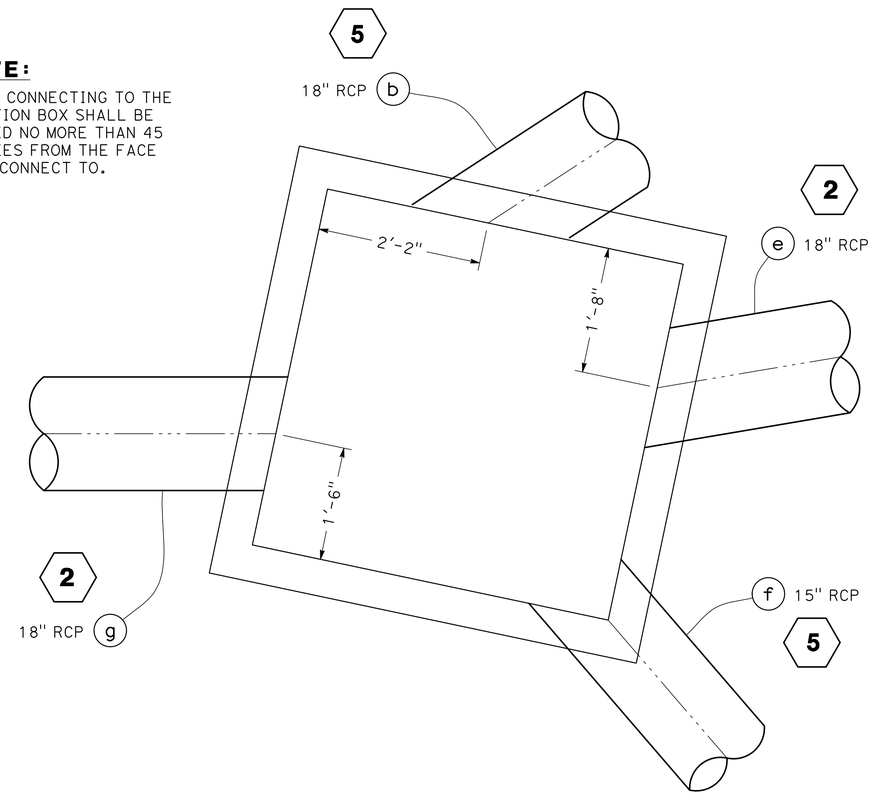
1/DD-1 **CONCRETE COLLAR**



2/DD-1 **MINOR CONCRETE BACKFILL**

NOTE:

PIPES CONNECTING TO THE JUNCTION BOX SHALL BE SKEWED NO MORE THAN 45 DEGREES FROM THE FACE THEY CONNECT TO.



3/DD-1 **60" JUNCTION BOX PIPE CONNECTIONS**

HARFATEH SINGH GREWAL
No. 95969
Exp. 06/30/26
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

DD-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: H. GREWAL
R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

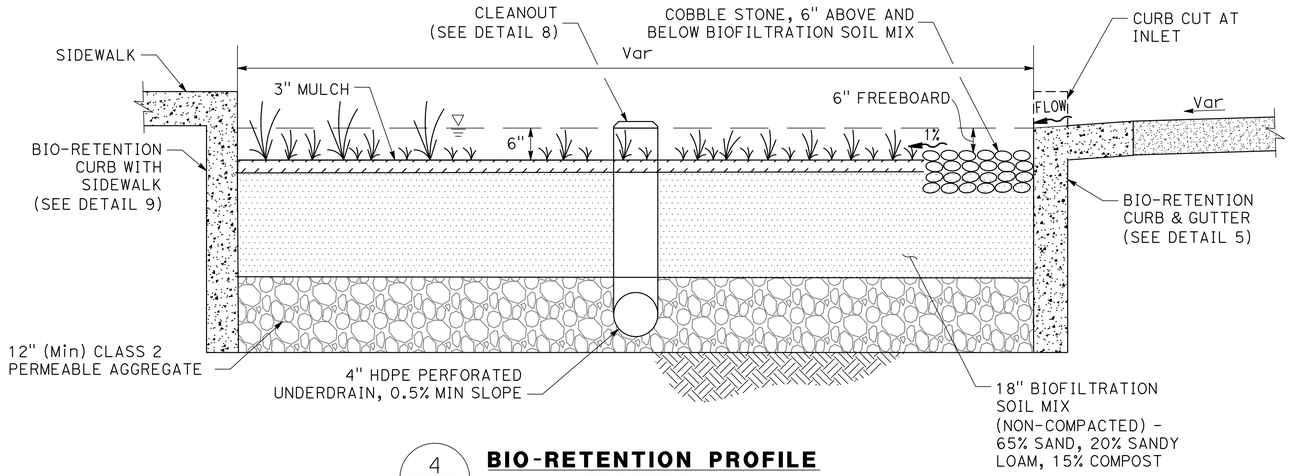
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

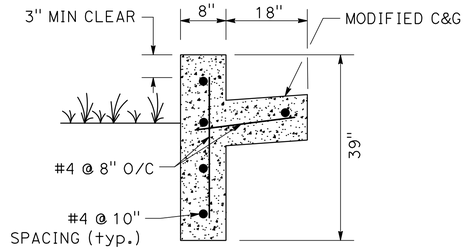
DRAINAGE DETAILS

T15136000

SHEET 86 OF 648

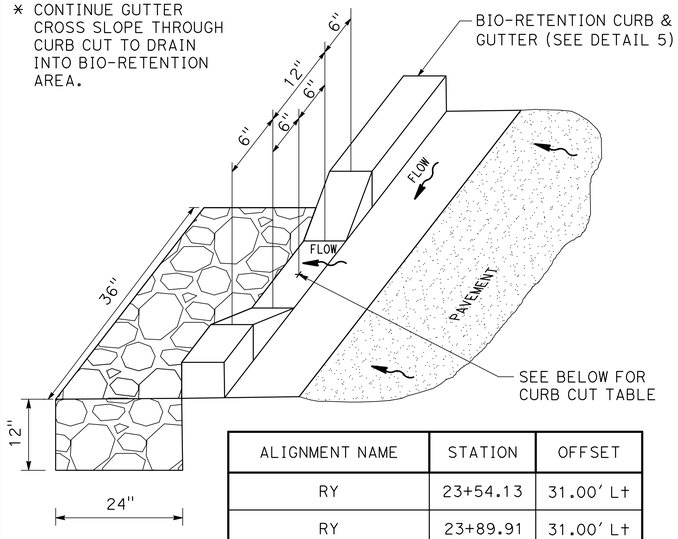


4 / DD-2 **BIO-RETENTION PROFILE (TYPICAL)**



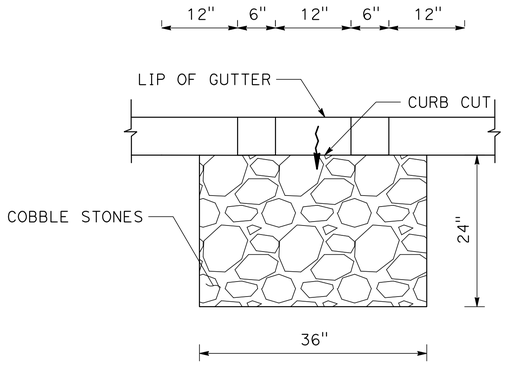
5 / DD-2 **BIO-RETENTION CURB AND GUTTER**

* CONTINUE GUTTER CROSS SLOPE THROUGH CURB CUT TO DRAIN INTO BIO-RETENTION AREA.

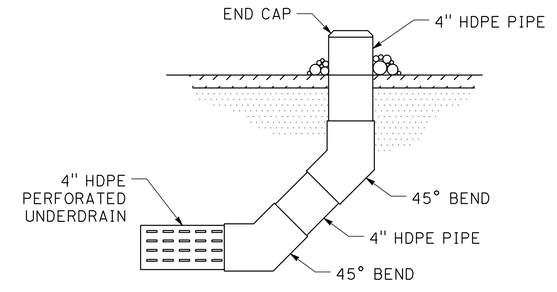


ALIGNMENT NAME	STATION	OFFSET
RY	23+54.13	31.00' Lt
RY	23+89.91	31.00' Lt
RY	24+25.69	31.00' Lt
RY	24+55.06	31.00' Lt
RY	24+84.44	31.00' Lt

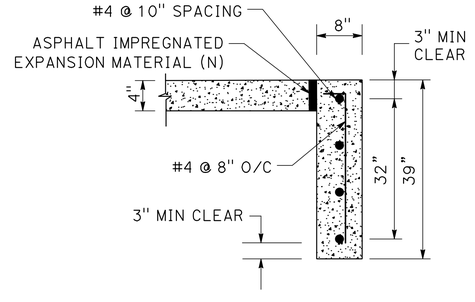
6 / DD-2 **CURB CUT**



7 / DD-2 **CURB CUT WITH COBBLE STONES (TYPICAL)**



8 / DD-2 **CLEANOUT**



9 / DD-2 **BIO-RETENTION CURB WITH SIDEWALK**

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
HARFATEH SINGH GREWAL
No. 95969
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CIVIL
STATE OF CALIFORNIA

DD-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. NTS
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: H. GREWAL R.C.E. 95969 DATE NOVEMBER 2025
CHECKED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
DRAINAGE DETAILS

T15136000

SHEET 87 OF 648

GENERAL NOTES:

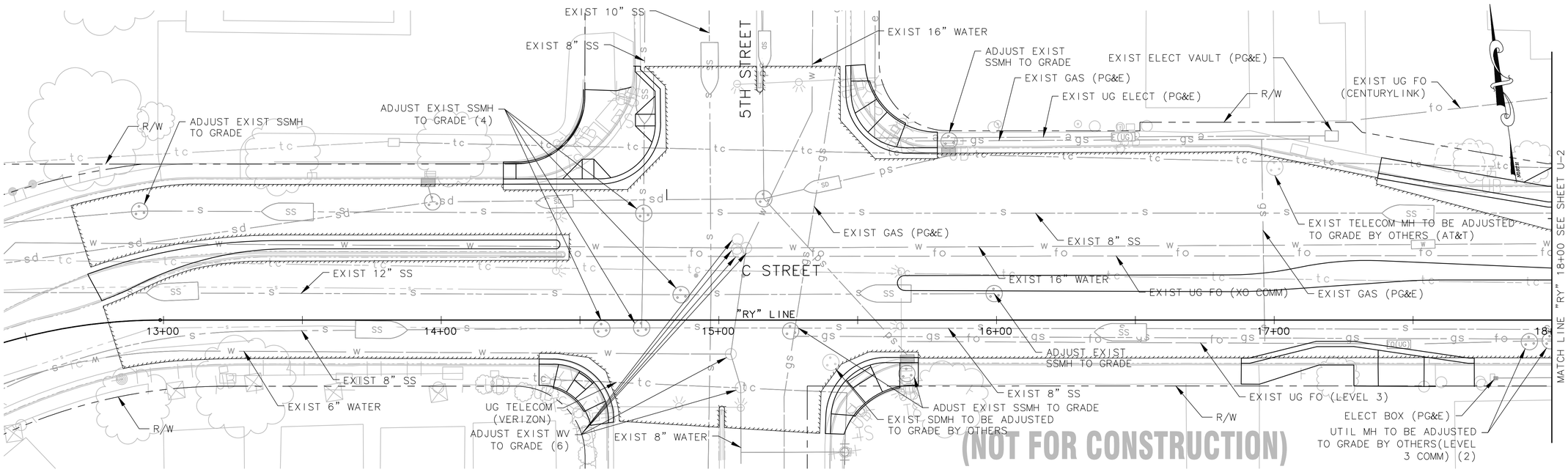
1. ALL WORK DONE IN THE CITY OF SACRAMENTO SHALL BE DONE IN ACCORDANCE WITH: CITY STANDARD SPECIFICATIONS, DATED NOVEMBER 2020 AND ALL APPLICABLE ADDENDA, CALTRANS STANDARD PLANS, DATED MAY 2010 AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
2. ALL WORK DONE IN THE CITY OF WEST SACRAMENTO SHALL BE DONE IN ACCORDANCE WITH: CITY STANDARD SPECIFICATIONS, DATED JUNE 2002 AND ALL APPLICABLE ADDENDA, CALTRANS STANDARD PLANS, DATED MAY 2010 AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
3. DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING FEATURES DAMAGED BY HIS OPERATIONS, AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING UTILITIES AND PROTECTING AND REPAIRING DAMAGES TO EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICES ALERT (1–800–642–2444) TWO WORKING DAYS PRIOR TO WORK COMMENCEMENT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES FOR VERIFICATION AT THE SITE 48 HOURS PRIOR TO WORKING AROUND ANY POSSIBLE CONFLICTS WITH THEIR UNDERGROUND UTILITIES AND THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
6. THE TYPES, LOCATIONS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. THE CITY OF SACRAMENTO, THE CITY OF WEST SACRAMENTO AND IT'S CONSULTANTS, CAN NOT ASSUME THE RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UTILITIES NOR THE EXISTENCE OF OTHER BURIED OBJECTS OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS.
7. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING WATER AND SEWER FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL THE PROPOSED WATER AND/OR SEWER IMPROVEMENTS ARE PLACED AND FUNCTIONING.
8. EXISTING UTILITIES SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
9. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF THE APPURTENANCES.
10. FOR ELECTRICAL WORK, SEE TS SHEETS.
11. FOR STREET LIGHTING, SEE SL SHEETS.
12. FOR TRAFFIC SIGNAL, PLANS SEE TS SHEETS.

UTILITY CONTACT TABLE

UTILITY AGENCY	CONTACT PERSON	ADDRESS	PHONE NUMBER
AT&T	NICK KOMPANIET	2741 N. MAIN STREET WALNUT CREEK, CA 94597	(530) 841–0621 EXT 108
CENTURYLINK	GEORGE MCELVAIN	700 W. MINERAL AVE. UT D27.34 LITTLETON, CO 80120	(303) 992–9931
CITY OF SACRAMENTO – WATER	CESAR LIMON	1395 35TH AVENUE SACRAMENTO, CA 95822	(916) 808–6277
CITY OF SACRAMENTO – SEWER/DRAINAGE	SIMON WAN	1395 35TH AVENUE SACRAMENTO, CA 95822	(916) 808–4023
CITY OF WEST SACRAMENTO – WATER	ROBERT SANTOS	1951 S RIVER ROAD WEST SACRAMENTO, CA 95691	(916) 617–4850
CITY OF WEST SACRAMENTO – SEWER	ROBERT SANTOS	1951 S RIVER ROAD WEST SACRAMENTO, CA 95691	(916) 617–4850
COMCAST	PETER HEMINGWAY	1242 NATIONAL DRIVE SACRAMENTO, CA 95834	(916) 830–6757
CONSOLIDATED COMMUNICATIONS	LARRY MONTGOMERY	114 VERNON STREET ROSEVILLE, CA 95742	(916) 786–1217
KINDER–MORGAN	PATRICK RIBAN PIPELINE INQUIRIES	1100 TOWN & COUNTRY RD ORANGE, CA 92868	(713) 420–5608 (714) 560–4400
LEVEL 3 COMMUNICATIONS	RELO CENTURY LINK	1025 EL DORADO BLVD BROOMFIELD, CO 80021	(720) 888–3813
PG&E	NICK MORLOCK	2730 GATEWAY OAKS DRIVE, SUITE 220 SACRAMENTO, CA 95833	(916) 760–5737
SMUD	SHANE NELSON	P.O. BOX 15830 MS EA–105 SACRAMENTO, CA 95852–1830	(916) 732–6220
XO COMMUNICATIONS	STEVE LEOHNER CHAD AUCHEY	855 MISSION COURT FREMONT, CA 94539	(510) 580–6333 (510) 580–6363

UTILITY LEGEND

DESCRIPTION	EXISTING	PROPOSED
SEWER	SS –––s–––	
STORM DRAIN	SD	
WATER	W W	W
FIBER OPTIC (CENTURYLINK, CONSOLIDATED COMMS, XO COMM, LEVEL 3 COMM)	FO fo	
TELECOM (AT&T, VERIZON)	–– tc	
GAS (PG&E, KINDER MORGAN)	––– gs	
ELECTRICAL (PG&E, SMUD)	E –e–	
TELEVISION (AT&T, COMCAST)	tv (oh)	
MANHOLE		
VALVE		
FIRE HYDRANT (FH)		
STREET LIGHT		
ELECTRICAL POLE		
SIGNAL LIGHT		
TRAFFIC SIGNAL		
GAS VALVE	GAS	
ELECTRICAL BOX		
UTILITY POLE		
UTILITY VAULT		
AIR RELEASE VALVE (ARV)		
WATER VALVE		
GUY WIRE		
POTHOLE LOCATION		



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

U-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297–B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

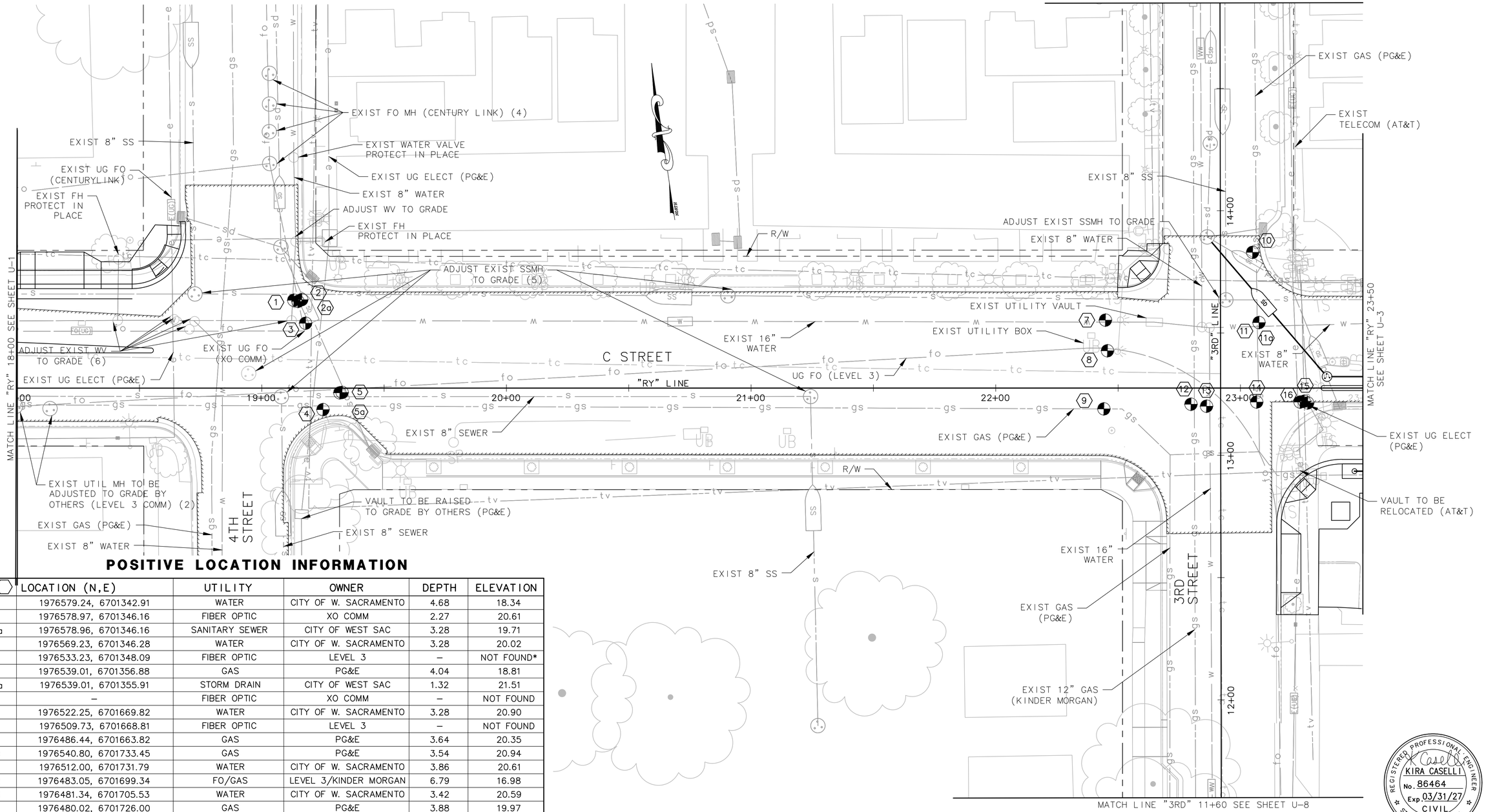
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 88 OF 648



POSITIVE LOCATION INFORMATION

No. ⬡	LOCATION (N,E)	UTILITY	OWNER	DEPTH	ELEVATION
1	1976579.24, 6701342.91	WATER	CITY OF W. SACRAMENTO	4.68	18.34
2	1976578.97, 6701346.16	FIBER OPTIC	XO COMM	2.27	20.61
2a	1976578.96, 6701346.16	SANITARY SEWER	CITY OF WEST SAC	3.28	19.71
3	1976569.23, 6701346.28	WATER	CITY OF W. SACRAMENTO	3.28	20.02
4	1976533.23, 6701348.09	FIBER OPTIC	LEVEL 3	–	NOT FOUND*
5	1976539.01, 6701356.88	GAS	PG&E	4.04	18.81
5a	1976539.01, 6701355.91	STORM DRAIN	CITY OF WEST SAC	1.32	21.51
6	–	FIBER OPTIC	XO COMM	–	NOT FOUND
7	1976522.25, 6701669.82	WATER	CITY OF W. SACRAMENTO	3.28	20.90
8	1976509.73, 6701668.81	FIBER OPTIC	LEVEL 3	–	NOT FOUND
9	1976486.44, 6701663.82	GAS	PG&E	3.64	20.35
10	1976540.80, 6701733.45	GAS	PG&E	3.54	20.94
11	1976512.00, 6701731.79	WATER	CITY OF W. SACRAMENTO	3.86	20.61
12	1976483.05, 6701699.34	FO/GAS	LEVEL 3/KINDER MORGAN	6.79	16.98
13	1976481.34, 6701705.53	WATER	CITY OF W. SACRAMENTO	3.42	20.59
14	1976480.02, 6701726.00	GAS	PG&E	3.88	19.97
15	1976476.57, 6701746.62	ELECTRIC	SMUD	3.98	19.36
16	1976477.46, 6701745.29	ELECTRIC	SMUD	5.36	18.03
16a	1976477.37, 6701743.60	TELECOM	AT&T	5.16	18.25

*ELECTRONIC DETECTION SHOWED DEPTH OF ±6'.

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

U-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

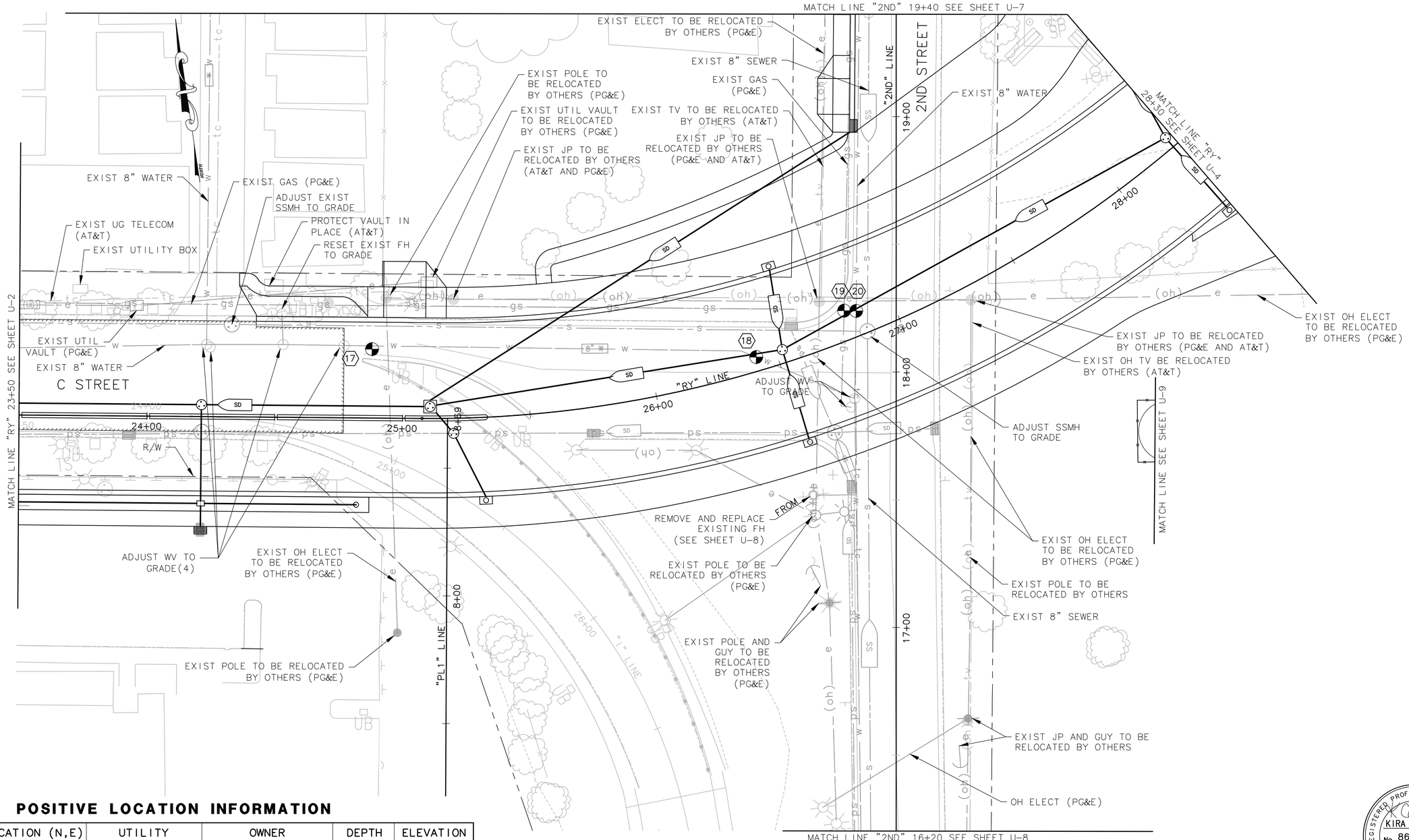
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 89 — OF — 648



POSITIVE LOCATION INFORMATION

No. ⬡	APPROX. LOCATION (N,E)	UTILITY	OWNER	DEPTH	ELEVATION
17	1976485.60, 6701910.04	WATER	CITY OF W. SACRAMENTO	3.32	22.81
18	1976461.64, 6702058.54	WATER	CITY OF W. SACRAMENTO	2.56	24.65
19	1976474.84, 6702095.14	GAS	PG&E	3.34	22.99
20	1976474.10, 6702099.78	WATER	CITY OF W. SACRAMENTO	2.16	24.43

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

U-3

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

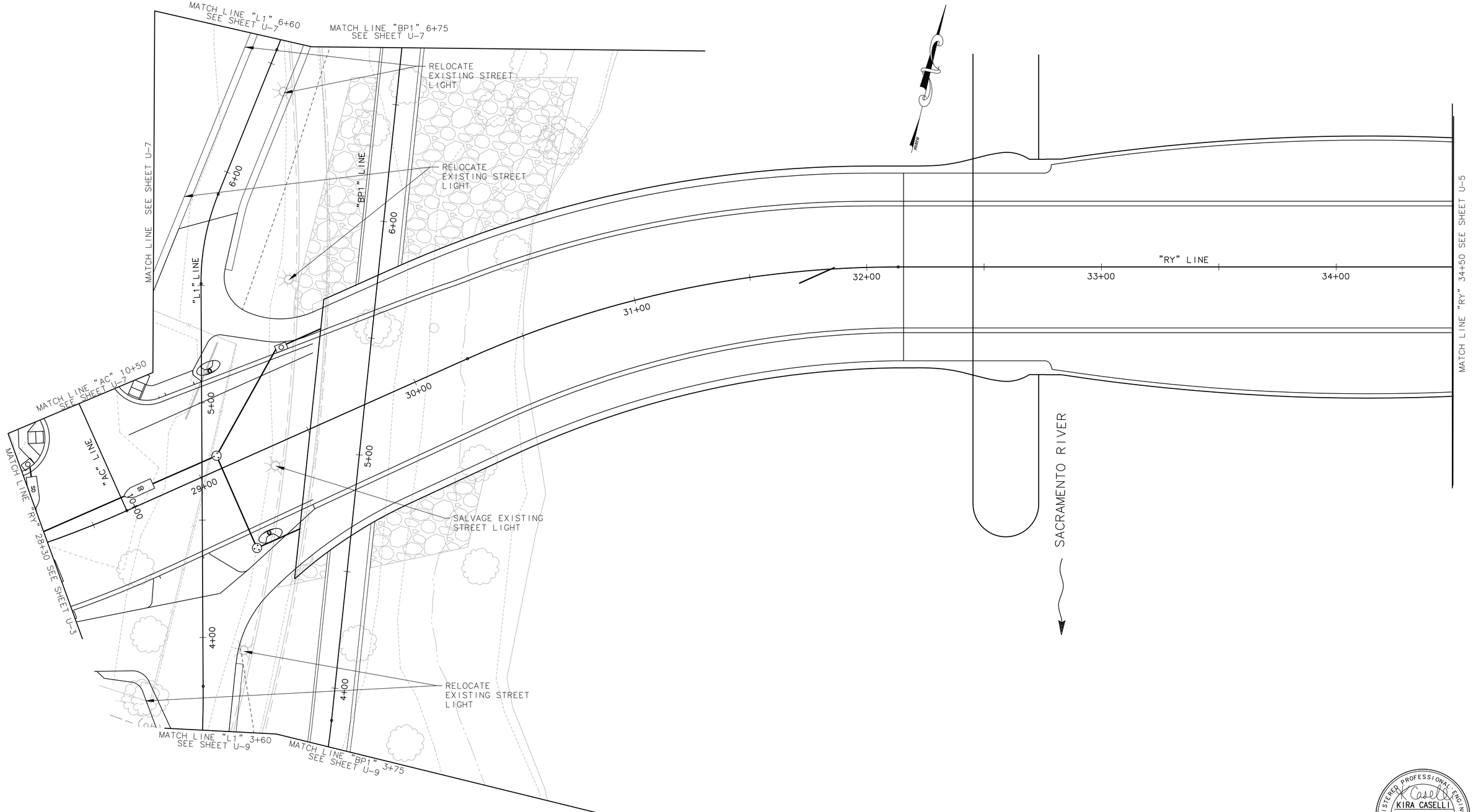
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 90 OF 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

U-4

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

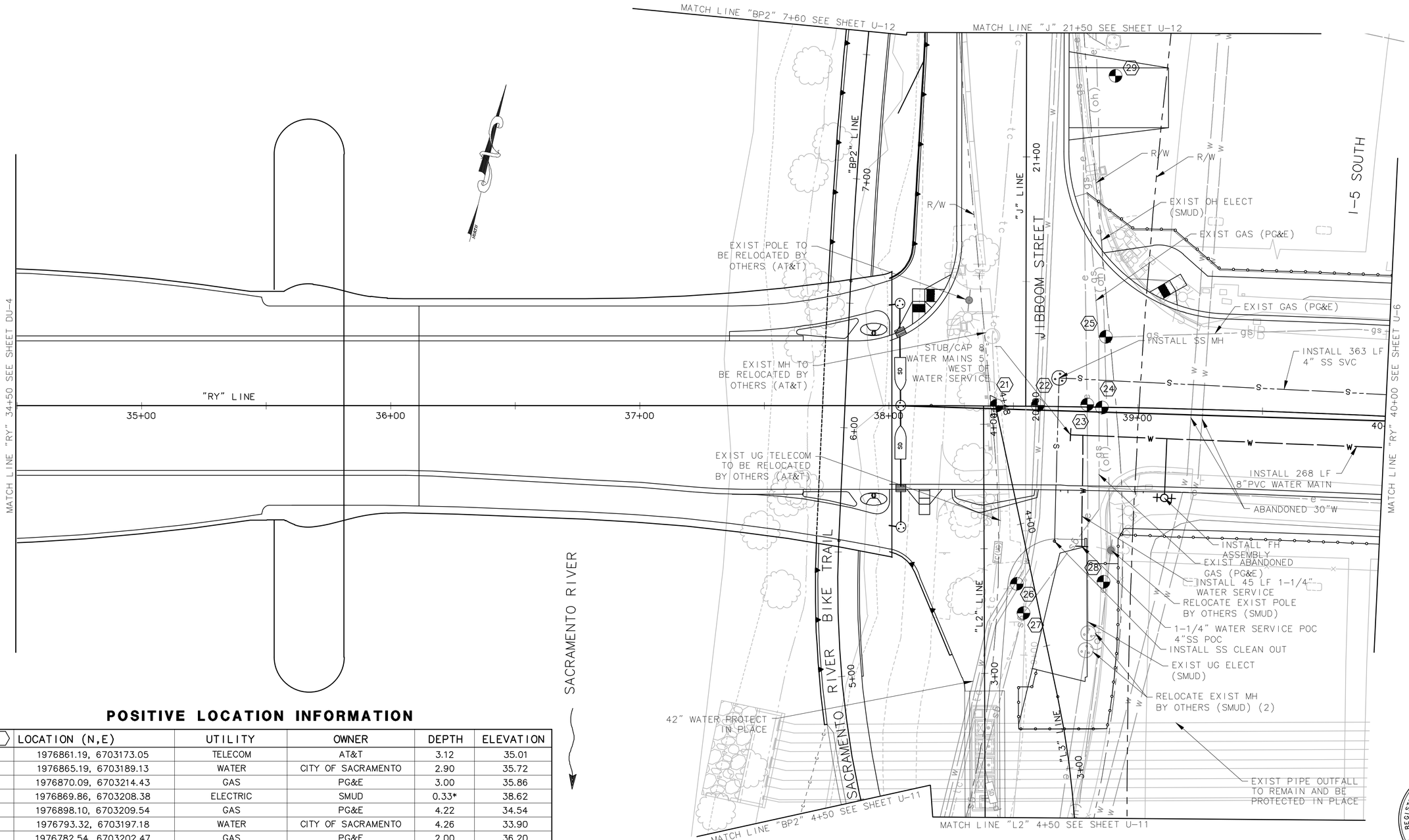
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 91 — OF — 648



POSITIVE LOCATION INFORMATION

No. ⬡	LOCATION (N,E)	UTILITY	OWNER	DEPTH	ELEVATION
21	1976861.19, 6703173.05	TELECOM	AT&T	3.12	35.01
22	1976865.19, 6703189.13	WATER	CITY OF SACRAMENTO	2.90	35.72
23	1976870.09, 6703214.43	GAS	PG&E	3.00	35.86
24	1976869.86, 6703208.38	ELECTRIC	SMUD	0.33*	38.62
25	1976898.10, 6703209.54	GAS	PG&E	4.22	34.54
26	1976793.32, 6703197.18	WATER	CITY OF SACRAMENTO	4.26	33.90
27	1976782.54, 6703202.47	GAS	PG&E	2.00	36.20
28	1976802.03, 6703230.90	ELECTRIC	SMUD	0.33*	38.28
29	1977033.81, 6703172.83	WATER	CITY OF SACRAMENTO	3.81	35.79

* CONCRETE CAP FOUND

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

U-5

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
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FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

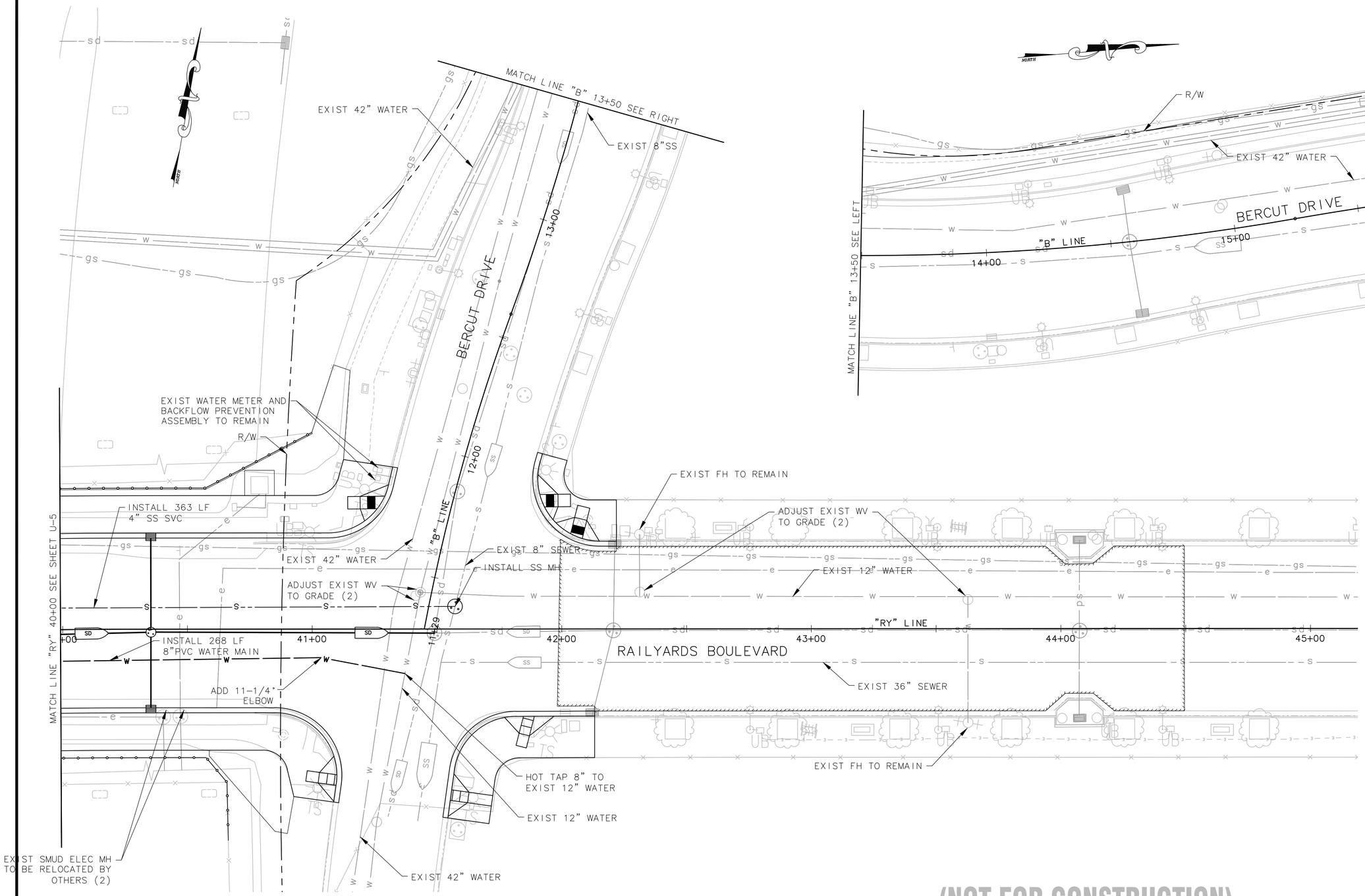
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 92 — OF — 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

U-6

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

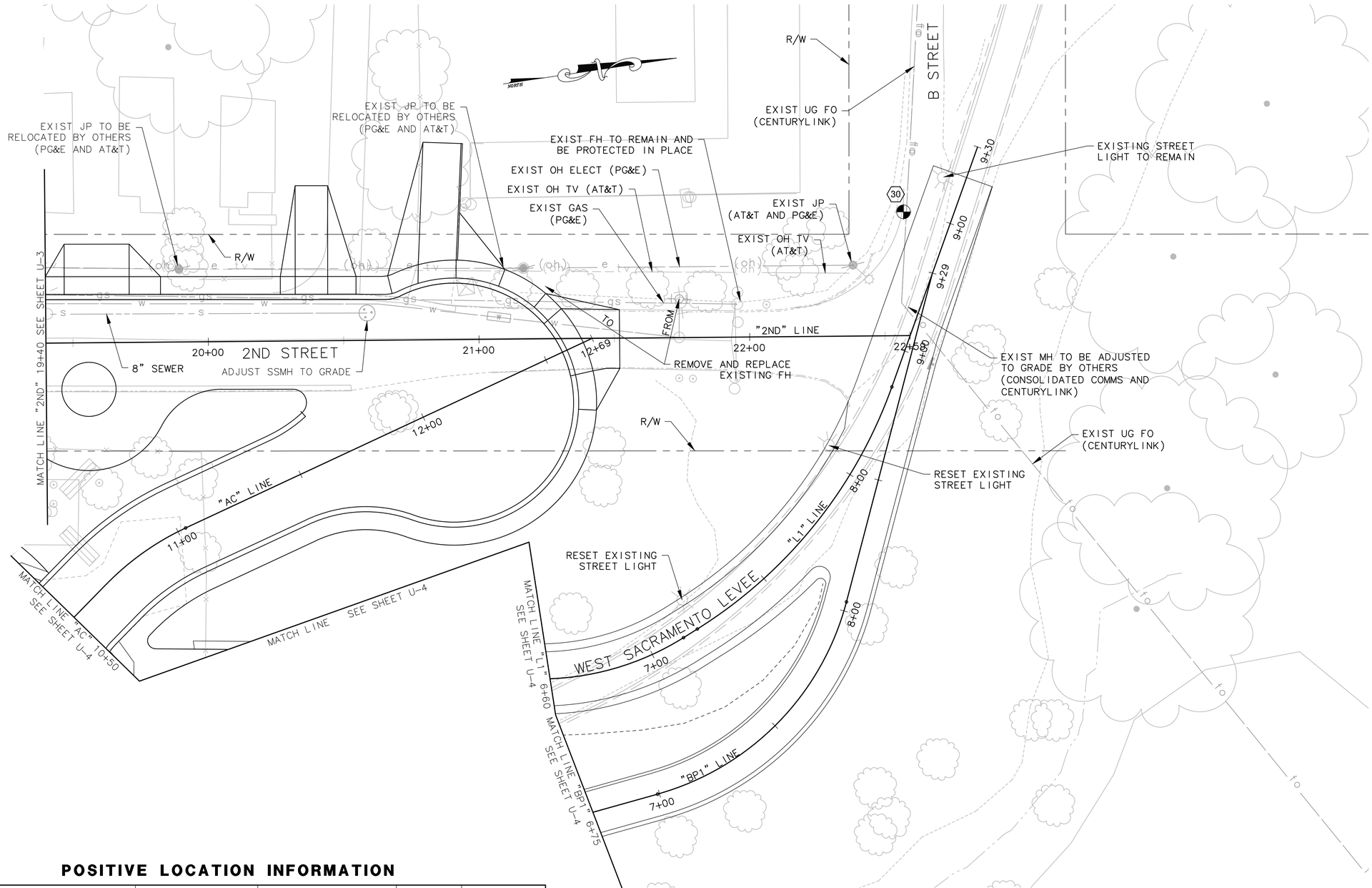
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 93 OF 648



POSITIVE LOCATION INFORMATION

No. ⬡	APPROX. LOCATION (N,E)	UTILITY	OWNER	DEPTH	ELEVATION
30	NOT DETECTED/CANCELED	-	-	-	-

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

100% (NOT FOR CONSTRUCTION)
(NOT FOR CONSTRUCTION)

U-7

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 94 — OF — 648

MATCH LINE "3RD" 11+60 SEE SHEET U-2

MATCH LINE "2ND" 16+20 SEE SHEET U-3

EXIST UG ELECT (PG&E)

EXIST UG FO (LEVEL 3)

EXIST ELECT VAULT (PG&E)

EXIST UG ELECT (PG&E)

EXIST 16" WATER

EXIST ELECT VAULT (PG&E)

EXIST GAS (PG&E)

EXIST 12" GAS (KINDER MORGAN)

"3RD" LINE

3RD STREET

R/W

PL

"PL1" LINE

"PL2" LINE

"2ND" LINE

"I" LINE

7+00

6+00

5+00

10+00

11+00

12+00

13+00

14+00

15+00

16+00

R/W

REMOVE AND REPLACE EXISTING FH (SEE SHEET U-3)

EXIST POLE TO BE PROTECTED IN PLACE

ADJUST WATER VALVE TO GRADE

C STREET

2ND STREET

EXIST 8" WATER

EXIST OH TV (AT&T)

R/W

EXIST JP TO REMAIN (AT&T AND PG&E)

EXIST OH ELECT (PG&E)

EXIST JP TO REMAIN (AT&T AND PG&E)

EXIST JP TO REMAIN (AT&T AND PG&E)

EXIST 8" WATER

EXIST OH ELECT (PG&E)

EXIST OH POLE (PG&E)

EXIST UG FO (CENTURYLINK)

EXIST UG TELECOM (VERIZON)

EXIST MH (CENTURYLINK AND VERIZON)

R/W

EXIST MH (VERIZON)

EXIST UG FO (CENTURYLINK)

ELECTROLIER TO BE RELOCATED SEE LIGHTING PLANS

EXIST UG TELECOM (VERIZON)

UNION PACIFIC RAILROAD

MATCH LINE "2ND" 30+00 SEE RIGHT

MATCH LINE "2ND" 30+00 SEE LEFT

I STREET BRIDGE

R/W

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

100% (NOT FOR CONSTRUCTION)

U-8

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT

BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

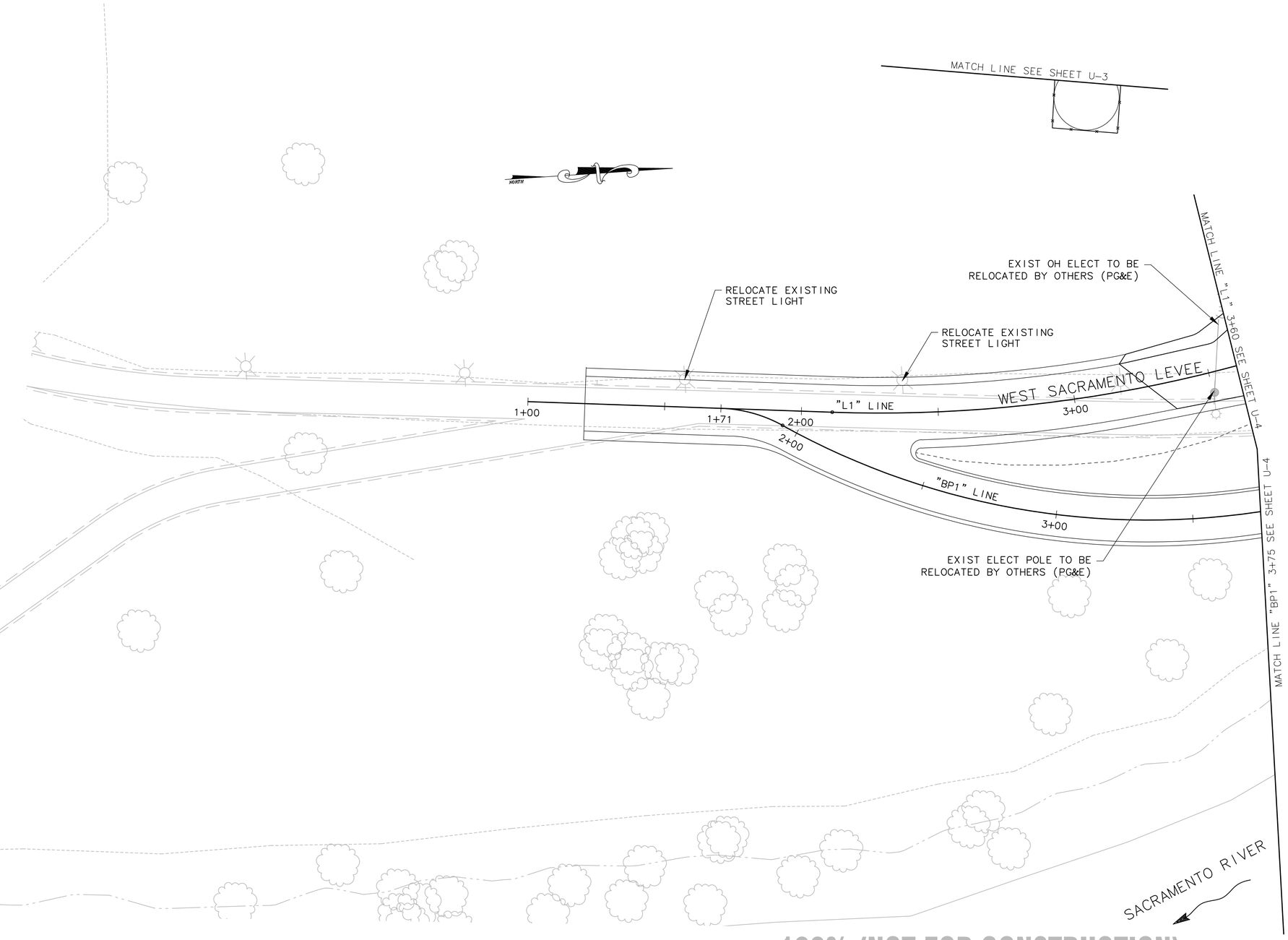
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 95 OF 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

100% (NOT FOR CONSTRUCTION)

(NOT FOR CONSTRUCTION)

U-9

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

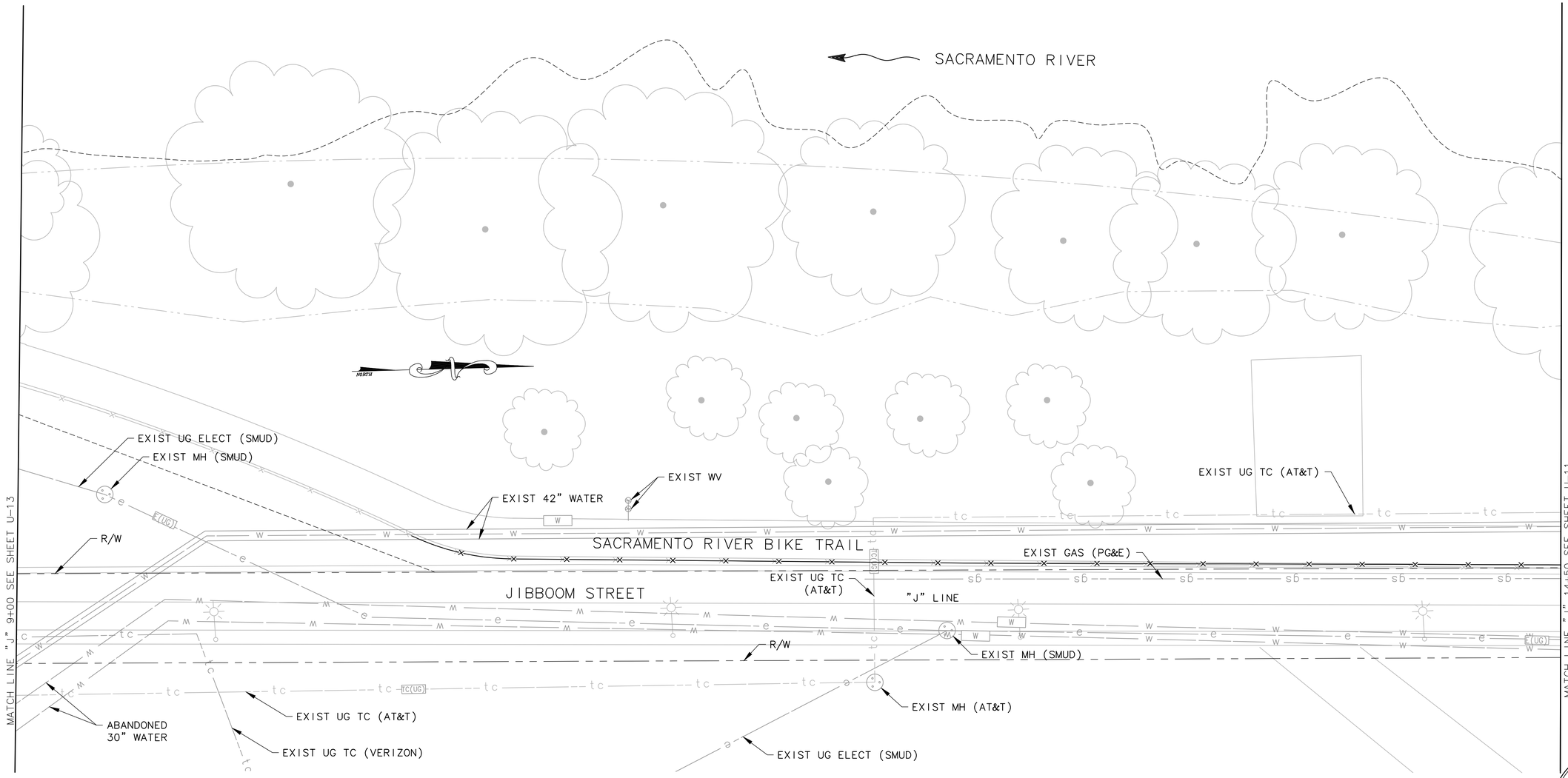
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 96 — OF — 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

U-10

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

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CITY OF SACRAMENTO
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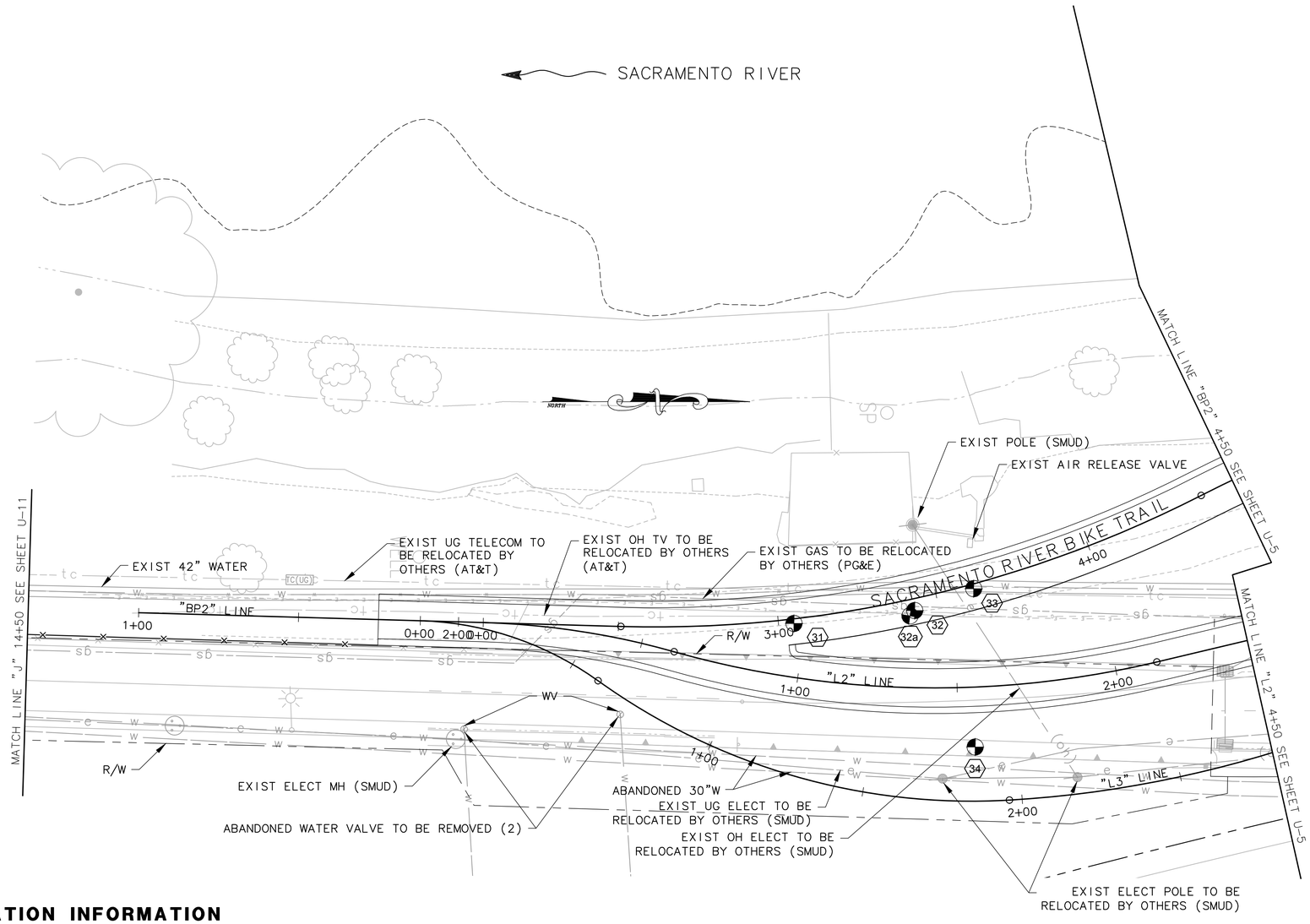
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 97 — OF — 648



POSITIVE LOCATION INFORMATION

No. ⬡	LOCATION (N,E)	UTILITY	OWNER	DEPTH	ELEVATION
31	1976593.72, 6703198.46	TELECOM	AT&T	3.20	34.81
32	1976595.19, 6703196.79	GAS	PG&E	3.16	34.33
32a	1976593.72, 6703198.460	TELECOM	AT&T	3.80	34.33
33	1976613.65, 6703189.96	WATER	CITY OF SACRAMENTO	3.69	33.77
34	CANCELED	–	–	–	–

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

U-11

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
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FIELD BOOK

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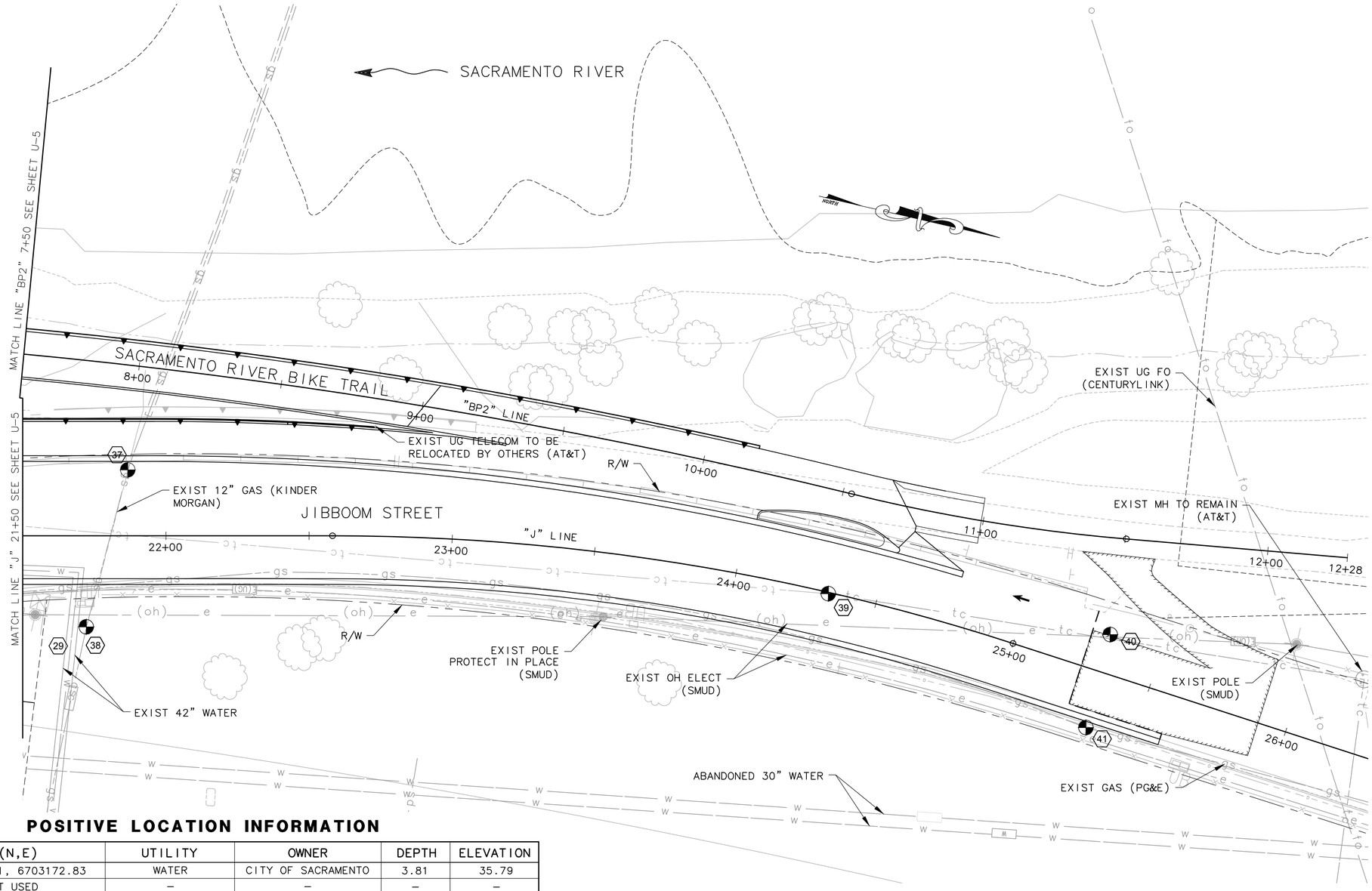
OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 98 — OF — 648



POSITIVE LOCATION INFORMATION

No. ⬡	LOCATION (N,E)	UTILITY	OWNER	DEPTH	ELEVATION
29	1977033.81, 6703172.83	WATER	CITY OF SACRAMENTO	3.81	35.79
35	NOT USED	–	–	–	–
36	NOT USED	–	–	–	–
37	1977040.40, 6703120.14	GAS	KINDER MORGAN	8.00*	–
38	1977038.67, 6703176.86	GAS	KINDER MORGAN	7.30*	–
39	1977288.64, 6703107.39	TELECOM	AT&T	2.38	36.80
40	1977387.87, 6703099.23	TELECOM	AT&T	3.03	34.73
41	1977386.87, 6703132.79	GAS	PG&E	3.13	35.02

*UTILITY OWNER INDICATED UTILITY IS ±20' DEEP.

KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

U-12

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 99 OF 648

MATCH LINE "J" 9+00 SEE SHEET U-10

WV

EXIST UG ELECT (SMUD)

EXIST ELECT MH (SMUD)

JIBBOOM STREET

"J" LINE

EXIST MH (CENTURYLINK)

EXIST UG FO (CENTURYLINK)

EXIST MH (VERIZON)

EXIST UG TELECOM (VERIZON)

I STREET BRIDGE

41+00

TO WEST SACRAMENTO

SACRAMENTO RIVER

SACRAMENTO RIVER BIKE TRAIL

EXIST UG TELECOM (AT&T)

UNION PACIFIC RAILROAD

EXIST MH (AT&T)

EXIST OH TV (AT&T)

EXIST OH TELECOM (AT&T)

EXIST MH (AT&T AND VERIZON)

ABANDONED 30"WATER

ABANDONED 30"WATER

EXIST UG FO (CENTURYLINK)

EXIST UG TELECOM (VERIZON)

EXIST ELECT (SMUD)

EXIST UG TC (AT&T)

EXIST MH (AT&T)

PL

R/W

"I" LINE

42+00

43+00

44+00

45+00

46+00

EXIST 42" WATER

R/W

FH

FH

TO J STREET

ABANDONED 30" WATER

MATCH LINE "I" 46+50 SEE SHEET U-15

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

U-13

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

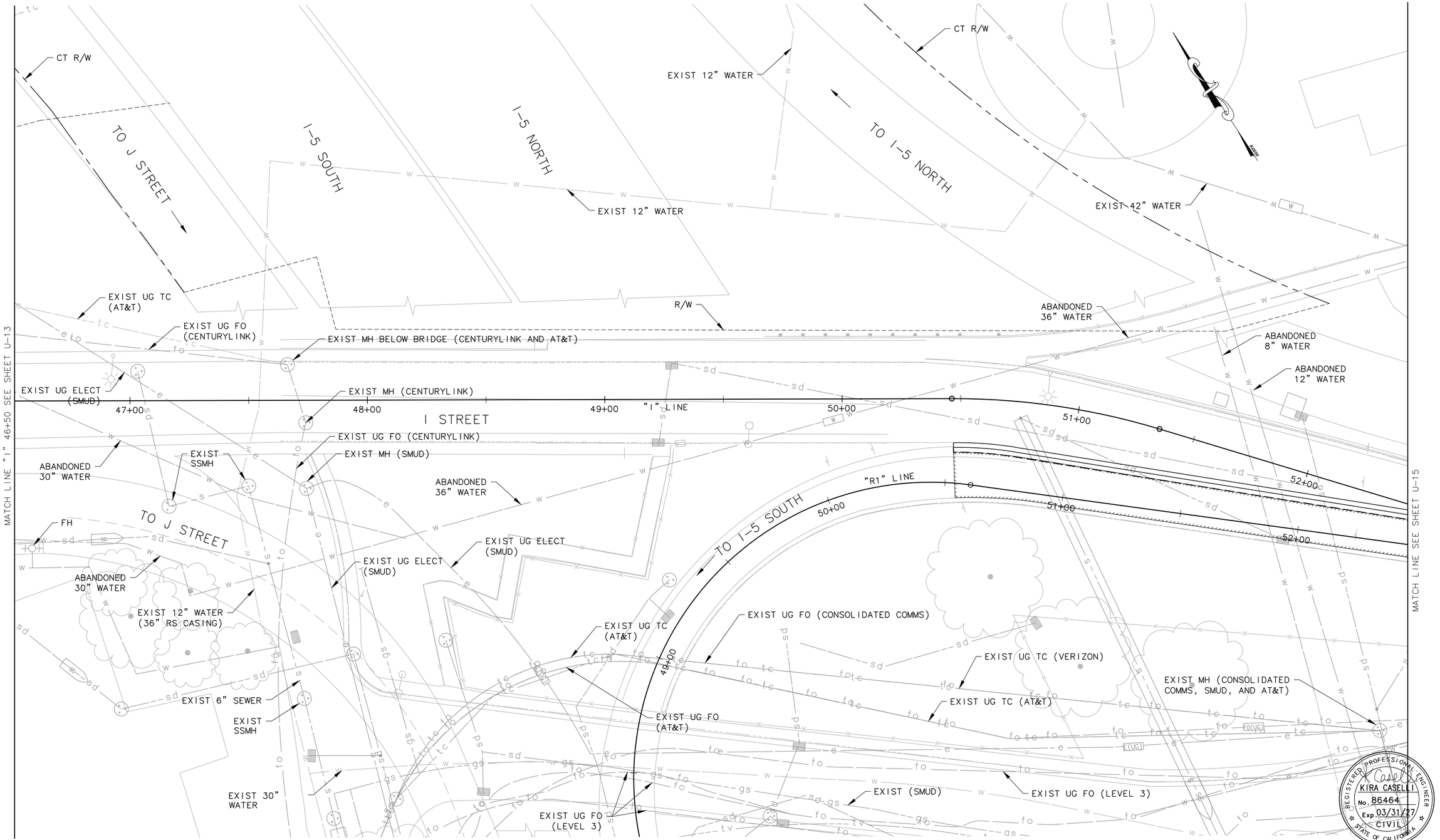
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 100 OF 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

U-14

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

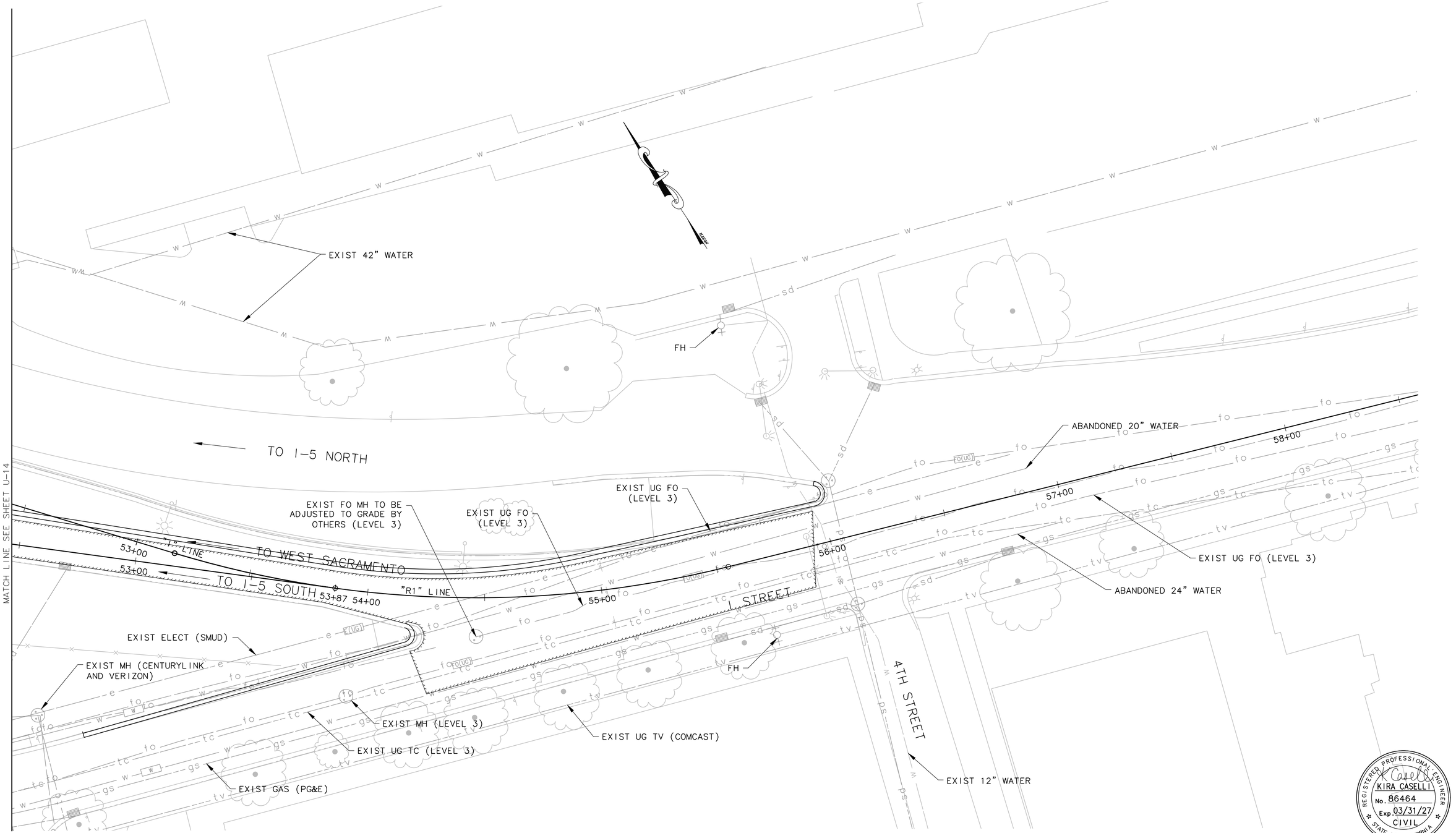
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

UTILITY PLANS

T15136000

SHEET 101 — OF — 648



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

U-15

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Z. BAILEY
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

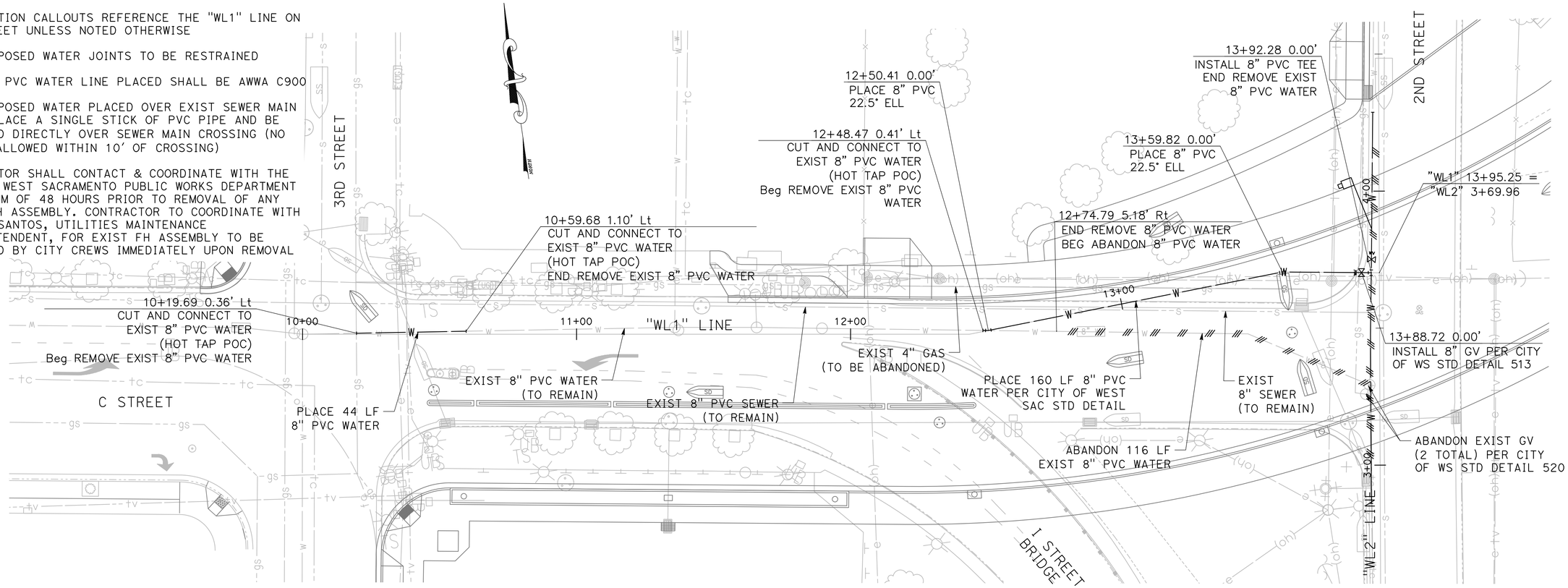
UTILITY PLANS

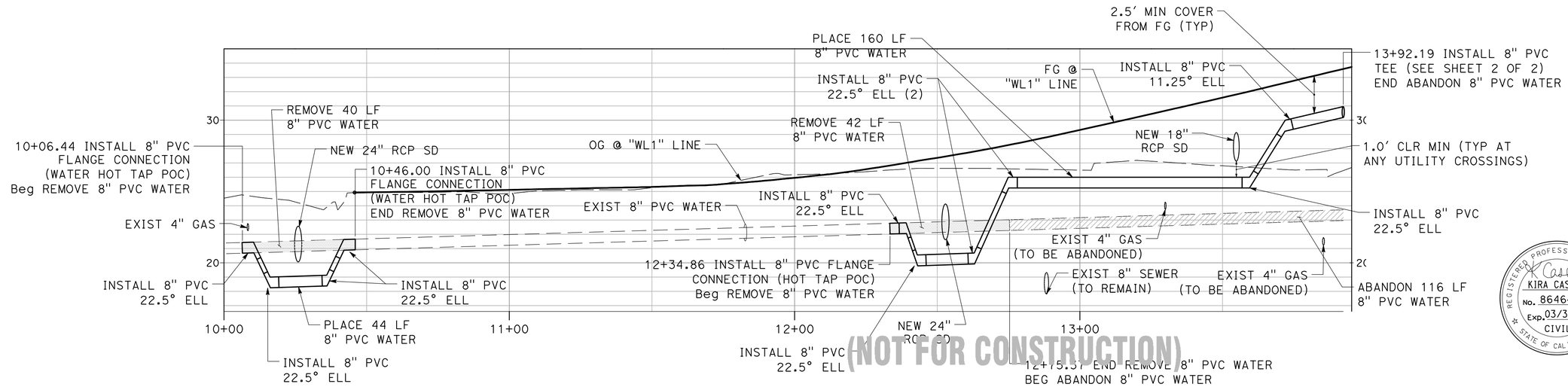
T15136000

SHEET 102 — OF — 648

NOTES:

1. ALL STATION CALLOUTS REFERENCE THE "WL1" LINE ON THIS SHEET UNLESS NOTED OTHERWISE
2. ALL PROPOSED WATER JOINTS TO BE RESTRAINED
3. ALL NEW PVC WATER LINE PLACED SHALL BE AWWA C900
4. ANY PROPOSED WATER PLACED OVER EXIST SEWER MAIN SHALL PLACE A SINGLE STICK OF PVC PIPE AND BE CENTERED DIRECTLY OVER SEWER MAIN CROSSING (NO JOINTS ALLOWED WITHIN 10' OF CROSSING)
5. CONTRACTOR SHALL CONTACT & COORDINATE WITH THE CITY OF WEST SACRAMENTO PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO REMOVAL OF ANY EXIST FH ASSEMBLY. CONTRACTOR TO COORDINATE WITH ROBERT SANTOS, UTILITIES MAINTENANCE SUPERINTENDENT, FOR EXIST FH ASSEMBLY TO BE SALVAGED BY CITY CREWS IMMEDIATELY UPON REMOVAL





(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

31-Oct-25
13:01

W-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY:
DATE NOVEMBER 2025
DESIGNED BY:
R.C.E. DATE NOVEMBER 2025
CHECKED BY:
R.C.E. DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
WATER PLAN AND PROFILE

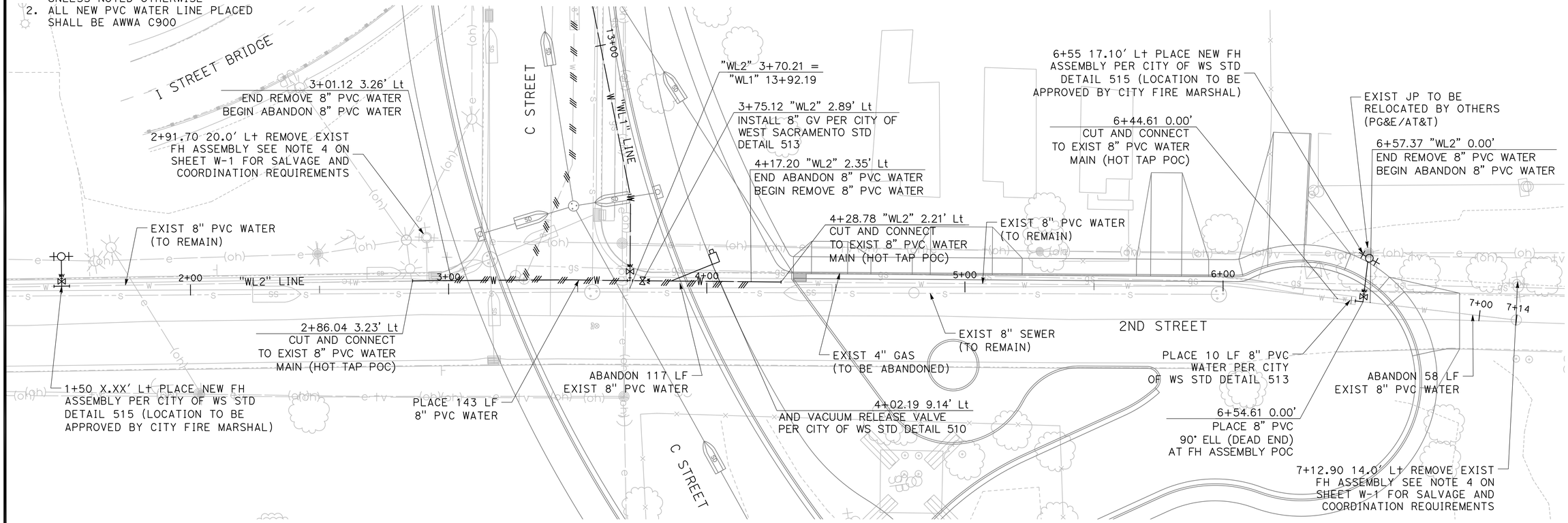
T15136000

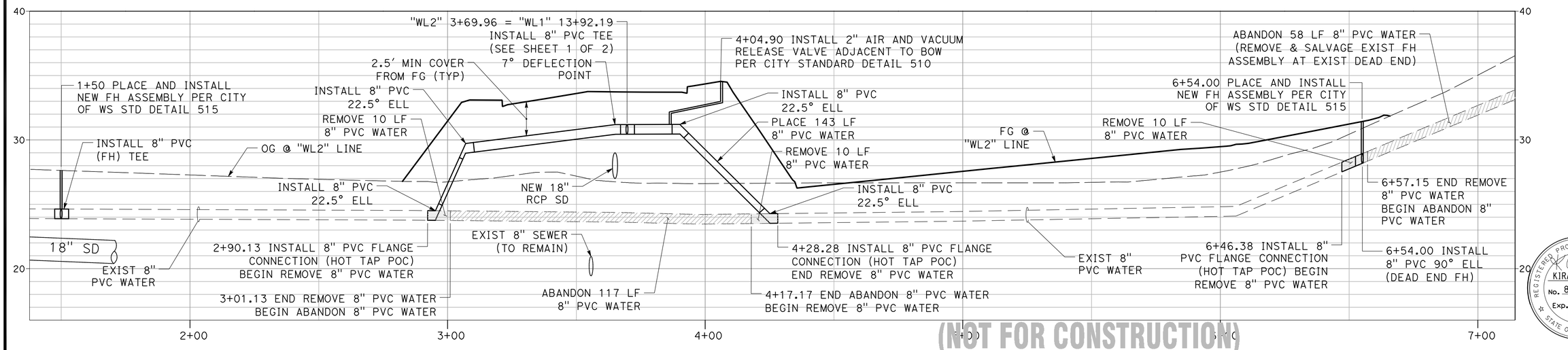
SHEET 103 — OF — 648

zbailey
I Street_W1-W2 Water.dwg

NOTES:

1. ALL STATION CALLOUTS REFERENCE THE "WL2" LINE ON THIS SHEET UNLESS NOTED OTHERWISE
2. ALL NEW PVC WATER LINE PLACED SHALL BE AWWA C900





(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

31-Oct-25
13101

W-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=4'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: DATE NOVEMBER 2025
DESIGNED BY: R.C.E. DATE NOVEMBER 2025
CHECKED BY: R.C.E. DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
WATER PLAN AND PROFILE

T15136000

SHEET 104 — OF — 648

zbailey
I Street_W1-W2 Water.dwg

STAGE 1 CONSTRUCTION:

(1) CONSTRUCT SACRAMENTO RIVER BIKE TRAIL DETOUR.

LEGEND:

TEMPORARY CONSTRUCTION STAGE 1

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

SC-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=200'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
STAGE CONSTRUCTION
STAGE 1

T15136000

SHEET 105 — OF — 648

STAGE 2a CONSTRUCTION:

(1) CONSTRUCT PARKING.

STAGE 2b CONSTRUCTION:

(2) CONSTRUCT I STREET REPLACEMENT BRIDGE AND C STREET AND RAILYARDS BLVD IMPROVEMENTS.

(3) CONSTRUCT SACRAMENTO RETAINING WALLS, BIKE TRAIL, AND JIBBOOM STREET.

(4) CONSTRUCT WEST SACRAMENTO LEVEE IMPROVEMENTS AND REMAINING CURB RAMPS.

(5) CONSTRUCT 2ND STREET ACCESS.

STAGE 2c CONSTRUCTION:

(6) CONSTRUCT RAILYARDS BLVD PEDESTRIAN FACILITIES AND REMAINING PORTION OF JIBBOOM STREET.

LEGEND:

- PERMANENT CONSTRUCTION STAGE 2a
- DEMOLITION STAGE 2a
- PERMANENT CONSTRUCTION STAGE 2b
- PERMANENT CONSTRUCTION STAGE 2c
- ROAD CLOSURE

(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

SC-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=200'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
STAGE CONSTRUCTION
STAGE 2

T15136000

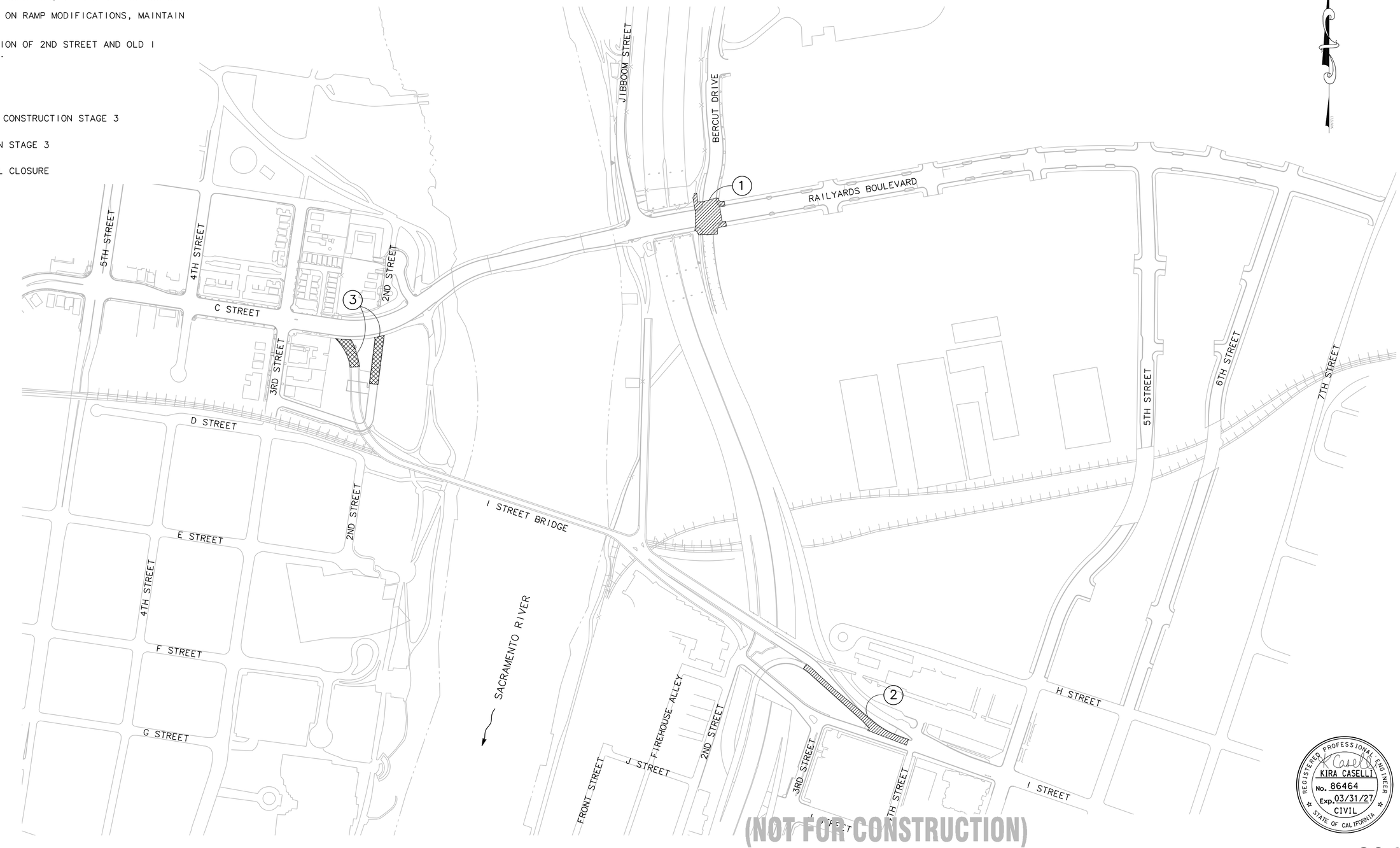
SHEET 106 — OF — 648

STAGE 3 CONSTRUCTION

1. CONSTRUCT BERCUT DRIVE AND RAILYARDS BOULEVARD INTERSECTION, MAINTAIN THRU ACCESS.
2. CONSTRUCT I-5 ON RAMP MODIFICATIONS, MAINTAIN ACCESS.
3. DEMOLISH PORTION OF 2ND STREET AND OLD I STREET BRIDGE.

LEGEND:

- PERMANENT CONSTRUCTION STAGE 3
- DEMOLITION STAGE 3
- BIKE TRAIL CLOSURE



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

SC-3

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=200'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
STAGE CONSTRUCTION
STAGE 3

T15136000

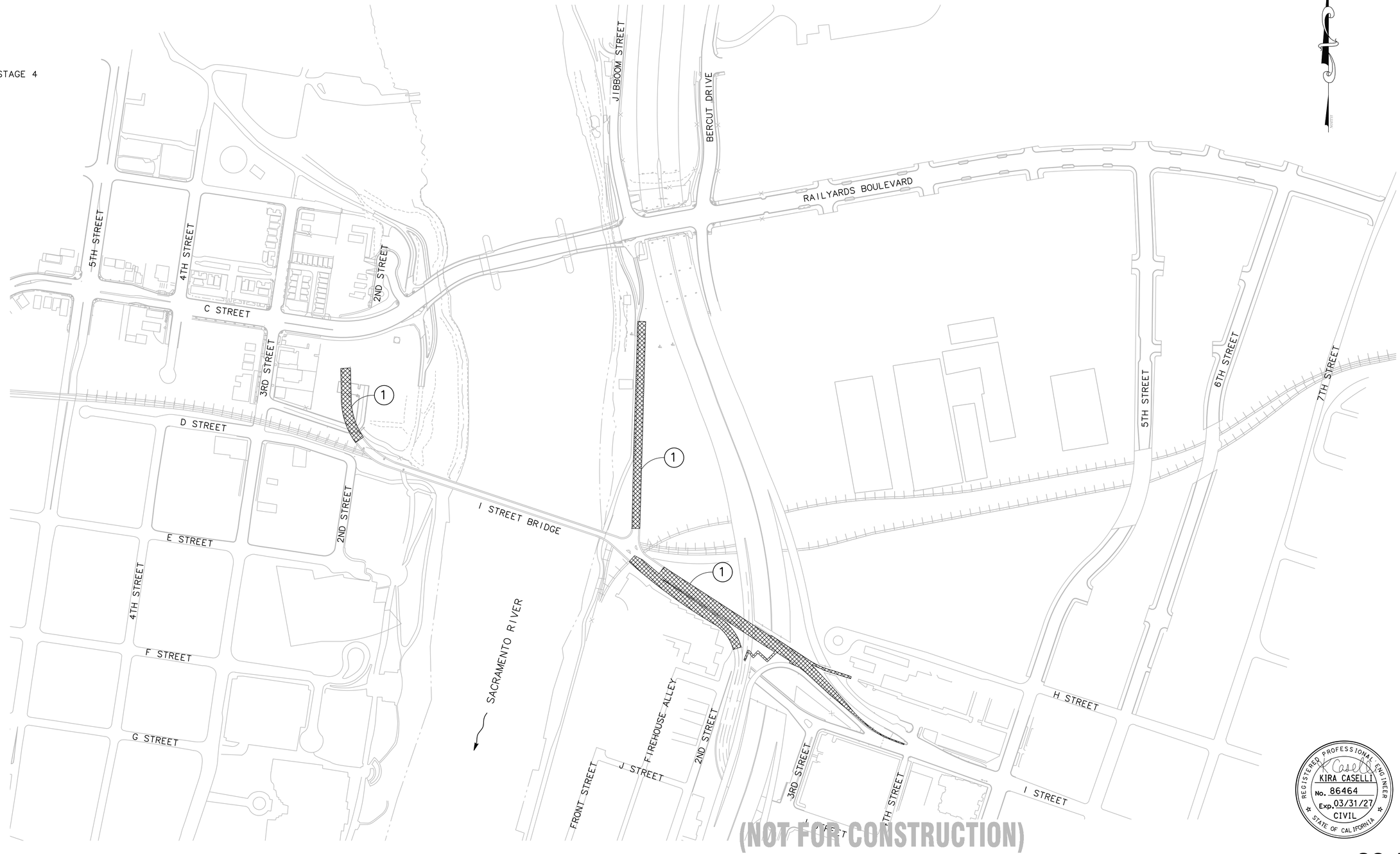
SHEET 107 OF 648

STAGE 4 CONSTRUCTION

(1) DEMOLISH VIADUCT STRUCTURES.

LEGEND:

DEMOLITION STAGE 4



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

SC-4

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=200'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
STAGE CONSTRUCTION
STAGE 4

T15136000

SHEET 108 OF 648

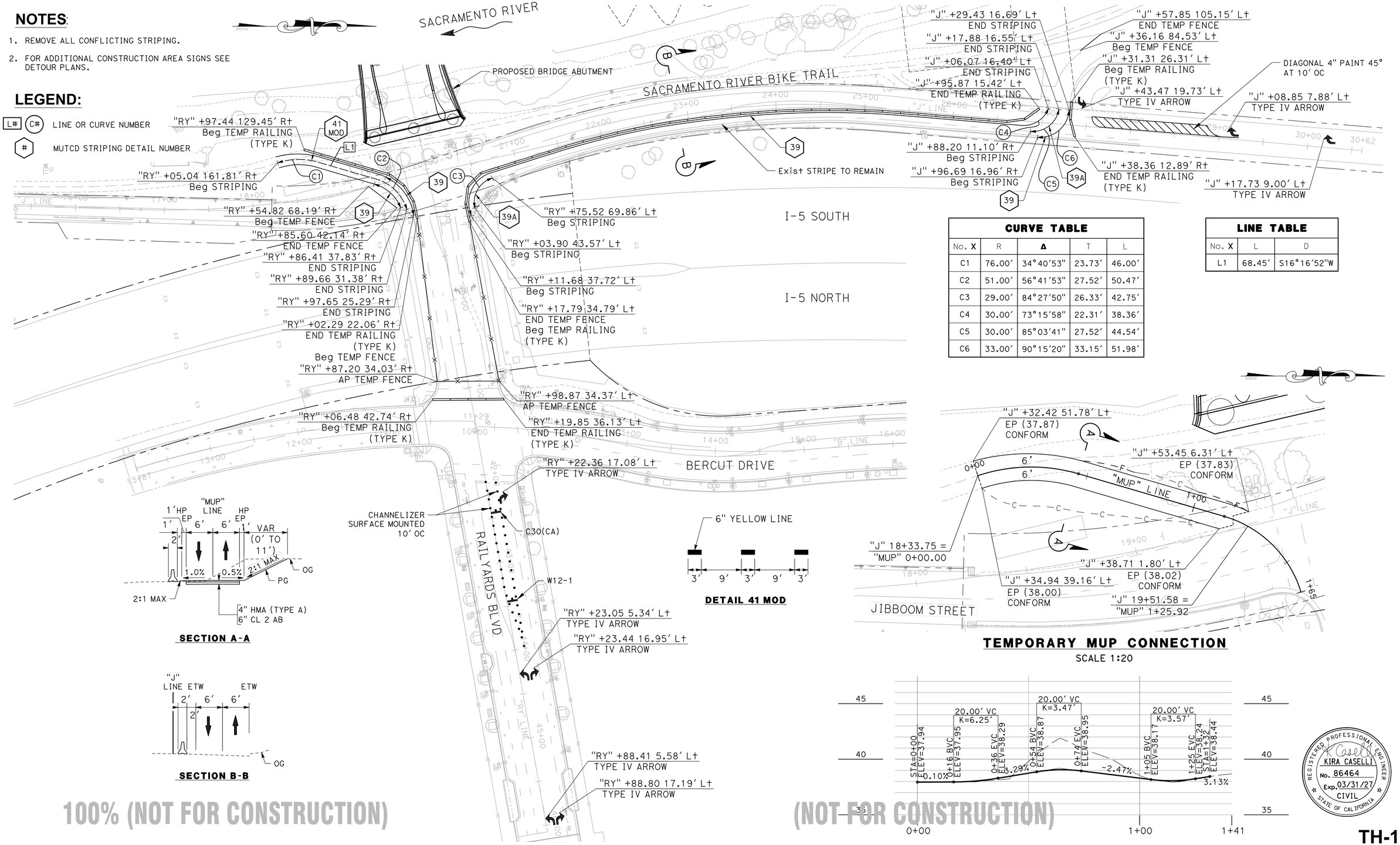
NOTES:

1. REMOVE ALL CONFLICTING STRIPING.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS SEE DETOUR PLANS.

LEGEND:

L# C# LINE OR CURVE NUMBER

MUTCD STRIPING DETAIL NUMBER



CURVE TABLE				
No. X	R	Δ	T	L
C1	76.00'	34°40'53"	23.73'	46.00'
C2	51.00'	56°41'53"	27.52'	50.47'
C3	29.00'	84°27'50"	26.33'	42.75'
C4	30.00'	73°15'58"	22.31'	38.36'
C5	30.00'	85°03'41"	27.52'	44.54'
C6	33.00'	90°15'20"	33.15'	51.98'

LINE TABLE		
No. X	L	D
L1	68.45'	S16°16'52"W

SECTION A-A

SECTION B-B

DETAIL 41 MOD

TEMPORARY MUP CONNECTION

SCALE 1:20

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

TH-1

100% (NOT FOR CONSTRUCTION)

(NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
TRAFFIC HANDLING PLANS
STAGE 2

T15136000

SHEET 109 — OF — 648

NOTES:

1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS SEE TRAFFIC HANDLING SHEETS.
3. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
4. SEE DE-2 FOR STAGE 2 DETOUR SIGNAGE ON ACTIVE TRANSPORTATION ROUTES.

LEGEND:

- ROADWAY / TRAIL CLOSURE
- CONSTRUCTION AREA SIGN
- DIRECTION OF DETOUR TRAFFIC
- PORTABLE CHANGEABLE MESSAGE SIGN

SIGN D3-1(A) DETAIL
JIBBOOM ST

SIGN D3-1(B) DETAIL
I ST BRIDGE

SIGN D3-1(C) DETAIL
RAILYARDS BLVD

M4-8a — END DETOUR

M4-10L/R — DETOUR

R3-1

R3-2

R11-2 — ROAD CLOSED

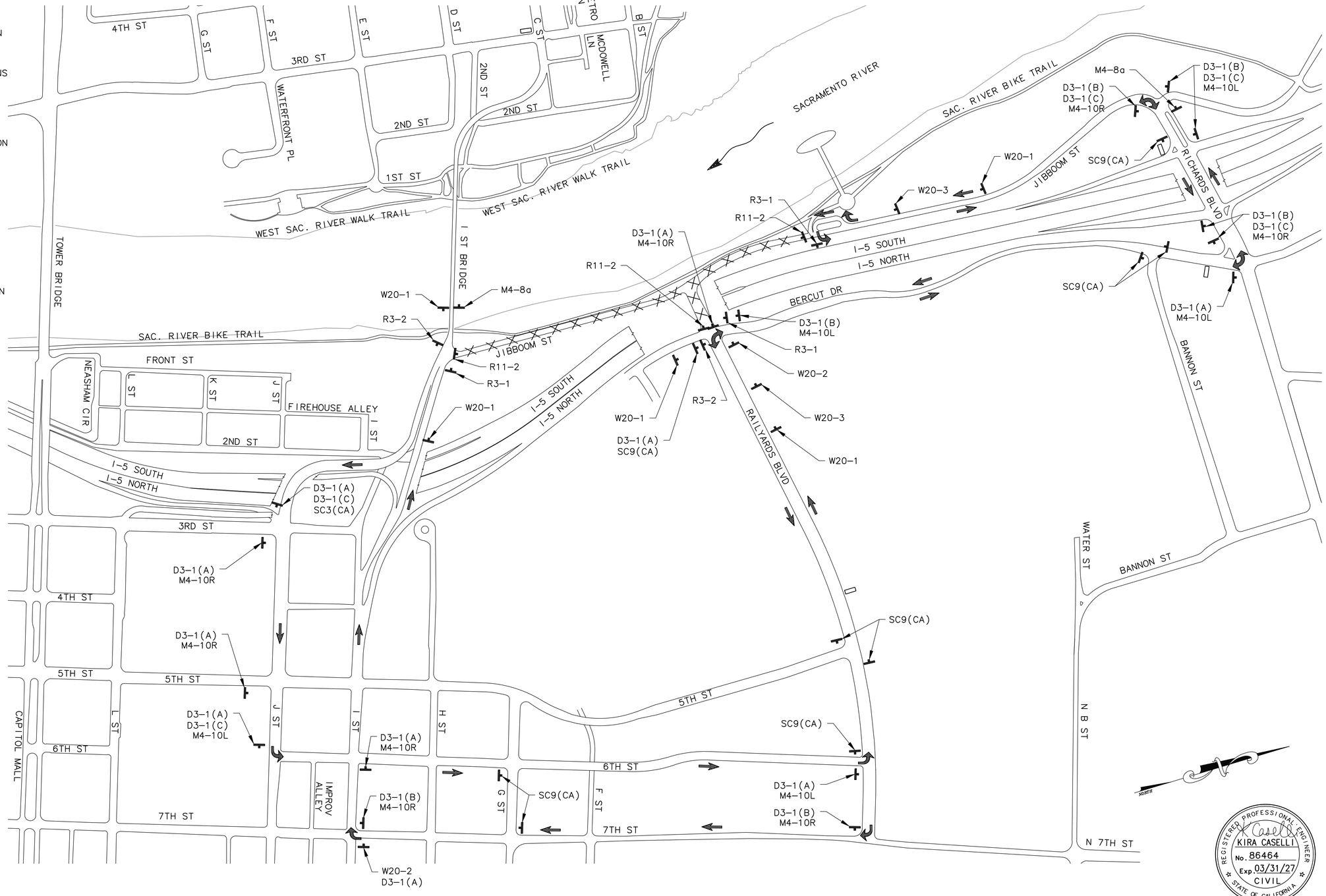
SC3(CA) — DETOUR

SC9(CA) — DETOUR

W20-1 — ROAD WORK AHEAD

W20-2 — DETOUR AHEAD

W20-3 — ROAD CLOSED AHEAD



(NOT FOR CONSTRUCTION)

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

DE-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
VEHICLE DETOUR PLANS STAGE 2

T15136000

SHEET 110 OF 648

NOTES:

1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS SEE TRAFFIC HANDLING SHEETS.
3. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
4. SEE DE-1 FOR STAGE 2 ROADWAY DETOUR SIGNAGE.

LEGEND:

- ROADWAY / TRAIL CLOSURE
- CONSTRUCTION AREA SIGN
- DIRECTION OF DETOUR TRAFFIC

W20-3(MOD) — TRAIL DETOUR AHEAD

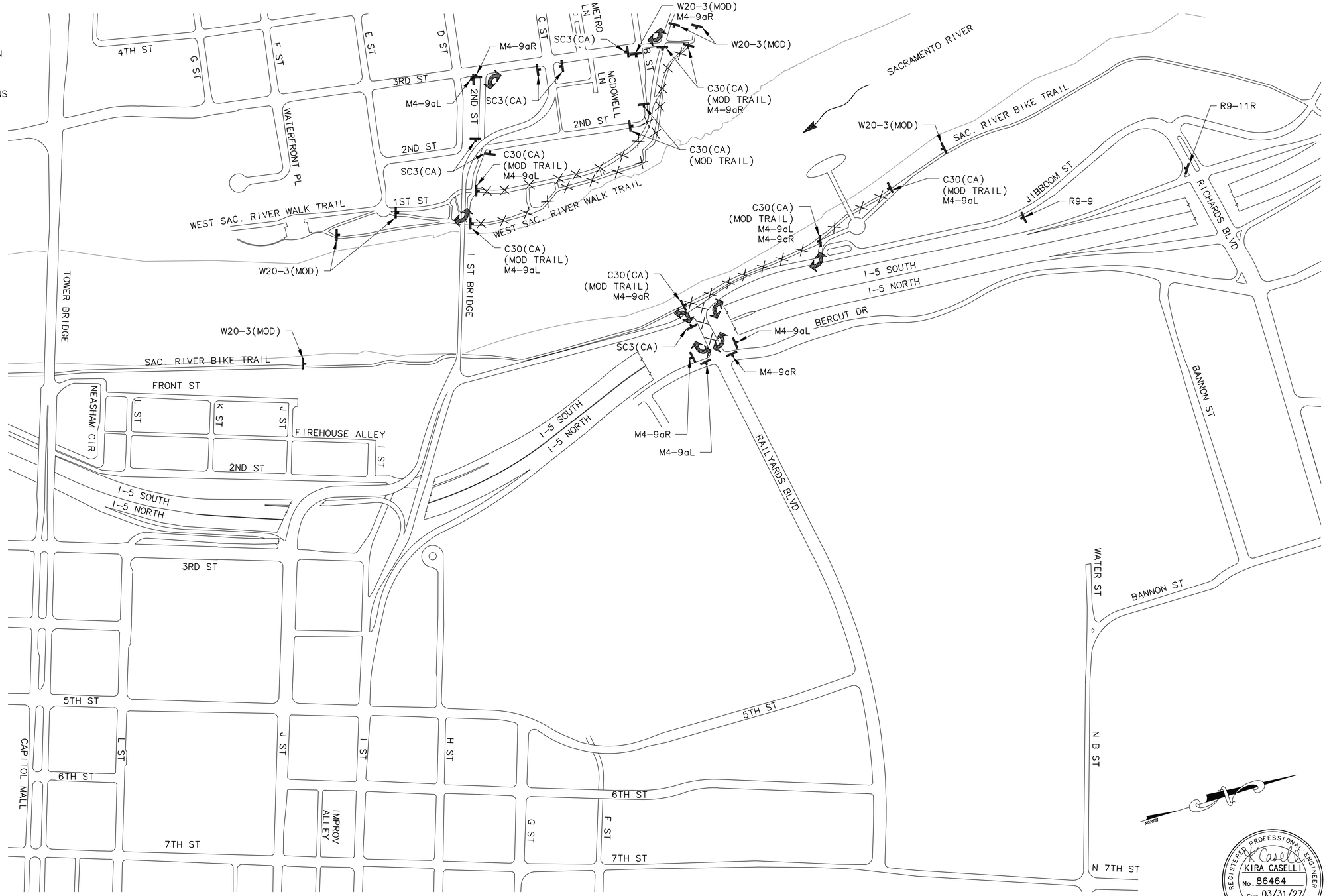
C30(CA) (MOD TRAIL) — TRAIL CLOSED

M4-9aL/R — DETOUR

R9-9 — SIDEWALK CLOSED

R9-11L/R — SIDEWALK CLOSED AHEAD, CROSS HERE

SC3(CA) — DETOUR



(NOT FOR CONSTRUCTION)

KIRA CASELLI No. 86464 Exp. 03/31/27 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

DE-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
PEDESTRIAN AND BICYCLE DETOUR PLANS - STAGE 2

T15136000

SHEET 111 — OF — 648

NOTE:

THIS DETOUR MAY BE USED FOR A MAXIMUM OF THREE (3) CALENDAR DAYS.

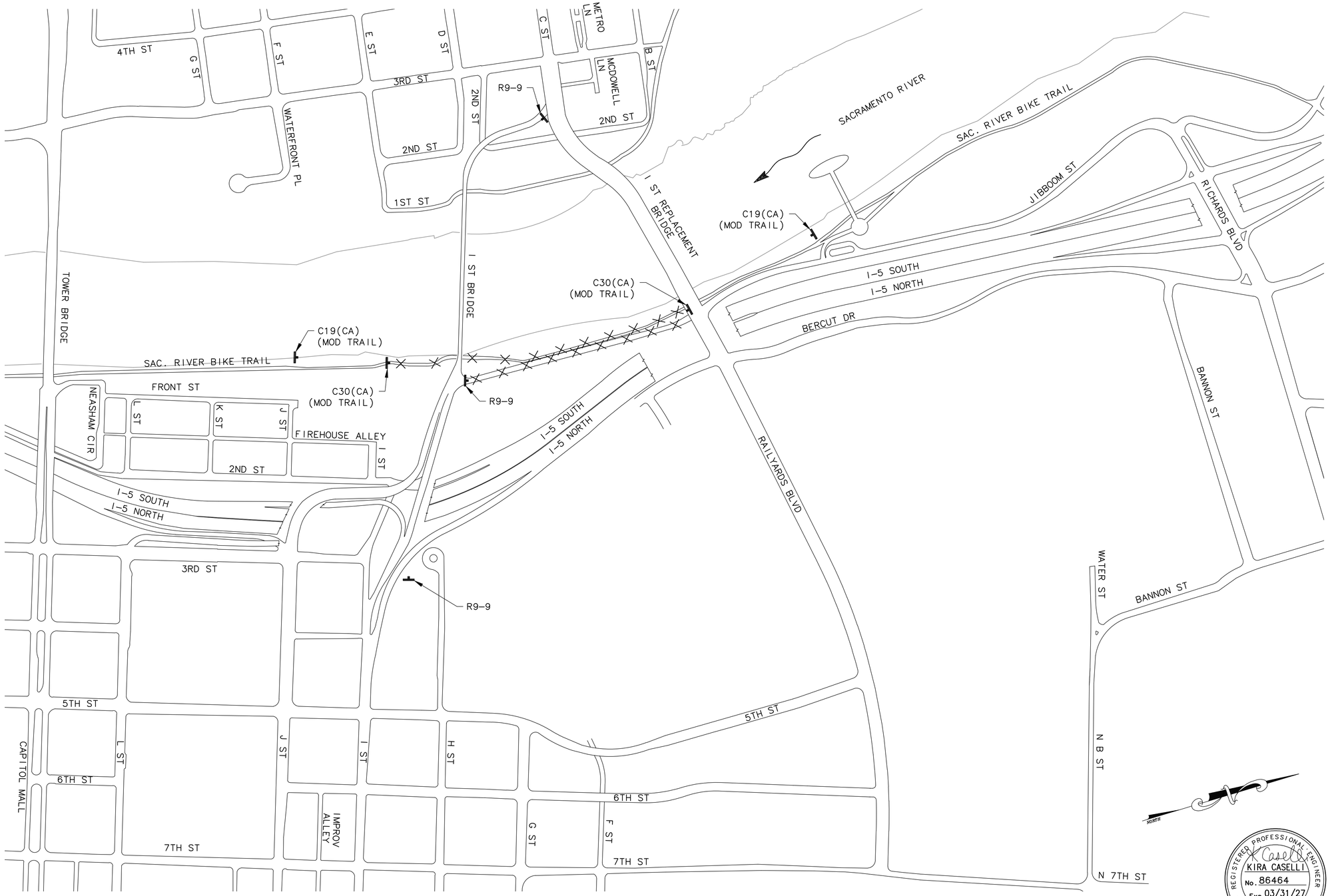
LEGEND:

- ROADWAY / TRAIL CLOSURE
- CONSTRUCTION AREA SIGN
- DIRECTION OF DETOUR TRAFFIC

C19(CA) (MOD TRAIL) — TRAIL CLOSED AHEAD

C30(CA) (MOD TRAIL) — TRAIL CLOSED

R9-9 — SIDEWALK CLOSED



(NOT FOR CONSTRUCTION)

KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

DE-3

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
DETOUR PLANS
STAGE 3

T15136000

SHEET 112 — OF — 648

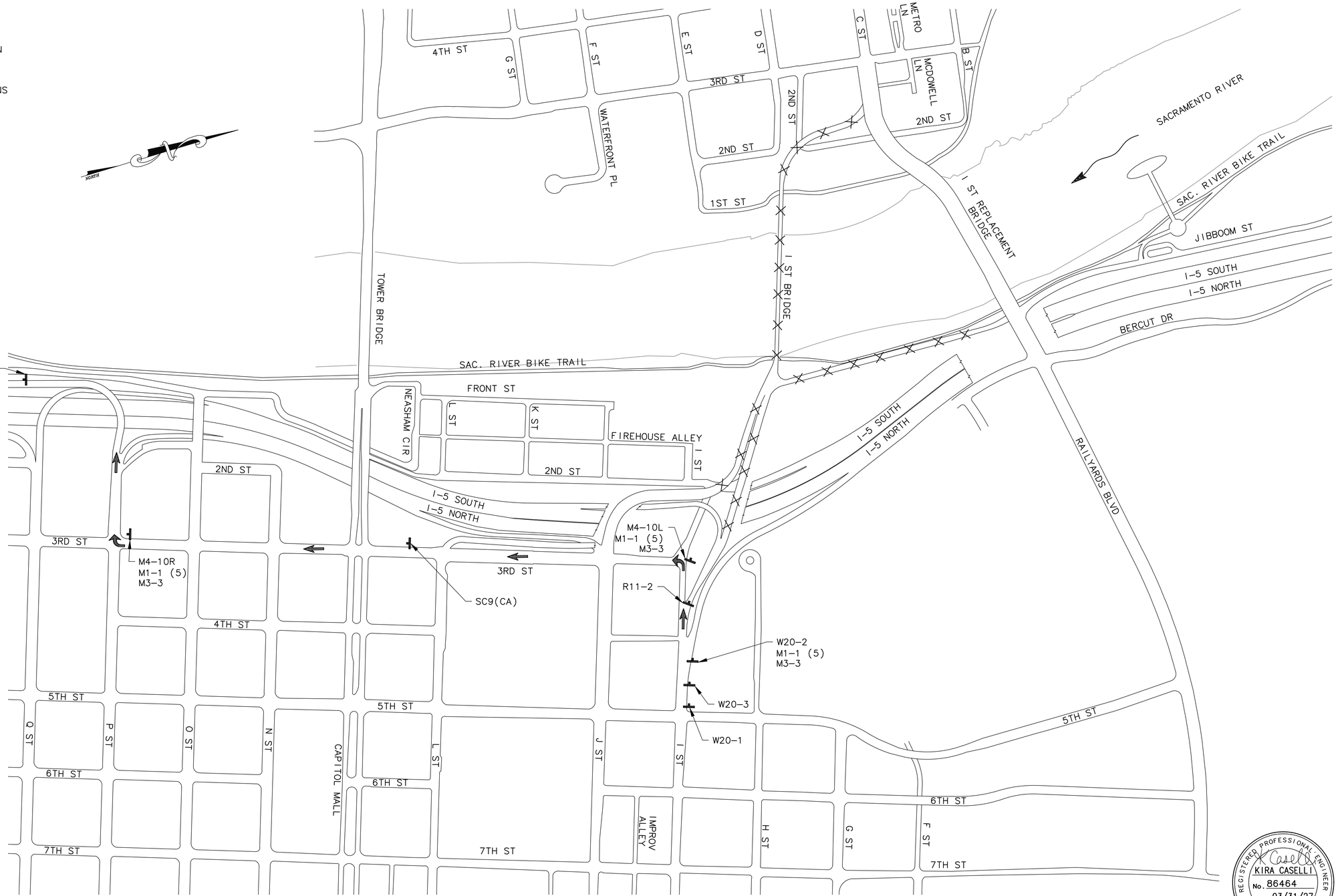
NOTES:

1. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS SEE TRAFFIC HANDLING SHEETS AND CONSTRUCTION AREA SIGNS.
3. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
4. REMOVE ALL CONFLICTING SIGNAGE.

LEGEND:

- ROADWAY / TRAIL CLOSURE
- CONSTRUCTION AREA SIGN
- DIRECTION OF DETOUR TRAFFIC

M1-1(5)	5
M3-3	SOUTH
M4-8a	END DETOUR
M4-10L/R	DETOUR
R11-2	ROAD CLOSED
SC9(CA)	DETOUR
W20-1	ROAD WORK AHEAD
W20-2	DETOUR AHEAD
W20-3	ROAD CLOSED AHEAD



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

DE-4

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
DETOUR PLANS
STAGE 4

T15136000

SHEET 113 — OF — 648

GENERAL NOTES SIGNING AND STRIPING:

1. ALL WORK IN THE CITY OF SACRAMENTO SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SACRAMENTO DESIGN AND PROCEDURES MANUAL, DATED SEPTEMBER 1990, THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS, DATED NOVEMBER XXXX, CALTRANS STANDARD PLANS, 2024 EDITION, AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), 2014 EDITION.
2. ALL WORK IN THE CITY OF WEST SACRAMENTO SHALL BE DONE IN ACCORDANCE WITH THE CITY OF WEST SACRAMENTO DESIGN AND PROCEDURES MANUAL, DATED SEPTEMBER XXXX, THE CITY OF WEST SACRAMENTO STANDARD SPECIFICATIONS, DATED XXX 2002, CALTRANS STANDARD PLANS, 2024 EDITION, AND THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), 2014 EDITION.
3. THIS PLAN IS ACCURATE FOR SIGNING AND STRIPING WORK WITHIN THE PUBLIC RIGHT OF WAY ONLY.
4. ALL EXISTING SIGNING, STRIPING, AND MARKINGS TO REMAIN, UNLESS OTHERWISE NOTED. CONFLICTS BETWEEN EXISTING AND PROPOSED SHALL BE RESOLVED BY THE ENGINEER.
5. ALL STRIPING AND MARKINGS SHALL BE THERMOPLASTIC, UNLESS NOTED OTHERWISE, 3M TAPE (OR APPROVED EQUIVALENT) SHALL BE USED ON CONCRETE SURFACES.
6. EXACT POSITION AND LOCATION OF ALL ROADSIDE SIGNS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
7. REMOVAL OF EXISTING STRIPING AND PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY APPROVED GRINDING METHOD.
8. CROSSWALKS SHALL BE 12 FEET WIDE INCLUDING THE 12" SOLID PAVEMENT MARKINGS AND SHALL BE WHITE UNLESS OTHERWISE NOTED.
9. ALL SIGNING AND STRIPING WORK SHALL BE COORDINATED WITH THE ELECTRICAL WORK AS DIRECTED BY THE ENGINEER.
10. LANE WIDTHS ADJACENT TO CURBS ARE MEASURED TO THE FLOW LINE.
11. TRAFFIC SIGNS SHALL BE INSTALLED BEHIND THE SIDEWALK WHEN THE SIDEWALK IS IMMEDIATELY ADJACENT TO THE CURB. SIGNS SHALL BE INSTALLED BETWEEN THE CURB AND SIDEWALK WHEN THE SIDEWALK IS DETACHED. SIGNS IN PEDESTRIAN AREAS SHALL HAVE A CLEARANCE FROM THE GROUND OF AT LEAST SEVEN FEET. IF THIS CLEARANCE REQUIREMENT IS NOT SATISFIED AFTER THE INSTALLATION OF ADDITIONAL SIGN PANELS, CONTRACTOR SHALL INSTALL A NEW SIGN POST.
12. ALL ROADWAY SIGNS (REGULATORY, WARNING, GUIDE, SCHOOL ZONE AND OBJECT MARKERS) SHALL INCLUDE ASTM TYPE XI SHEETING. FOR ALL OTHER SIGNS, USE ASTM TYPE II SHEETING. FLUORESCENT YELLOW-GREEN SHALL NOT BE USED IN ANY SIGNS OTHER THAN SCHOOL RELATED SIGNAGE.
13. MOUNT SIGNS USING BANDING ON SIGNAL AND STREET LIGHT POLES WHERE FEASIBLE. SEE ELECTRICAL PLANS FOR POLE LOCATIONS.
14. CONTRACTOR SHALL VERIFY WITH THE ENGINEER THE EXACT STREET NAME AND STREET ADDRESS FOR PLACEMENT ON STREET NAME SIGNS PRIOR TO ORDERING SIGNS.
15. ALL SIGNS REGULATING PARKING SHALL BE DOUBLE SIDED AND SIDE MOUNTED, UNLESS SHOWN OTHERWISE.
16. AT NEWLY SIGNALIZED LOCATIONS, REMOVE EXISTING STOP SIGNS, STOP LEGENDS AND STANCHIONS AT THE TIME SIGNAL IS TURNED ON.
17. CONTRACTOR SHALL DELIVER ALL REMOVED ROADWAY SIGNS IN THE CITY OF SACRAMENTO TO THE CITY OF SACRAMENTO SOUTH AREA CORPORATION YARD AT 5730 24TH STREET, BLDG 10, 95822, PHONE (916) 808-4038.
18. CONTRACTOR SHALL DELIVER ALL REMOVED ROADWAY SIGNS IN THE CITY OF WEST SACRAMENTO TO THE CITY OF WEST SACRAMENTO AT XXX

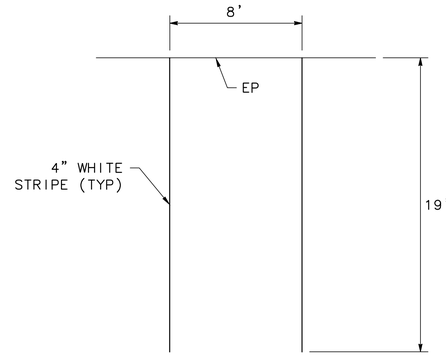
SIGNING AND STRIPING NOTES:

[1] 24" WHITE LIMIT LINE

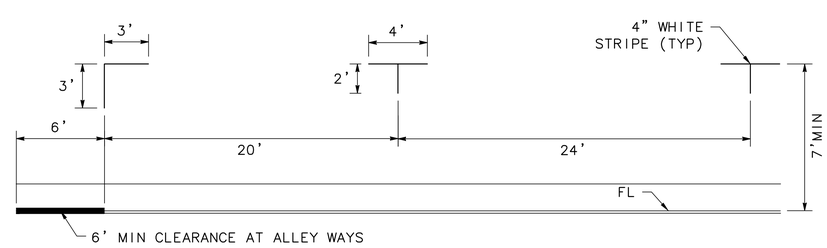
[2] 12" WHITE CROSS WALK / LIMIT LINE

LEGEND:

- REMOVE EXISTING ROADSIDE SIGN
- EXISTING ROADSIDE SIGN TO REMAIN
- INSTALL ROADSIDE SIGN
- RELOCATE ROADSIDE SIGN (FROM / TO)
- RESET ROADSIDE SIGN
- REPLACE OVERHEAD SIGN
- EXISTING ROADSIDE SIGN LOCATION
- ROADSIDE SIGN LOCATION (ONE-POST)
- SNS — STREET NAME SIGN
- MAS — MAST ARM MOUNTED SIGN
- BC/EC
- ANGLE POINT
- REMOVE EXISTING TRAFFIC STRIPING OR PAVEMENT MARKING
- (No.) — 2024 CALTRANS STANDARD PLANS
- L=XX' — L= LENGTH
- BIKE LANE PAVEMENT MARKING PER CA MUTCD FIGURE 9C-3(B) FOR WEST SACRAMENTO
- BIKE LANE PAVEMENT MARKING PER CA MUTCD FIGURE 9C-3(C) FOR SACRAMENTO
- TYPE I ARROW MARKING
- TYPE VI ARROW MARKING
- TYPE VII ARROW MARKING
- TYPE III ARROW MARKING
- (KEEP CLEAR) PAVEMENT MARKING
- STRIPING LIMIT

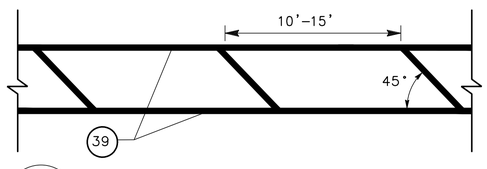


1 / SS-1 **DETAIL FOR PARKING STALLS**

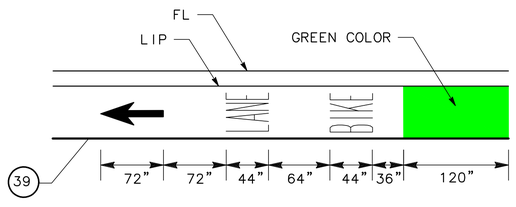


2 / SS-1 **CITY OF SACRAMENTO PARALLEL PARKING DETAIL**

NOTE: SOME PARKING STALLS MAY VARY IN SIZE AS DIRECTED BY THE ENGINEER AND SHOWN IN THESE PLANS.

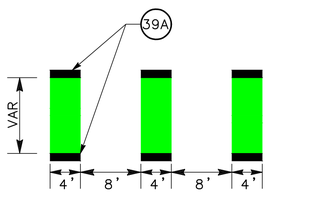


3 / SS-1 **FLEXIBLE DELINEATOR DETAIL**
NO SCALE

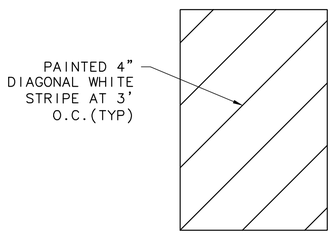


NOTE:
FOR DETAILS NOT SHOWN SEE CA MUTCD FIGURE 9C-3(C).

4 / SS-1 **CITY OF SACRAMENTO GREEN COLORED BIKE LANE DETAIL**
NO SCALE



5 / SS-1 **DASHED COLORED BIKE LANE**
NO SCALE



6 / SS-1 **NO PARKING ZONE STRIPING**

REGISTERED PROFESSIONAL ENGINEER — KIRA CASELLI — No. 86464 — Exp. 03/31/27 — CIVIL — STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-1

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BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

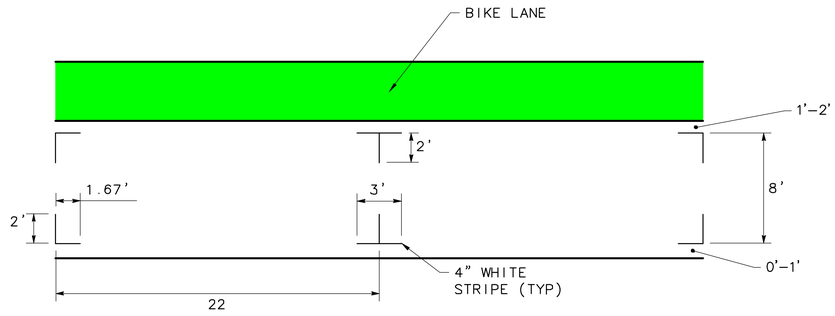
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

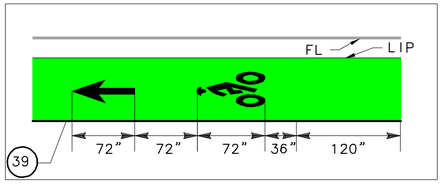
SHEET 110 — OF — 648

NOTE: SEE SS-19 FOR CURVE DATA



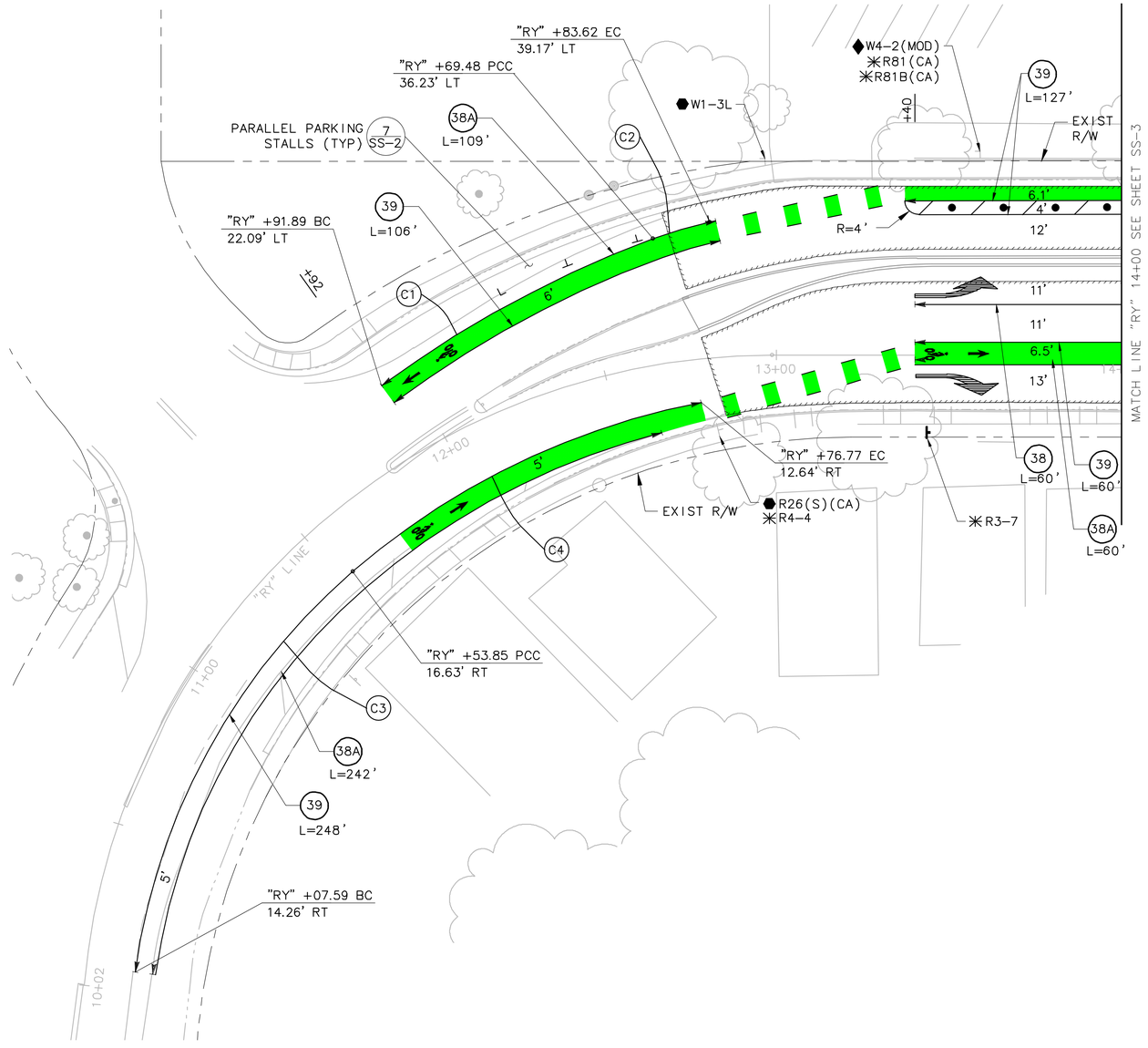
7 / SS-2 **CITY OF WEST SACRAMENTO**
PARALLEL PARKING DETAIL

NOTE: SOME PARKING STALLS MAY VARY IN SIZE AS DIRECTED BY THE ENGINEER AND SHOWN IN THESE PLANS.



NOTE:
FOR DETAILS NOT SHOWN SEE CA MUTCD FIGURE 9C-3(B).

8 / SS-2 **CITY OF WEST SACRAMENTO GREEN COLORED BIKE LANE DETAIL**
NO SCALE



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-2

REVISIONS NO.	DESCRIPTION	DATE	BY

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FIELD BOOK
SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

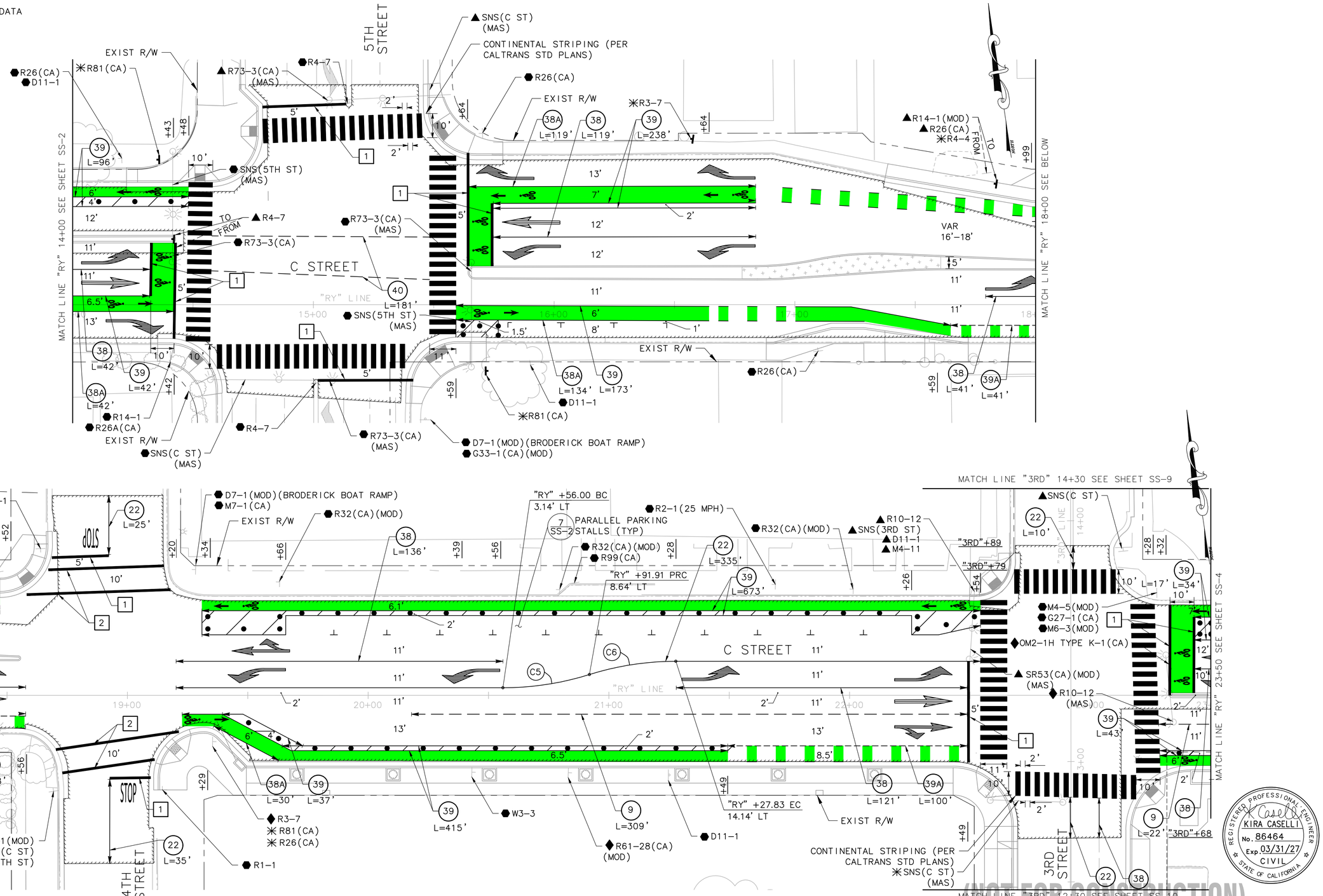
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 111 — OF — 648

NOTE: SEE SS-19 FOR CURVE DATA



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SS-3

REVISIONS NO.	DESCRIPTION	DATE	BY

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FIELD BOOK

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
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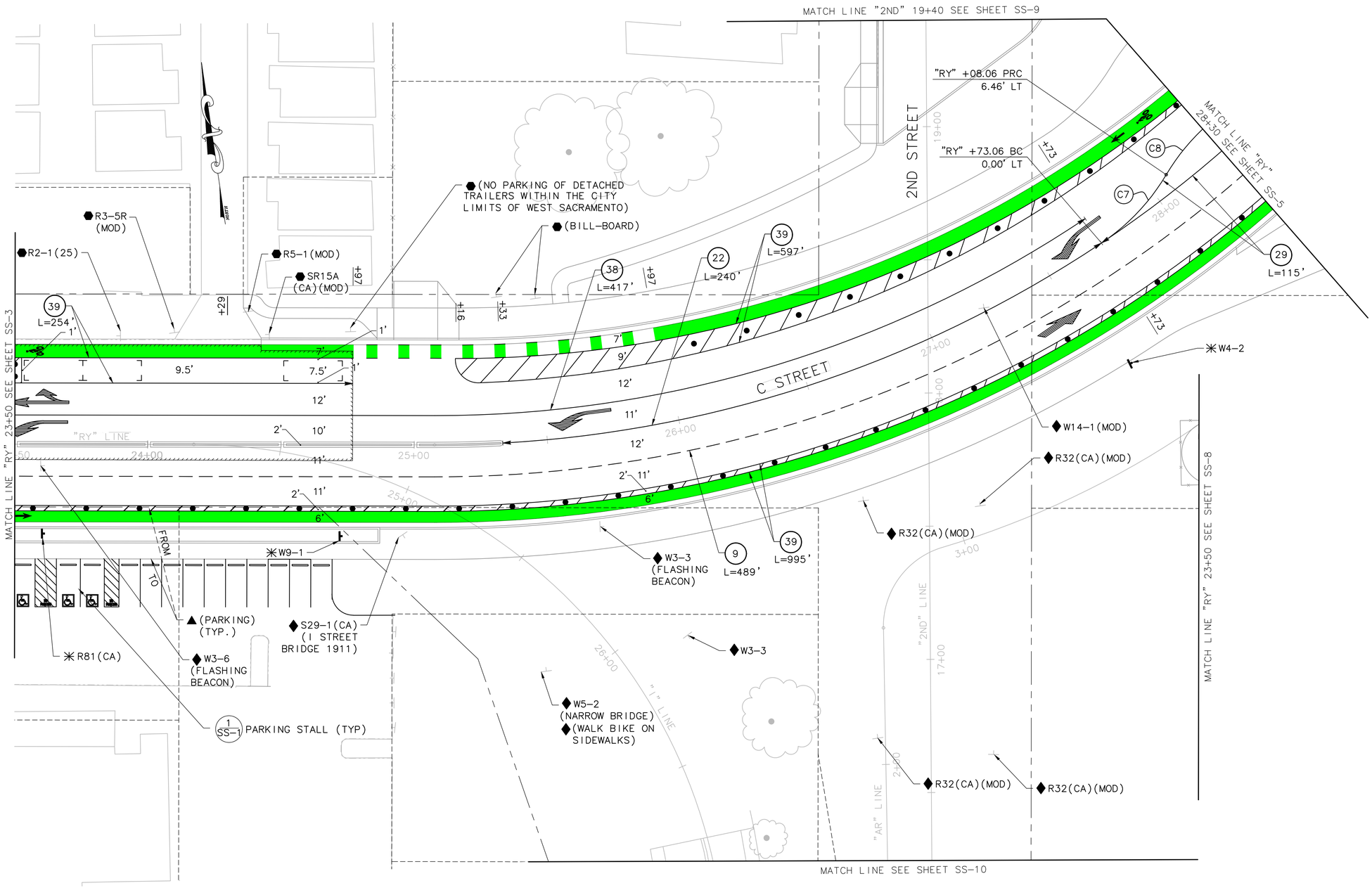
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 112 — OF — 648

NOTE: SEE SS-19 FOR CURVE DATA



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-4

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BENCH MARK ELEV. 37.81 FT
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FIELD BOOK

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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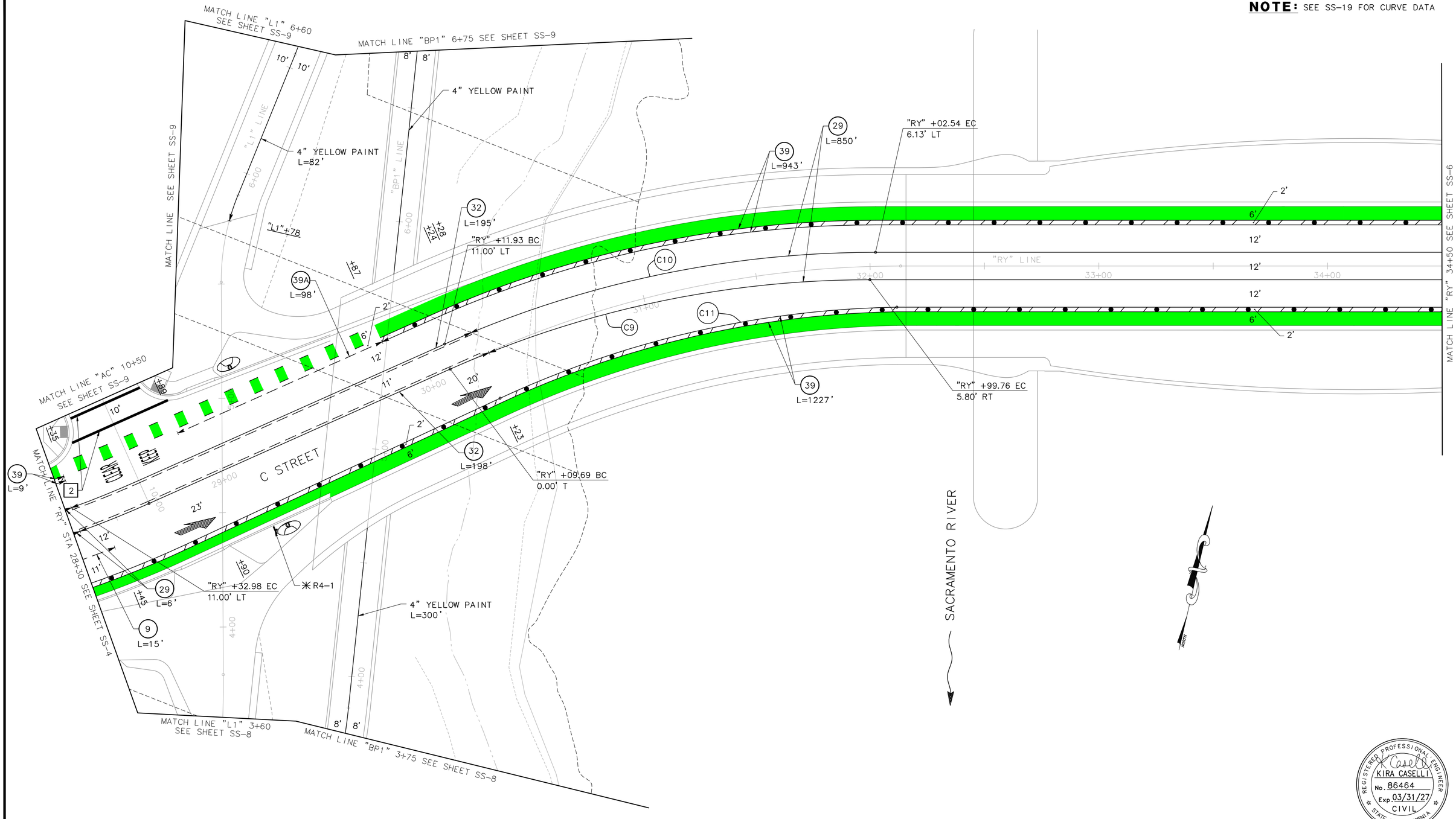
T15136000

SHEET 113 — OF — 648

NOTE: SEE SS-19 FOR CURVE DATA



(NOT FOR CONSTRUCTION)

SS-5

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

REVISIONS			
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FIELD BOOK

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

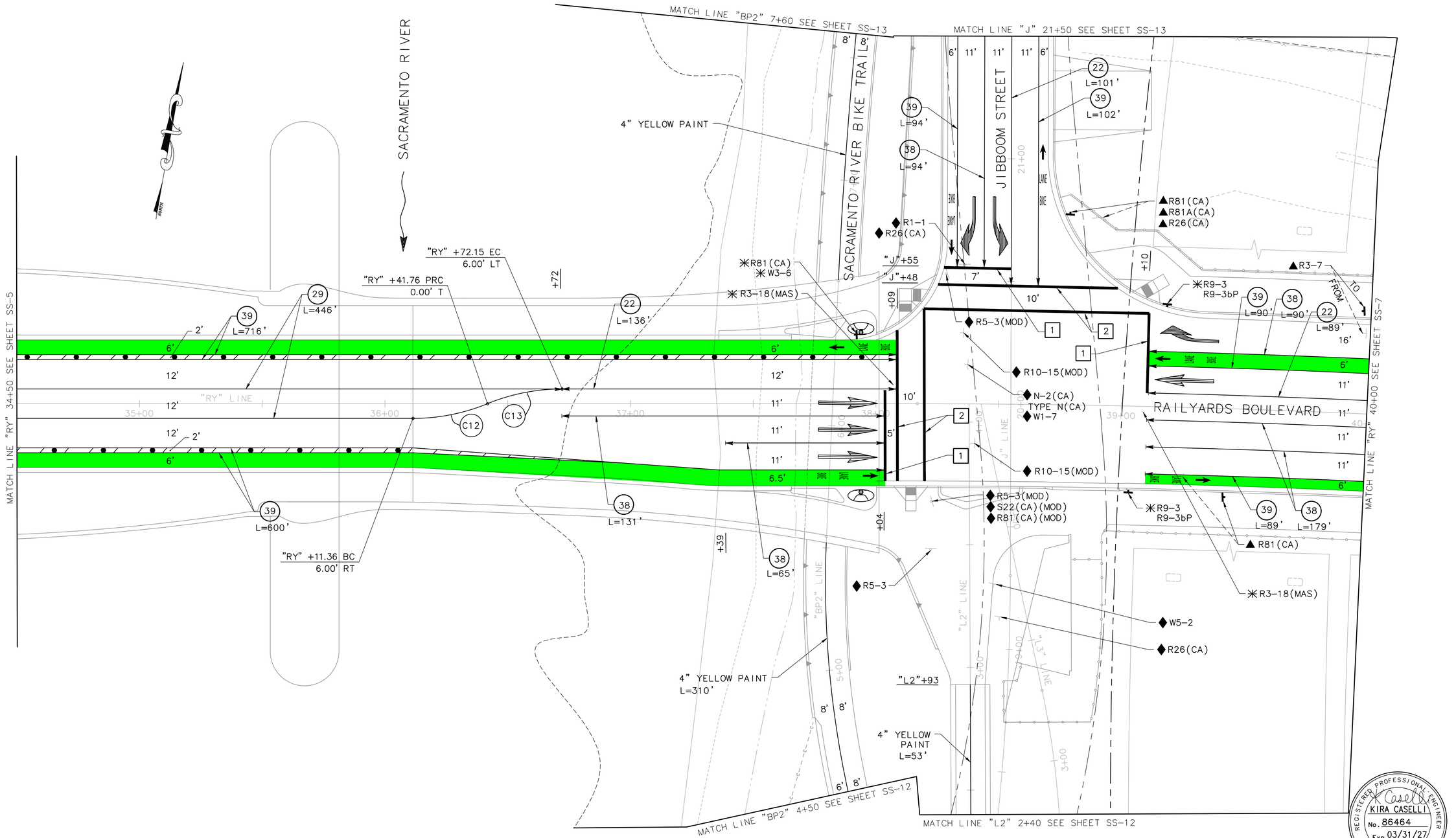
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 114 — OF — 648

NOTE: SEE SS-19 FOR CURVE DATA



(NOT FOR CONSTRUCTION)

SS-6

REVISIONS NO.	DESCRIPTION	DATE	BY

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FIELD BOOK

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HORIZ. 1"=20'
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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

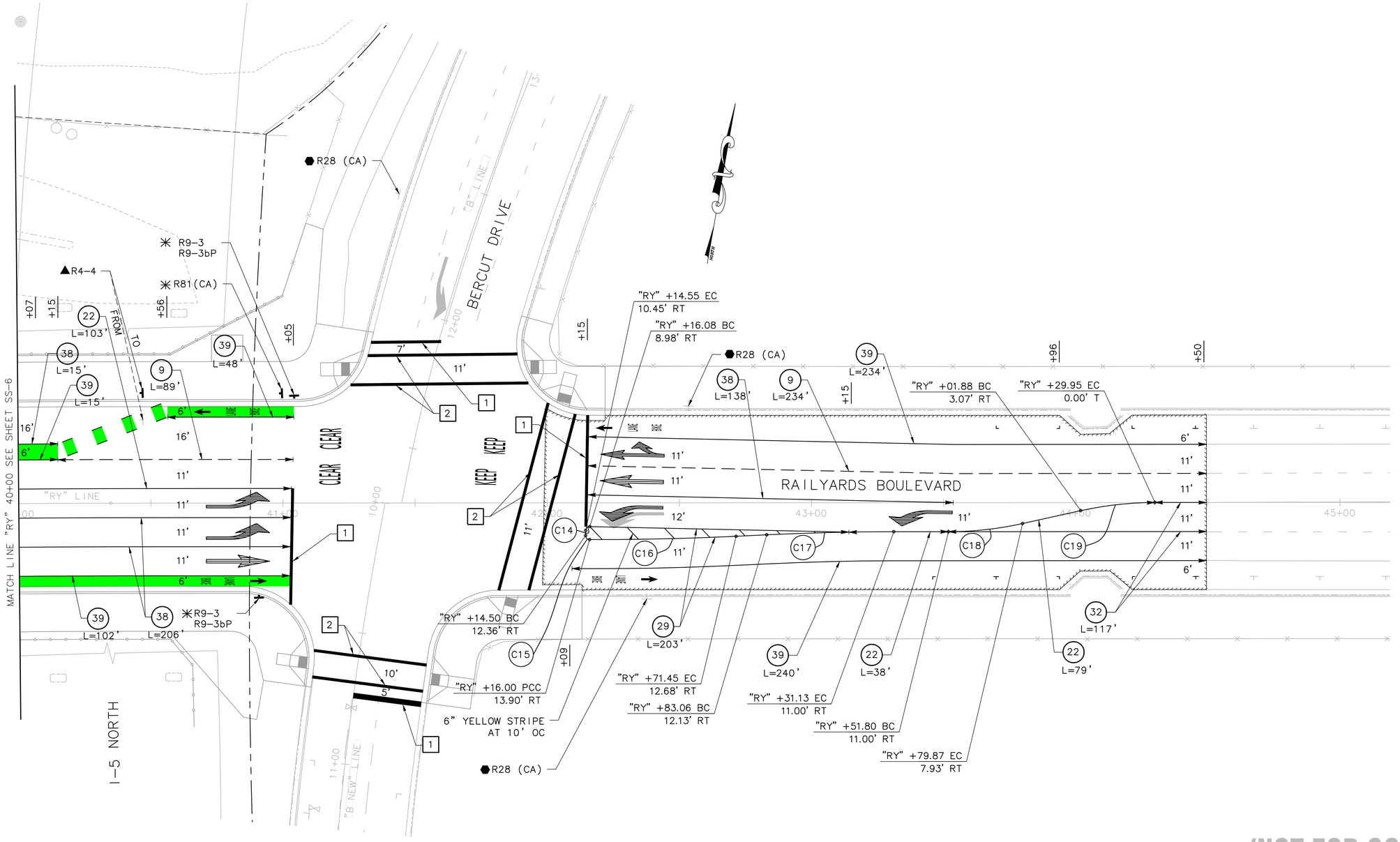
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 115 OF 648

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

NOTE: SEE SS-19 FOR CURVE DATA



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-7

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

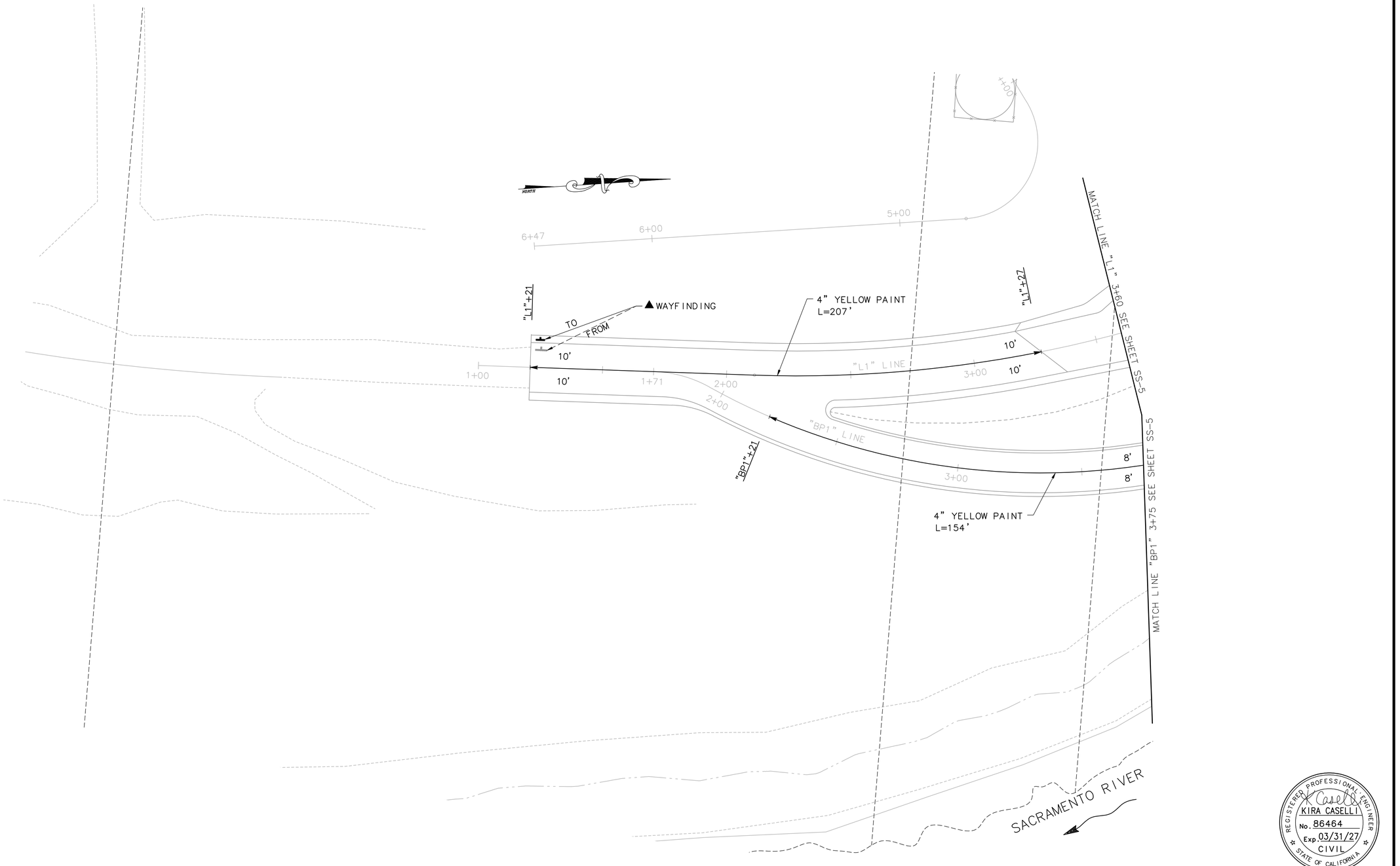
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO
SIGNING AND STRIPING PLANS

T15136000

SHEET 116 — OF — 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-8

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

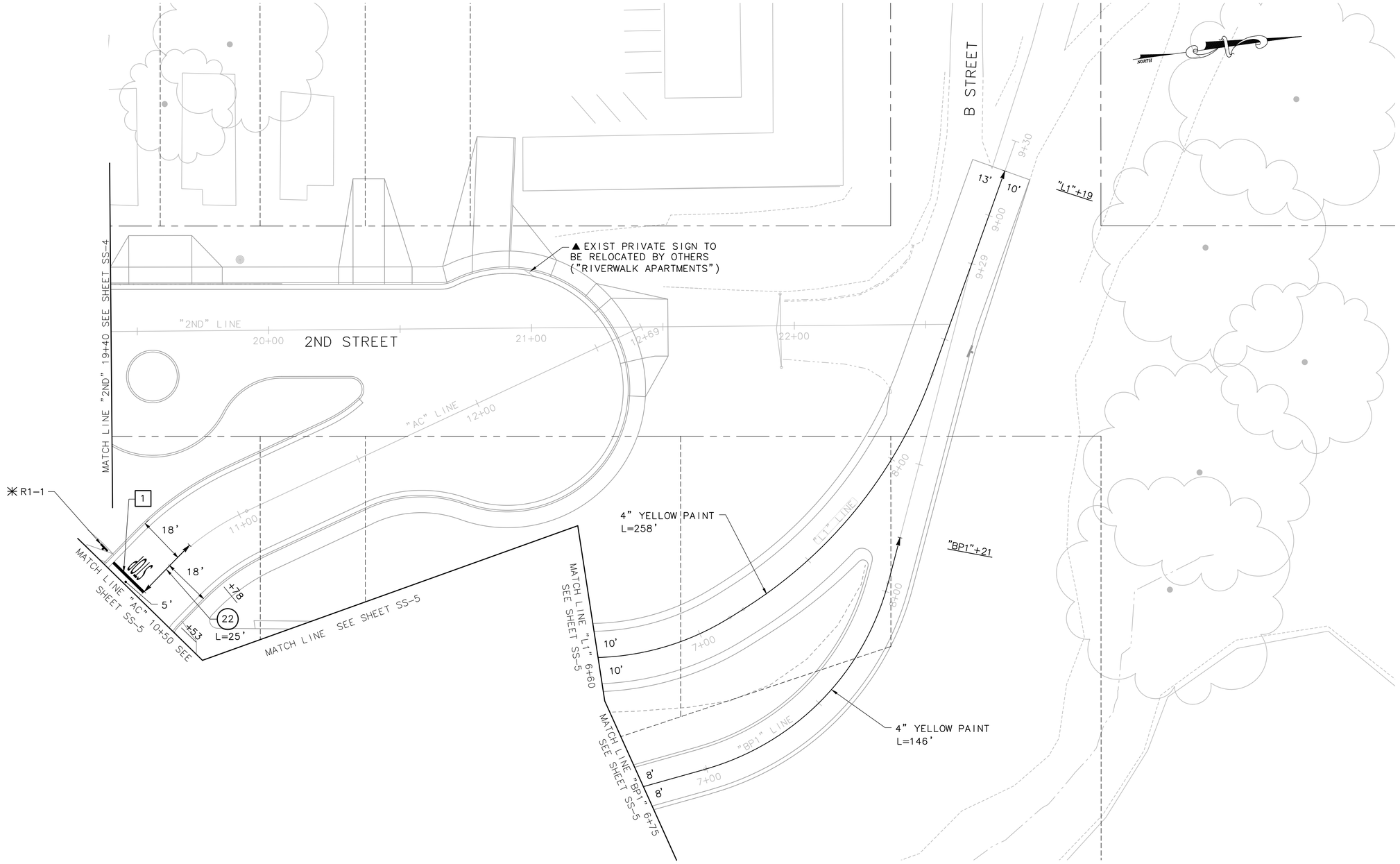
DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
WEST SACRAMENTO
SIGNING AND STRIPING PLANS

T15136000

SHEET 117 — OF — 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-9

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 118 OF 648

MATCH LINE "3RD" 11+60 SEE SHEET SS-3

MATCH LINE "2ND" 16+25 SEE SHEET SS-4

3RD STREET

"3RD" LINE

2ND STREET

"2ND" LINE

"C" LINE

"PL2" LINE

R26(CA)

R1-1

R32(CA)(MOD)

W14-1

(RIDESHARE INFO CALL 1-800 COMMUTE)

PARKING STALL (TYP) 1 SS-1

46'

(MOD)

W1-1

W3-6

W16-5P(MOD)

W13-1P(30 MPH)

W1-4R

MATCH LINE "C" 30+00 SEE LEFT

(NOT FOR CONSTRUCTION)

SS-10

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

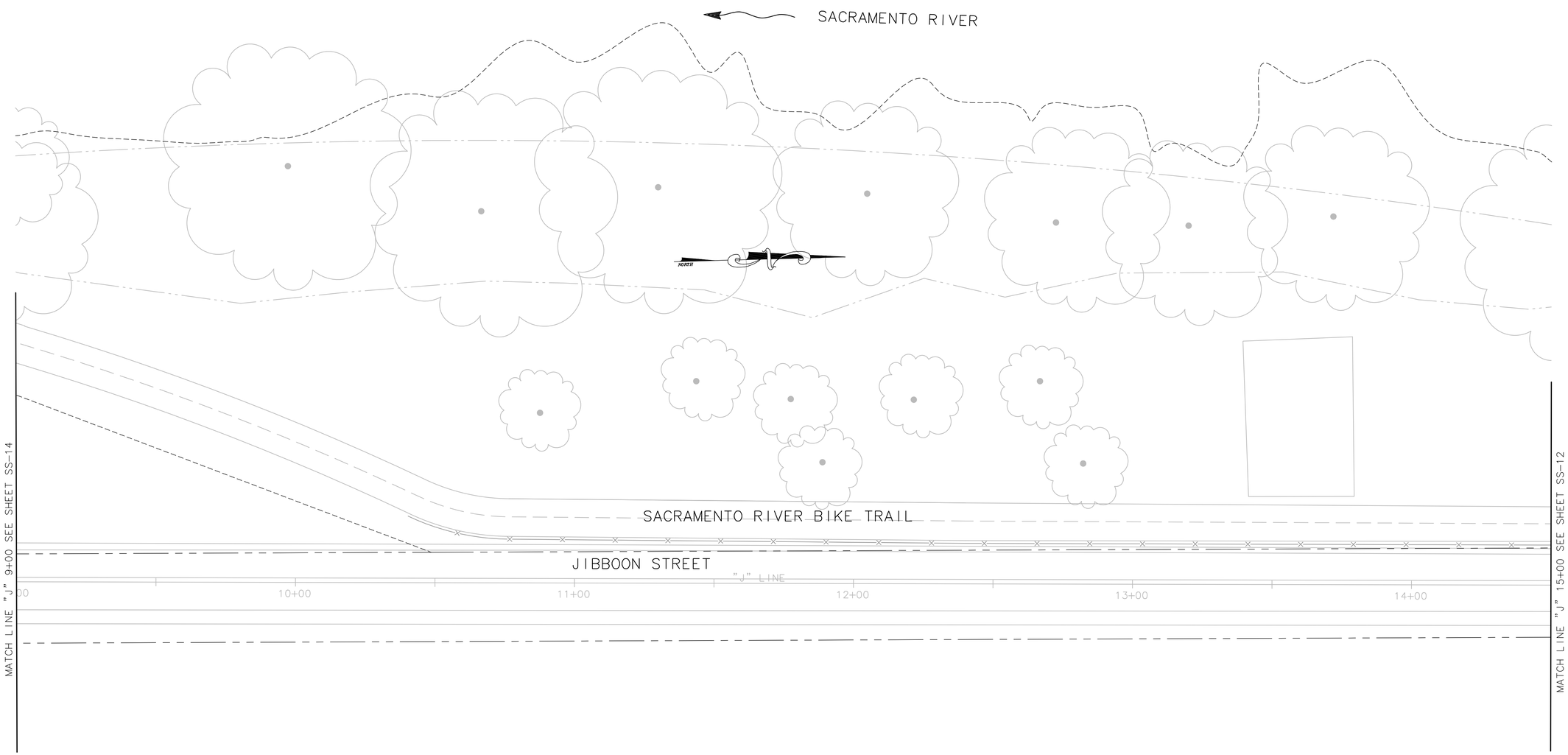
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 119 — OF — 648



KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-11

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

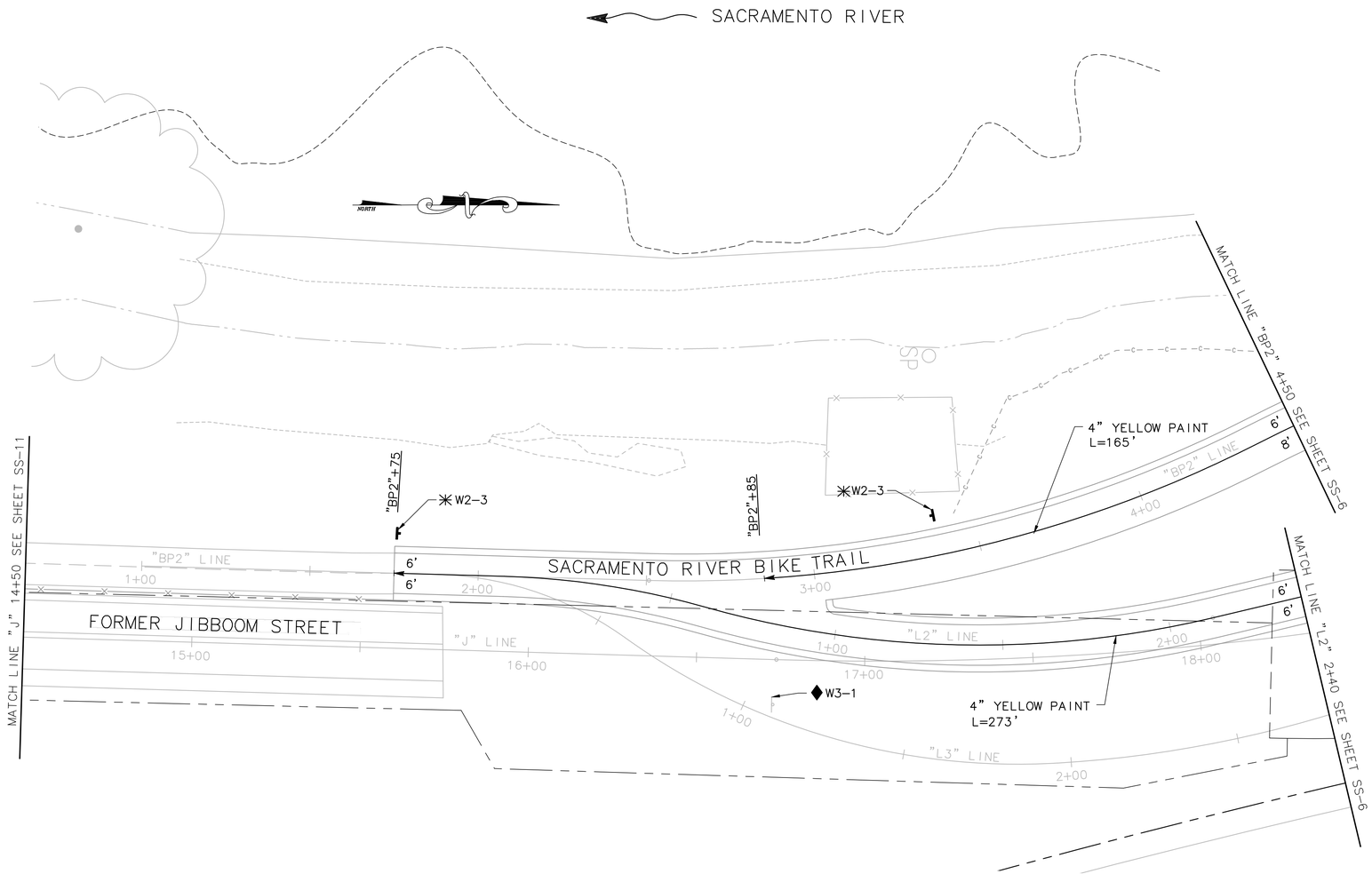
CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO
SIGNING AND STRIPING PLANS

T15136000

SHEET 120 OF 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-12

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

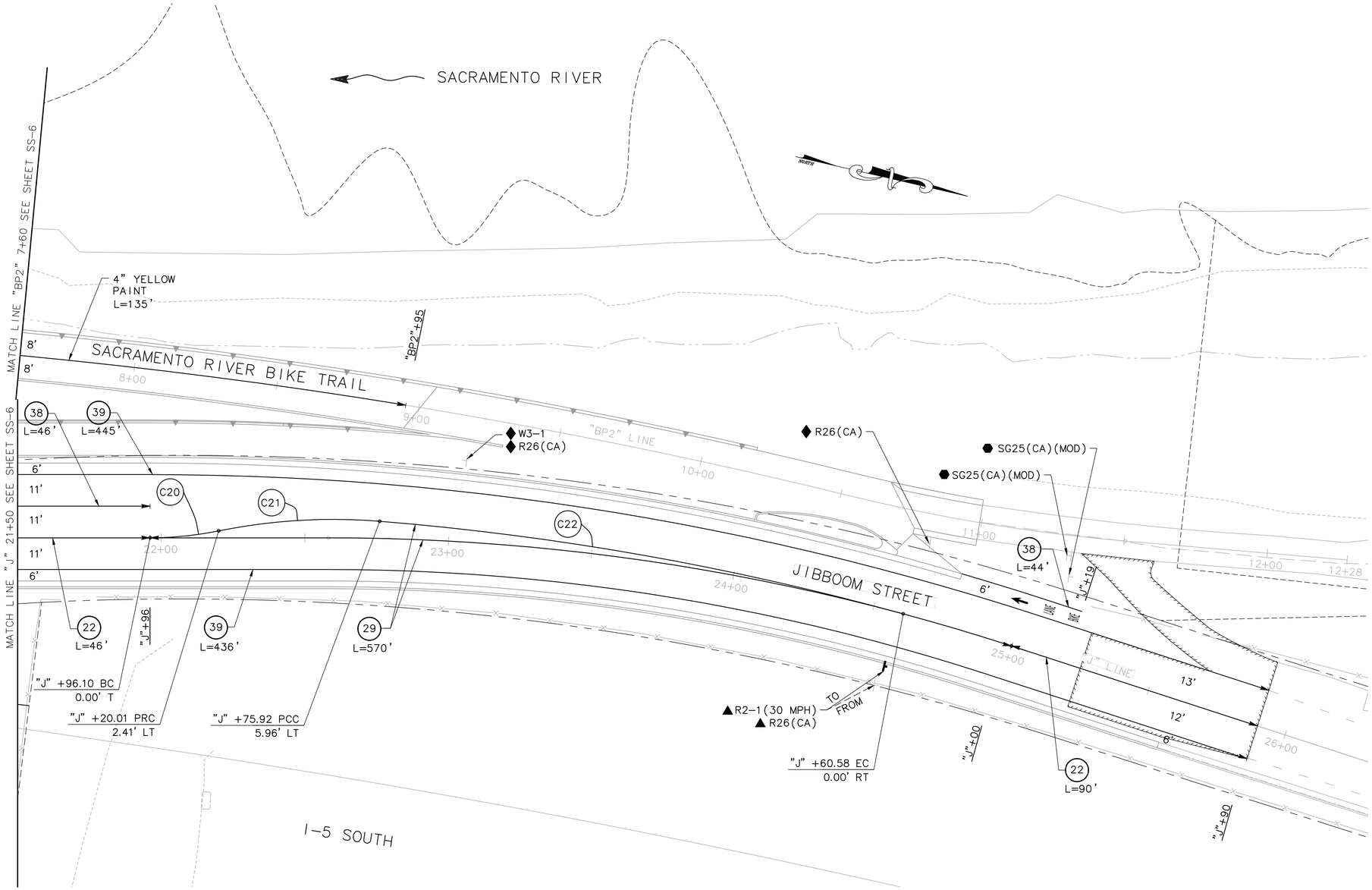
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO
SIGNING AND STRIPING PLANS

T15136000

SHEET 121 OF 648

NOTE: SEE SS-19 FOR CURVE DATA



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-13

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 122 OF 648

MATCH LINE SEE SHEET "J" 9+00 SS-11

JIBBOON STREET

UNION PACIFIC RAILROAD

"J" LINE

"I" LINE

I STREET BRIDGE

SACRAMENTO RIVER

SACRAMENTO RIVER BIKE TRAIL

◆G1-1(CA)
SACRAMENTO(L)
DAVIS (14R)
WOODLAND (19R)

◆R5-1
◆R5-1A

◆G94-1(CA)(MOD)
◆M6-1(MOD)

TO WEST SACRAMENTO

◆SNS(JIBBOOM ST)

◆R3-4

◆R48(CA)(MOD)

TO J STREET

MATCH LINE SEE SHEET SS-15

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-14

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

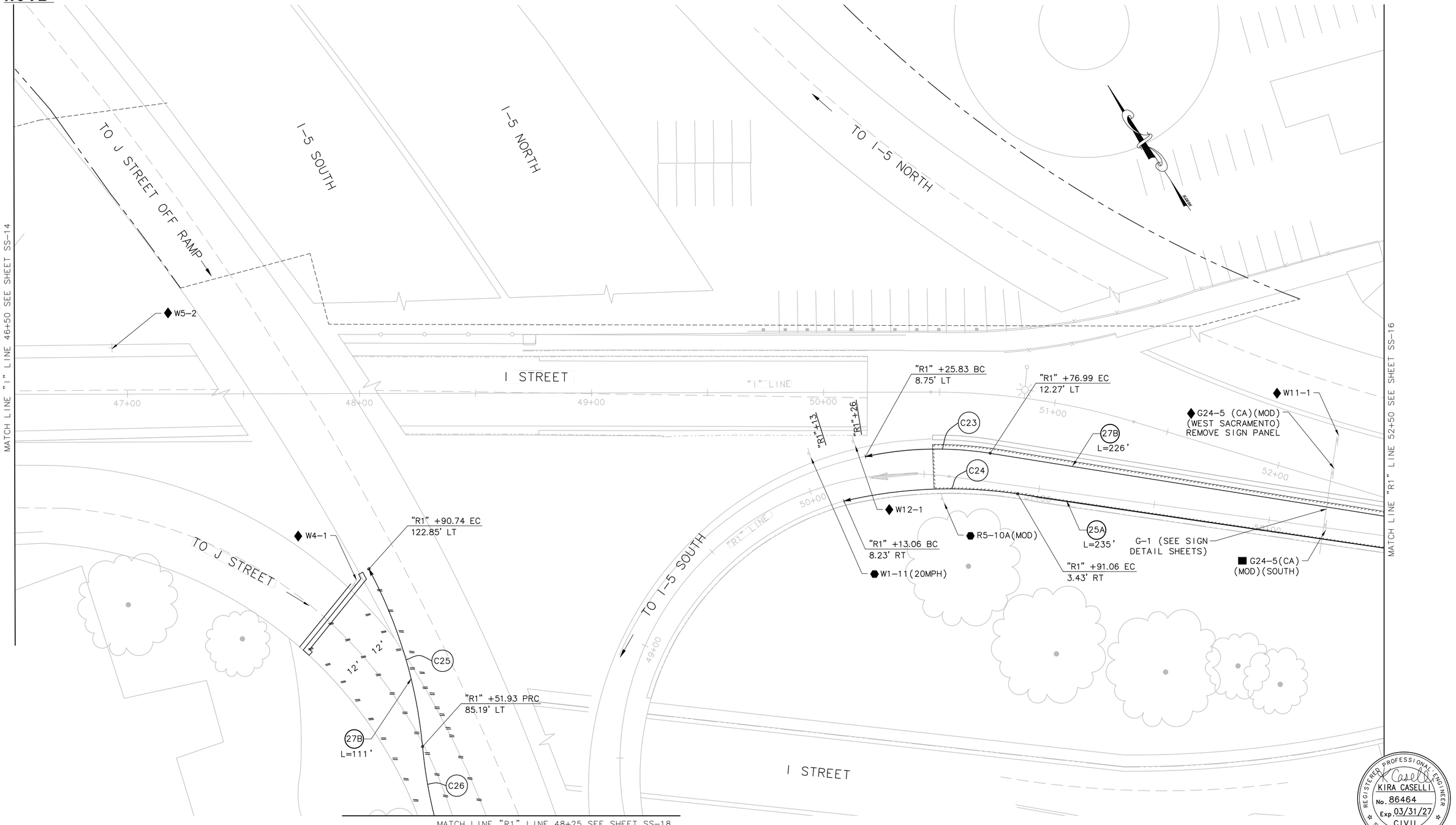
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 123 OF 648

NOTE: SEE SS-19 FOR CURVE DATA



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-15

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

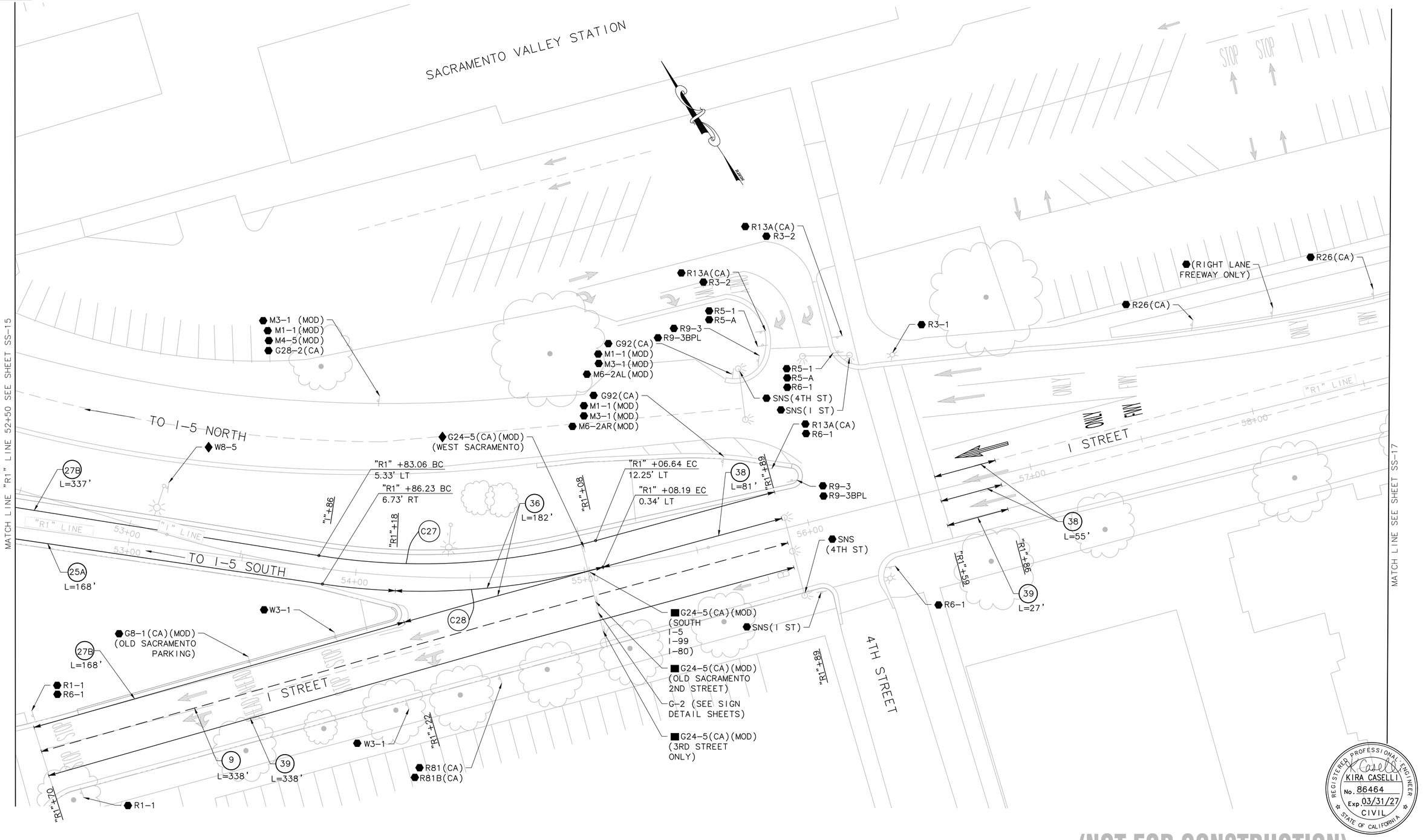
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 124 OF 648

NOTE: SEE SS-19 FOR CURVE DATA



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-16

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

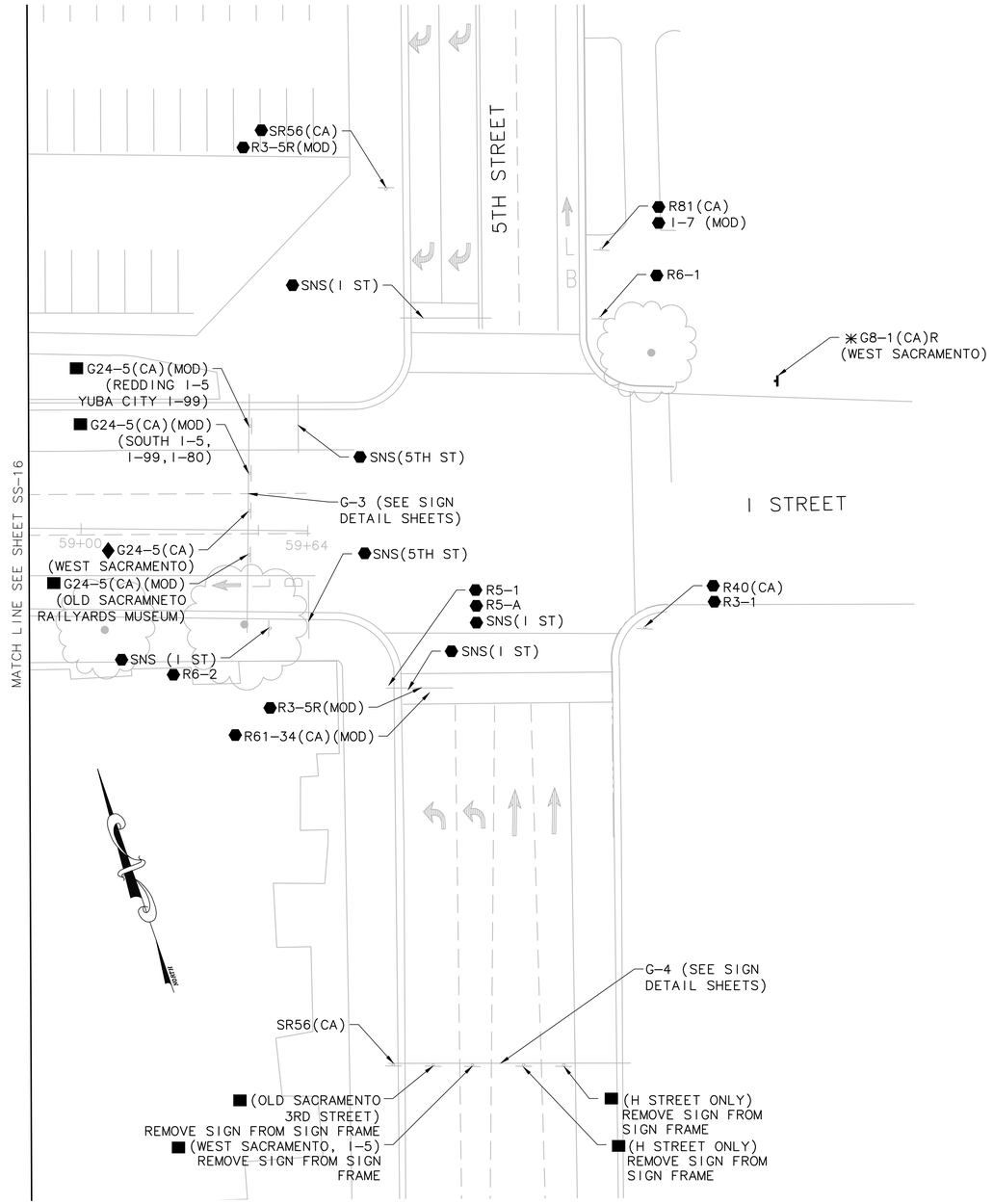
DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 125 OF 648



REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-17

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

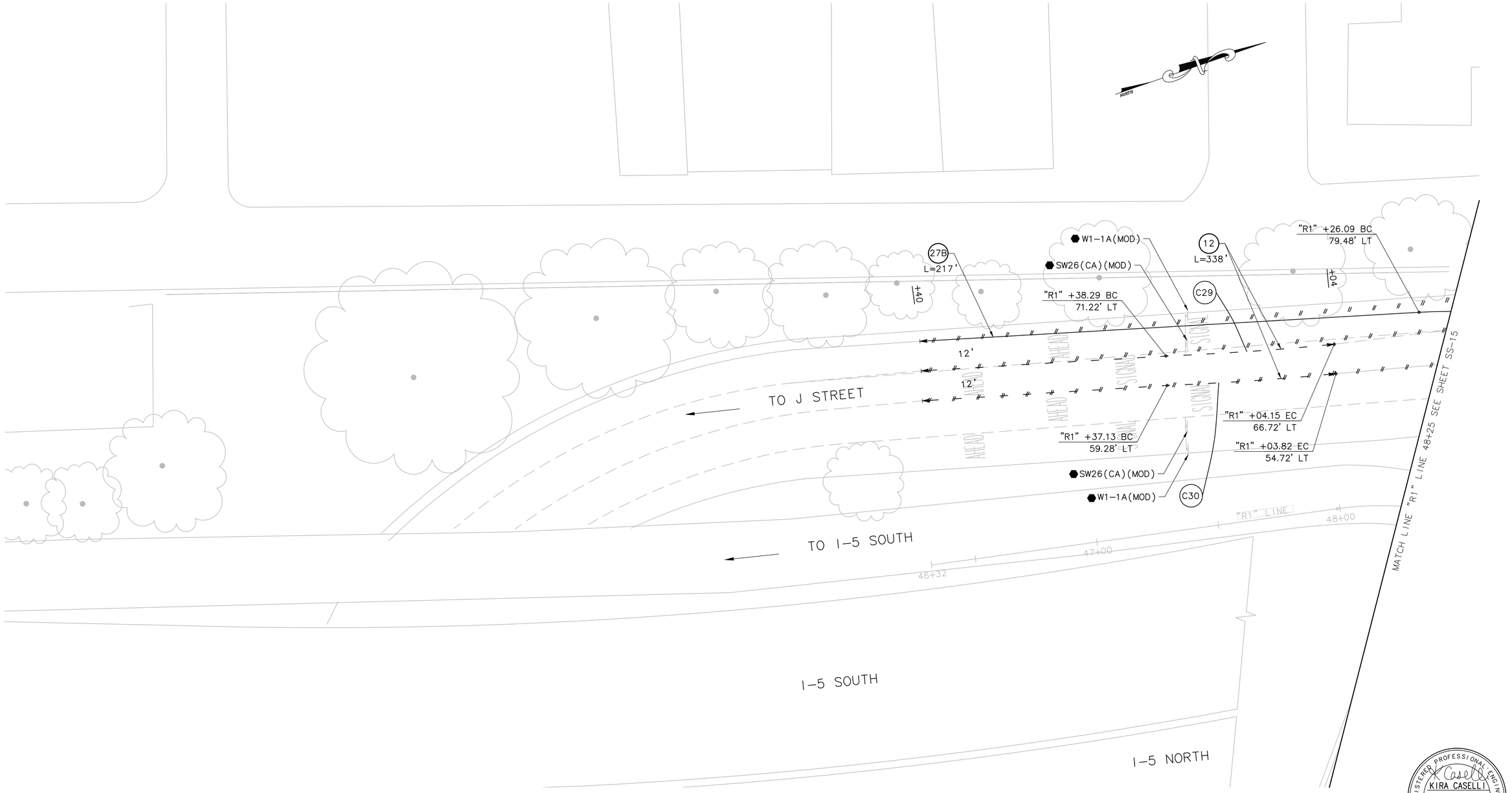
MARK THOMAS

UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 126 — OF — 648



(NOT FOR CONSTRUCTION)

SS-18

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. 1"=20'

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO SIGNING AND STRIPING PLANS

T15136000

SHEET 127 OF 648

STRIPING CURVE TABLE					
CURVE No.	RADIUS	DELTA	TANGENT	LENGTH	SHT
C1	319.00'	16°06'51"	45.16'	89.72'	SS-2
C2	120.00'	8°09'18"	8.55'	17.08'	SS-2
C3	187.00'	41°19'59"	70.54'	134.90'	SS-2
C4	217.00'	29°57'57"	58.08'	113.49'	SS-2
C5	120.00'	17°24'51"	18.38'	36.47'	SS-3
C6	120.00'	17°24'51"	18.38'	36.47'	SS-3
C7	80.00'	25°30'58"	18.11'	35.63'	SS-4
C8	80.00'	17°52'12"	12.58'	24.95'	SS-4
C9	450.00'	24°03'37"	95.90'	188.97'	SS-5
C10	462.00'	24°03'37"	98.45'	194.01'	SS-5
C11	427.00'	24°03'29"	90.99'	179.29'	SS-5
C12	80.00'	22°19'54"	15.79'	31.18'	SS-6
C13	80.00'	22°19'54"	15.79'	31.18'	SS-6
C14	1.50'	90°00'00"	1.50'	2.36'	SS-7
C15	1.50'	91°03'36"	1.53'	2.38'	SS-7
C16	1090.00'	2°54'56"	27.74'	55.47'	SS-7
C17	1001.00'	2°45'10"	24.05'	48.09'	SS-7
C18	130.00'	12°28'11"	14.20'	28.29'	SS-7
C19	130.00'	12°28'10"	14.20'	28.29'	SS-7
C20	120.00'	11°29'27"	12.07'	24.07'	SS-13
C21	200.00'	16°08'13"	28.35'	56.33'	SS-13
C22	987.00'	10°45'25"	92.92'	185.30'	SS-13
C23	146.00'	21°14'43"	27.38'	54.14'	SS-15
C24	200.00'	21°36'01"	38.15'	75.40'	SS-15
C25	200.00'	22°16'47"	39.38'	77.77'	SS-15
C26	200.00'	12°23'18"	21.71'	43.24'	SS-15
C27	288.00'	24°14'55"	61.87'	121.89'	SS-16
C28	300.00'	23°35'24"	62.65'	123.52'	SS-16
C29	1176.00'	3°21'01"	34.39'	68.76'	SS-18
C30	1188.00'	3°19'34"	34.49'	68.97'	SS-18

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SS-19

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NONE
VERT. NONE

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

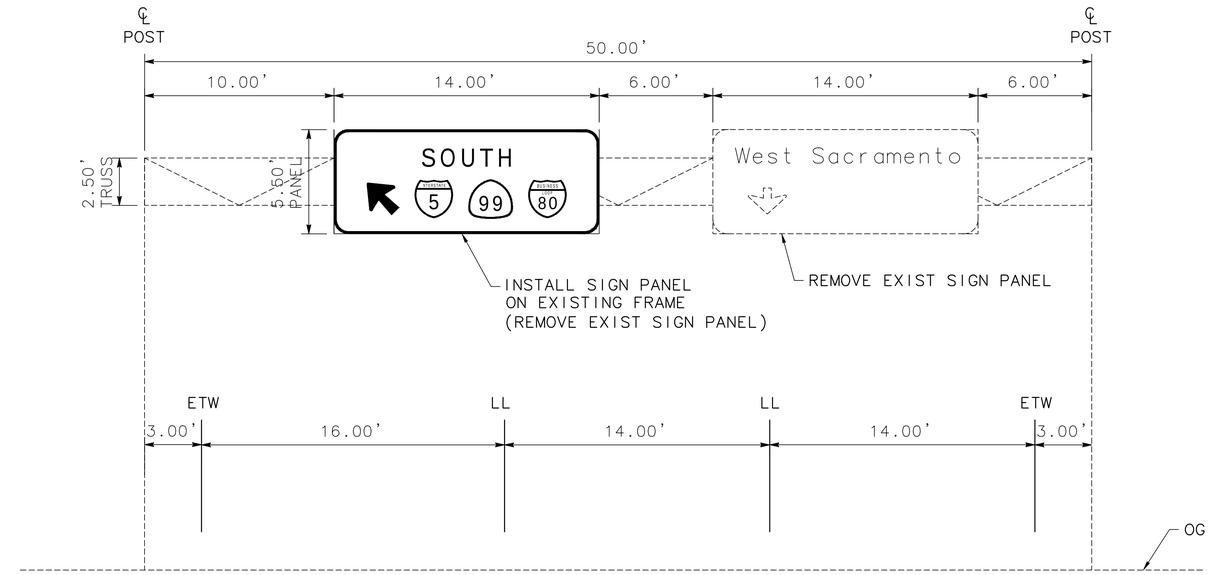
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

STRIPING CURVE DATA

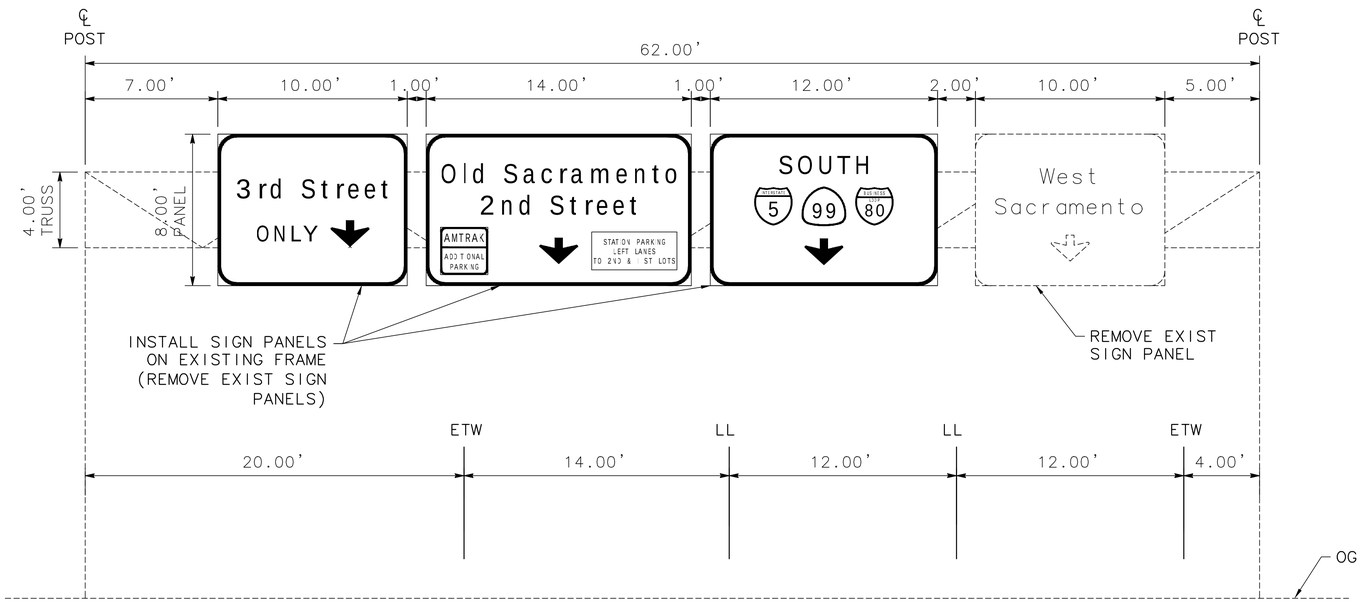
T15136000

SHEET 128 OF 648



G-1

"R1" 52+23.66



G-2

"R1" 55+01.46

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SD-1

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

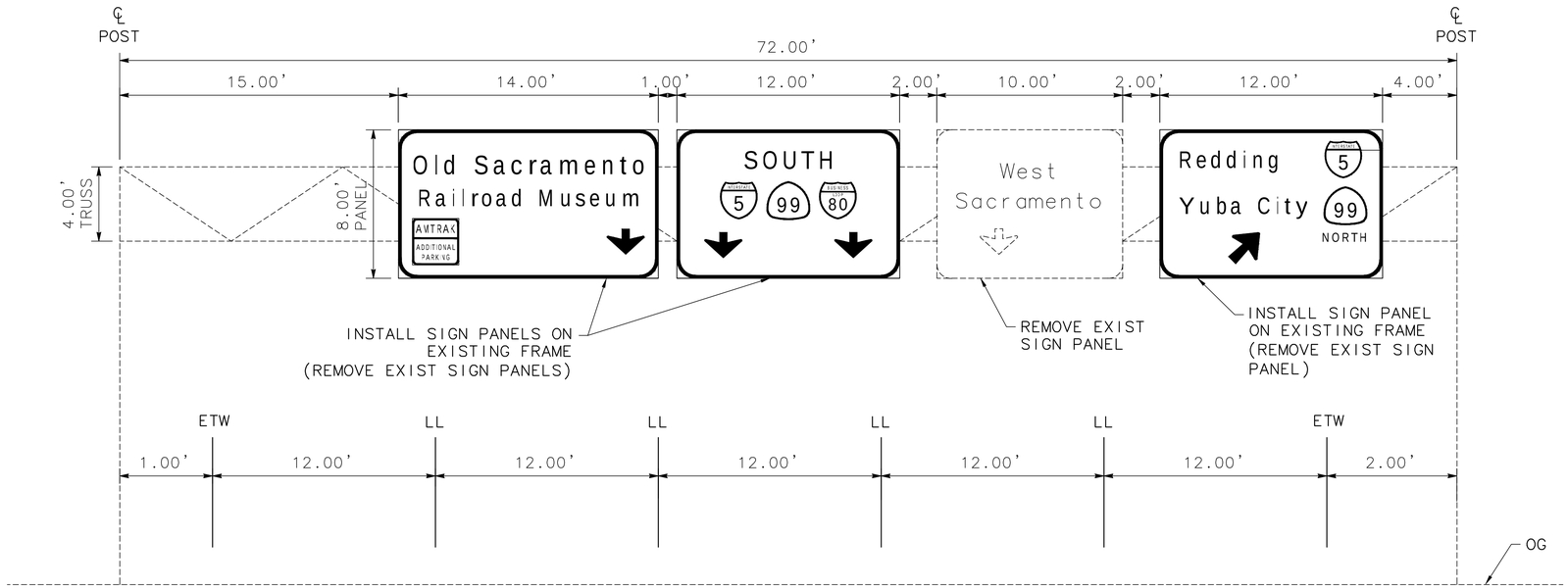
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

SIGN DETAILS

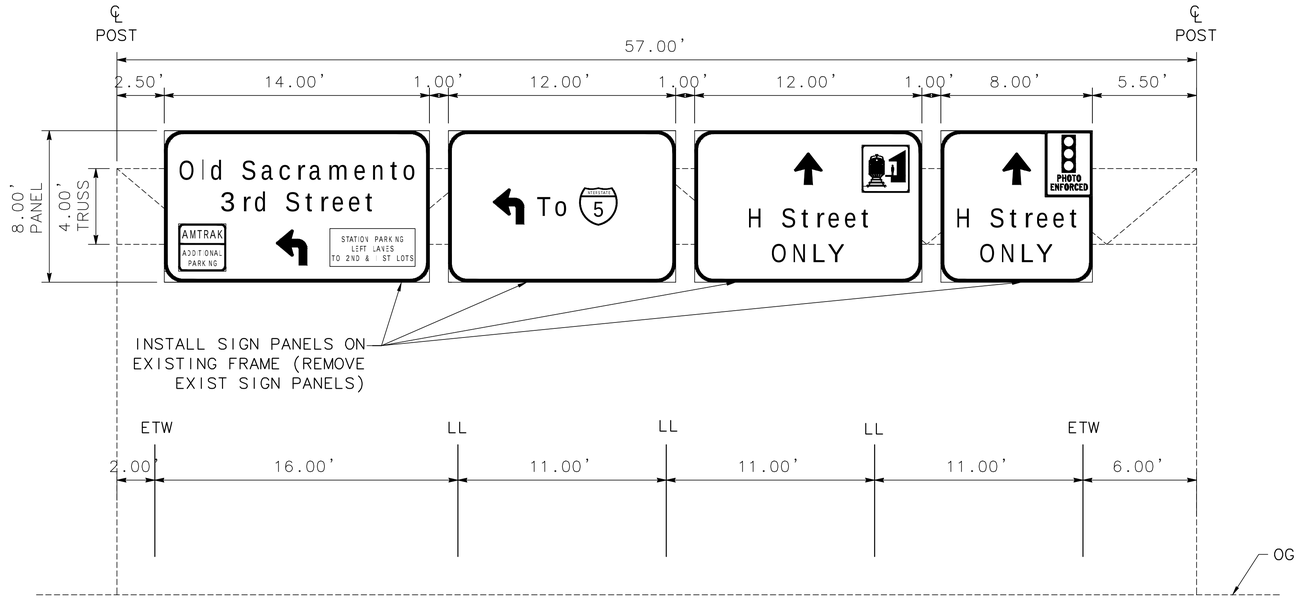
T15136000

SHEET 129 — OF — 648



G-3

"R1" 59+45.84



G-4

5TH STREET

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SD-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

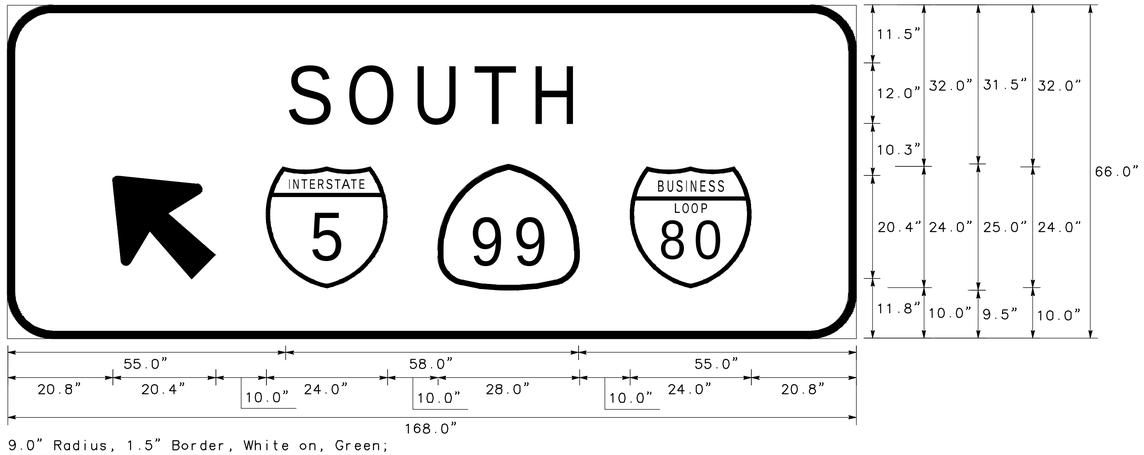
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

SIGN DETAILS

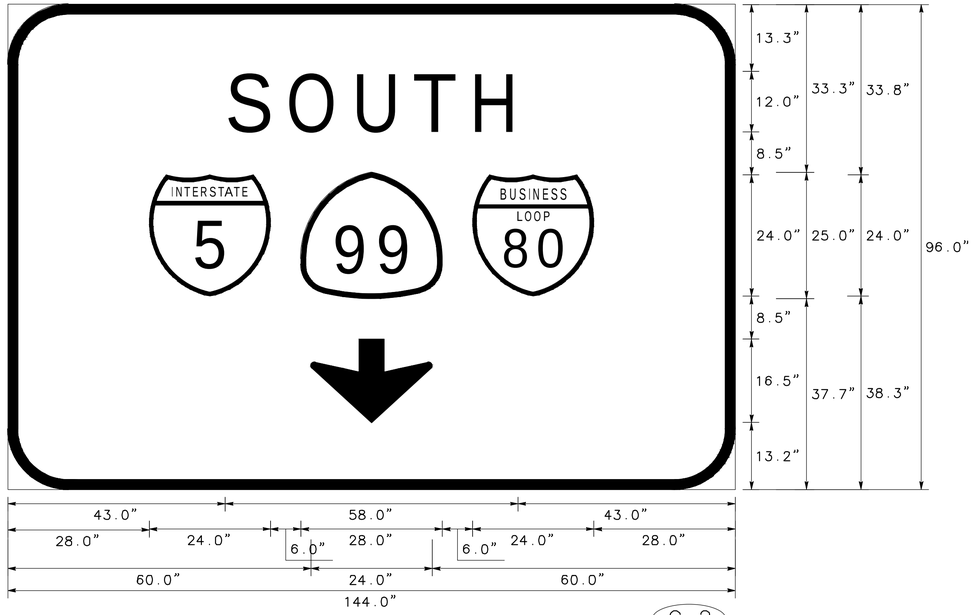
T15136000

SHEET 130 OF 648



9.0" Radius, 1.5" Border, White on, Green;
"SOUTH", E; Arrow 16CAP-1L – 25.0" 135°;

G-1

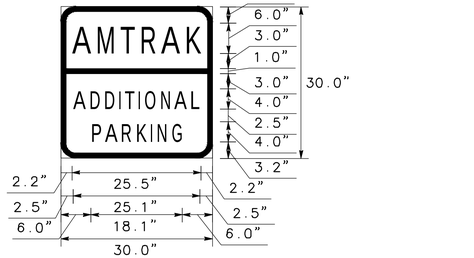


12.0" Radius, 2.0" Border, White on, Green;
"SOUTH", E; Down Arrow 16.0" 270°;

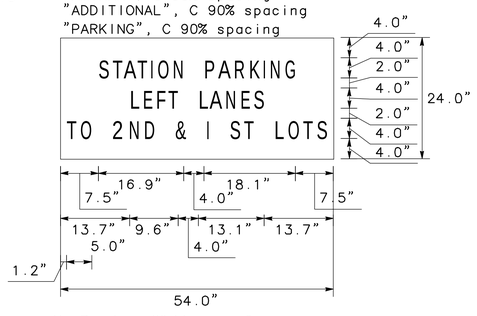
G-2

12.0" Radius, 2.0" Border, White on, Green;
"Old Sacramento", E Mod; "2nd Street", E Mod; Down Arrow 16.0" 270°;

G-2



3.0" Radius, 1.0" Border, White on, Green;
"AMTRAK", C 90% spacing
"ADDITIONAL", C 90% spacing
"PARKING", C 90% spacing



No Border, White on, Orange;
"STATION PARKING" Black, C 90% spacing;
"LEFT LANES" Black, C 90% spacing;
"TO 2ND & I ST LOTS" Black, C;

9.0" Radius, 1.5" Border, White on, Green;
"SOUTH", E; Arrow 16CAP-1L – 25.0" 135°;

G-2

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SD-3

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

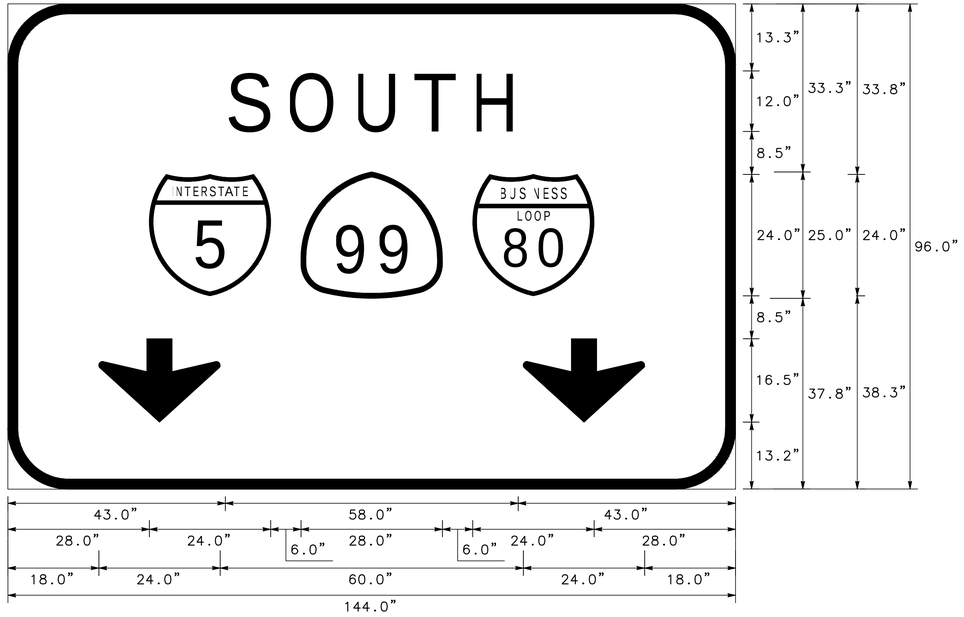
SIGN DETAILS

T15136000

SHEET 131 OF 648

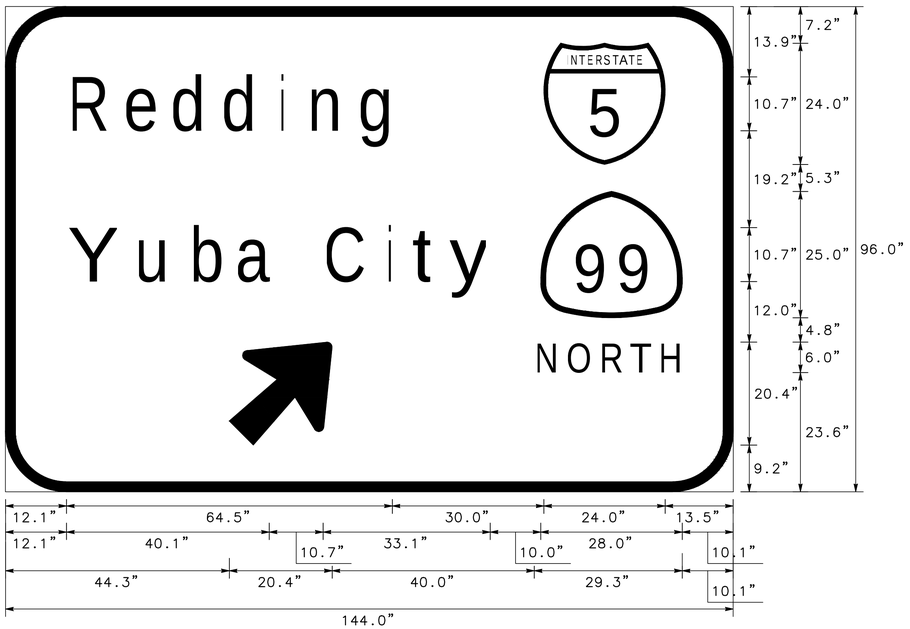
12.0" Radius, 2.0" Border, White on, Green;
"SOUTH", E; Down Arrow 16.0" 270°;

G-3



12.0" Radius, 2.0" Border, White on, Green;
"SOUTH", E; Down Arrow 16.0" 270°; Down Arrow 16.0" 270°

G-3



12.0" Radius, 2.0" Border, White on, Green;
"Redding", E Mod; "Yuba City", E Mod; Arrow 16CAP-1L – 25.0" 45°; "NORTH", E;

G-3

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SD-4

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE
DATE NOVEMBER 2025

DESIGNED BY: K. CASELLI
R.C.E. 86464 DATE NOVEMBER 2025

CHECKED BY: Z. SIVIGLIA
R.C.E. 73128 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

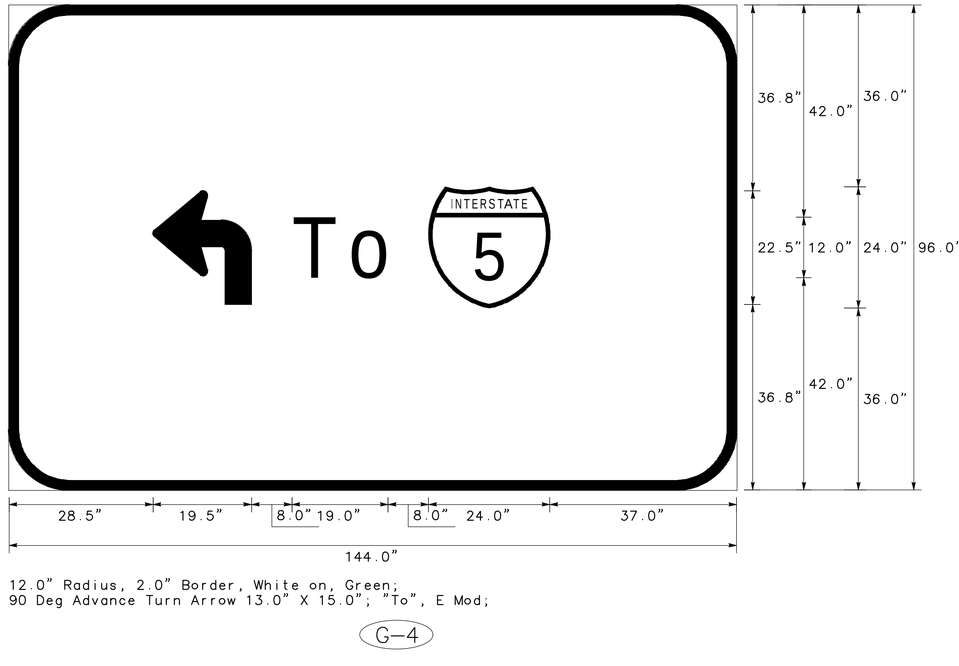
SIGN DETAILS

T15136000

SHEET 132 — OF — 648

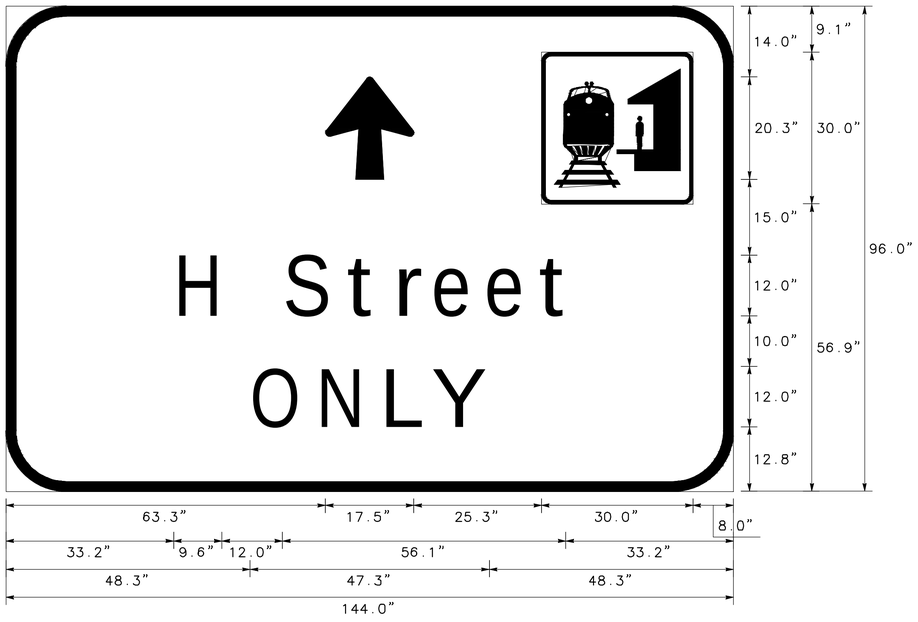
12.0" Radius, 2.0" Border, White on, Green;
"Old Sacramento", E Mod; "3rd Street", E Mod; 90 Deg Advance Turn Arrow 19.5" X 22.5";

G-4



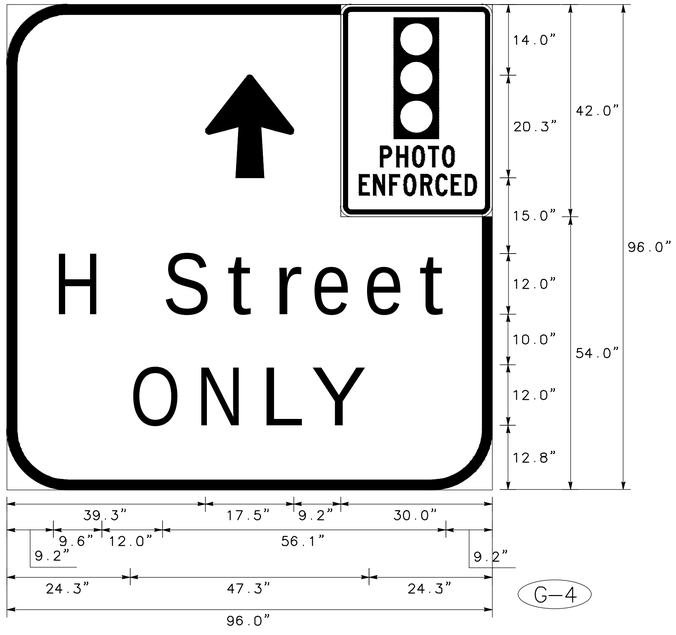
12.0" Radius, 2.0" Border, White on, Green;
90 Deg Advance Turn Arrow 13.0" X 15.0"; "To", E Mod;

G-4



12.0" Radius, 2.0" Border, White on, Green;
Arrow 12CAP-1L - 20.3" 90°; "H" Street", E Mod; "ONLY", E;

G-4



12.0" Radius, 2.0" Border, White on, Green;
Arrow 12CAP-1L - 20.3" 90°; "H" Street", E Mod; "ONLY", E;

G-4

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

SD-5

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. NTS
VERT. NTS

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M.HAQUE DATE NOVEMBER 2025
DESIGNED BY: K. CASELLI R.C.E. 86464 DATE NOVEMBER 2025
CHECKED BY: Z. SIVIGLIA R.C.E. 73128 DATE NOVEMBER 2025

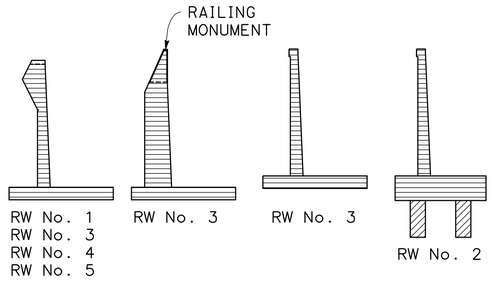
MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

SIGN DETAILS

T15136000

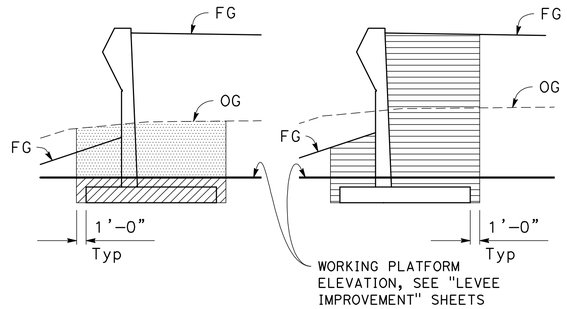
SHEET 133 OF 648



STRUCTURAL CONCRETE, RETAINING WALL (f'c=3.6 KSI @ 28 DAYS)

CAST-IN-DRILLED-HOLE CONCRETE PILE (f'c=3.6 KSI @ 28 DAYS)

CONCRETE STRENGTH AND TYPE LIMITS



LEVEE EXCAVATION, see "LEVEE IMPROVEMENT" sheets

LEVEE backfill, see "LEVEE IMPROVEMENT" sheets

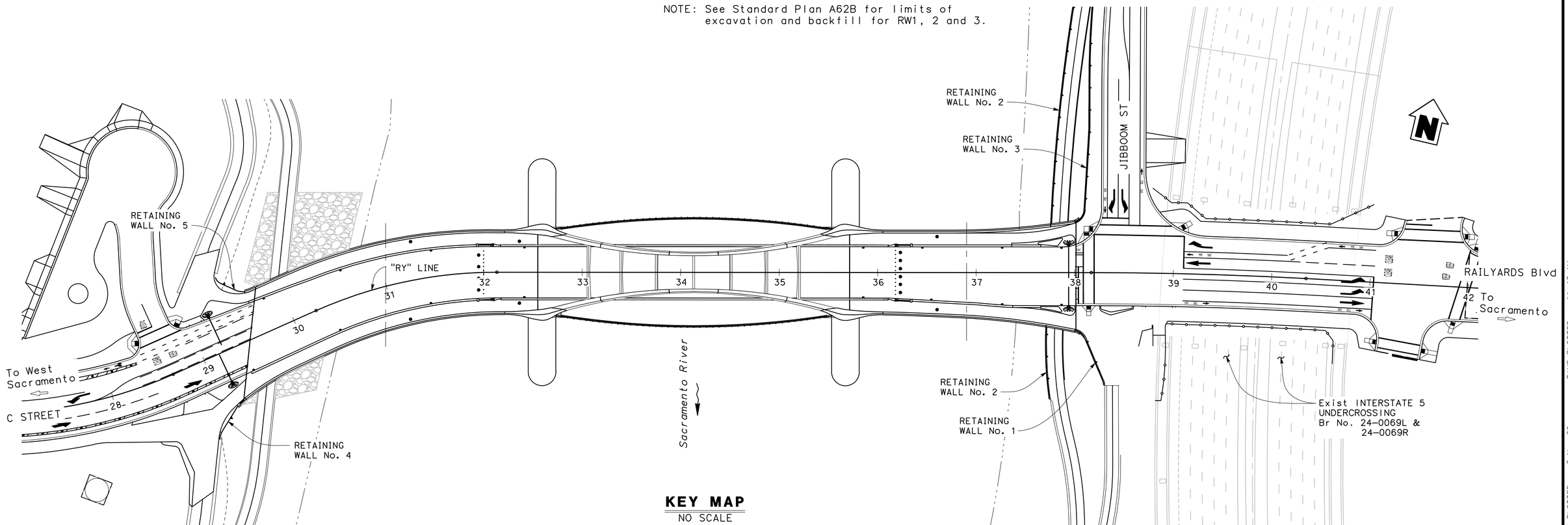
Structure Excavation

LIMIT OF EXCAVATION AND BACKFILL (RETAINING WALL No. 4 AND No. 5 ONLY)

NOTE: See Standard Plan A62B for limits of excavation and backfill for RW1, 2 and 3.

INDEX TO PLANS

RW-01	KEY MAP
RW-02	RETAINING WALL No. 1 GENERAL PLAN
RW-03	RETAINING WALL No. 2 GENERAL PLAN
RW-04	RETAINING WALL No. 2 STRUCTURE PLAN No. 1
RW-05	RETAINING WALL No. 2 STRUCTURE PLAN No. 2
RW-06	RETAINING WALL No. 3 GENERAL PLAN
RW-07	RETAINING WALL No. 3 TYPICAL SECTION
RW-08	RETAINING WALL No. 4 GENERAL PLAN
RW-09	RETAINING WALL No. 5 GENERAL PLAN
RW-10	RETAINING WALL DETAILS No. 1
RW-11	RETAINING WALL DETAILS No. 2
RW-12	RETAINING WALL DETAILS No. 3
RW-13	TUBULAR RAILING (RETAINING WALL)
RW-14	ARCHITECTURAL TREATMENT
RW-15	LOG OF TEST BORINGS PLAN
RW-16	LOG OF TEST BORINGS PROFILE



KEY MAP
NO SCALE

(NOT FOR CONSTRUCTION)

RW-01

DATE PLOTTED => 3-Nov-25 TIME PLOTTED => 11:43 AM

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY
DATE 11/3/2025

DESIGNED BY: BEN KHALILI
R.C.E. _____ DATE _____

CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

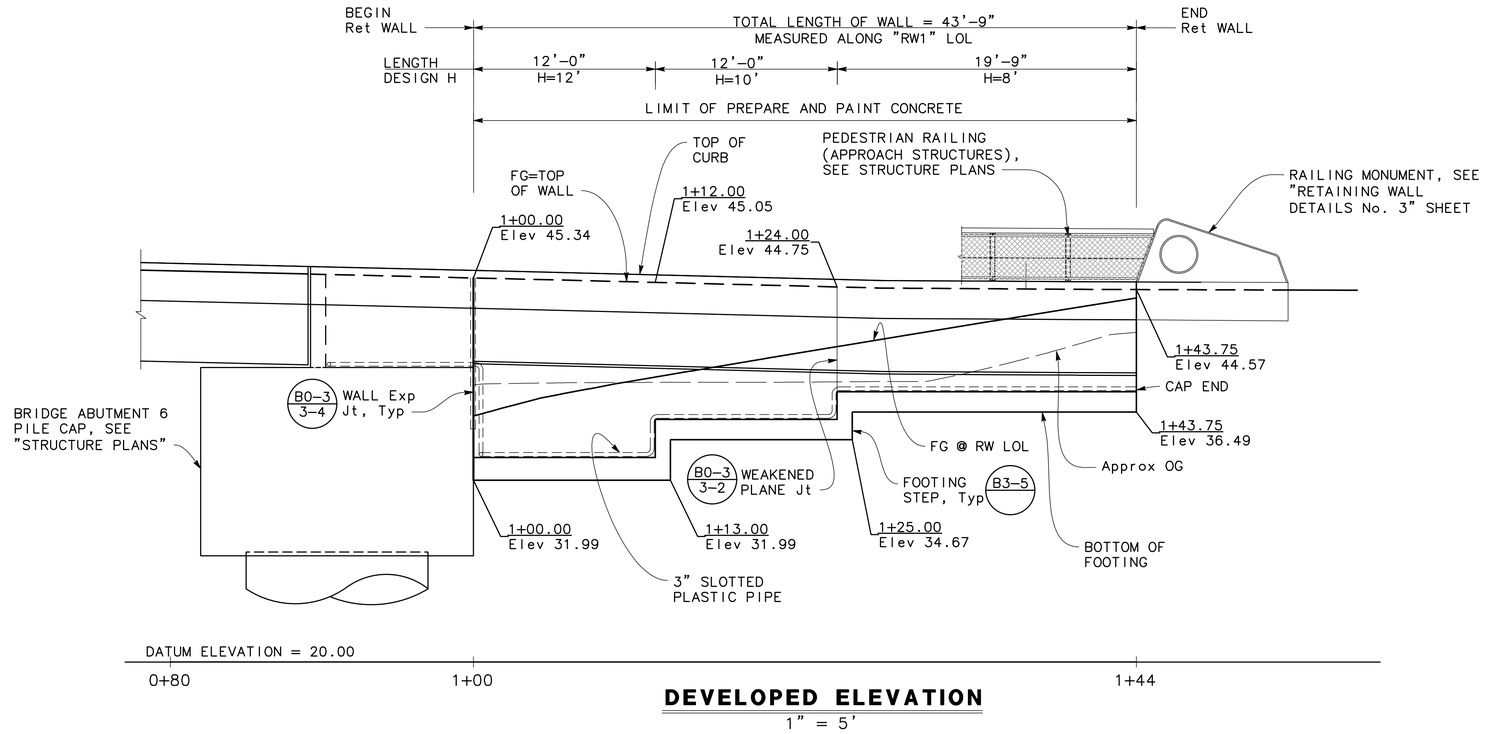
MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

KEY MAP

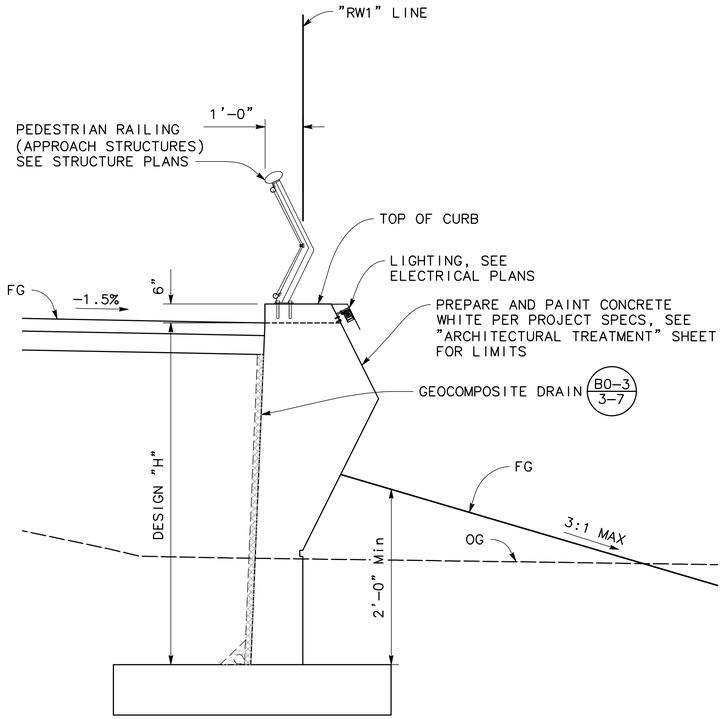
T15136000

SHEET 138 OF 648



DEVELOPED ELEVATION

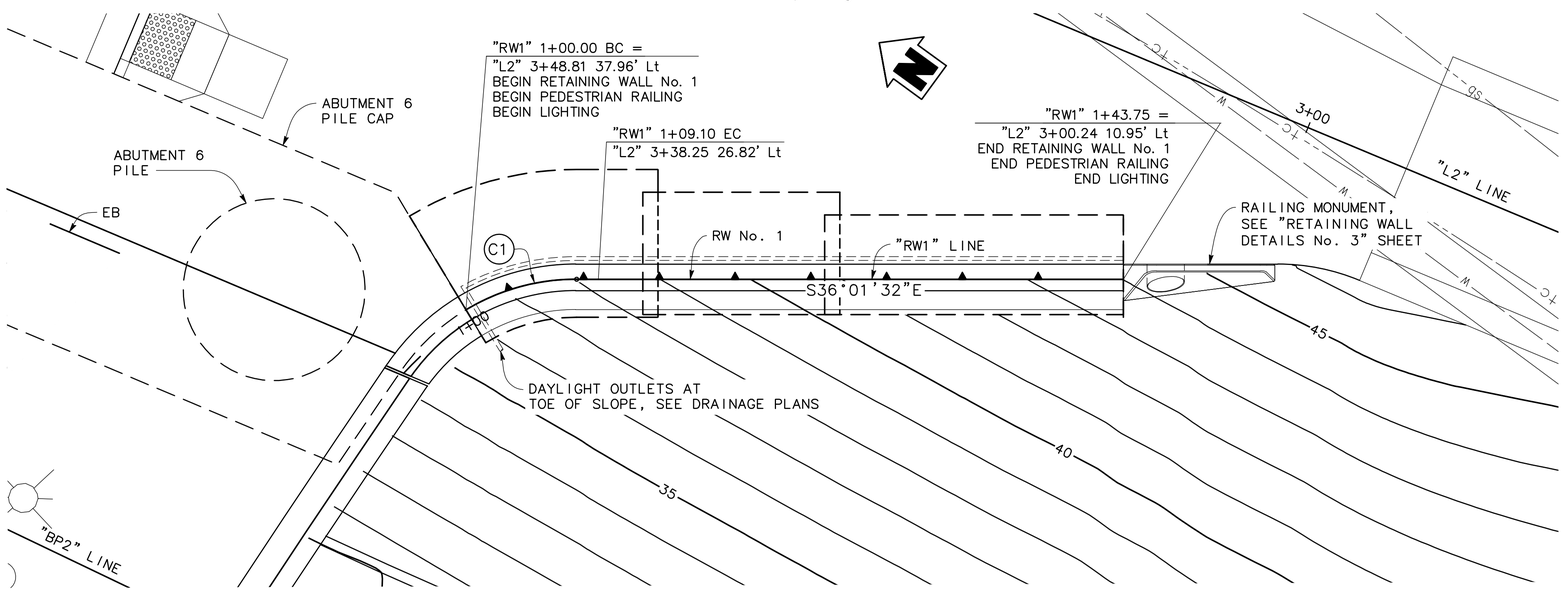
1" = 5'



NOTE: For wall details and dimensions, see "RETAINING WALL DETAILS No. 1" sheet.

TYPICAL SECTION

6" = 1'-0"



PLAN

1" = 5'

CURVE DATA				
No. (X)	R	Δ	T	L
(C1)	14.00'	31°21'27"	3.93'	7.66'

(NOT FOR CONSTRUCTION)

RW-02

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS SHOWN
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

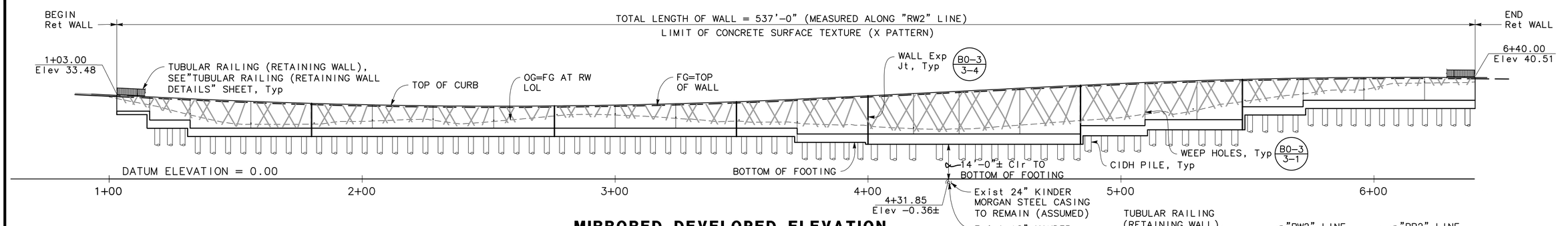
DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: BEN KHALILI
R.C.E. ____ DATE ____
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

MARK THOMAS
UNDER THE SUPERVISION OF:
JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
RETAINING WALL No. 1 GENERAL PLAN

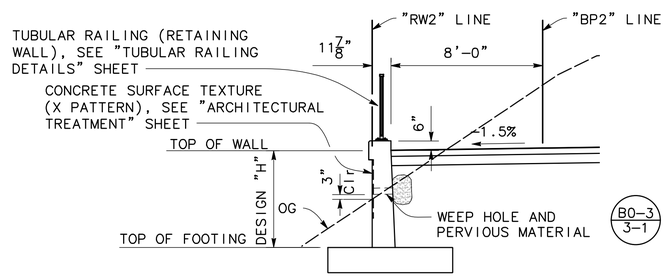
T15136000

SHEET 139 — OF — 648



MIRRORED DEVELOPED ELEVATION

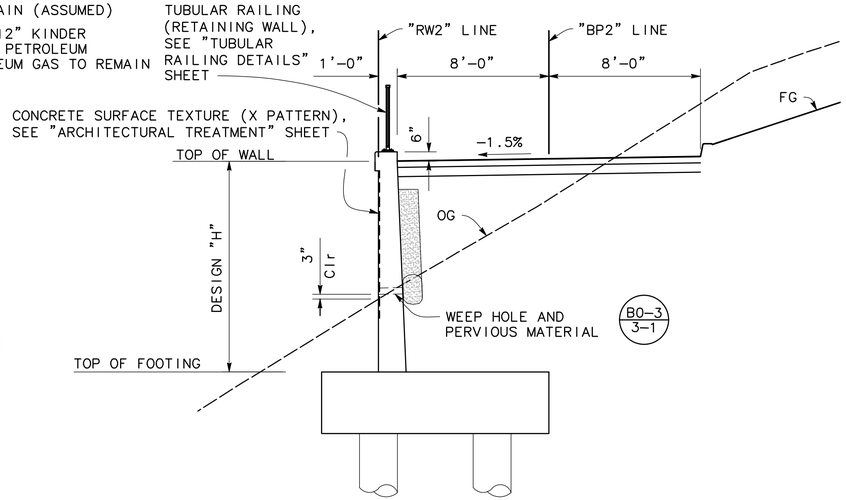
1" = 20'



NOTE: For wall details and dimensions, see "RETAINING WALL DETAILS No. 1" sheet.

"RW2" 1+03 TO 1+16 TYPICAL SECTION

¼" = 1'-0"

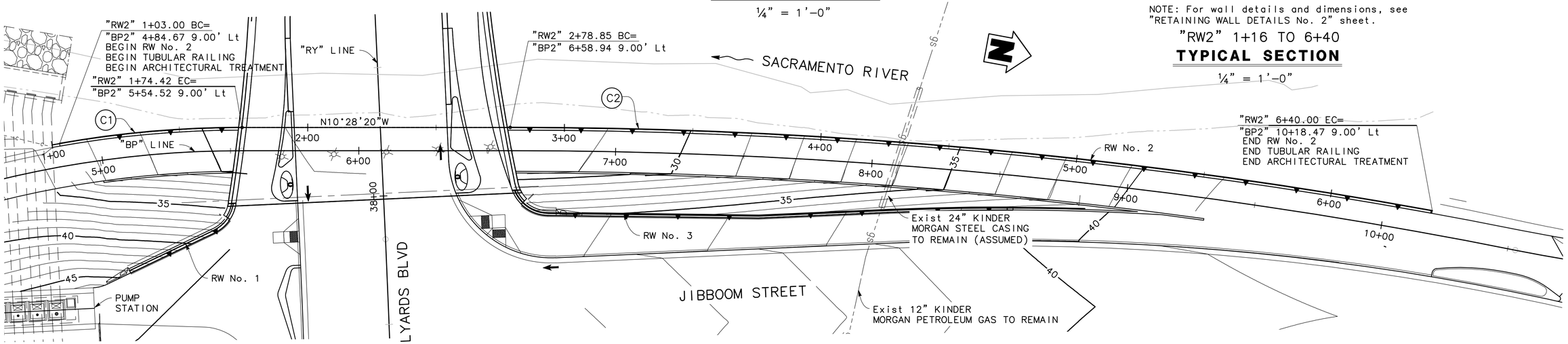


NOTE: For wall details and dimensions, see "RETAINING WALL DETAILS No. 2" sheet.

"RW2" 1+16 TO 6+40 TYPICAL SECTION

¼" = 1'-0"

CURVE DATA				
No. X	R	Δ	T	L
C1	409.00'	10°25'33"	37.31'	74.42'
C2	2009.00'	10°17'59"	181.06'	361.15'



PLAN

1" = 20'

(NOT FOR CONSTRUCTION)

RW-03

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS SHOWN
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

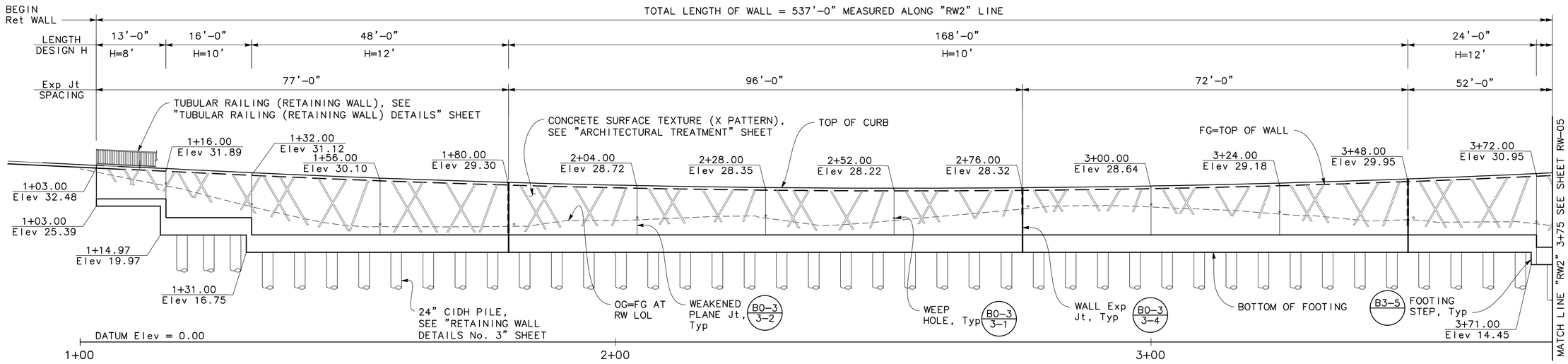
DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: BEN KHALILI
R.C.E. DATE
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
RETAINING WALL No. 2 GENERAL PLAN

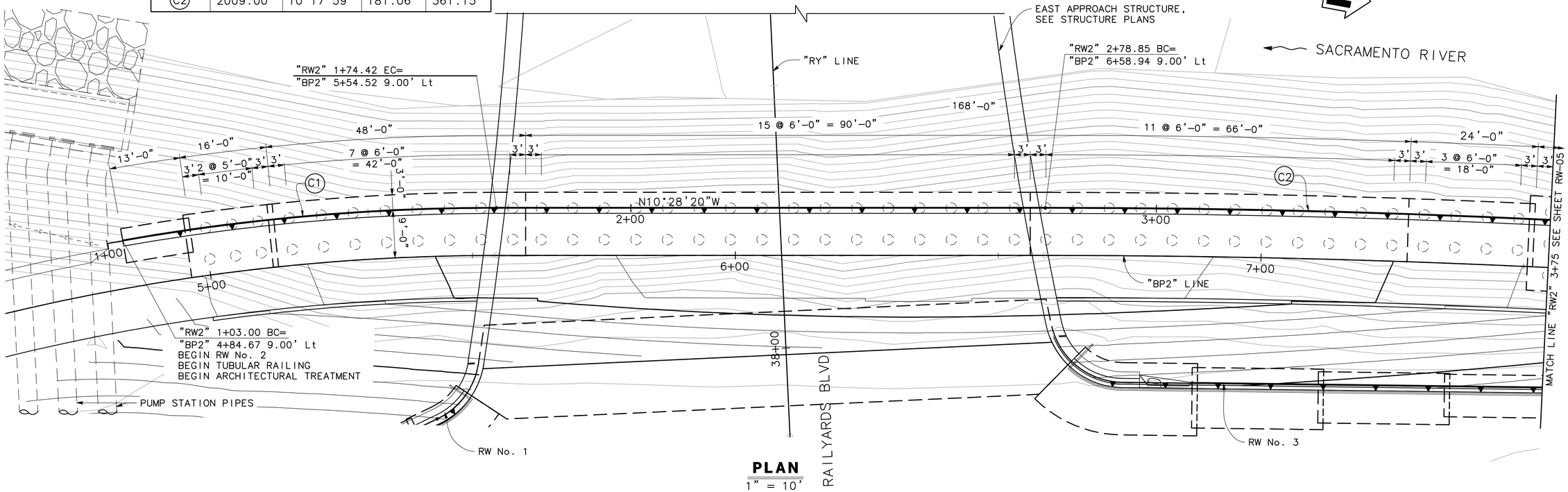
T15136000

SHEET 140 OF 648



CURVE DATA				
No. (X)	R	Δ	T	L
C1	409.00'	10°25'33"	37.31'	74.42'
C2	2009.00'	10°17'59"	181.06'	361.15'

MIRRORED DEVELOPED ELEVATION
1" = 10'



PLAN
1" = 10'

(NOT FOR CONSTRUCTION)

RW-04

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=10'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

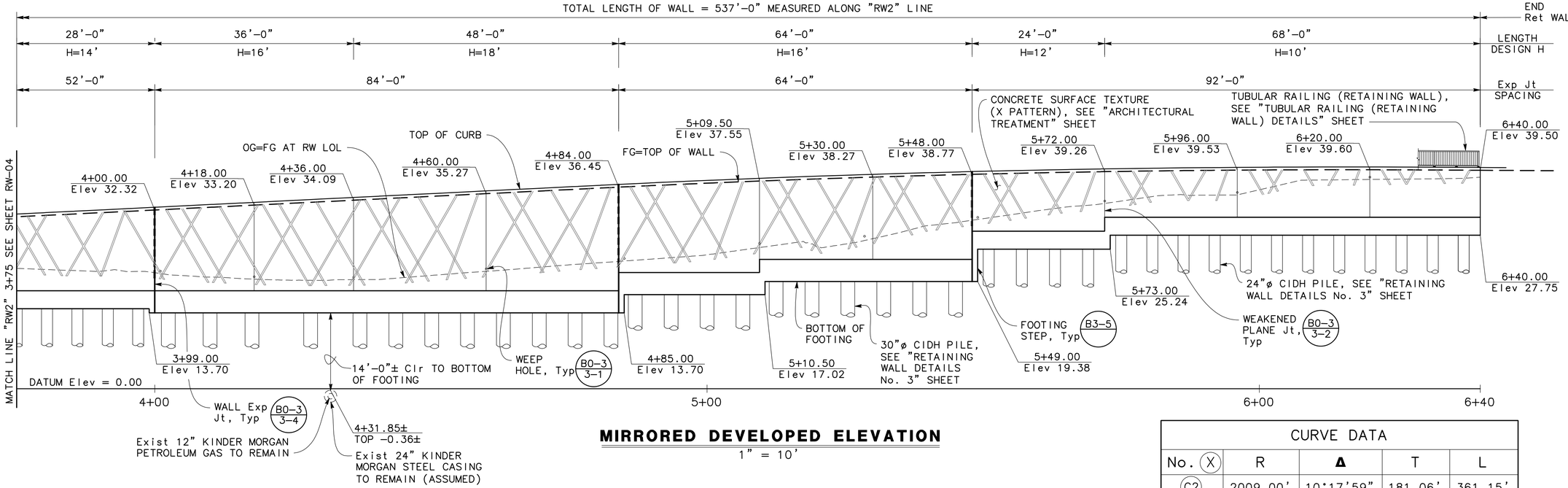
DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: BEN KHALILI
R.C.E. _____ DATE _____
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
RETAINING WALL No. 2
STRUCTURE PLAN No. 1

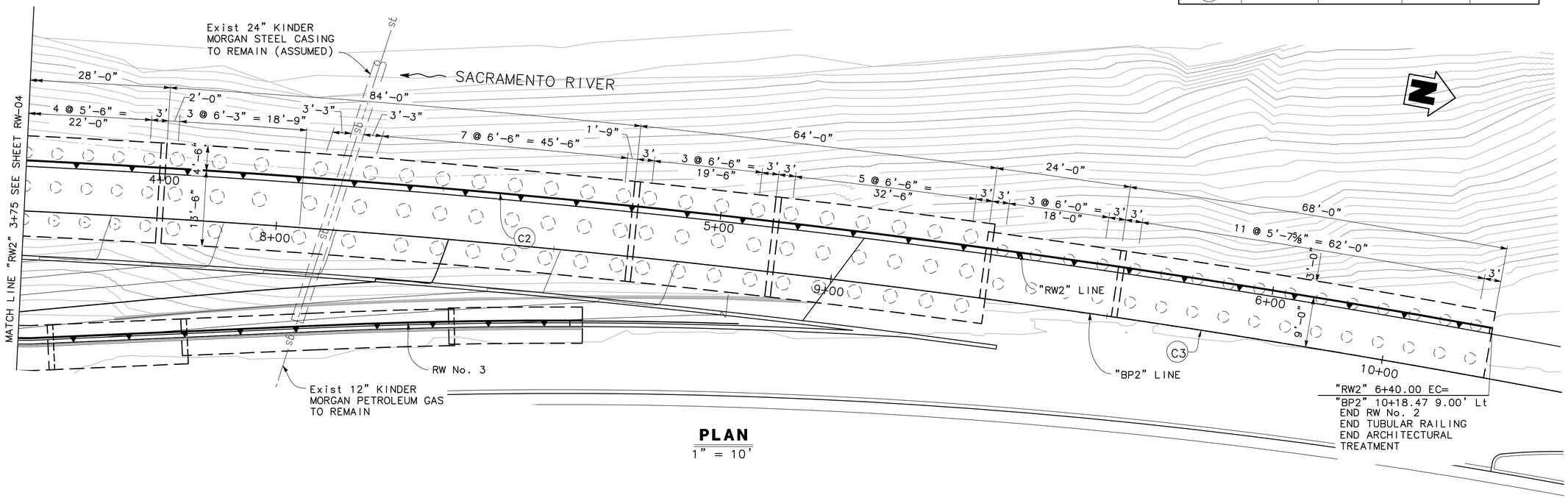
T15136000

SHEET 135 — OF — 648



MIRRORED DEVELOPED ELEVATION
1" = 10'

CURVE DATA				
No. (X)	R	Δ	T	L
C2	2009.00'	10°17'59"	181.06'	361.15'
C3	2000.00'	11°17'19"	197.66'	394.04'



PLAN
1" = 10'

(NOT FOR CONSTRUCTION)

RW-05

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. AS SHOWN
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

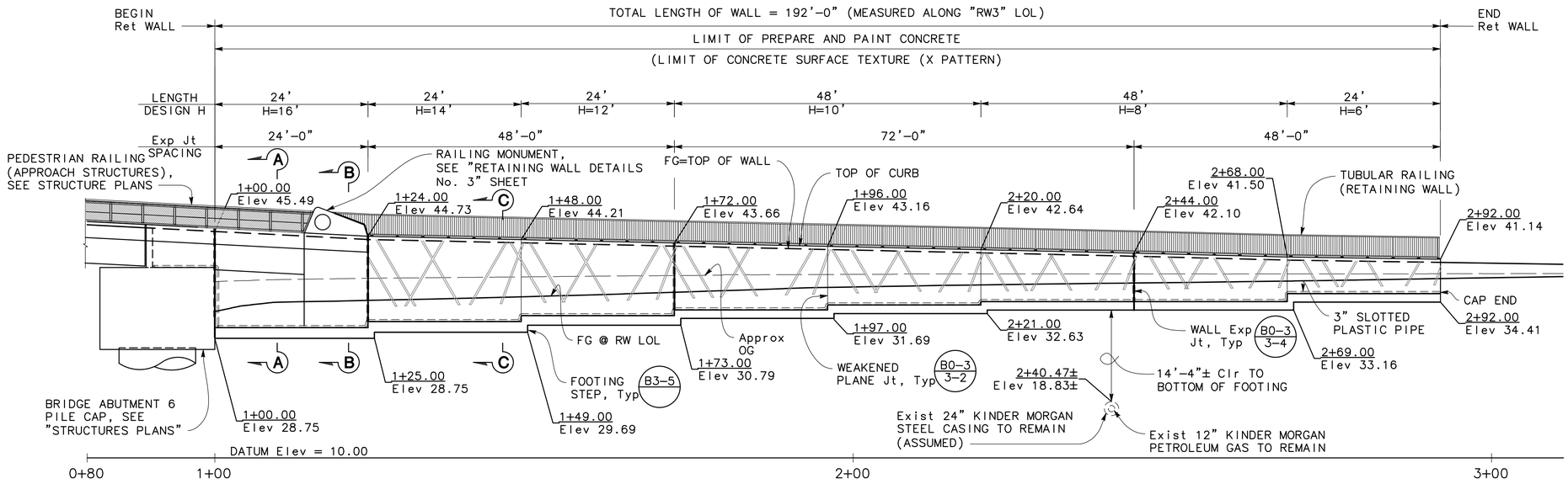
DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: BEN KHALILI
R.C.E. DATE
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
RETAINING WALL No. 2
STRUCTURE PLAN No. 2

T15136000

SHEET 135 OF 648



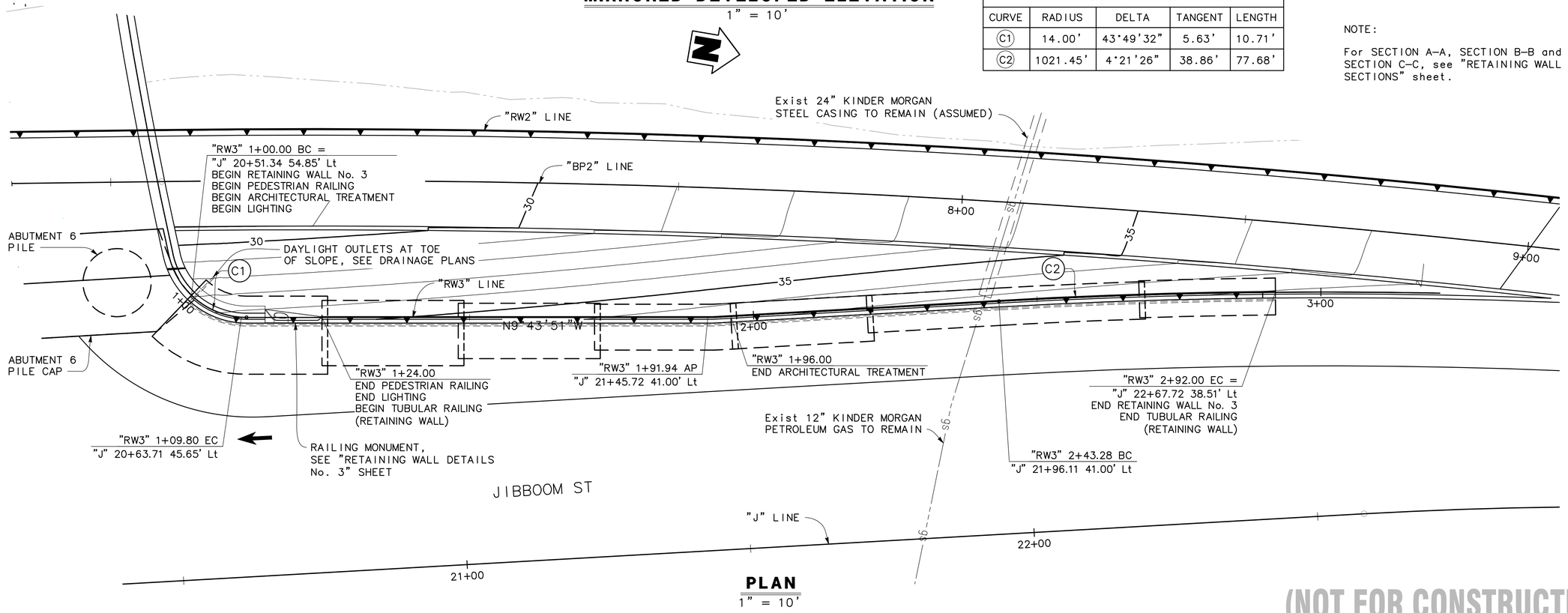
MIRRORED DEVELOPED ELEVATION

1" = 10'

ALIGNMENT CURVE TABLE				
CURVE	RADIUS	DELTA	TANGENT	LENGTH
C1	14.00'	43°49'32"	5.63'	10.71'
C2	1021.45'	4°21'26"	38.86'	77.68'

NOTE:

For SECTION A-A, SECTION B-B and SECTION C-C, see "RETAINING WALL No. 3 TYPICAL SECTIONS" sheet.



PLAN

1" = 10'

(NOT FOR CONSTRUCTION)

RW-06

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=10'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

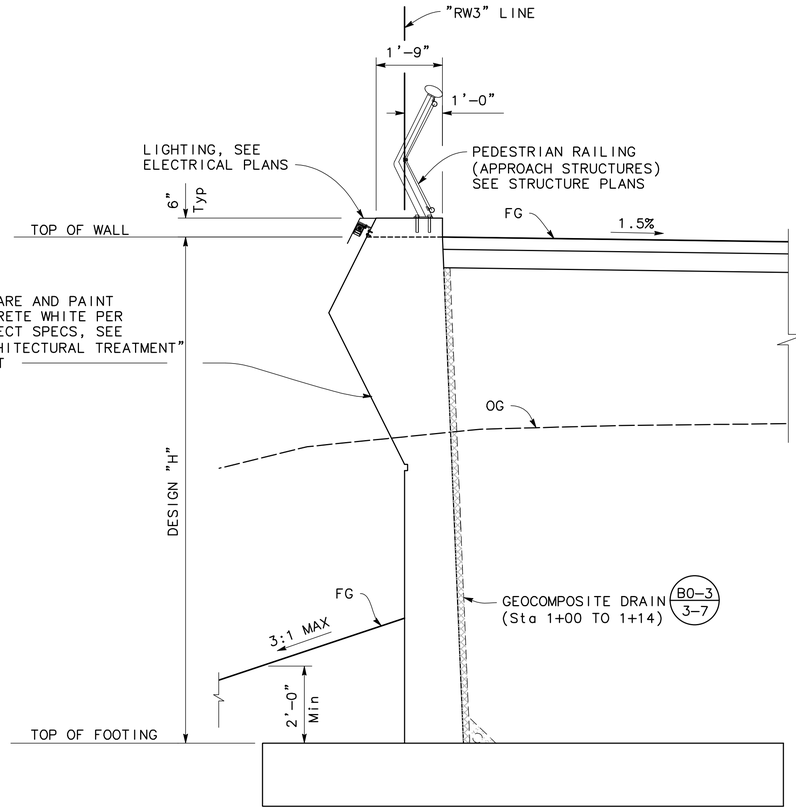
DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: BEN KHALILI
R.C.E. ____ DATE ____
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
RETAINING WALL No. 3 GENERAL PLAN

T15136000

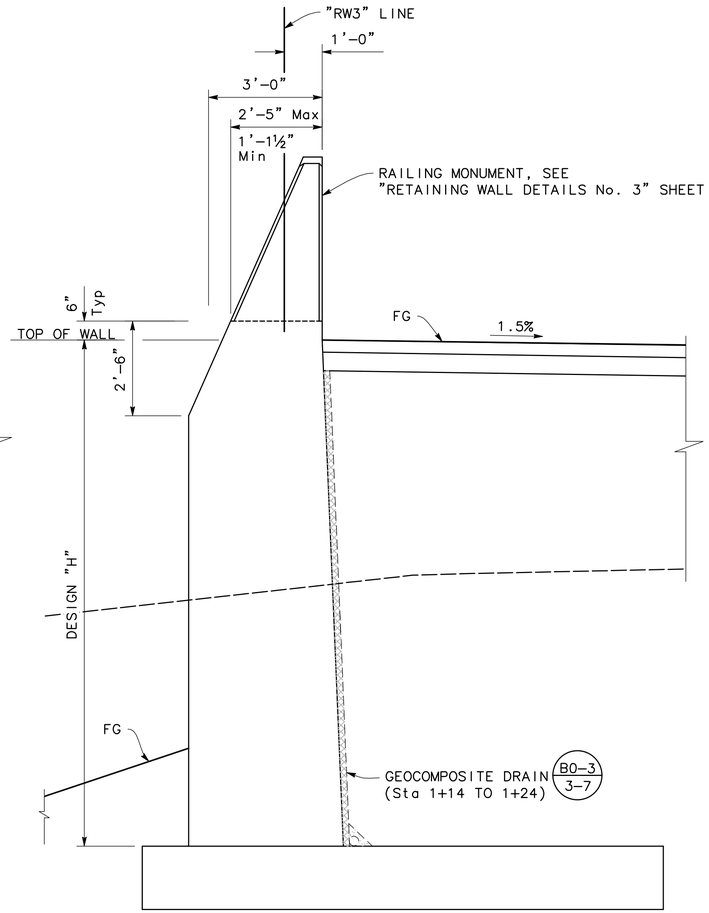
SHEET 143 OF 648



SECTION A-A

½" = 1'-0"

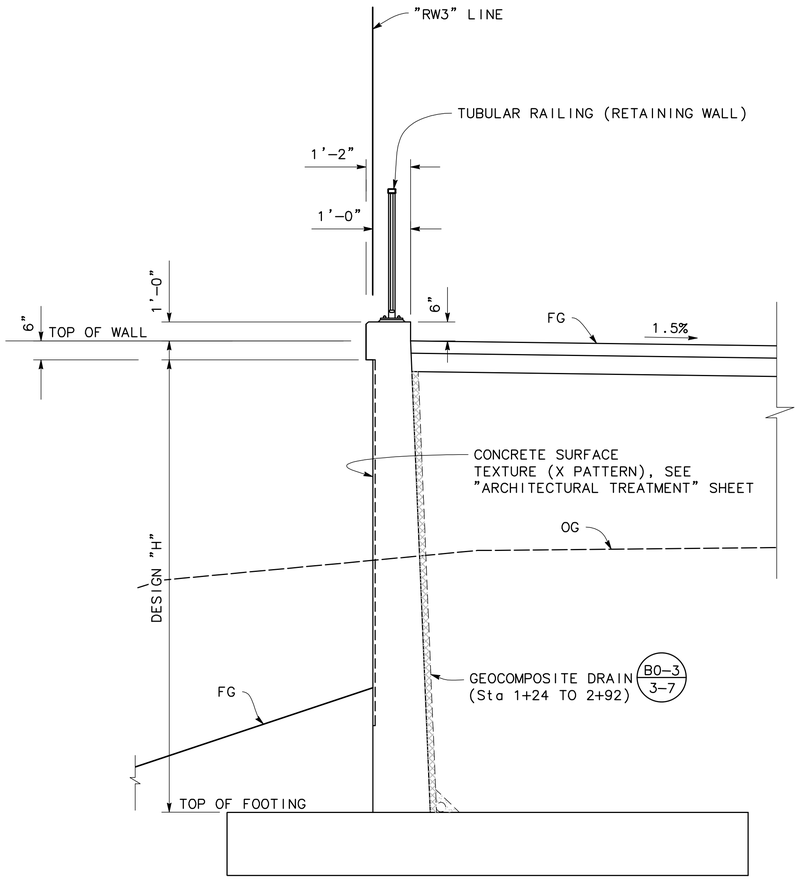
NOTE: For wall details and dimensions, see "RETAINING WALL DETAILS No. 1" sheet.



SECTION B-B

½" = 1'-0"

NOTE: For information not shown, see "SECTION A-A".



SECTION C-C

½" = 1'-0"

NOTE: For information not shown, see "SECTION A-A".

(NOT FOR CONSTRUCTION)

RW-07

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS SHOWN
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY
DATE 11/3/2025

DESIGNED BY: BEN KHALILI
R.C.E. _____ DATE _____

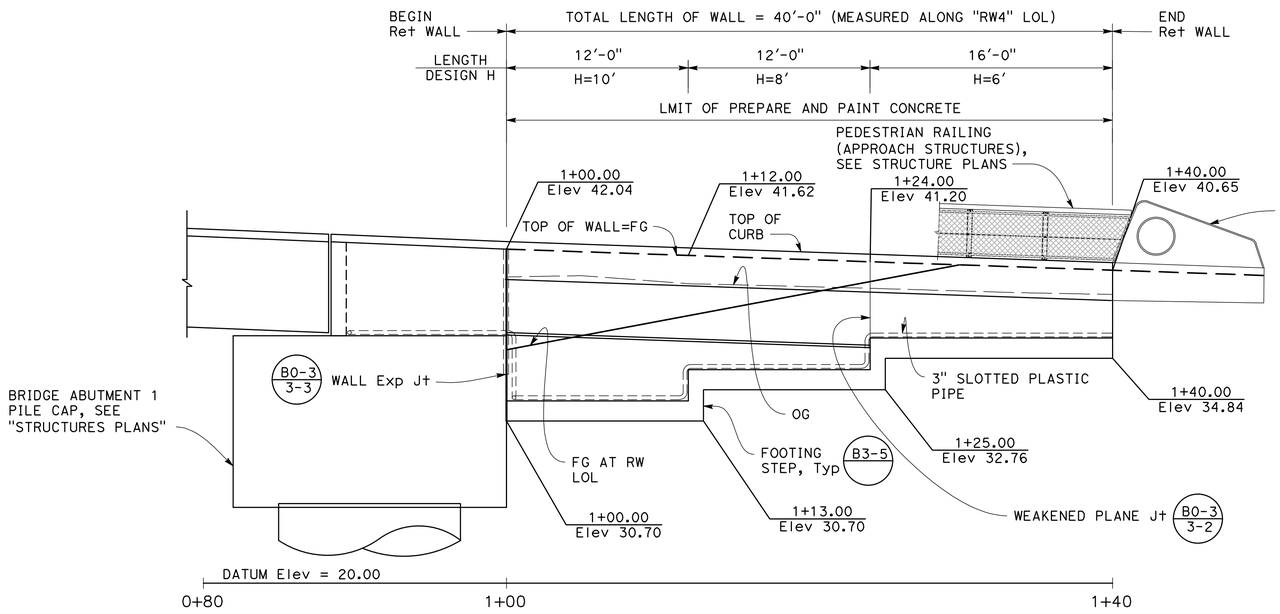
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
RETAINING WALL No. 3 TYPICAL SECTIONS

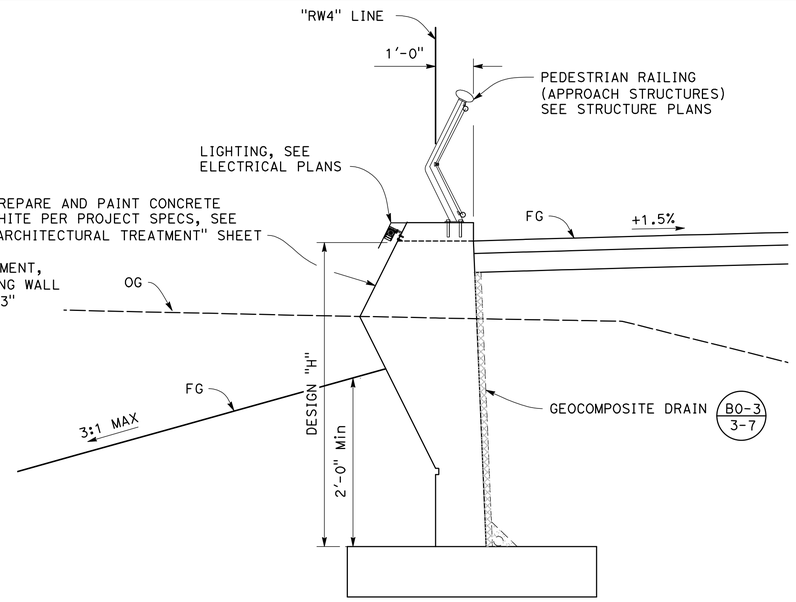
T15136000

SHEET 144 OF 648



MIRRORED DEVELOPED ELEVATION

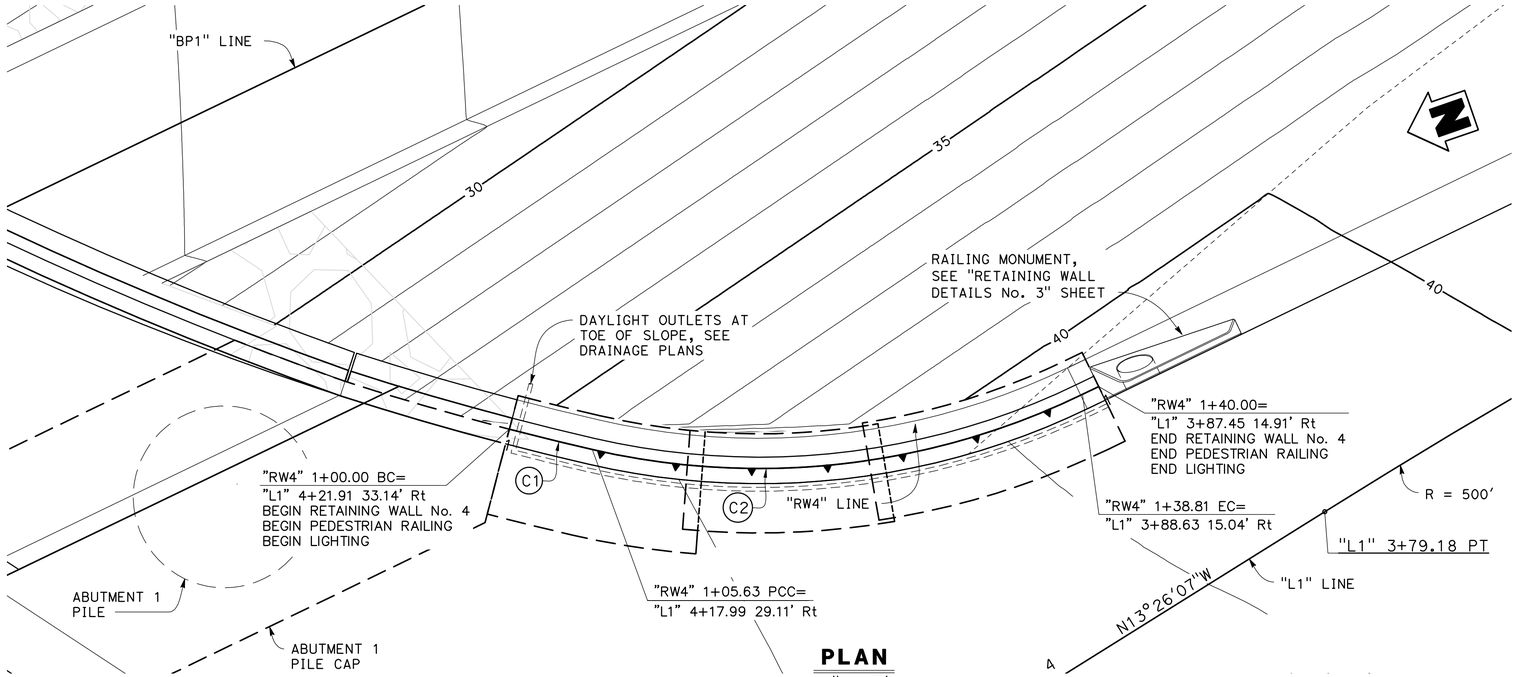
1" = 5'



NOTE: For wall details and dimensions, see "RETAINING WALL DETAILS No. 1" sheet.

TYPICAL SECTION

½" = 1'-0"



PLAN

1" = 5'

CURVE DATA				
No. (X)	R	Δ	T	L
(C1)	199.00'	1°37'11"	2.81'	5.63'
(C2)	49.00'	38°48'01"	17.26'	33.18'

(NOT FOR CONSTRUCTION)

RW-08

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

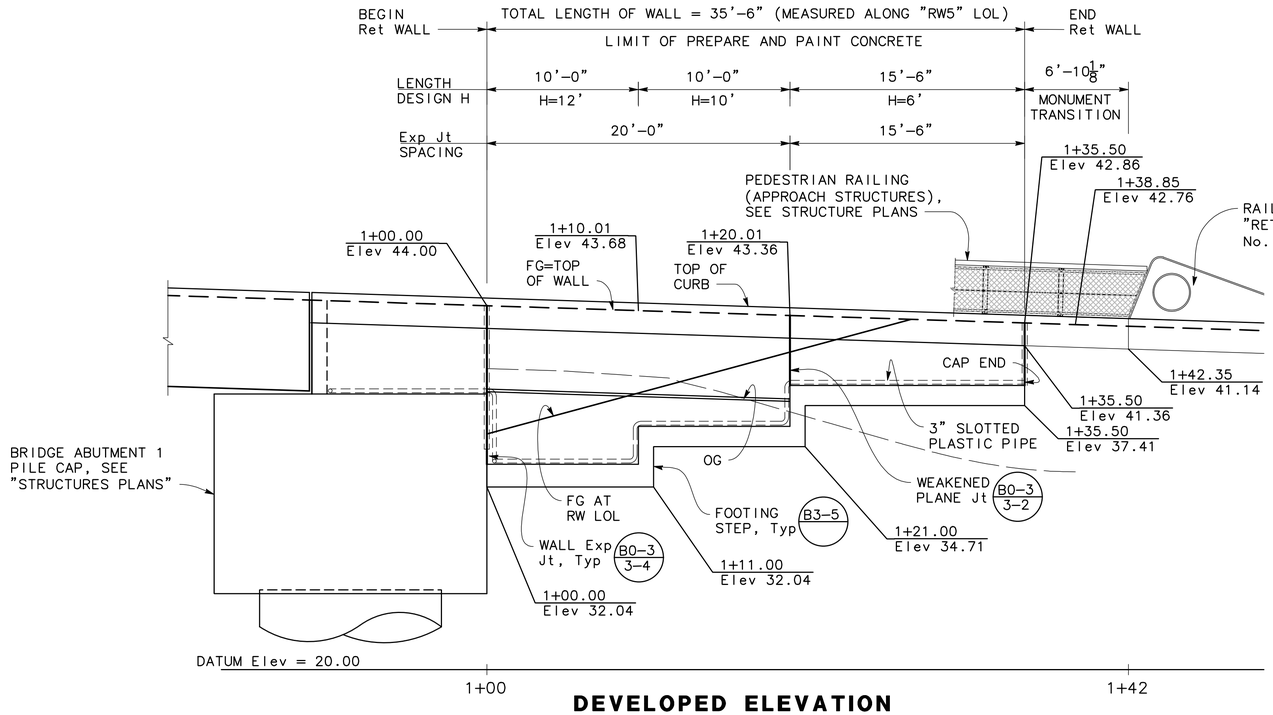
DRAWN BY: J. DOTY DATE 11/3/2025
DESIGNED BY: BEN KHALILI R.C.E. ____ DATE ____
CHECKED BY: SEBASTIAN VARELA FONTECHA R.C.E. S 7078 DATE 12-31-26

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
RETAINING WALL No. 4 GENERAL PLAN

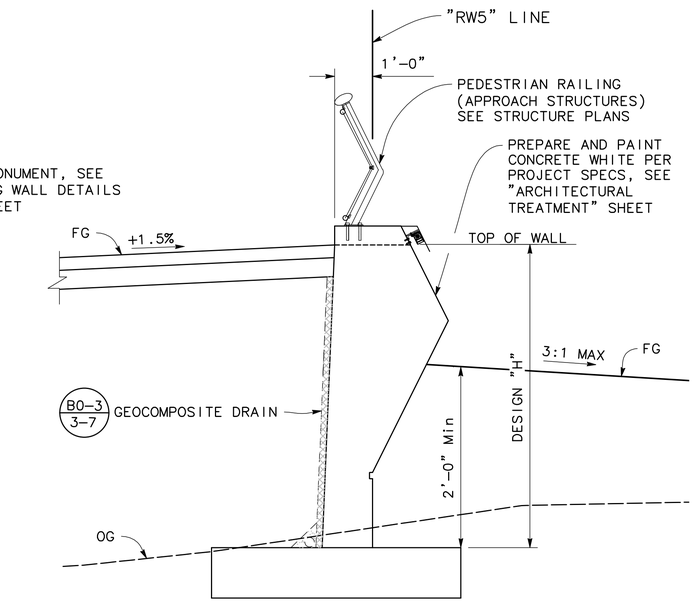
T15136000

SHEET 145 — OF — 648



DEVELOPED ELEVATION

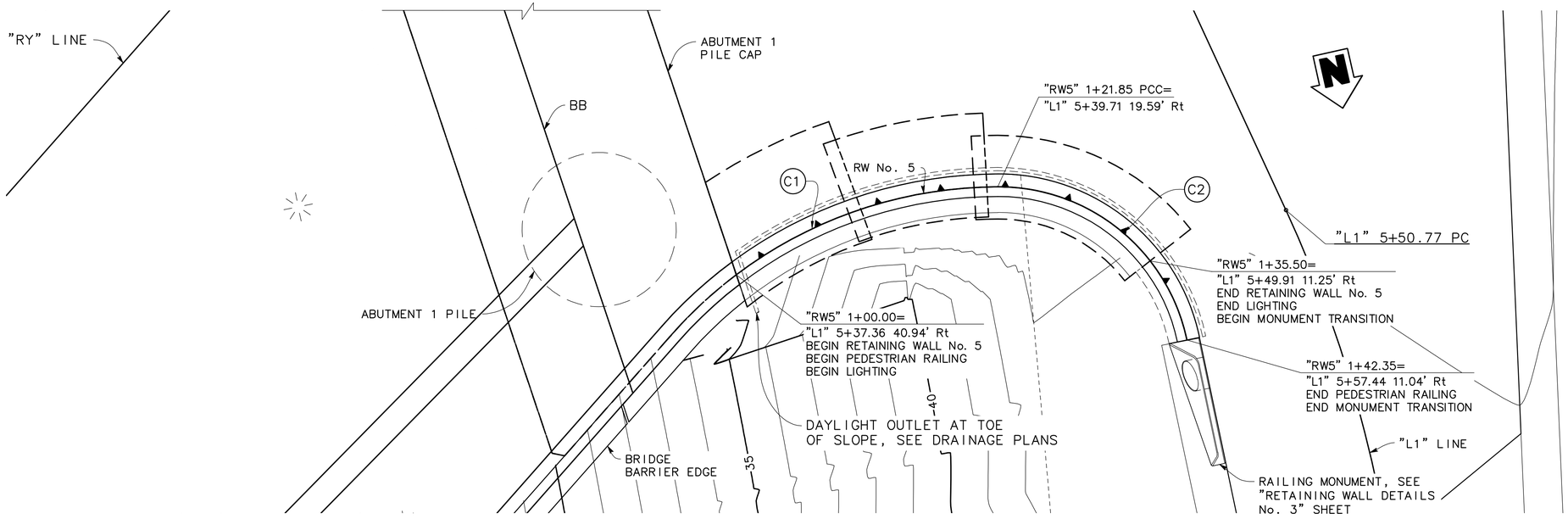
1" = 5'



NOTE: For wall details and dimensions, see "RETAINING WALL DETAILS No. 1" sheet.

TYPICAL SECTION

½" = 1'-0"



PLAN

1" = 5'

CURVE DATA				
No. (X)	R	Δ	T	L
C1	34.00'	36°49'27"	11.32'	21.85'
C2	15.00'	78°17'23"	12.21'	20.50'

(NOT FOR CONSTRUCTION)

RW-09

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: BEN KHALILI
R.C.E. DATE
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

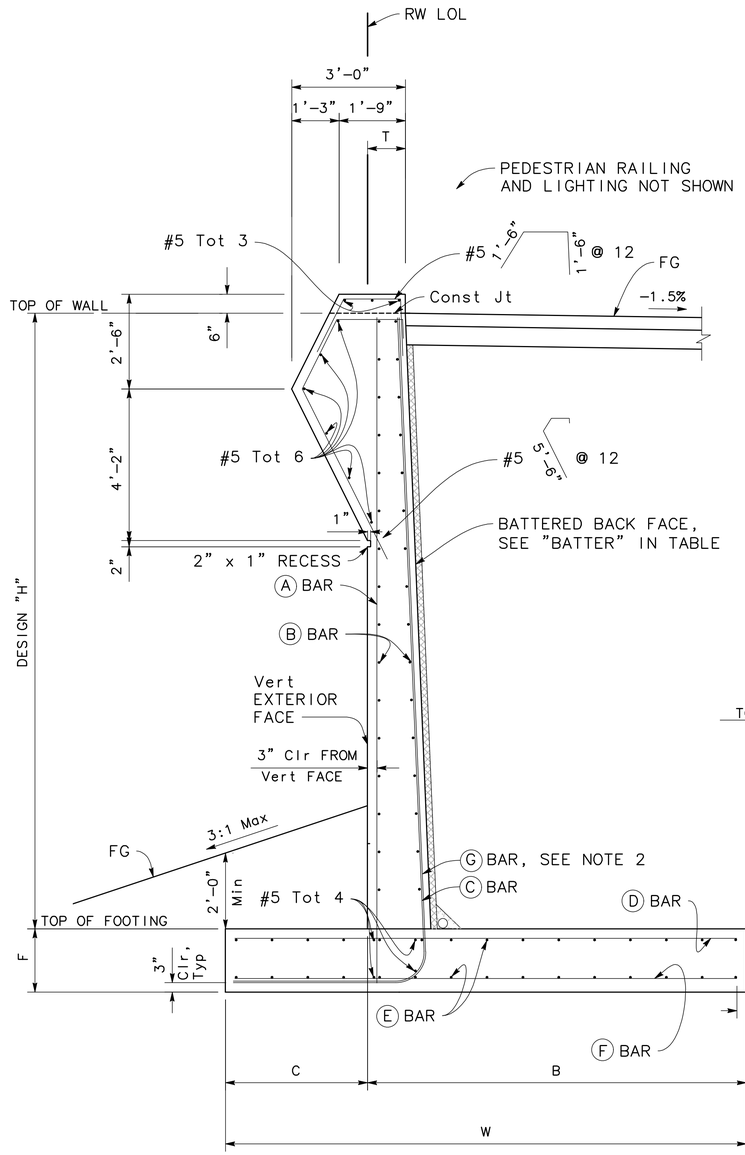
MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
RETAINING WALL No. 5 GENERAL PLAN

T15136000

SHEET 146 — OF — 648

TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA (EXCLUDES RW No. 2)						
DESIGN HEIGHT "H"	16'–0"	14'–0"	12'–0"	10'–0"	8'–0"	6'–0"
T	1'–0"	1.00	1'–0"	1'–0"	1'–0"	1'–0"
F	1'–8"	1'–8"	1'–6"	1'–4"	1'–4"	1'–4"
C	3'–9"	3'–0"	2'–6"	2'–4"	2'–4"	2'–6"
B	10'–0"	8'–6"	7'–3"	5'–9"	4'–3"	4'–0"
W	13'–9"	11'–6"	9'–9"	8'–1"	6'–7"	6'–6"
BATTER	0.75:12	0.5:12	0.5:12	0.5:12	0.5:12	0.5:12
(A) BAR	7 @ 12	6 @ 12	5 @ 9	5 @ 12	5 @ 12	5 @ 12
(B) BAR	7 @ 12	6 @ 12	5 @ 9	5 @ 12	5 @ 12	5 @ 12
(C) BAR	8 @ 6	7 @ 6	7 @ 9	6 @ 10	6 @ 11	6 @ 11
(D) BAR	7 @ 6	6 @ 6	6 @ 9	6 @ 10	6 @ 11	6 @ 11
(E) BAR	5 @ 6	5 @ 6	6 @ 9	6 @ 10	6 @ 11	6 @ 11
(F) BAR	5 @ 6	5 @ 6	6 @ 9	6 @ 10	6 @ 11	6 @ 11



(RETAINING WALLS No. 1, No. 3 SECTION A–A, No. 4 AND No. 5)

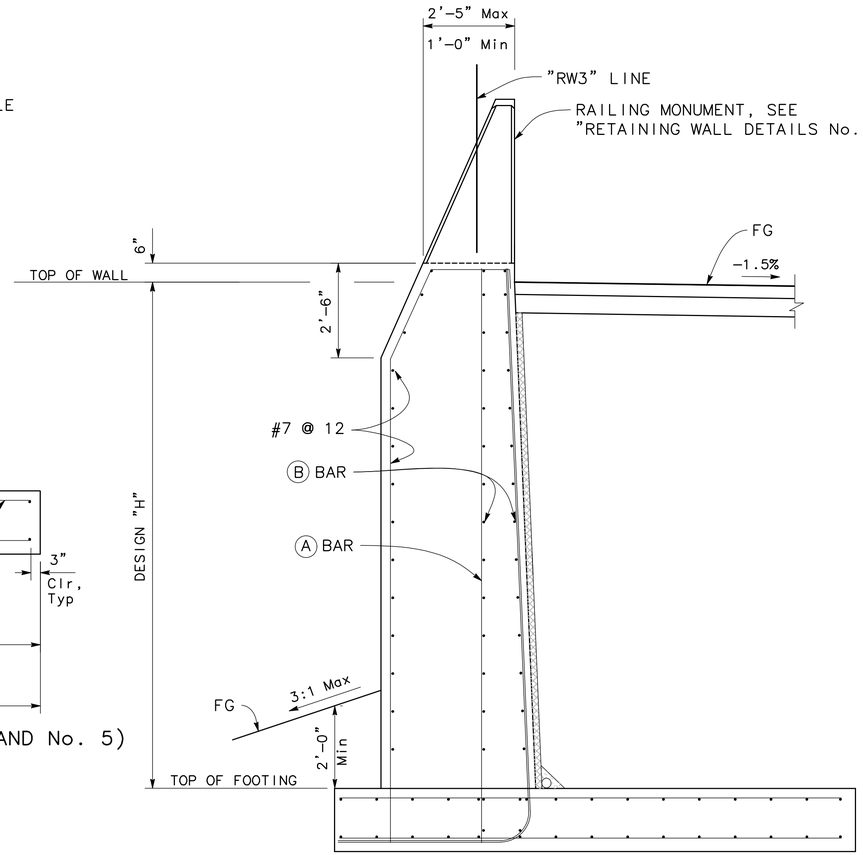
TYPICAL SECTION

½" = 1'–0"

NOTES:

1. At c bars:
   H < 6', no splices are allowed within 1'–8" above the top of footing.
   H > 6', no splices are allowed within H/4 above the top of footing.

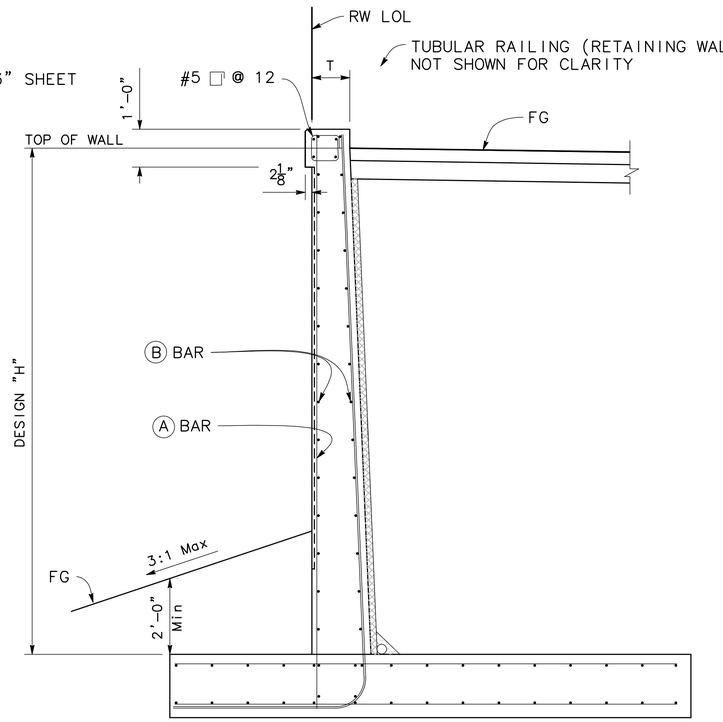
2. Provide #6 @ 10" x 18'–0" (G) bars over a distance of 8'–0" measured from all expansion joints, begin wall and end wall locations, hook (G) bar into footing and reduce bar length as needed to maintain Min Clr cover.



RETAINING WALL No. 3 SECTION B-B

½" = 1'–0"

NOTE: For details not shown, see "TYPICAL SECTION".



RETAINING WALL No. 3 SECTION C-C

½" = 1'–0"

NOTE: For details not shown, see "TYPICAL SECTION".

(NOT FOR CONSTRUCTION)

RW-10

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297–B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: BEN KHALILI
R.C.E. DATE
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

RETAINING WALL DETAILS No. 1

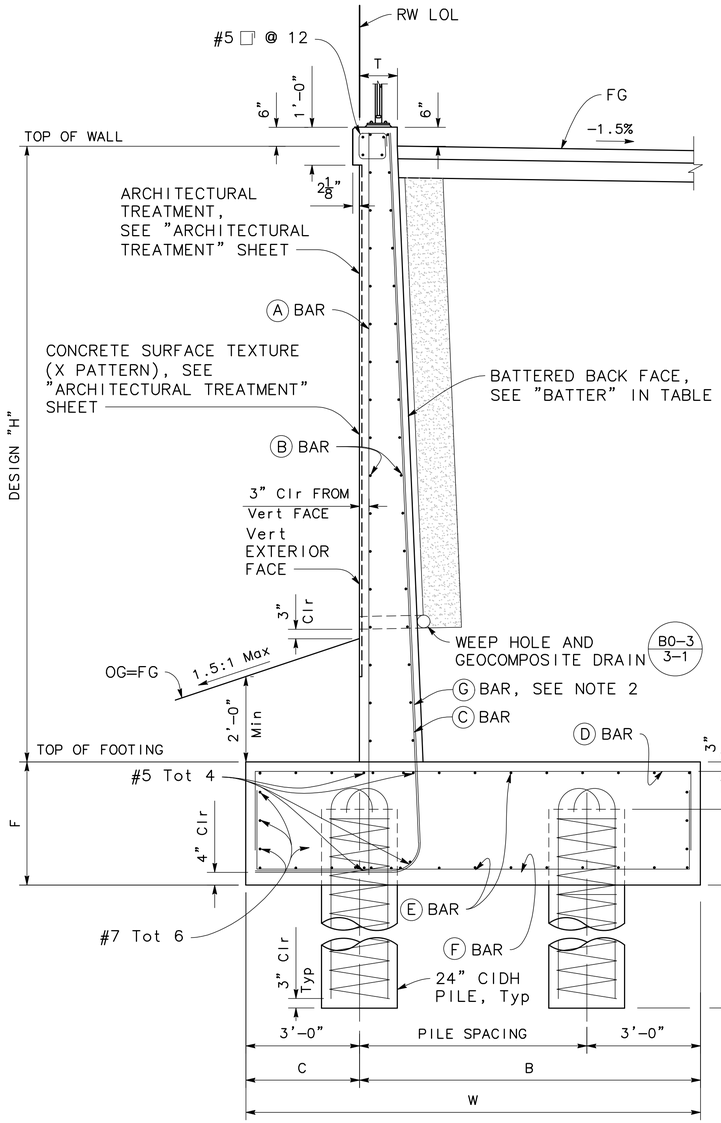
T15136000

SHEET 147 OF 648

TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA (RETAINING WALL No. 2 ONLY)					
DESIGN HEIGHT "H"	18'–0"	16'–0"	14'–0"	12'–0"	10'–0"
T	1'–0"	1'–0"	1'–0"	1'–0"	1'–0"
F	4'–0"	4'–0"	3'–3"	3'–3"	3'–3"
C	4'–6"	4'–6"	4'–6"	3'–0"	3'–0"
B	13'–6"	13'–6"	13'–6"	9'–0"	9'–0"
W	18'–0"	18'–0"	18'–0"	12'–0"	12'–0"
BATTER	1:12	1:12	0.75:12	0.5:12	0.5:12
(A) BAR	5 @ 9	5 @ 9	5 @ 9	5 @ 9	5 @ 12
(B) BAR	5 @ 9	5 @ 9	5 @ 9	5 @ 9	5 @ 12
(C) BAR	8 @ 6	8 @ 6	8 @ 6	7 @ 6	6 @ 6
(D) BAR	9 @ 6	9 @ 6	8 @ 6	8 @ 6	8 @ 6
(E) BAR	8 @ 6	8 @ 6	7 @ 6	7 @ 6	7 @ 6
(F) BAR	10 @ 6	9 @ 6	8 @ 6	7 @ 6	7 @ 6
CIDH Dia	30"	30"	24"	24"	24"
NUMBER OF PILE ROWS	3	3	3	2	2
PILE SPACING	6'–3"	6'–3"	6'–0"	6'–0"	6'–0"
PILE EMBEDMENT LENGTH	50'–0"	45'–0"	46'–0"	50'–0"	40'–0"

NOTES:

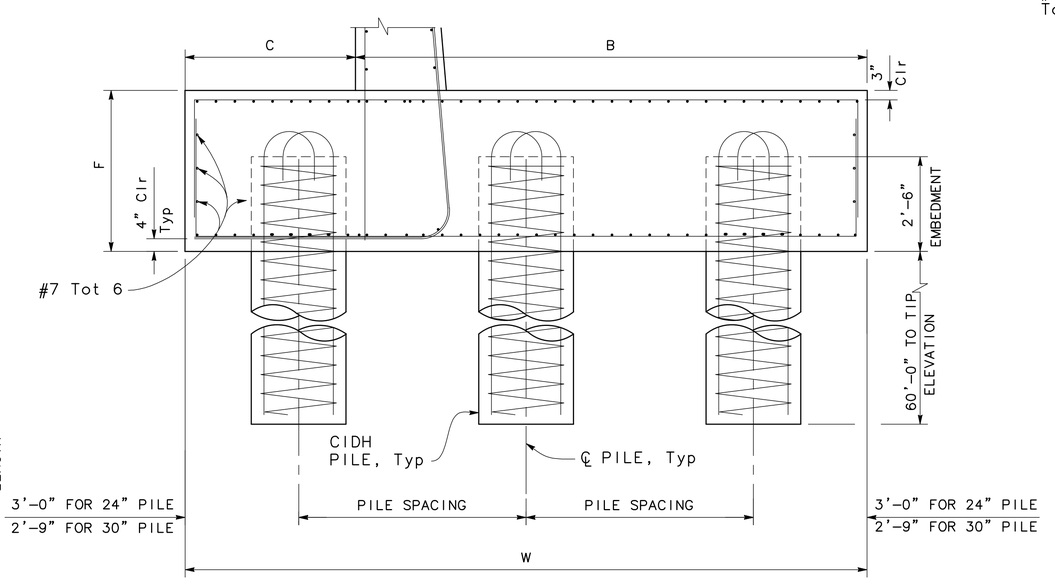
1. At c bars:
   H < 6', no splices are allowed within 1'–8" above the top of footing.
   H > 6', no splices are allowed within H/4 above the top of footing.
2. Provide #6 @ 10" x 18'–0" (G) bars over a distance of 8'–0" measured from all expansion joints, begin wall and end wall locations, hook (G) bar into footing and reduce bar length as needed to maintain Min Clr cover.



RETAINING WALL No. 2 – 2 PILE FOOTING

TYPICAL SECTION

½" = 1'–0"

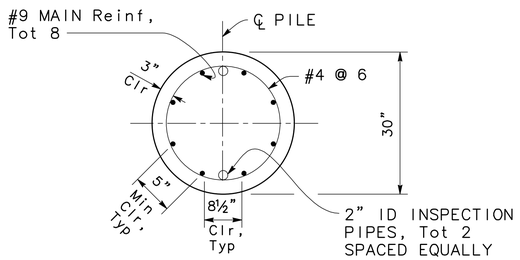


RETAINING WALL No. 2 – 3 PILE FOOTING

(For information not shown, see TYPICAL SECTION)

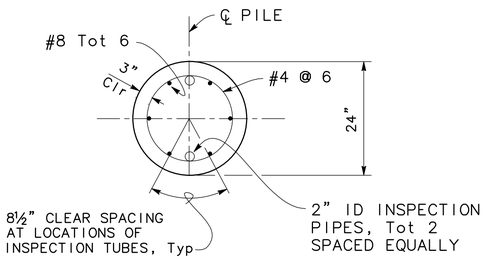
TYPICAL SECTION

½" = 1'–0"



30" CIDH PILE

3/4" = 1'–0"



24" CIDH PILE

½" = 1'–0"

(NOT FOR CONSTRUCTION)

RW-11

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297–B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: BEN KHALILI
R.C.E. DATE
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

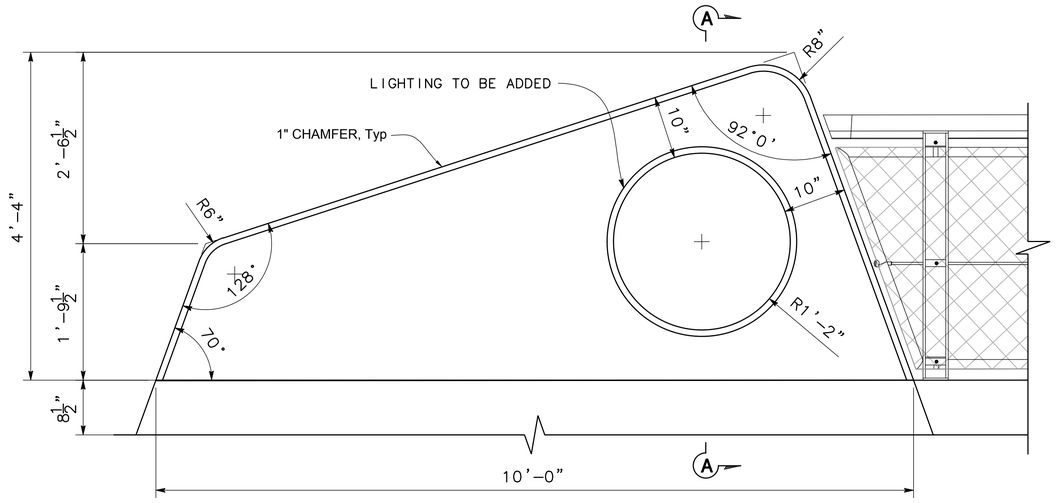
MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

RETAINING WALL DETAILS No. 2

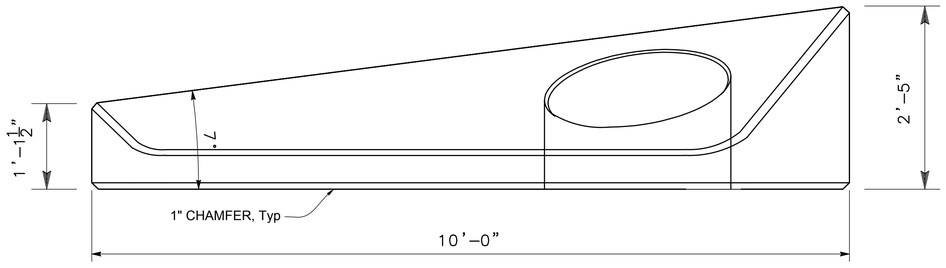
T15136000

SHEET 148 — OF — 648



NOTE: Paint all exposed surfaces white per project specifications.

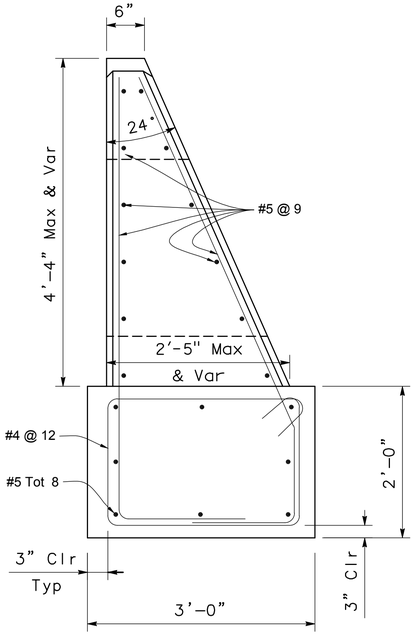
ELEVATION



PLAN

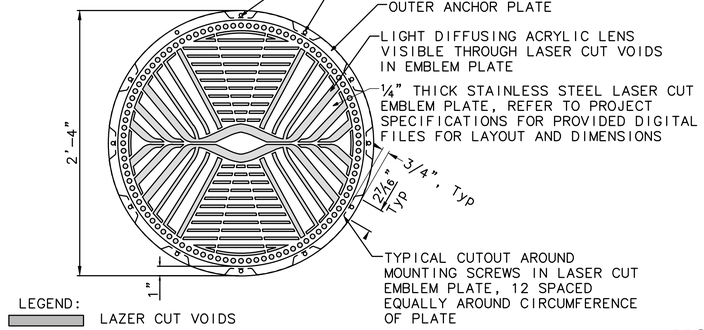
RAILING MONUMENT

1" = 1'-0"



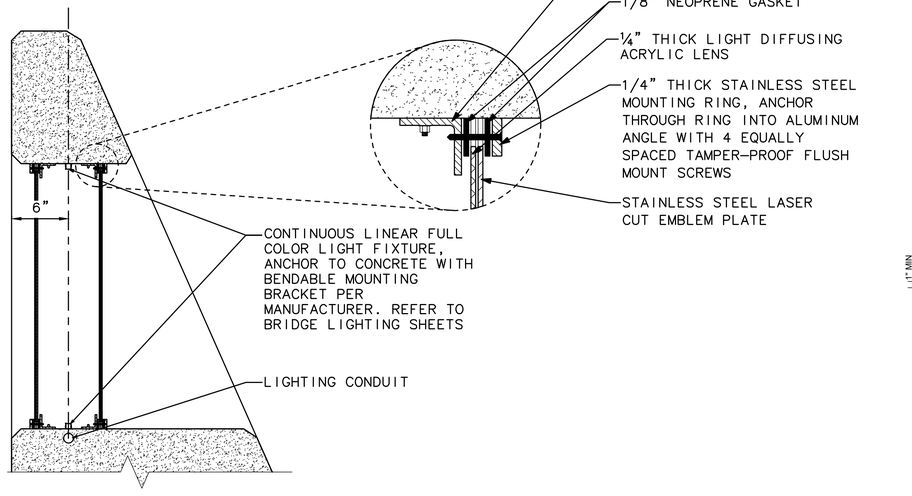
SECTION A-A

1" = 1'-0"



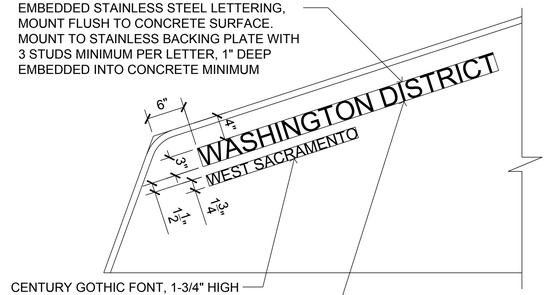
MONUMENT EMBLEM DETAIL

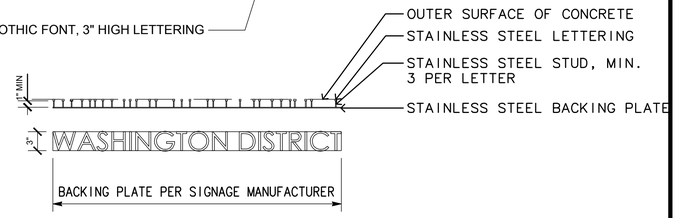
NO SCALE



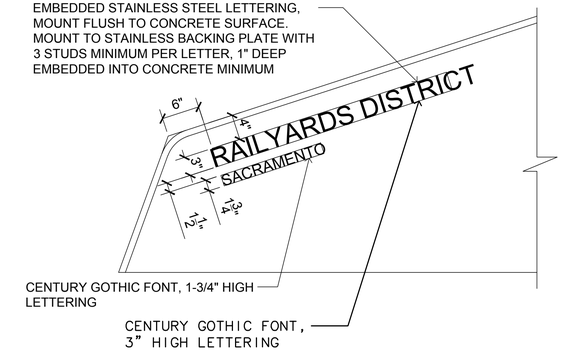
MONUMENT EMBLEM SECTION

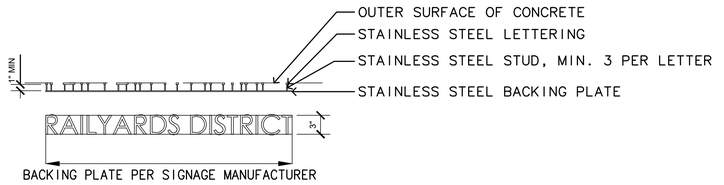
NO SCALE





WEST SACRAMENTO SIDE





EAST SACRAMENTO SIDE

LETTERING ON MONUMENT

NO SCALE

(NOT FOR CONSTRUCTION)

RW-12

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY DATE 11/3/2025
DESIGNED BY: BEN KHALILI R.C.E. ____ DATE ____
CHECKED BY: SEBASTIAN VARELA FONTECHA R.C.E. S 7078 DATE 12-31-26

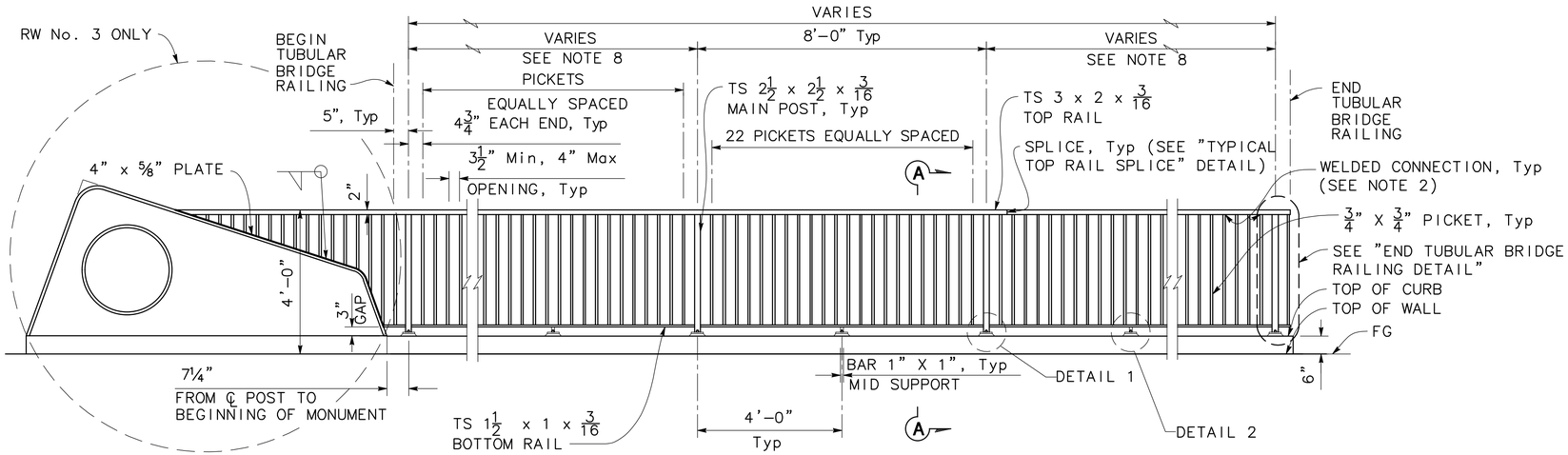
MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783 EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

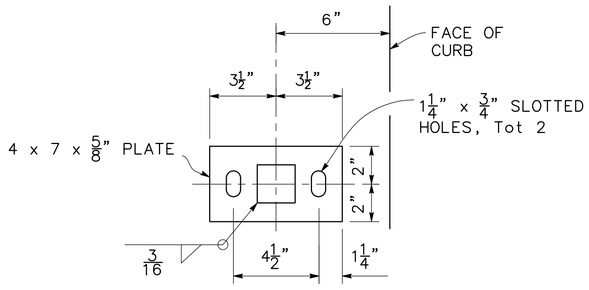
RETAINING WALL DETAILS No. 3

T15136000

SHEET 149 OF 648



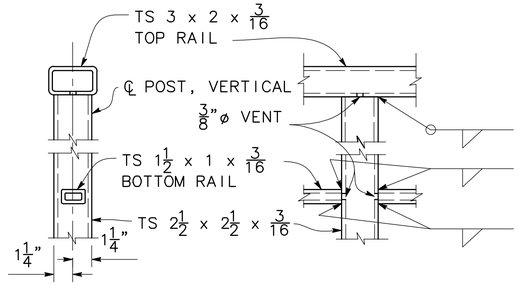
TYPICAL TUBULAR RAILING
1/2" = 1'-0"



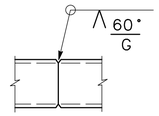
(ON CURB)

NOTE: Main post shown, Mid Support similar

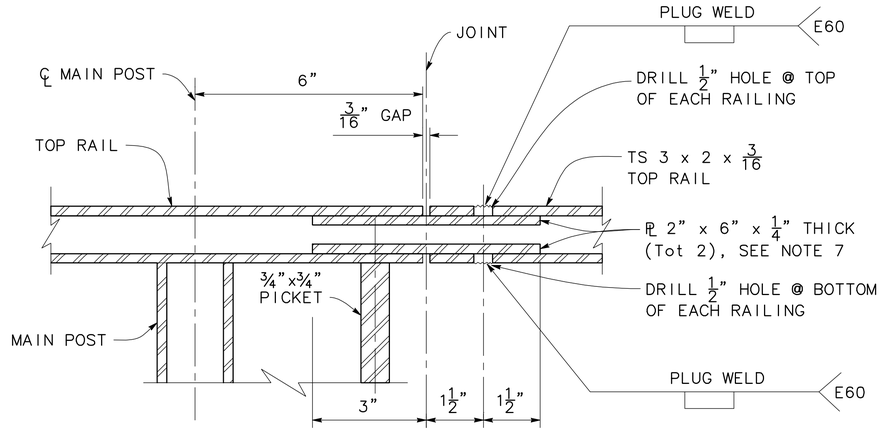
RAIL ANCHOR PLATE DETAIL
3" = 1'-0"



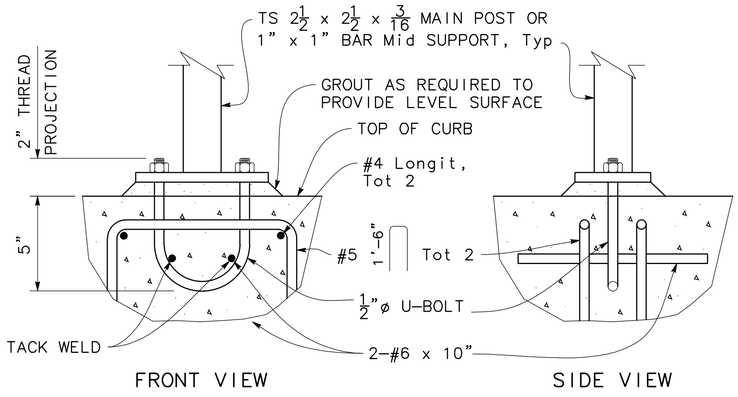
RAIL CONNECTION DETAILS
3" = 1'-0"



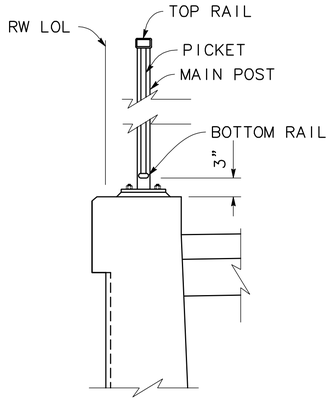
TUBE-WELDED SPLICE
3" = 1'-0"



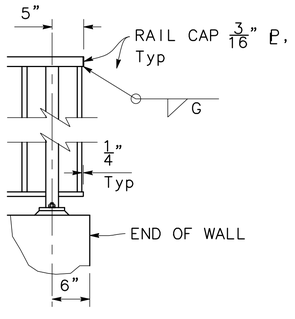
TYPICAL TOP RAIL SPLICE AT JOINT
NO SCALE



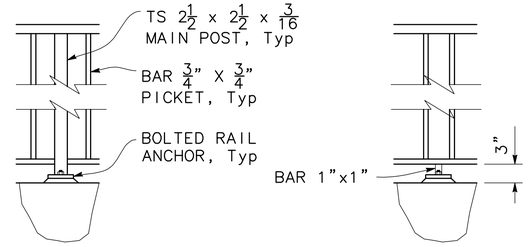
RAIL ANCHOR DETAIL
3" = 1'-0"



SECTION A-A
1" = 1'-0"



TUBULAR RAILING END DETAIL
1" = 1'-0"



DETAIL 1
1" = 1'-0"

DETAIL 2
1" = 1'-0"

NOTES:
1. Material: Tubular steel per dimensions noted.
2. Assembly: All connections complete fillet welded all around each end.
3. Finish: Prime all sections prior to delivery to site, except areas near joints to be field welded during installation.
4. Final finish applied to all railing according to manufacturer's instructions.
5. Tubular railing to be painted white per project specifications.
6. At the Contractor's option, U-bolts may be substituted with drill and bond dowels of equal capacity.
7. The indicated sleeve plate shall be configured to allow for angular change at the rail splice connection.
8. If end bay is longer than 5 feet, provide intermediate support at mid span of end bay.
9. Top rail tube shall be continuous over not less than two posts.
10. Galvanize all railing and anchorage components.

(NOT FOR CONSTRUCTION)

RW-13

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

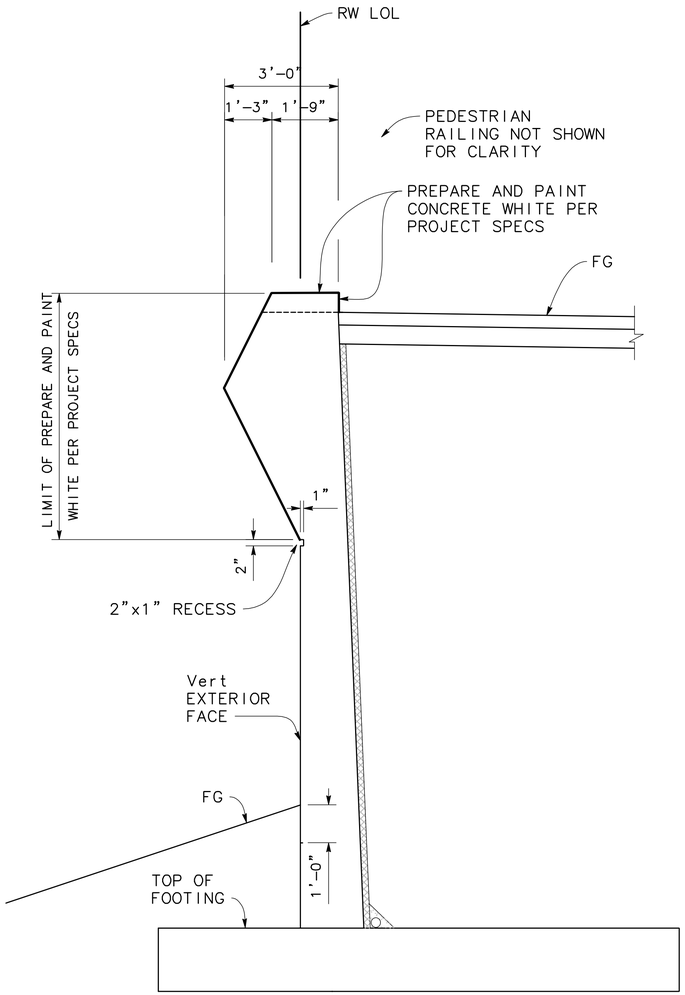
DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: BEN KHALILI
R.C.E. ____ DATE ____
CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
TUBULAR RAILING (RETAINING WALL) DETAILS

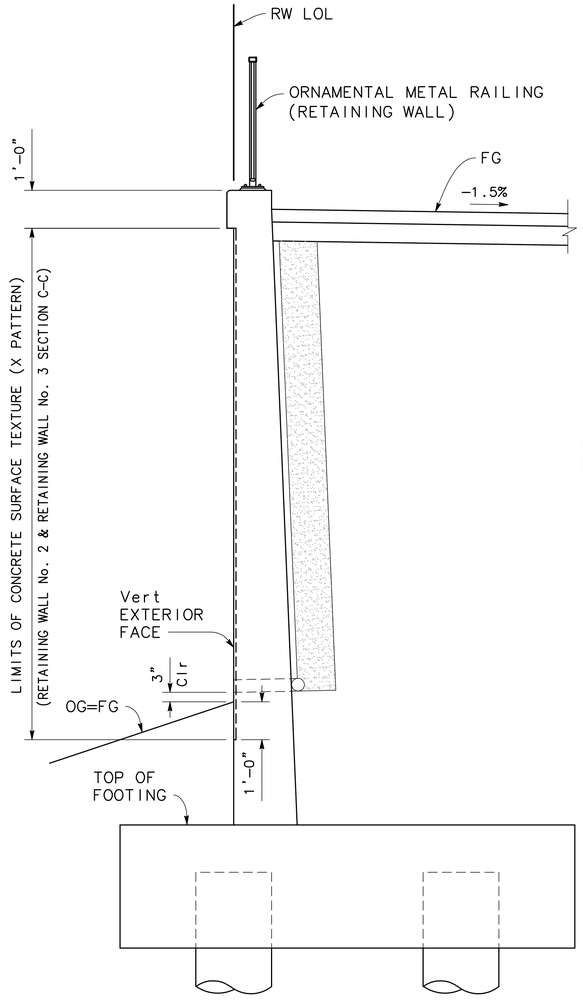
T15136000

SHEET 150 OF 648



NOTE: Paint all exposed surfaces of retaining wall Section B–B white per project specifications.

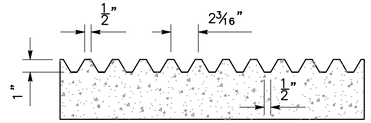
RETAINING WALL Nos. 1, 3, 4 AND 5



RETAINING WALL No. 2

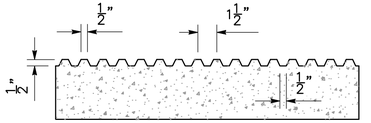
LIMITS OF ARCHITECTURAL TREATMENT & PREPARE AND PAINT CONCRETE

½" = 1'-0"



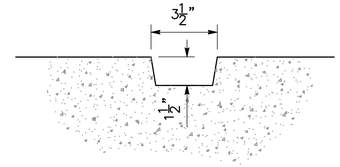
X PATTERN INFILL (1")

2" = 1'-0"



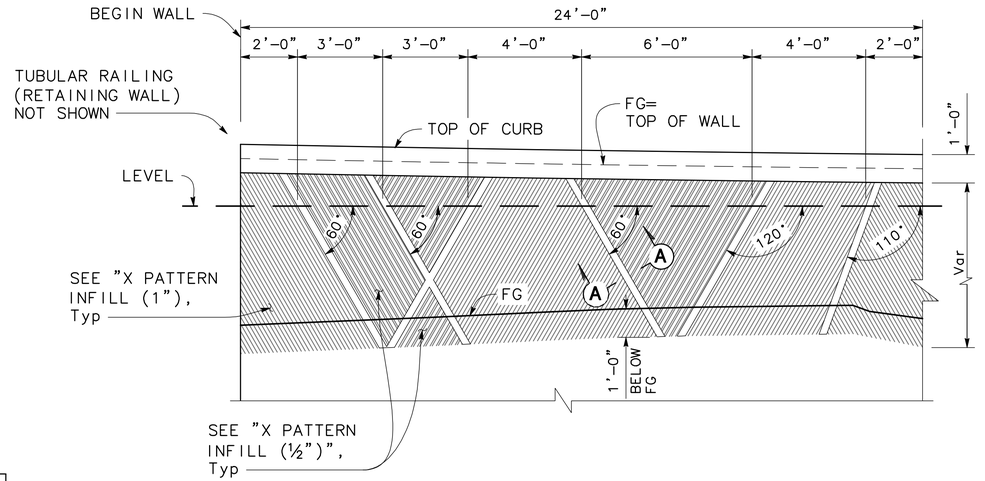
X PATTERN INFILL (1/2")

2" = 1'-0"



SECTION A-A

3" = 1'-0"



RETAINING WALL No. 2 AND RETAINING WALL No. 3 SECTION C-C

CONCRETE SURFACE TEXTURE (X PATTERN)

⅜" = 1'-0"

(NOT FOR CONSTRUCTION)

RW-14

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY
DATE 11/3/2025

DESIGNED BY: BEN KHALILI
R.C.E. _____ DATE _____

CHECKED BY: SEBASTIAN VARELA FONTECHA
R.C.E. S 7078 DATE 12-31-26

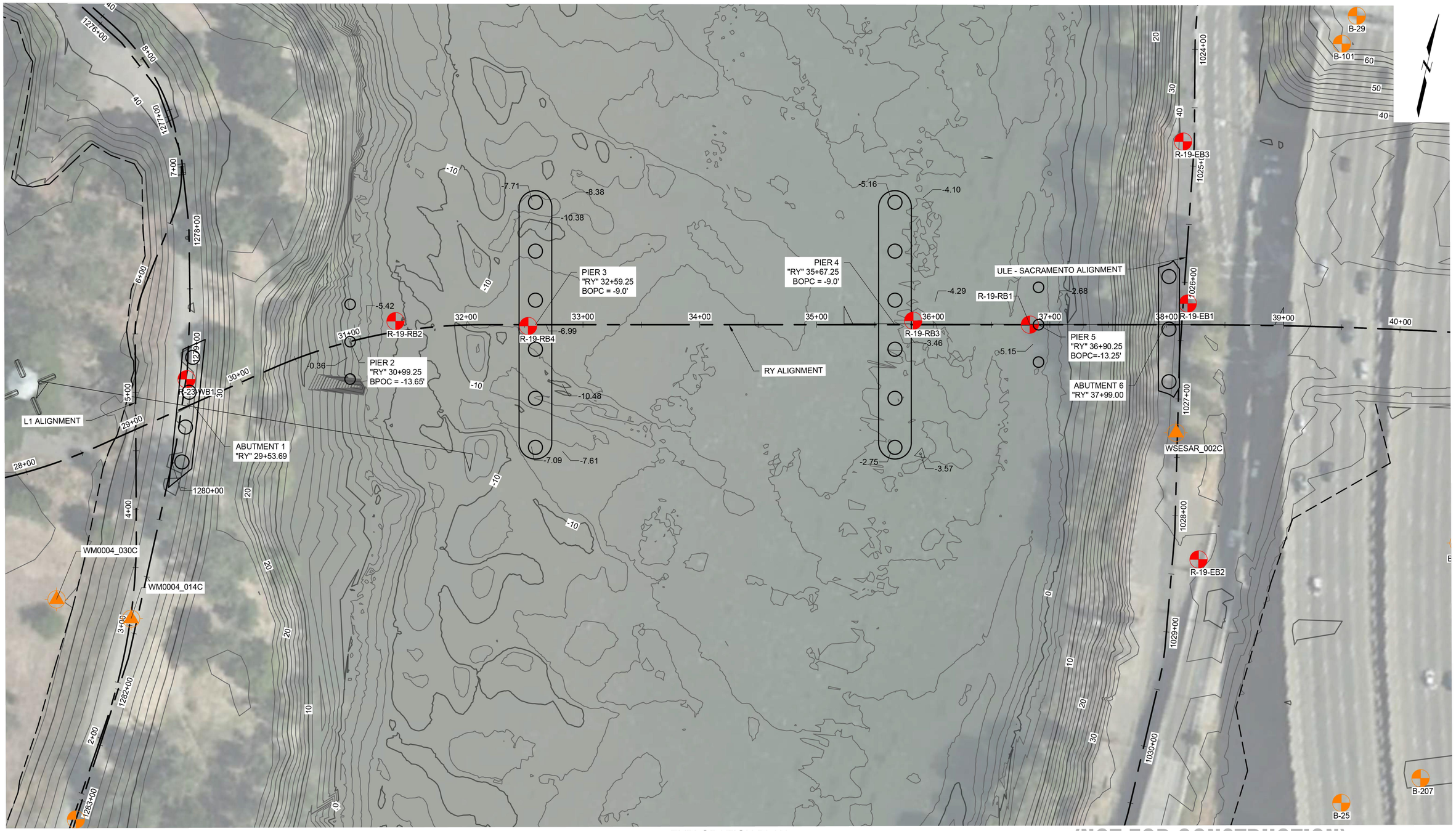
MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

ARCHITECTURAL TREATMENT

T15136000

SHEET 151 OF 648



EXPLORATION PLAN

SCALE: 1:40

(NOT FOR CONSTRUCTION)

LEGEND:

- BORING BY GEI (2019)
- BORING BY GEI (2023)
- CPT BY OTHERS

0 40 80
SCALE, FEET

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

GEI Consultants
2868 PROSPECT PARK DRIVE
SUITE 400
RANCHO CORDOVA, CA 95670
(916)631-4500

CITY OF SACRAMENTO
915 I STREET
ROOM 2000
SACRAMENTO, CA
95814

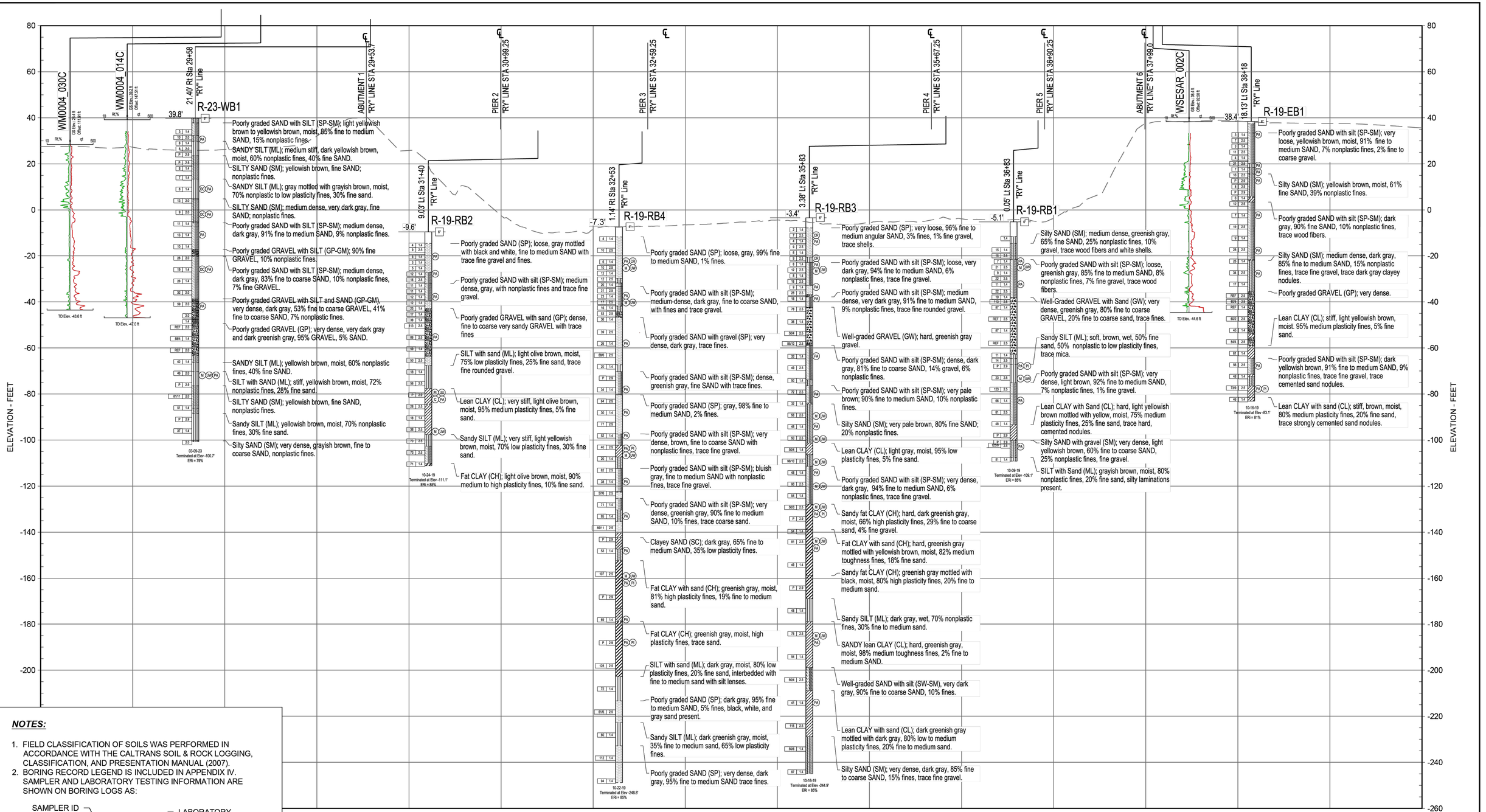
I STREET BRIDGE REPLACEMENT

SACRAMENTO AND YOLO COUNTIES, CALIFORNIA

LOG OF TEST BORINGS PLAN

PLATE NO.
1

RW-15
152 OF 648



NOTES:

1. FIELD CLASSIFICATION OF SOILS WAS PERFORMED IN ACCORDANCE WITH THE CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2007).
2. BORING RECORD LEGEND IS INCLUDED IN APPENDIX IV. SAMPLER AND LABORATORY TESTING INFORMATION ARE SHOWN ON BORING LOGS AS:

SAMPLER ID
1.4" ID = SPT
2.5" ID = STD CAL
2.87" ID = SHELBY

4 | 1.4
BLOW COUNT

PA
LABORATORY TESTING, REFER TO APPENDIX IV

3. STANDARD PENETRATION TESTS WERE PERFORMED IN ACCORDANCE WITH ASTM D 1586 USING AN AUTOMATED DROP SYSTEM.
4. IF LABORATORY TESTS ARE NOT SHOWN FOR A GIVEN SAMPLE, THE SOIL DESCRIPTIONS PRESENTED IN LOTB ARE BASED ON CRITERIA OUTLINED IN THE BORING RECORD LEGEND AS PART OF APPENDIX IV.
5. BORING LOCATIONS ARE APPROXIMATE.

HORIZONTAL SCALE, FEET
0 50 100
0 20 40
VERTICAL SCALE, FEET
NOTE: 2.5 VERTICAL EXAGGERATION

(NOT FOR CONSTRUCTION)

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

GEI Consultants
2868 PROSPECT PARK DRIVE
SUITE 400
RANCHO CORDOVA, CA 95670
(916)631-4500

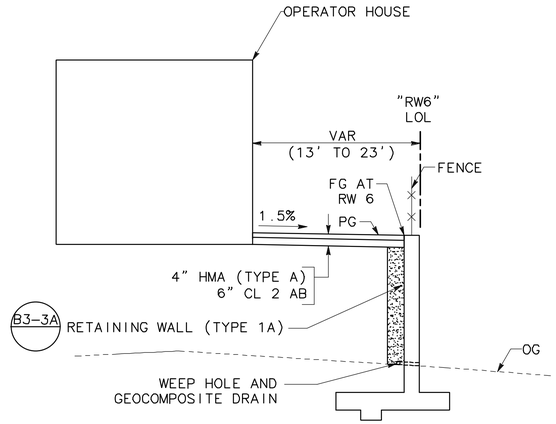
CITY OF SACRAMENTO
915 I STREET
ROOM 2000
SACRAMENTO, CA 95814

I STREET BRIDGE REPLACEMENT

SACRAMENTO AND YOLO COUNTIES, CALIFORNIA

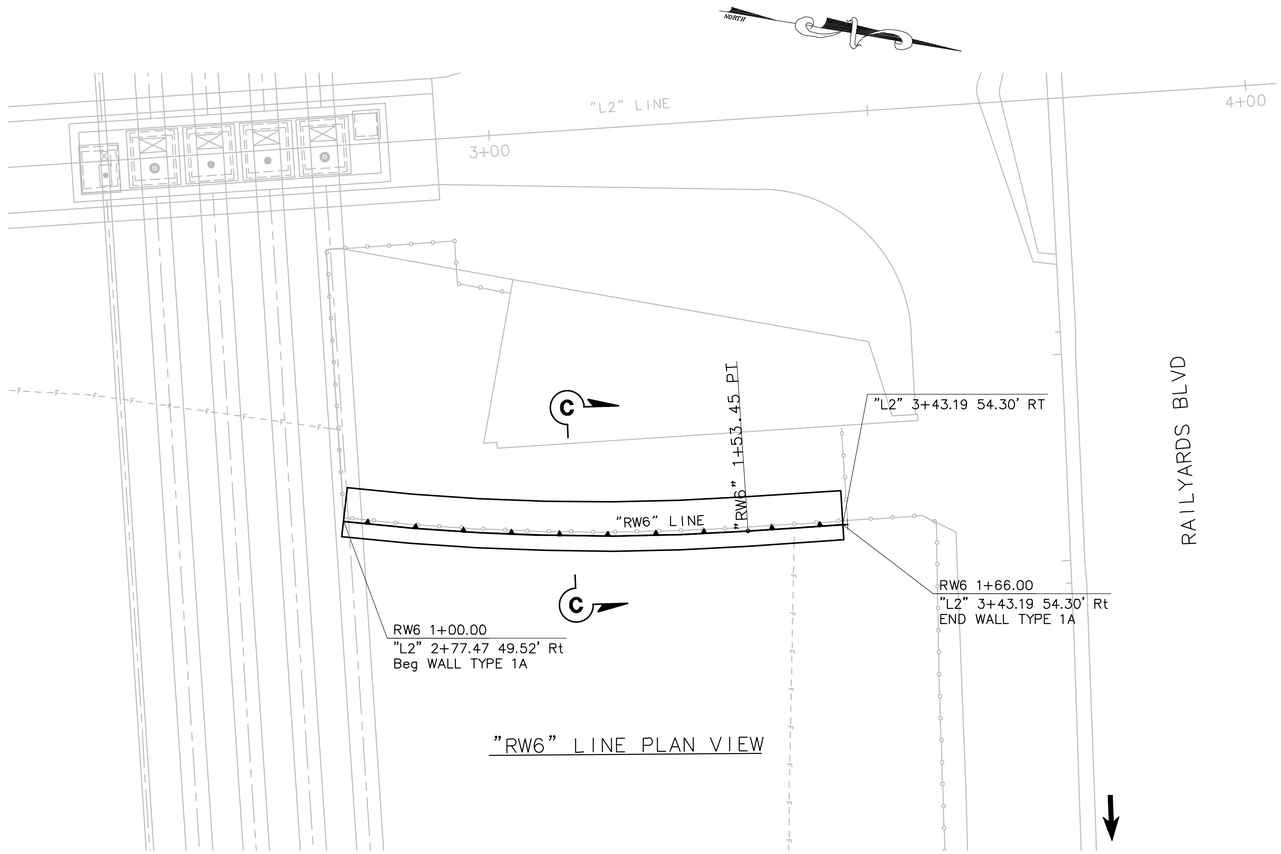
LOG OF TEST BORINGS PROFILE

PLATE NO.
2
RW-16
153 OF 648

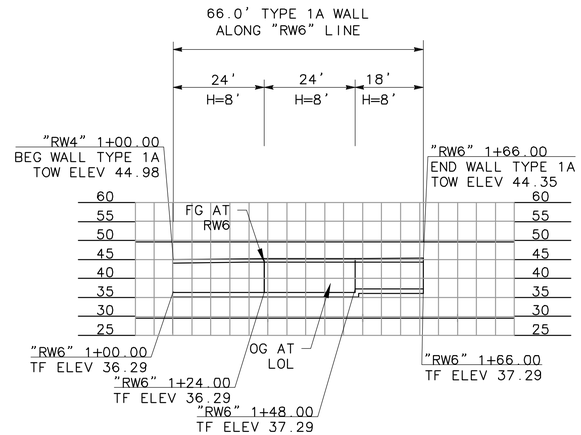


SECTION C-C

"RW6" STA 1+00.00 TO STA 1+66.00



"RW6" LINE PLAN VIEW



RETAINING WALL NO.6

REGISTERED PROFESSIONAL ENGINEER
KIRA CASELLI
No. 86464
Exp. 03/31/27
CIVIL
STATE OF CALIFORNIA

(NOT FOR CONSTRUCTION)

RW-17

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: ____ DATE NOVEMBER 2025
DESIGNED BY: ____ R.C.E. ____ DATE NOVEMBER 2025
CHECKED BY: ____ R.C.E. ____ DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

RETAINING WALL

T15136000

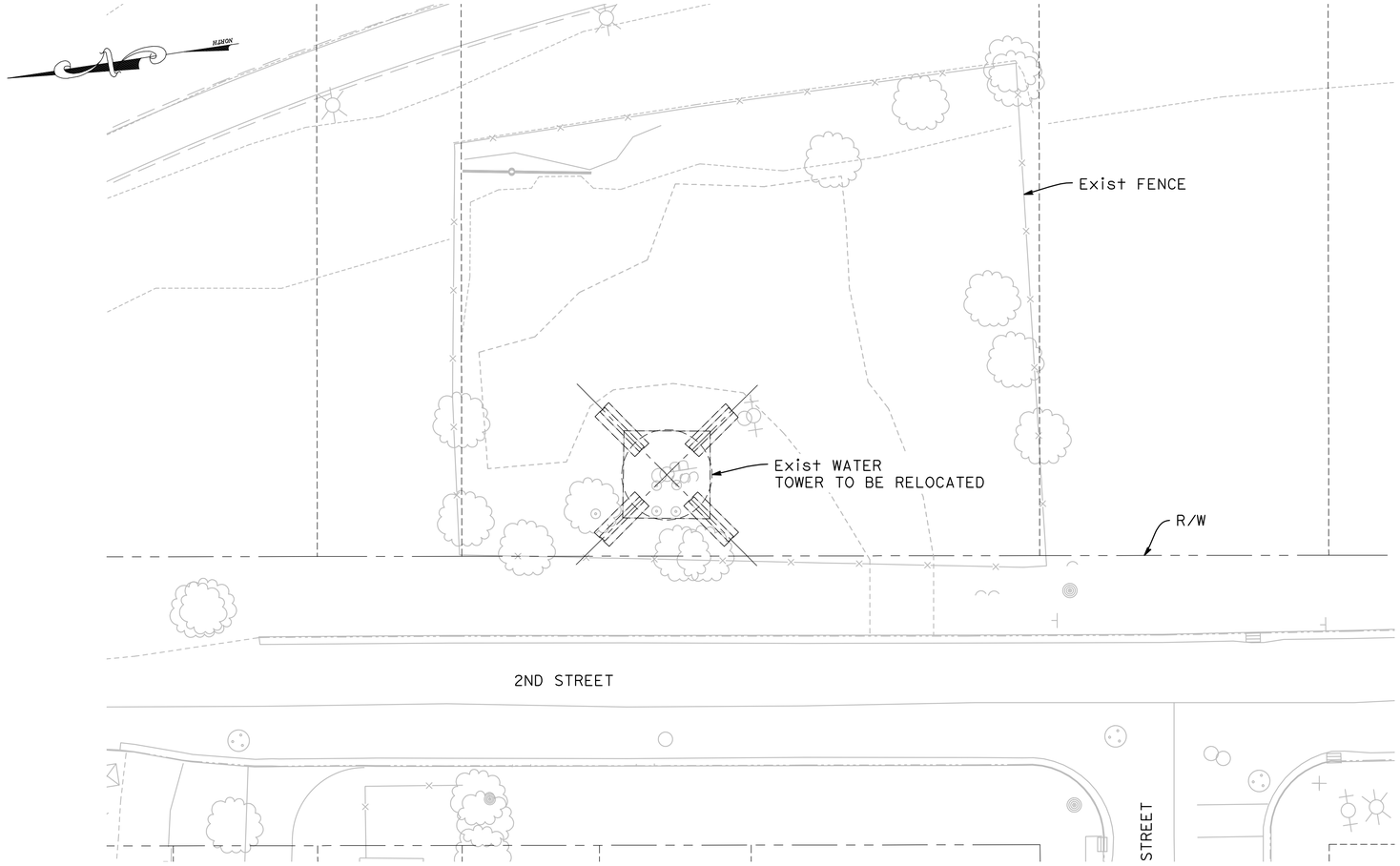
SHEET 154 — OF — 648

GENERAL NOTES:

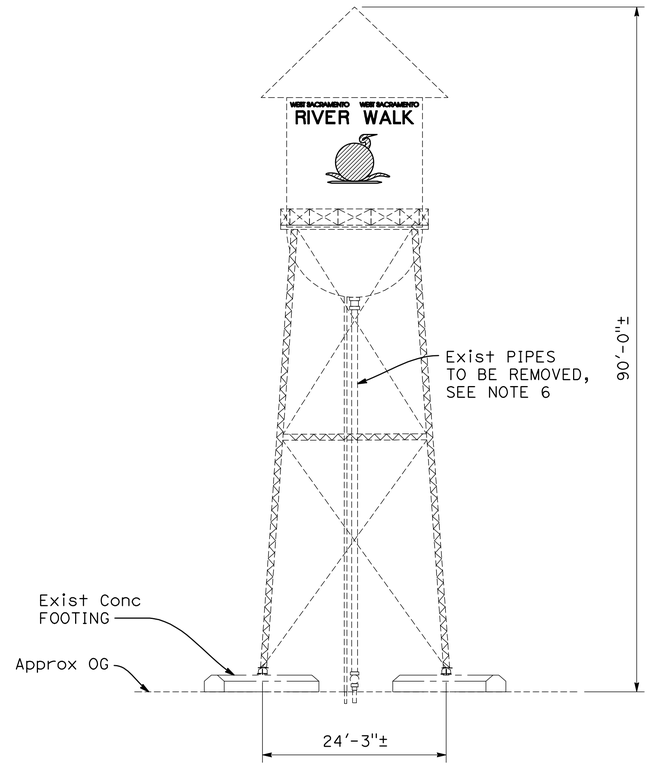
1. The Contractor is responsible for any analyses to lift and relocate the Water Tower. The Water Tower weight was approximated at 60 kips. Contractor to verify prior to relocation.
2. Water Tower must be empty prior to relocation. Contractor to ensure Water Tower is water-tight to prevent infiltration of water.
3. Dimensions assumed in the plans may differ from those in the field. Contractor must measure dimensions in the field and notify Engineer of any differences prior to relocating the Water Tower.
4. The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.
5. Water Tower base connections are to be removed prior to relocation and replaced in-kind.
6. Intake and distribution pipes, valves, and other components are to be removed and openings sealed to prevent water infiltration.

INDEX TO PLANS

SHEET No.	TITLE
WT-1	WATER TOWER RELOCATION PLAN
WT-2	WATER TOWER GENERAL PLAN
WT-3	WATER TOWER MISCELLANEOUS DETAILS No. 1
WT-4	WATER TOWER MISCELLANEOUS DETAILS No. 2



PLAN
1" = 20'



ELEVATION
1" = 10'

(NOT FOR CONSTRUCTION)

WT-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY
DATE 11/3/2025
DESIGNED BY: KYLE LUNDBLOM
R.C.E. 92686 DATE 9-30-2025
CHECKED BY: D MYACHIN
R.C.E. DATE

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
WATER TOWER RELOCATION PLAN

T15136000

SHEET 155 OF 648

GENERAL NOTES:

DESIGN: AASHTO LRFD Bridge Design Specifications, 8th edition and the California Amendments, preface dated April 2019.

DEAD LOAD: Self-Weight of Water Tank approximated as 60-kips and considered to be empty.

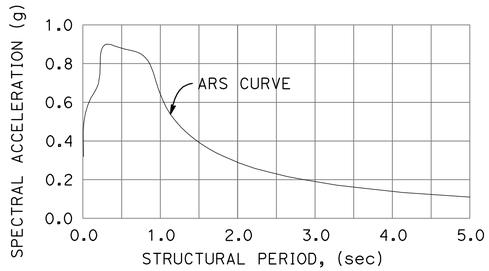
WIND LOAD: 110 mph

REINFORCED CONCRETE:
fy = 60 ksi
f'c = 4.0 ksi
n = 8

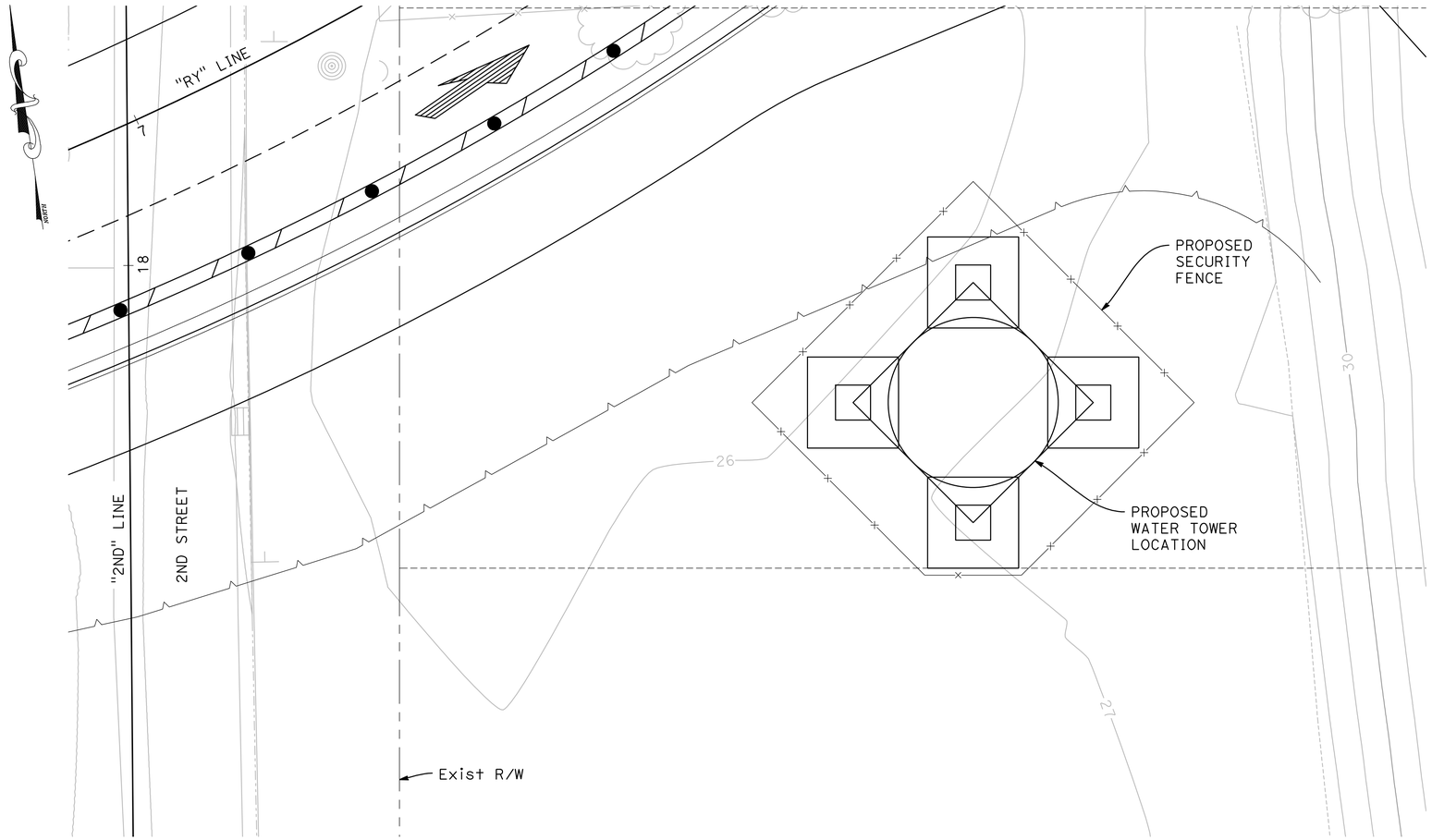
STRUCTURAL STEEL:
Base Plate - ASTM A36
Anchor Bolts - ASTM F1554, Grade 55

SOIL: See "FOUNDATION REPORT I ST BRIDGE (REPLACE)" prepared by GEI Consultants.

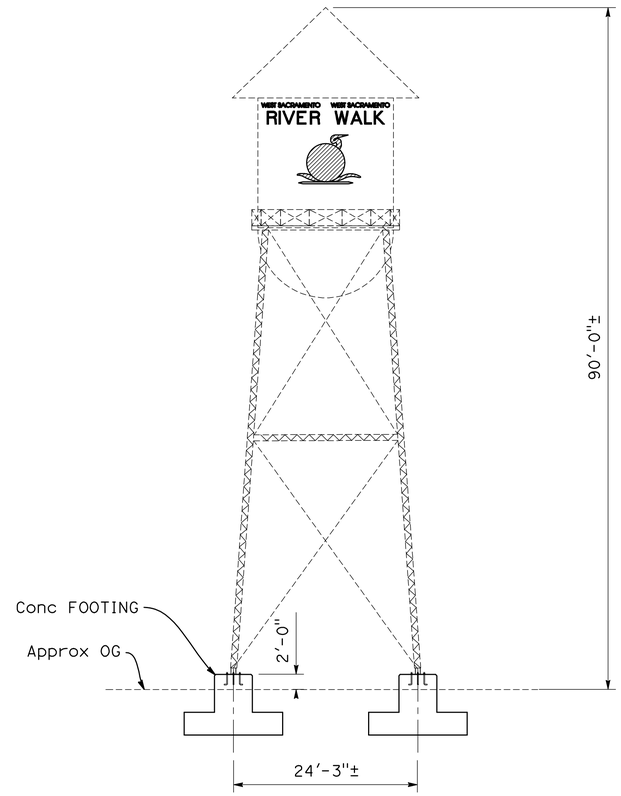
SEISMIC LOADING:
Soil Profile: Vs30 = 180 m/s (590 ft/s)
Moment Magnitude: 6.64
Peak Groud Acceleration: 0.32g
See ARS Curve



ARS DESIGN CURVE
5% Damping



PLAN
1" = 20'



ELEVATION
1" = 10'

(NOT FOR CONSTRUCTION)

WT-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE HORIZ. AS NOTED VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

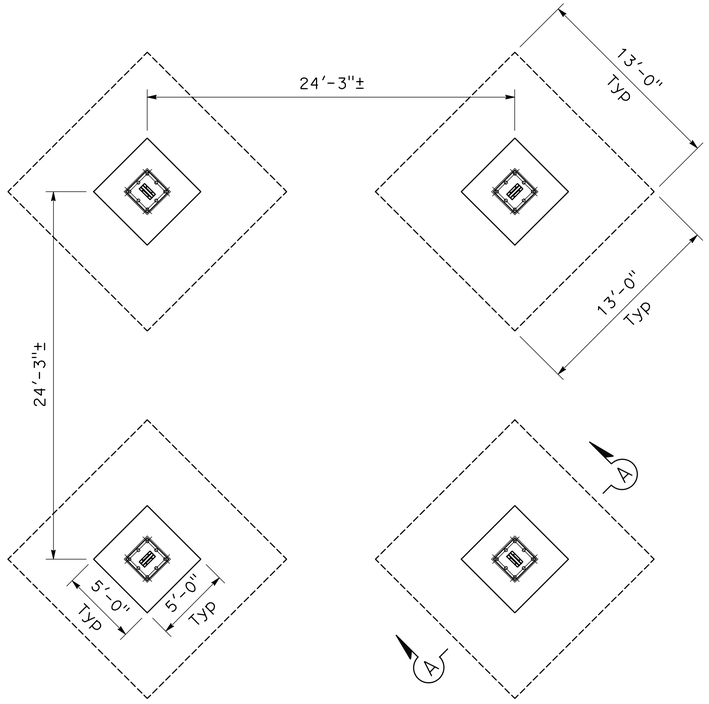
DRAWN BY: J. DOTY DATE 11/3/2025
DESIGNED BY: KYLE LUNDBLOM R.C.E. 92686 DATE 9-30-2025
CHECKED BY: D MYACHIN R.C.E. ____ DATE ____

MARK THOMAS
UNDER THE SUPERVISION OF: JASON BRADFORD HICKEY
R.S.E. S 5783 EXP. 6-30-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
WATER TOWER
GENERAL PLAN

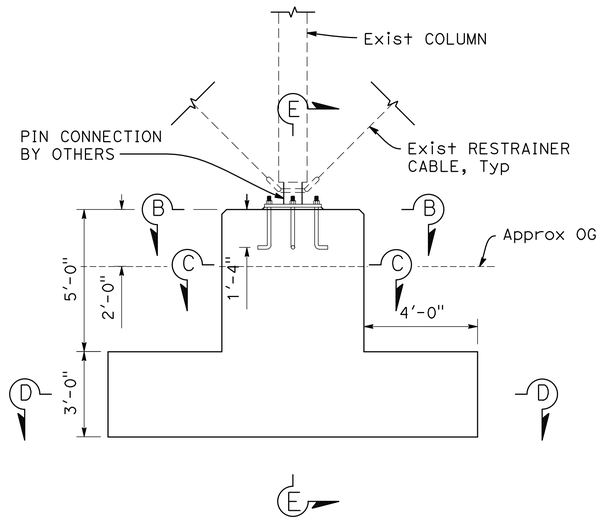
T15136000

SHEET 156 — OF — 648



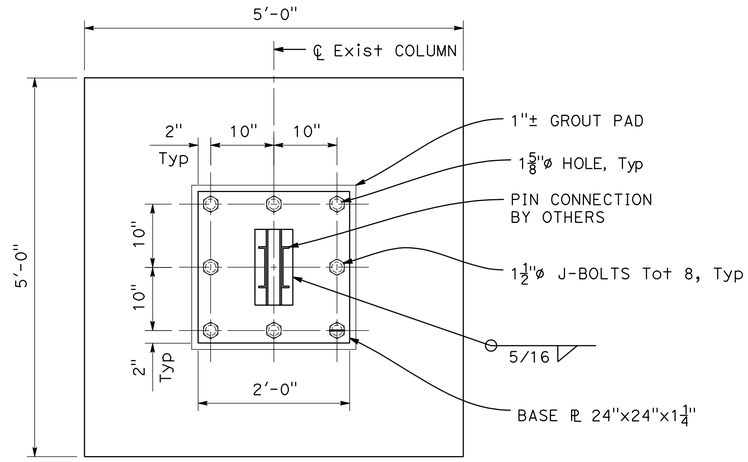
PLAN - FOOTING LAYOUT

1" = 5'



VIEW A-A

3/8" = 1'-0"



VIEW B-B

1" = 1'-0"

(NOT FOR CONSTRUCTION)

WT-3

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY
DATE 11/3/2025

DESIGNED BY: KYLE LUNDBLOM
R.C.E. 92686 DATE 9-30-2025

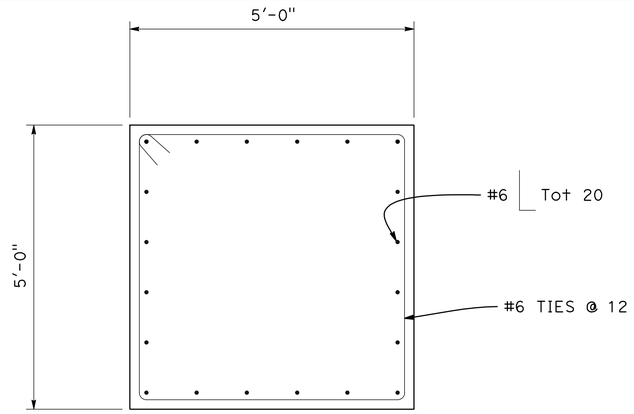
CHECKED BY: D MYACHIN
R.C.E. ____ DATE ____

MARK THOMAS
UNDER THE SUPERVISION OF:
JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

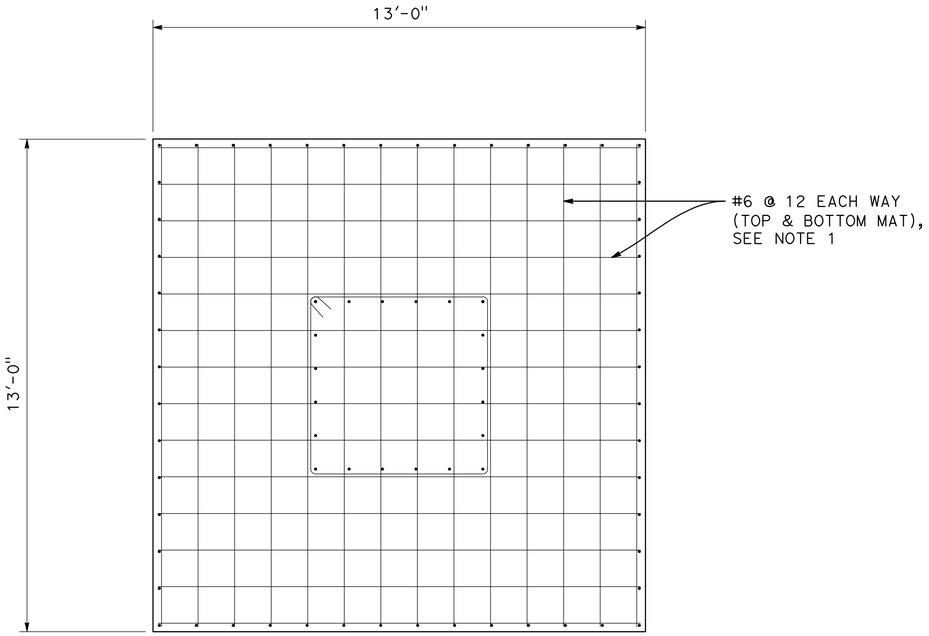
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
WATER TOWER
MISCELLANEOUS DETAILS No. 1

T15136000

SHEET 157 OF 648



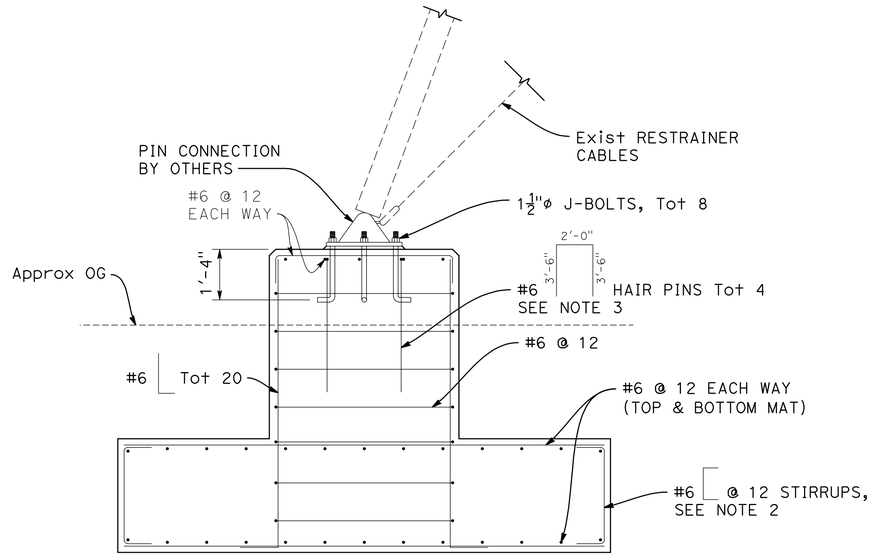
VIEW C-C
3/4" = 1'-0"



VIEW D-D
1/2" = 1'-0"

NOTES:

1. Adjust footing mat reinforcement as needed to avoid pedestal reinforcement and ties.
2. Stirrups are to be provided around the footing perimeter and tied with footing mat reinforcement.
3. Hairpins are to be placed over the top mat of pedestal reinforcement and saddle the J-Bolt hooks.
4. Contractor is permitted to place any additional reinforcement required to stabilize the J-Bolts.



VIEW E-E
1/2" = 1'-0"

(NOT FOR CONSTRUCTION)

WT-4

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. AS NOTED
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: J. DOTY
DATE 11/3/2025

DESIGNED BY: KYLE LUNDBLOM
R.C.E. 92686 DATE 9-30-2025

CHECKED BY: D MYACHIN
R.C.E. ____ DATE ____

MARK THOMAS
UNDER THE SUPERVISION OF:
JASON BRADFORD HICKEY
R.S.E. S 5783
EXP. 6-30-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WATER TOWER MISCELLANEOUS DETAILS No. 2

T15136000

SHEET 158 OF 648

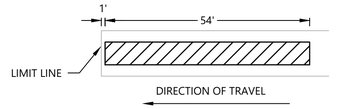
PLOT DATE: 11/3/2025 5:59:52 PM

CITY OF SACRAMENTO GENERAL NOTES:

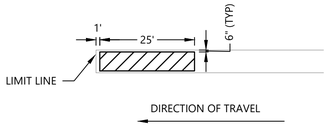
1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CURRENT EDITION OF THE CITY OF SACRAMENTO STANDARD SPECIFICATIONS (INCLUDING REVISIONS), THE LATEST CITY OF SACRAMENTO TRAFFIC SIGNAL STANDARDS AND LATEST CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS (INCLUDING REVISIONS), AS SHOWN HEREON, AND IN THE SPECIAL PROVISIONS, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL OBTAIN AND USE ALL APPLICABLE ADDENDUMS.
2. THE CONTRACTOR SHALL BE IN RECEIPT OF CITY ACCEPTED PLANS PRIOR TO BEGINNING CONSTRUCTION WITHIN THE STREET RIGHT-OF-WAY. ACCEPTANCE OF PLANS BY THE CITY OF SACRAMENTO IS BASED ON THE ASSUMPTION THAT THE INFORMATION CONTAINED ON THE PLANS AND SUPPORTING DOCUMENTS IS CORRECT, AND DOES NOT SUBROGATE THE DESIGN ENGINEER'S RESPONSIBILITY FOR THIS PROJECT.
3. CONTACT THE CITY OF SACRAMENTO CONSTRUCTION SECTION AT (916)808-8300 TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FOR THE PROTECTION OF AND REPAIR OF DAMAGE TO THEM. CONTACT UNDERGROUND SERVICE ALERT 1-800-642-2444, 48 HOURS BEFORE WORK IS TO BEGIN.
5. RESPONSIBILITY FOR FINAL ACCEPTANCE OF LINE AND GRADE BY THE CITY OF SACRAMENTO WILL BE ASSUMED ONLY IF CONSTRUCTION STAKES ARE SET BY THE CITY SURVEY CREWS OR THEIR DESIGNATED REPRESENTATIVE. CITY WILL SET CONSTRUCTION STAKES ONLY IF SO INDICATED ON THE "NOTICE TO PROCEED" WITH CONSTRUCTION ISSUED FOR THIS PROJECT. CONTACT CITY OF SACRAMENTO CONSTRUCTION SECTION TWO (2) WORKING DAYS IN ADVANCE FOR CONSTRUCTION STAKES WITHIN PUBLIC RIGHT-OF-WAY.
6. FOR ALL TRENCH EXCAVATIONS 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY (2424 ARDEN WAY, SUITE 165, SACRAMENTO, 95825 - PHONE (916)263-2800) PRIOR TO BEGINNING ANY EXCAVATION. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNS, BRIDGES, BARRICADES, FLAGMEN, AND OTHER FACILITIES TO ADEQUATELY SAFEGUARD THE GENERAL PUBLIC AND WORK, AND TO PROVIDE FOR THE PROPER ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC. CONSTRUCTION OPERATIONS SHALL COMPLY WITH THE WORK AREA AND TRAFFIC CONTROL HANDBOOK (WATCH). THE CONTRACTOR SHALL PROVIDE TO THE CITY TRAFFIC ENGINEER FOR REVIEW, A PLAN SHOWING TRAFFIC CONTROL MEASURES AND/OR DETOURS FOR VEHICLES AFFECTED BY THE CONSTRUCTION WORK. THE APPROVED PLAN SHALL BE DELIVERED TO THE CONSTRUCTION INSPECTOR PRIOR TO THE IMPLEMENTATION OF TRAFFIC CONTROL MEASURES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING RECORD DRAWINGS FOR ALL WORK THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND GRADE (CITY DATUM) OF ALL UNDERGROUND IMPROVEMENTS CONSTRUCTED AND SHALL BE DELIVERED TO THE CONSTRUCTION INSPECTOR PRIOR TO, AND IN CONSIDERATION OF, THE CITY'S ACCEPTANCE OF WORK.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION.
10. IF UNUSUAL AMOUNTS OF BONE, STONE OR ARTIFACTS ARE UNCOVERED, WORK WITHIN 50 METERS OF THE AREA SHALL CEASE IMMEDIATELY AND A QUALIFIED ARCHAEOLOGIST SHALL BE CONSULTED TO DEVELOP, IF NECESSARY, MITIGATION MEASURES TO REDUCE ANY ARCHAEOLOGICAL IMPACT TO A LESS THAN SIGNIFICANT EFFECT BEFORE CONSTRUCTION RESUMES IN THE AREA.
11. CONTRACTOR SHALL BLOW OUT AND CLEAN EXISTING CONDUITS WITHIN THE INTERSECTION, AND ADDITIONAL CONDUIT THAT WILL BE USED IN CONSTRUCTING THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY BROKEN CONDUIT AS REQUIRED BY THE ENGINEER.
12. IF WORK SHOWN ON THESE PLANS HAS NOT COMMENCED WITHIN TWO YEARS FROM THE DATE OF THE CITY'S ACCEPTANCE OF THE PLANS, A SUBSEQUENT PLAN REVIEW AT THE CITY'S DISCRETION MAY BE NECESSARY.
13. CONTRACTOR SHALL COMPLY WITH THE CITY OF SACRAMENTO ADMINISTRATIVE AND TECHNICAL PROCEDURES MANUAL FOR GRADING/EROSION AND SEDIMENT CONTROL.
14. COMPACTION OF TRENCH BACKFILL BY MEANS OF JETTING IS NOT PERMITTED WITHIN THE CITY OF SACRAMENTO UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CITY ENGINEER.
15. SIGNAL STANDARD, CONDUIT, , AND DETECTION ZONE LOCATIONS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
16. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
17. ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED.
18. ES LOCATED AT STREET CORNERS SHALL NOT BE PLACED WITHIN THE WHEELCHAIR RAMP.
19. DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING IMPROVEMENTS DAMAGED BY HIS OPERATIONS, AT HIS EXPENSE.
20. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR CAPPING AND RELOCATING EXISTING SPRINKLERS AS DIRECTED BY THE ENGINEER.
21. UNLESS OTHERWISE SPECIFIED, ALL NEW ES SHALL BE No. 6.
22. ALL NEW CONDUIT SHALL HAVE A MINIMUM OF 24" OF COVER.
23. ALL VEHICLE SIGNAL BACKPLATES SHALL INCLUDE A 2" RETROREFLECTIVE BORDER.

CITY OF WEST SACRAMENTO GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL CONFORM TO CITY OF WEST SACRAMENTO STANDARD SPECIFICATIONS AND DETAILS DATED MARCH 2002 AND LATEST AMENDMENTS AS APPLICABLE, THE LATEST STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND PLANS AND LATEST REVISIONS, AND THE SPECIAL PROVISIONS.
2. ALL ELECTRICAL EQUIPMENT INCLUDING CONDUITS AND ES ARE SHOWN AT APPROXIMATE LOCATIONS ONLY AND MINOR CHANGES MAY BE MADE AS DIRECTED BY THE ENGINEER. CHANGES MADE TO THE SIGNALS SHALL BE APPROVED BY THE CITY OF WEST SACRAMENTO.
3. ALL ES SHALL BE LOCATED IN SIDEWALK WHERE APPLICABLE.
4. ALL VEHICLE SIGNAL FACES SHALL BE 12" IN DIAMETER.
5. ALL VEHICLE AND PEDESTRIAN SIGNAL FACES SHALL BE LED.
6. N48 PULL BOXES SHALL BE USED FOR INTERCONNECT SYSTEM. PULL BOX LIDS SHALL BE MARKED "INTERCONNECT".
7. ALL PEDESTRIAN SIGNALS SHALL BE FULL FIGURE COUNT-DOWN MODEL.
8. SIGNAL STANDARD, CONDUIT, , AND DETECTION ZONE LOCATIONS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
9. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
10. ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED.
11. ES LOCATED AT STREET CORNERS SHALL NOT BE PLACED WITHIN THE WHEELCHAIR RAMP.
12. UNLESS OTHERWISE SPECIFIED, ALL NEW ES SHALL BE No. 6.
13. ALL NEW CONDUIT SHALL HAVE A MINIMUM OF 24" OF COVER.
14. ALL VEHICLE SIGNAL BACKPLATES SHALL INCLUDE A 2" RETROREFLECTIVE BORDER.



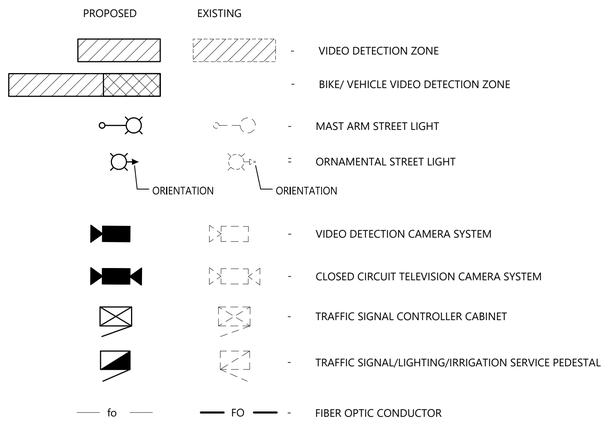
VEHICLE DETECTION DETAIL
NOT TO SCALE



BIKE DETECTION DETAIL
NOT TO SCALE

NOTE: DETECTION ZONES SHALL BE CONFIRMED WITH CITY OF WEST SACRAMENTO. CONTRACTOR SHALL HAVE DETECTION CAMERA SYSTEM REPRESENTATIVE ON SITE FOR ZONE SET-UP.

LEGEND



CITY OF WEST SACRAMENTO VIDEO DETECTION ZONES

ABBREVIATIONS

PG&E - PACIFIC GAS & ELECTRIC

##FOC - ## STRAND FIBER OPTIC CABLE

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-1

CAD FILE: 3220_TS.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: E. MORI DATE 11/03/25
DESIGNED BY: D. MURPHY DATE 11/03/25
CHECKED BY: K. CALIA R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd Suite 255, Roseville, CA 95678 (916) 773-1900
UNDER THE SUPERVISION OF: KRISTIN CALIA R.C.E. _____ EXP. _____

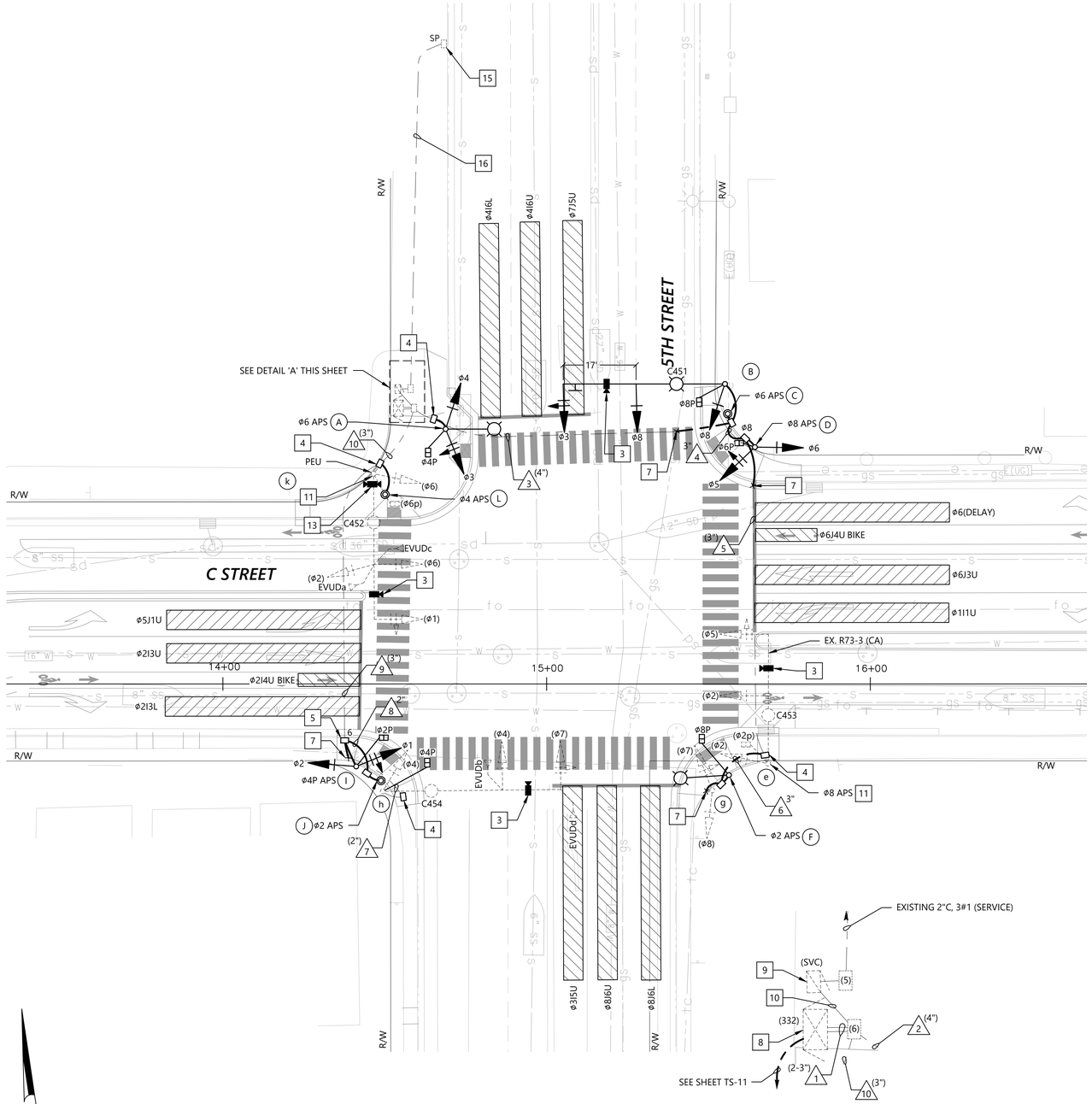
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TRAFFIC SIGNAL COVER SHEET

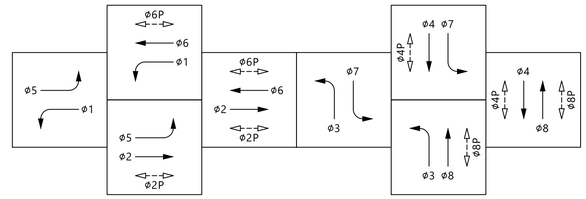
T15136000

SHEET 159 OF 648

PLOT DATE: 11/3/2025 5:59:57 PM



DETAIL A
NO SCALE



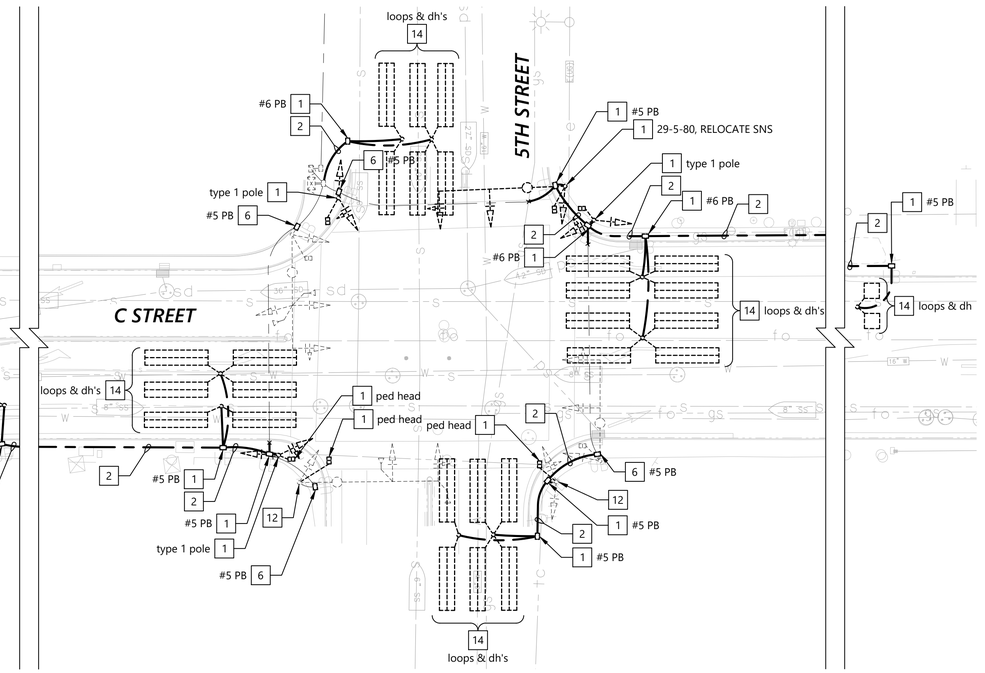
PHASE DIAGRAM
STEADY DEMAND SEQUENCE --->

EMERGENCY VEHICLE PREEMPTION
EVUDa = ø2 + ø5
EVUDb = ø4 + ø7
EVUDc = ø1 + ø6
EVUDd = ø3 + ø8

DESIGN SPEED
5TH STREET = 30 MPH
C STREET = 25 MPH

PROJECT NOTES (TS-2 AND TS-3):

1. EQUIPMENT OR MATERIAL TO BE REMOVED. SALVAGE SIGNAL MAST ARM POLES AND 12" TRAFFIC SIGNAL HEADS. ALL OTHER REMOVED EQUIPMENT TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. ABANDON CONDUIT AND REMOVE CONDUCTORS.
3. FURNISH AND INSTALL ITERIS VANTAGE VECTOR HYBRID CAMERA ON SIGNAL MAST ARM.
4. INSTALL CONDUIT INTO NEW PULL BOX.
5. INSTALL PULL BOX BY INTERCEPTING EXISTING CONDUIT.
6. REMOVE AND REPLACE WITH NEW PULL BOX.
7. INTERCEPT AND EXTEND EXISTING CONDUIT.
8. EXISTING MODEL 332 CONTROLLER CABINET WITH MODEL 170 CONTROLLER ASSEMBLY WITH EVP PHASE SELECTOR. FURNISH AND INSTALL VIDEO DETECTION PROCESSOR, NETWORK SWITCH, AND FIBER PATCH PANEL IN CABINET, AND REQUIRED POWER SUPPLIES AND CABLES.
9. EXISTING TYPE III-AF SERVICE ENCLOSURE.
10. EXISTING 3#14 (PEU), 3#14 (SPARE), 5#8 (LIGHTING), 2#4 (SERVICE).
11. REPLACE PEDESTRIAN PUSH BUTTON.
12. REMOVE PEDESTRIAN PUSH BUTTON AND FILL HOLES.
13. FURNISH AND INSTALL AVIGILON H5A MULTISENSOR CAMERA ON SIGNAL POLE.
14. EQUIPMENT OR MATERIAL TO BE ABANDONED.
15. EXISTING (120/240 V) SECONDARY BOX. APPROXIMATELY 107' FROM SERVICE ENCLOSURE.
16. EXISTING 2"C, 3#1 (SERVICE).



EQUIPMENT REMOVAL DETAIL
SCALE: 1"=30'
EQUIPMENT SHOWN IN BOLD IS TO BE REMOVED.

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-2

CAD FILE: 3220_TS.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI DATE 11/03/25
DESIGNED BY: D. MURPHY DATE 11/03/25
CHECKED BY: K. CALIA R.C.E. 62461 DATE 11/03/25

FEHR PEERS
1013 Galleria Blvd Suite 255 Roseville, CA 95678 (916) 773-1900
UNDER THE SUPERVISION OF: KRISTIN CALIA R.C.E. _____ EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
WEST SACRAMENTO TRAFFIC SIGNAL MODIFICATION
5TH STREET AND C STREET

T15136000

SHEET 160 — OF — 648

PLOT DATE: 11/3/2025 5:59:58 PM

CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS — RUN NUMBER									
		1	2	3	4	5	6	7	8	9	10
NO. 14	ø1	3								3	3
	ø2	6	3	3	3	3				3	3
	ø3	3	3	3							
	ø4	6	3					3		3	3
	ø5	3	3	3	3	3					
	ø6	6	3	3	3						3
	ø7	6	3	3	3	3	3	3		3	3
	ø8	3	3	3	3	3	3				
	ø2P	4	2	2	2	2				2	2
	ø4P	4	2					2		2	2
	ø6P	4	2	2	2						2
	ø8P	2	2	2	2	2	2				
	ø2APS	4	2	2	2	2	2		2	2	2
	ø4APS	2								2	2
	ø6APS	2	2	2							
	ø8APS	2	2	2	2	2					
	APS COMMON	1	1	1	1	1	1		1	1	1
	PEU										3
	SPARES	6	3	3	3	3	3	3	3	3	3
	TOTAL	67	39	34	29	24	14	11	6	24	32
NO. 8	LIGHTING		2	2	2	2	2	2		2	2
	SIGNAL COMMON	1	1	1	1	1	1	1		1	1
	TOTAL	1	3	3	3	3	3	3		3	3
NO. 4	SERVICE	(2)									
EVP	EVUDa	(1)									(1)
	EVUDb	(1)						(1)		(1)	(1)
	EVUDc	(1)									(1)
	EVUDd	(1)						(1)		(1)	(1)
	TOTAL	(4)						(2)		(2)	(4)
VIDEO DETECTION CABLE		4	2	2	1	1		1		1	2
CCTV CAT6E CABLE		1									1
CONDUIT SIZE		EX 2-3"	EX 4"	EX 4"	N 3"	EX 3"	N 3"	EX 2"	N 2"	EX 3"	EX 3"
PERCENT FILL		17	9	9	12	11	6	19	4	13	20

NOTES: ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED. (XX) INDICATES EXISTING EQUIPMENT TO REMAIN.

EQUIPMENT SCHEDULE

LOCATION	STANDARD			LED LUMINAIRE	VEHICLE SIGNAL MOUNTING		PEDESTRIAN SIGNAL MOUNTING	APS		SNS LEGEND	NOTES
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM		MAST ARM	POLE		Ø	ARROW		
(A)	15TS	—	15'-0"	90 LED	—	SV-2-TA	SP-1-T	6	→	—	
(B)	29-5-100	50'-0"	15'-0"	90 LED	MAT MAS	SV-1-T	SP-1-T	—	—	(C St)	[3] RELOCATE EXISTING SNS.
(C)	TYPE 2 POST	—	—	—	—	—	—	6	←	—	
(D)	1-B	—	—	—	—	TV-2-T	SP-1-T	8	→	—	
(e)	(26-4-80)	(40'-0")	(15'-0")	90 LED	(mat) (mas)	(sv-1-t)	(sp-1-t)	8	←	(5th St)	[3] [11]
(F)	15TS	—	15'-0"	90 LED	—	—	SP-1-T	2	→	—	
(g)	(1-b)	—	—	—	—	(tv-2-t)	—	—	—	—	[12] REMOVE PEDESTRIAN SIGNAL HEAD.
(h)	(29-5-80)	(55'-0")	(15'-0")	90 LED	(mat) (mas)	(sv-1-t)	(sp-1-t)	—	—	(C St)	[3] [12] REPLACE PEDESTRIAN SIGNAL HEAD.
(I)	1-B	—	—	—	—	TV-2-T	SP-1-T	4	→	—	
(J)	TYPE 2 POST	—	—	—	—	—	—	2	←	—	
(k)	(29-5-80)	(45'-0")	(15'-0")	90 LED	(mat) (mas) (mas)	(sv-1-t)	(sp-1-t)	—	—	(5th St)	[3] [11] [13]
(L)	TYPE 2 POST	—	—	—	—	—	—	4	←	—	

NOTE: REFER TO **2025** CALTRANS STANDARD PLANS FOR NEW TRAFFIC SIGNAL AND STREET LIGHTING POLE TYPES.
REFER TO SHEET TS-2 FOR PROJECT NOTES.
(XX) INDICATES EXISTING EQUIPMENT TO REMAIN. ALL OTHER EQUIPMENT SHALL BE NEW.

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-3

CAD FILE: 3220_TS.dwg

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI DATE 11/03/25
DESIGNED BY: D. MURPHY DATE 11/03/25
CHECKED BY: K. CALIA R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd Suite 255
Roseville, CA 95678
(916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA R.C.E. _____ EXP. _____

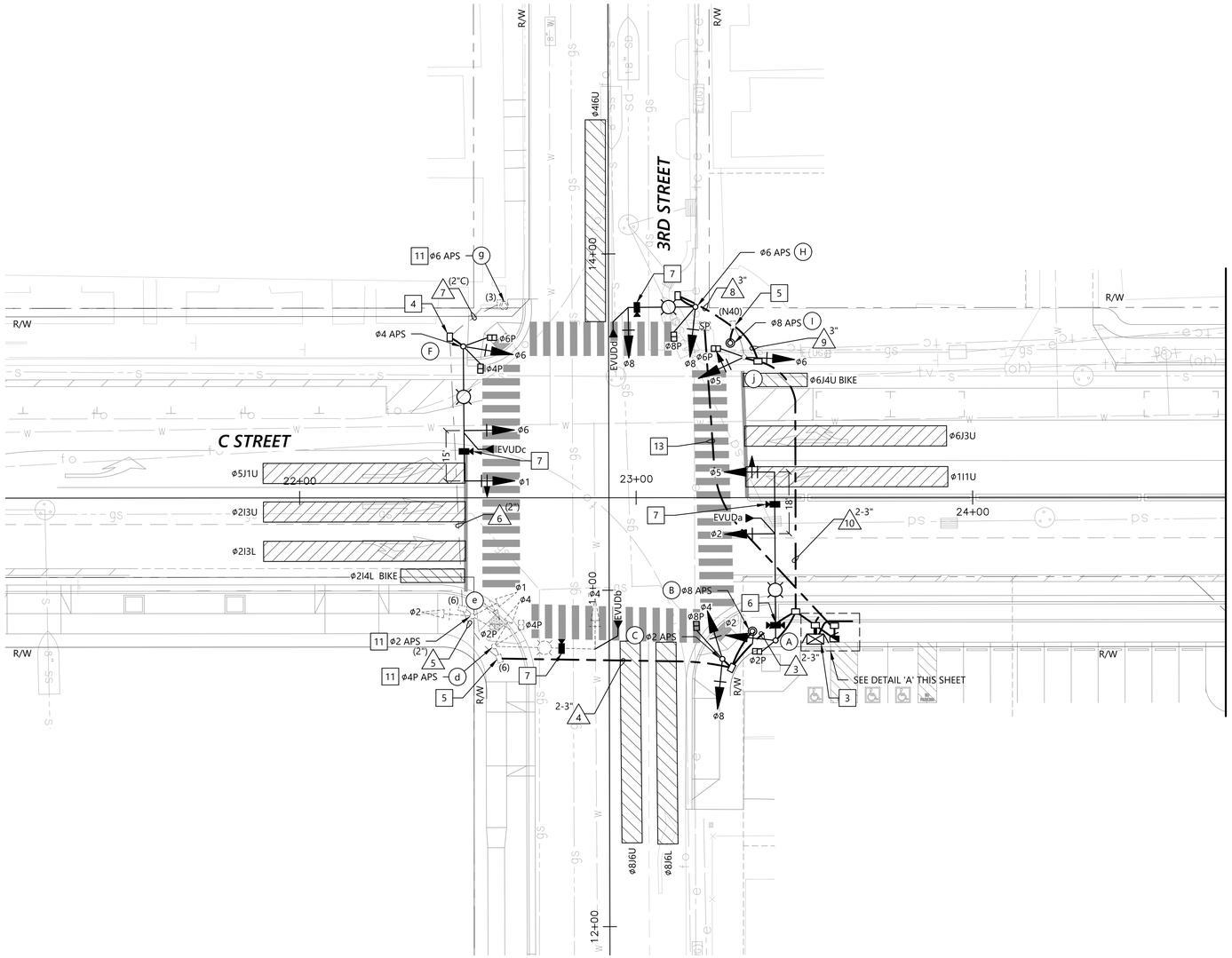
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

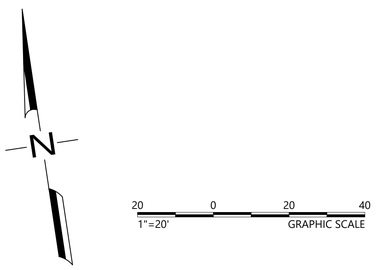
WEST SACRAMENTO TRAFFIC SIGNAL MODIFICATION 5TH STREET AND C STREET

T15136000

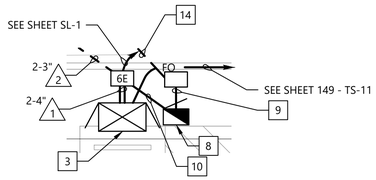
SHEET 161 — OF — 648

PLOT DATE: 11/3/2025 6:00:02 PM

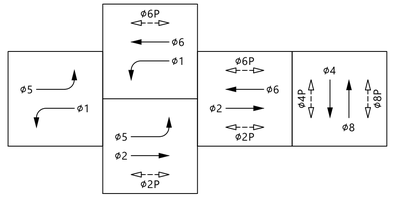




20 0 20 40
1"=20' GRAPHIC SCALE



DETAIL A
NO SCALE



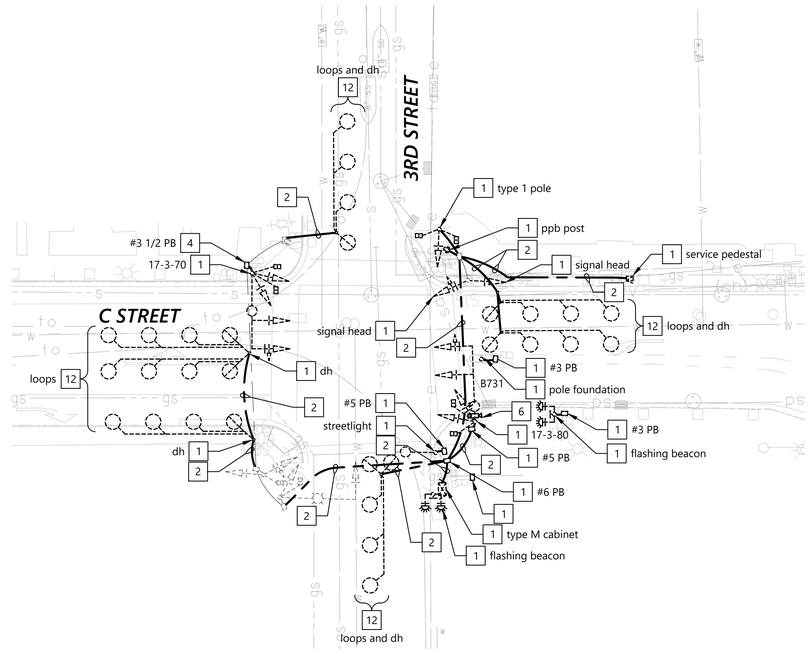
PHASE DIAGRAM
STEADY DEMAND SEQUENCE --->

EMERGENCY VEHICLE PREEMPTION
EVUDa = ø2 + ø5
EVUDb = ø4 + ø7
EVUDc = ø1 + ø6
EVUDd = ø3 + ø8

DESIGN SPEED
3RD STREET = 30 MPH
C STREET = 25 MPH

PROJECT NOTES (TS-4 AND TS-5):

1. EQUIPMENT OR MATERIAL TO BE REMOVED. SALVAGE SIGNAL MAST ARM POLES AND 12" TRAFFIC SIGNAL HEADS. ALL OTHER REMOVED EQUIPMENT TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. ABANDON CONDUIT AND REMOVE CONDUCTORS.
3. FURNISH AND INSTALL TYPE 332A CABINET WITH ECONOLITE COBALT CONTROLLER AND EOS SOFTWARE. PHASING AND OPERATIONS PER PHASE DIAGRAM ON THIS SHEET.
4. REMOVE AND REPLACE WITH NEW PULL BOX.
5. INSTALL CONDUIT INTO EXISTING PULL BOX.
6. RELOCATE EXISTING AVIGILON H5A MULTISENSOR CAMERA TO NEW SIGNAL POLE.
7. FURNISH AND INSTALL ITERIS VANTAGE VECTOR HYBRID CAMERA ON SIGNAL MAST ARM.
8. FURNISH AND INSTALL 27-22BBS METER TESCOFLEX SERVICE EQUIPMENT ENCLOSURE WITH UPS (DUAL CONVERSION) 1500VA (MINIMUM) SYSTEM AND FOUNDATION. SEE WIRING DIAGRAM ON SHEET 143 - TS-5.
9. PLACE 3"C, 3#2 (120/240V SERVICE).
10. PLACE 3"C, 3#14 (SPARE), 5#8 (LIGHTING), 2#6 (SERVICE).
11. REPLACE PEDESTRIAN PUSH BUTTON.
12. EQUIPMENT OR MATERIAL TO BE ABANDONED.
13. PLACE 2"C, 3#2 (120/240V SERVICE).



EQUIPMENT REMOVAL DETAIL
SCALE: 1"=30'
EQUIPMENT SHOWN IN BOLD IS TO BE REMOVED.

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-4

CAD FILE: 3220_TS.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI DATE 11/03/25
DESIGNED BY: D. MURPHY DATE 11/03/25
CHECKED BY: K. CALIA R.C.E. 62461 DATE 11/03/25

FEHR PEERS
1013 Galleria Blvd Suite 255 Roseville, CA 95678 (916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA R.C.E. _____ EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
WEST SACRAMENTO TRAFFIC SIGNAL MODIFICATION
3RD STREET AND C STREET

T15136000

SHEET 162 — OF — 648

PLOT DATE: 11/3/2025 6:00:03 PM

CONDUCTOR SCHEDULE

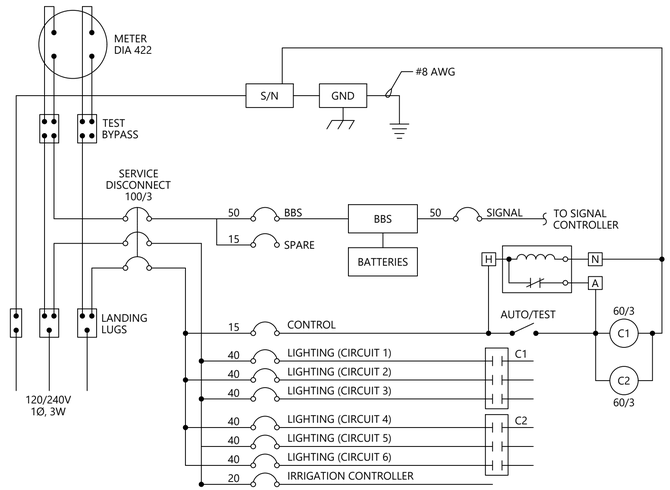
AWG OR CABLE	CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS — RUN NUMBER 1	2	3	4	5	6	7	8	9	10
NO. 14	ø1	3	3	3	3	3	3				
	ø2	3	3	3	3	3					
	ø4	3	3	3	3						
	ø5	3	3								3
	ø6	6	6	3	3	3	3				3
	ø8	6	6	3					3	3	3
	ø2P	2	2	2	2	2					
	ø4P	2	2	2	2	2	2				
	ø6P	4	4	2	2	2	2				2
	ø8P	4	4	2					2	2	2
	ø2APS	2	2	2	2	2					
	ø4APS	2	2	2	2	2	2				
	ø6APS	4	4	2	2	2	2	2	2	2	2
	ø8APS	4	4	2						2	2
	APS COMMON	1	1	1	1	1	1	1	1	1	1
	SPARES	6	6	3	3	3	3	3	3	3	3
	TOTAL	55	55	35	28	25	18	6	11	13	21
NO. 6	SERVICE	2									
NO. 8	LIGHTING		2	2	2	2	2		2	2	2
	SIGNAL COMMON	1	1	1	1	1	1		1	1	1
	TOTAL	1	3	3	3	3	3		3	3	3
EVP	EVUDa	1	1								
	EVUDb	1	1	1	1						
	EVUDc	1	1	1	1	1	1				
	EVUDd	1	1						1	1	1
	TOTAL	4	4	2	2	1	1		1	1	1
VIDEO DETECTION CABLE		4	4	2	2	1	1		1	1	1
CCTV CAT6E CABLE		1	1								
CONDUIT SIZE		N 2-4"	N 2-3"	N 2-3"	N 2-3"	EX. 2"	EX. 2"	EX 2"	N 3"	N 3"	N 2-3"
PERCENT FILL		9	15	17	4	25	21	4	8	8	5

NOTES: ALL EQUIPMENT IS NEW, UNLESS OTHERWISE NOTED. (XX) INDICATES EXISTING EQUIPMENT TO REMAIN.

EQUIPMENT SCHEDULE

LOCATION	STANDARD — TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	LED LUMINAIRE	VEHICLE SIGNAL MOUNTING — MAST ARM	POLE	PEDESTRIAN SIGNAL MOUNTING	PED PUSH BUTTON — Ø	ARROW	SNS LEGEND	NOTES
A	29-5-100	50'-0"	15'-0"	90 LED	MAT MAS	SV-1-T	SP-1-T	—	—	3rd St	6 7
B	TYPE 2 POST	—	—	—	—	—	—	8	←	—	
C	1-B	—	—	—	—	TV-2-T	SP-1-T	2	→	—	
d	(19-4-100)	(30'-0")	(15'-0")	90 LED	(mas)	(sv-1-t)	(sp-1-t)	4	←	C St	7 11
e	(1-b)	—	—	—	—	(tv-2-t)	(sp-1-t)	2	→	—	11
F	26-4-100	40'-0"	15'-0"	90 LED	MAT MAS	SV-1-T	SP-2-T	4	←	3rd St	7
g	(pba post)	—	—	—	—	—	—	6	→	—	11
H	17-3-100	20'-0"	8'-0"	90 LED	MAS	SV-1-T	SP-1-T	6	←	C St	7
I	TYPE 2 POST	—	—	—	—	—	—	8	→	—	
j	(1-b)	—	—	—	—	TV-2-T	SP-1-T	—	—	—	REMOVE EXISTING SIGNAL HEADS AND ADD NEW SIGNAL HEADS AND NEW PEDESTRIAN HEAD.

REFER TO SHEET TS-4 FOR PROJECT NOTES.
(XX) INDICATES EXISTING EQUIPMENT TO REMAIN. ALL OTHER EQUIPMENT SHALL BE NEW.



WIRING DIAGRAM

Underground Service Alert
Call: TOLL FREE
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TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-5

CAD FILE: 3220_TS.dwg

REVISIONS
NO. | DESCRIPTION | DATE | BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
DATE 11/03/25

DESIGNED BY: D. MURPHY
DATE 11/03/25

CHECKED BY: K. CALIA
R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd, Suite 255, Roseville, CA 95678, (916) 773-1900
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

WEST SACRAMENTO TRAFFIC SIGNAL MODIFICATION 3RD STREET AND C STREET

T15136000

SHEET 163 — OF — 648

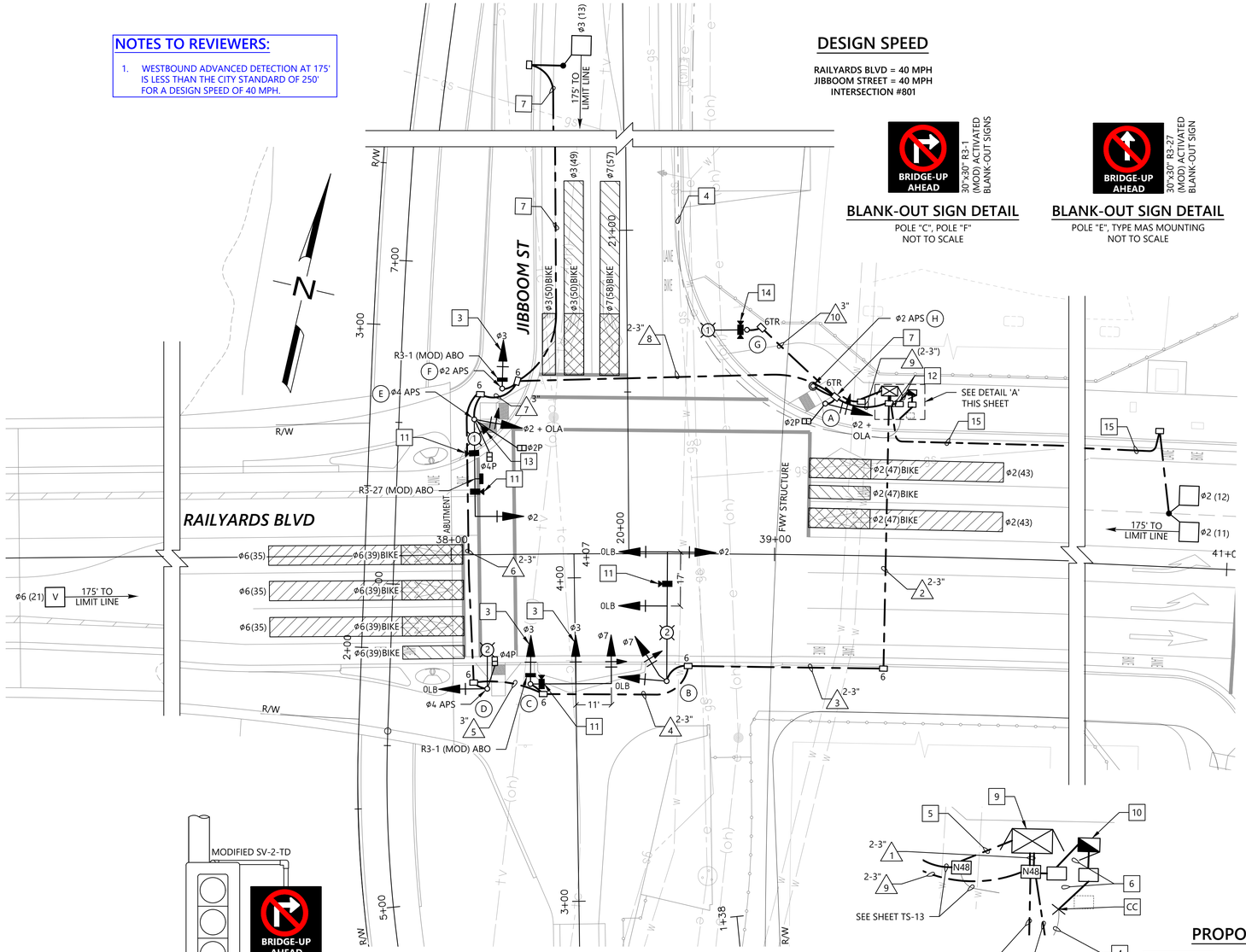
PLOT DATE: 11/3/2025 6:00:18 PM

NOTES TO REVIEWERS:

1. WESTBOUND ADVANCED DETECTION AT 175' IS LESS THAN THE CITY STANDARD OF 250' FOR A DESIGN SPEED OF 40 MPH.

DESIGN SPEED

RAILYARDS BLVD = 40 MPH
JIBBOOM STREET = 40 MPH
INTERSECTION #801



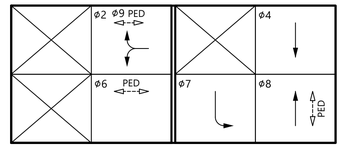
BLANK-OUT SIGN DETAIL
POLE "C", POLE "F"
NOT TO SCALE

BLANK-OUT SIGN DETAIL
POLE "E", TYPE MAS MOUNTING
NOT TO SCALE

PROJECT NOTES (THIS SHEET ONLY):

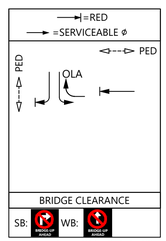
1. EQUIPMENT OR MATERIAL TO BE REMOVED. SALVAGE SIGNAL MAST ARM POLES, CAMERAS, AND 12" TRAFFIC SIGNAL HEADS. ALL OTHER REMOVED EQUIPMENT TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. ABANDON CONDUIT AND REMOVE CONDUCTORS.
3. INSTALL 3-SECTION SIGNAL HEAD WITH ALL RIGHT TURN ARROW SECTIONS.
4. EXISTING 2"C, 3#1 THW (SERVICE), 1#6G.
5. PLACE 3"C, 12 FOC, 7#14 (BRIDGE PREEMPTION).
6. PLACE 2"C, 3#1 THW (SERVICE), 1#6G.
7. PLACE 2"C, 1 DLC.
8. RELOCATE EXISTING SNS TO NEW SIGNAL MAST ARM.
9. EXISTING TYPE 332 CABINET WITH TYPE 2070 ATC eX CONTROLLER. RELOCATE TO NEW FOUNDATION AT NEW GRADE. LAND NEW CONDUCTORS IN CABINET. CITY FORCES TO PERFORM CONTROLLER PROGRAMMING. FURNISH AND INSTALL:
   - CCTV POE INJECTOR
   - APS CONTROLLER
   - VIDEO DETECTION COMM. MANAGER

   THE MANUFACTURER REPRESENTATIVE OF THE VIDEO DETECTION EQUIPMENT SHALL BE ONSITE TO CONFIGURE THE VIDEO DETECTION SYSTEM TO THE DETECTION ZONES AS SHOWN. THE SYSTEM SHALL BE INITIALLY CONFIGURED TO DETECT VEHICLES AND BICYCLES FOR THE EXISTING ROADWAY CONFIGURATION. AFTER THE FINAL ROADWAY CONFIGURATION IS CONSTRUCTED TO THE SATISFACTION OF THE CITY INSPECTOR. THE MANUFACTURER REPRESENTATIVES SHALL RETURN TO THE PROJECT SITE AND RE-CONFIGURE THE VIDEO DETECTION SYSTEM FOR THE NEW LAYOUT OF THE ROADWAY. THE VIDEO SCREEN SHALL BE CONFIGURED TO SHOW THE FOLLOWING: DETECTION ZONES, 22 FONT FOR TEXT, X1 FOR SIGNAL HEAD DISPLAY, REMOVE TITLE OF INTERSECTION, AND REMOVE TIME STAMP. SEE SPECIAL PROVISIONS FOR ADDITIONAL NOTES. THE CONTRACTOR SHALL MAKE ALL WIRE/CABLE/POWER CONNECTIONS FOR A FULLY FUNCTIONAL VEHICLE DETECTION SYSTEM. SEE SPECIAL PROVISIONS FOR ADDITIONAL NOTES. CONTRACTOR IS RESPONSIBLE FOR RE-ADJUSTING EXISTING VIDEO DETECTION ZONES TO NEW LANE CONFIGURATION.
10. EXISTING TYPE III-AF METERED ELECTRICAL SERVICE PEDESTAL No. 2290. RELOCATE TO NEW FOUNDATION AT NEW GRADE.
11. FURNISH AND INSTALL ECONOLITE AUTOSCOPE VISION VIDEO DETECTION CAMERA ON SIGNAL MAST ARM PER CITY STANDARD DETAILS E-200, E-210, AND E-220. CONTRACTOR TO PROVIDE AND INSTALL THE ECONOLITE AUTOSCOPE VISION VIDEO DETECTION CAMERA (AVISION), ECONOLITE 28" RISER POLE AND MOUNTING HARDWARE, AND ECONOLITE VIDEO DETECTION CABLE (3-WIRE). CAMERA SHALL BE MOUNTED ON THE 28" RISER POLE ON THE TRAFFIC SIGNAL MASTARM. CONTRACTOR TO PROVIDE AND INSTALL THE VIDEO DETECTION CABLE FROM THE VIDEO DETECTION CAMERA THRU THE MASTARM, CONDUITS, PULL BOXES, TO THE TRAFFIC SIGNAL CONTROLLER. NO SPLICES BETWEEN CAMERA AND TRAFFIC SIGNAL CONTROLLER.
12. PLACE 2"C, 3#6 (LIGHTING), 2#6 (CONTROLLER), 1#10G.
13. RELOCATE EXISTING EVP TO SIGNAL POLE AND MOUNT PER CITY DETAIL E-240.
14. FURNISH AND INSTALL AXIS P3737-LE QUAD PANORAMIC CAMERA ON LUMINAIRE MAST ARM. SEE CCTV EQUIPMENT SCHEDULE ON SHEET TS-7.
15. PLACE 2"C, 2 DLC.



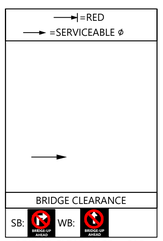
EXISTING PHASE DIAGRAM

BLANK-OUT SIGN MOUNTING
POLE "C"
NOT TO SCALE



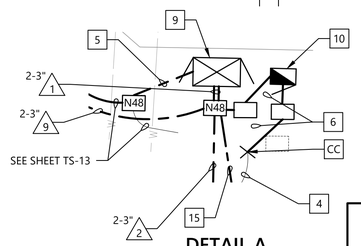
ALLOW OLA, Ø2P, Ø4P & Ø7

BRIDGE UP (LIMITED SERVICE)



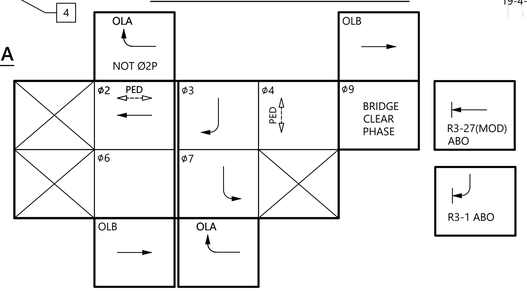
BRIDGE CLEARANCE = OLB

BRIDGE CLEARANCE



DETAIL A
NO SCALE

PROPOSED PHASE DIAGRAM



EQUIPMENT REMOVAL DETAIL
SCALE: 1"=30'
EQUIPMENT SHOWN IN BOLD IS TO BE REMOVED.

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-6

CAD FILE: 3220_TS.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
DATE 11/03/25
DESIGNED BY: D. MURPHY
DATE 11/03/25
CHECKED BY: K. CALIA
R.C.E. 62461 DATE 11/03/25

FEHR PEERS
1013 Galleria Blvd Suite 255, Roseville, CA 95678 (916) 773-1900
UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
TRAFFIC SIGNAL MODIFICATION PLAN
JIBBOOM STREET AND RAILYARDS BLVD

T15136000

SHEET 164 — OF — 648

PLOT DATE: 11/3/2025 6:00:19 PM

POLE SCHEDULE

POLE	LOCATION		STANDARD	POLE HEIGHT	VEH. SIGNAL				PED. SIGNAL			APS		MAST ARM LENGTH		NOTES
	STATION	OFFSET			Ø	TYPE	SEC	MTG	Ø	TYPE	MTG	ø	ARROW	TRA. SIG.	ST. LTNG.	
A	39+15.71	46.80' L	1-B	10'	2+OLA	1W5L	12"	TV-1-T	2	C/D	SP-1-T	-	-	-	-	
B	38+66.86	39.40' R	24-4-100	30'	OLB	1W3L	12"	MAT	-	-	-	-	-	40'	15'	INSTALL NEW VIDEO DETECTION CAMERA ON SIGNAL MAST ARM. Ø2 VEHICLE SIGNAL HEAD TO BE INSTALLED ON BACK SIDE OF MAST ARM FACING EAST.
					OLB	1W3L	12"	MAS								
					2	1W3L	12"	MAS								
					7	1W3L	A	SV-2-T								
					OLB	1W3L	12"									
C	38+24.53	40.18' R	19-4-100	30'	7	1W3L	A	MAT	-	-	-	-	-	25'	-	INSTALL NEW VIDEO DETECTION CAMERA ON SIGNAL MAST ARM. INSTALL R3-1(MOD) "BRIDGE UP AHEAD" ACTIVATED BLANK-OUT SIGN. RELOCATE EXISTING SNS TO NEW SIGNAL MAST ARM.
					3	1W3L	A	MAS								
					3	1W3L	A	SV-2-T								
					-	ABO	24"X24"									
D	38+10.76	41.48' R	15TS	30'	OLB	1W3L	12"	SV-1-T	4	C/D	SP-1-T	4	RIGHT	-	12'	
E	38+07.60	41.92' L	24-4-100	30'	2	1W3L	12"	MAT	4	C/D	SP-2-T	4	LEFT	30'	6'	INSTALL NEW VIDEO DETECTION CAMERAS ON SIGNAL MAST ARM. RELOCATE EXISTING GPS EVP TO NEW POLE. INSTALL R3-27(MOD) "BRIDGE UP AHEAD" ACTIVATED BLANK-OUT SIGN.
					-	ABO	24"X24"	MAS	-	-						
					2+OLA	1W5L	12"	SV-1-T	2	C/D						
F	38+16.33	51.27' L	1-B	10'	3	1W3L	12"	TV-2-T	-	-	-	2	RIGHT	-	-	INSTALL R3-1(MOD) "BRIDGE UP AHEAD" ACTIVATED BLANK-OUT SIGN.
					-	ABO	24"X24"									
G	38+90.89	69.33' L	15TS	30'	-	-	-	-	-	-	-	-	-	-	12'	INSTALL NEW CCTV.
H	39+11.19	52.09' L	TYPE 2 POST	*	-	-	-	-	-	-	-	2	LEFT	-	-	

NOTE: REFER TO **2025** CALTRANS STANDARD PLANS FOR NEW TRAFFIC SIGNAL AND STREET LIGHTING POLE TYPES.
'A' INDICATES ALL 12" ARROW HEAD SECTION.
'C/D' INDICATES LED PEDESTRIAN SIGNAL WITH COUNTDOWN TIMER.
'*' POST TRIMMED 3" ACTIVATED BLANK-OUT SIGNSVE APS UNIT WITH BUTTON 42" ACTIVATED BLANK-OUT SIGNSVE LANDING AREA.
EXISTING EQUIPMENT TO REMAIN IS SHOWN IN (parentheses). CONTRACTOR SHALL FURNISH AND INSTALL ALL OTHER ITEMS IN POLE SCHEDULE.
NEW 182W MAST ARM LUMINAIRES SHALL BE EOI ESU-FA013M04440L-130 OR CITY-APPROVED EQUIVALENT.

CONDUCTOR SCHEDULE

CONDUIT RUN	1			2			3			4			5			6			7			8			9			10		
CONDUIT SIZE	2-3"C			2-3"C			2-3"C			2-3"C			3"C			2-3"C			3"C			2-3"C			2-3"C			3"C		
CONDUCTORS	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14
VEH. SIG. Ø2			6			3			3												3			3			3			
VEH. SIG. Ø3			6			3			3			3												3			3			
OLB			3			3			3			3			3															
VEH. SIG. Ø7			3			3			3			3																		
OLA			3																		3			3			3			
PED. SIG. Ø2			2																		2			2			2			
PED. SIG. Ø4			4			2			2			2			2						2			2			2			
APS Ø2			2																					2			2			
APS Ø4			4			2			2			2			2						2			2			2			
(R3-1(MOD) ACTIVATED BLANK-OUT SIGNS)			4			2			2			2												2			2			
(R3-27(MOD) ACTIVATED BLANK-OUT SIGNS)			2																		2			2			2			
SPARES			6			3			3			3			3			3			3			3			3			
SIG. NEUTRAL			2			1			1			1			1			1			1			1			1			
CONTROLLER POWER	2																													
LIGHTING CIRCUIT 1																			1			1			1			1		
LIGHTING CIRCUIT 2				1			1			1			1																	
LIGHTING COMMON				1			1			1			1						1			1			1			1		
GROUND +	2			2			2			2			1			2			1			2			2			1		
DLC Ø2			2																											
DLC Ø3			1																						1			1		
CCTV CAT6E -			1																									1		1
VIDEO DETECTION CABLE *			4			2			2			1									2			2			2			
GPS EVP ~			1																		1			1			1			
TOTAL CONDUCTORS	2	2	47	9	2	2	22	2	2	2	22	2	2	2	19	1	2	1	11	0	0	2	4	0	2	1	18	3	2	2	25	4	2	2	25	5	2	1	0	1
TOTAL FILL (%)	13			6			6			5			4			1			11			7			9			5		

BOLD TEXT INDICATES CONDUCTORS ARE NEW OR QUANTITY IS MODIFIED.
LIGHT TEXT INDICATES EXISTING CONDUCTORS TO REMAIN.
'+' PROVIDE 1#10 THW GROUND IN EACH CONDUIT.
'~' INDICATES GPS EVP CABLE PER SPECIAL PROVISIONS.
'*' INDICATES CABLE FOR ECONOLITE VISION DETECTION CAMERA PER SPECIAL PROVISIONS.
'-' INDICATES BELDEN 7927A OUTDOOR RATED CAT6 CABLE OR APPROVED EQUAL.
CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS PER CONDUCTOR SCHEDULE.
CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS NOT SHOWN TO REMAIN.

CCTV CAMERA EQUIPMENT

QTY.	DESCRIPTION	PART #	MANUFACTURER	NOTE
1	AXIS QUAD PANORAMIC CAMERA	P3737-LE	AXIS	INSTALL AND TEST
1	AXIS HIGH POWER PoE MID-SPAN POWER INJECTOR	03283-004 30WATT	AXIS	INSTALL
1	AXIS PARAPET MOUNT	TQ6501-E	AXIS	INSTALL
1	AXIS CAMERA HANGER	T94A01D	AXIS	INSTALL
1	PELCO ASTRO-BRAC FOR MASTARM, LUMINAIRE ARM MOUNTING	AB3035	PELCO	INSTALL
SEE PLAN	BELDEN OUTDOOR RATED CAT6 CABLE	7927A	BELDEN	INSTALL
4	AXIS RJ45 PUSHPULL CONNECTOR	39680	AXIS	INSTALL AND TEST
2	1 METER CAT6 PATCH CABLE			INSTALL

CONTRACTOR TO PROVIDE ALL EQUIPMENT OR APPROVED EQUAL. APPROVAL SHALL BE BY SIGNAL OPERATION STAFF.

THE CITY OF SACRAMENTO QUALIFIED PRODUCTS LIST (QPL) FOR ELECTRICAL EQUIPMENT IS LOCATED AT THE FOLLOWING LINK, UNDER THE TRAFFIC SIGNALS AND STREETLIGHTING HEADING. WWW.CITYOFSACRAMENTO.ORG/UTILITIES/DEVELOPMENT-STANDARDS

GENERAL NOTE (THIS SHEET ONLY):

Potholing is required to be performed by the Consultant or Contractor prior to requesting electrical material submittals to be reviewed by the City. For utility conflicts during the construction phase, the Contractor shall contact and coordinate with the Consultant responsible for the planset to resolve the conflict.

LUMINAIRE SCHEDULE

EXISTING METERED SERVICE No. 2290 IS LOCATED ON THE NORTH SIDE OF RAILYARDS BOULEVARD APPROXIMATELY 25' EAST OF JIBBOOM STREET.

CIRCUIT NO.	EXISTING 100 W DECORATIVE TO REMAIN	NEW 110 W LED MAST ARM	CIRCUIT TOTAL
1	2	2	4
2	2	2	4
TOTAL	4	4	8

LUMINAIRE SCHEDULE

NEW METERED SERVICE No. ___ IS LOCATED ON THE NORTH SIDE OF RAILYARDS BOULEVARD APPROXIMATELY 30' EAST OF JIBBOOM STREET. SEE SHEET SL-3 FOR LOCATION AND INSTALLATION DETAILS.

CIRCUIT NO.	NEW 140W CITY STREET LIGHT	NEW DECORATIVE POST TOP LIGHT 40W LED	CIRCUIT TOTAL
3		9	9
4	3	7	10
5	4	3	7
TOTAL	7	19	26

NEW 40W DECORATIVE POST-TOP LUMINAIRES SHALL BE LEX-424-ACK TYPE III-PLC1-40 WATT TWISTER-4K-UNIV OR CITY-APPROVED EQUIVALENT.

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-7

CAD FILE: 3220_TS.dwg

REVISIONS
NO. | DESCRIPTION | DATE | BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
DATE 11/03/25

DESIGNED BY: D. MURPHY
DATE 11/03/25

CHECKED BY: K. CALIA
R.C.E. 62461 DATE 11/03/25

FEHR PEERS
1013 Galleria Blvd Suite 255, Roseville, CA 95678 (916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TRAFFIC SIGNAL MODIFICATION PLAN

JIBBOOM STREET AND RAILYARDS BLVD

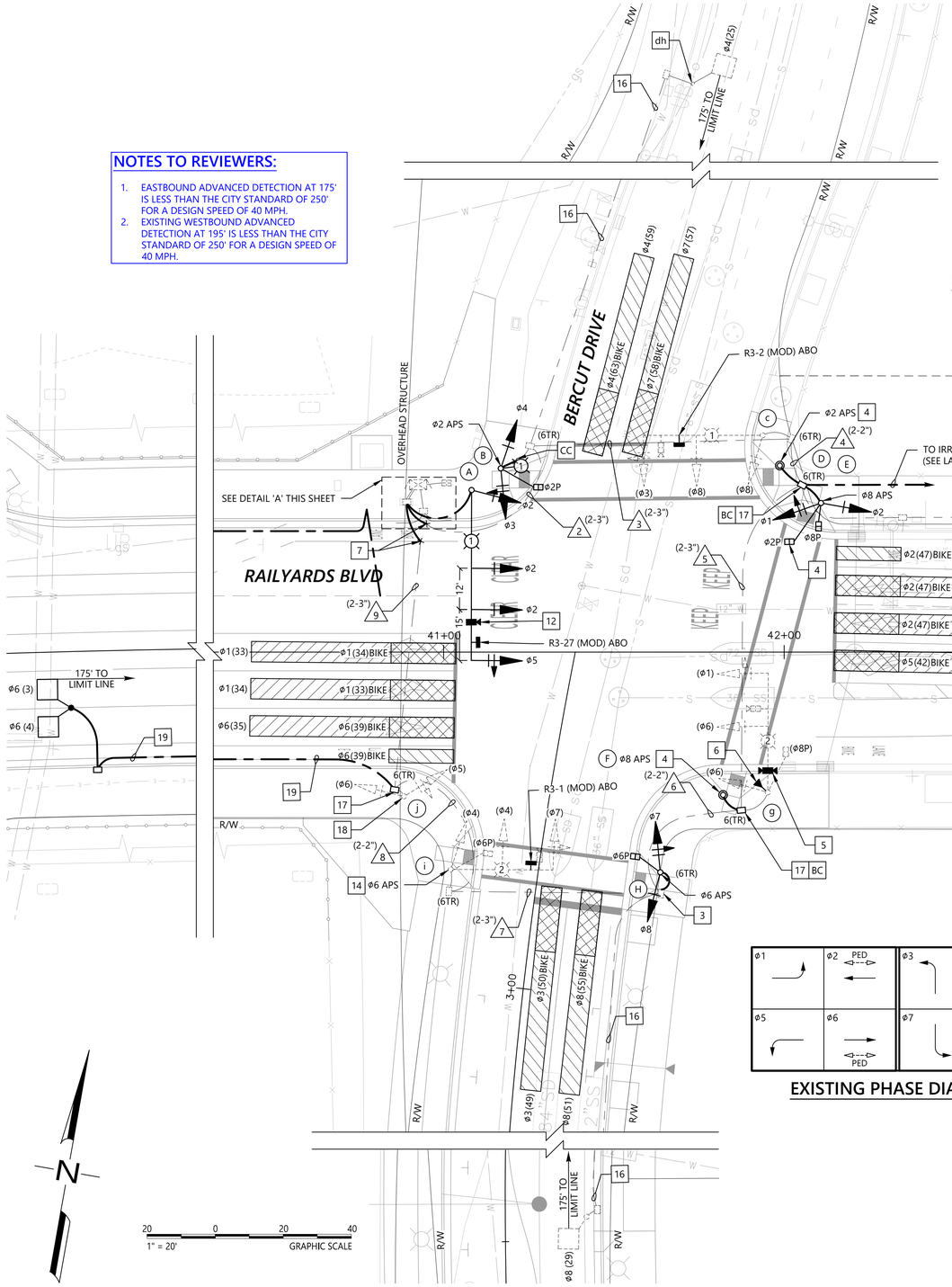
T15136000

SHEET 165 — OF — 648

PLOT DATE: 11/3/2025 6:00:36 PM

NOTES TO REVIEWERS:

1. EASTBOUND ADVANCED DETECTION AT 175' IS LESS THAN THE CITY STANDARD OF 250' FOR A DESIGN SPEED OF 40 MPH.
2. EXISTING WESTBOUND ADVANCED DETECTION AT 195' IS LESS THAN THE CITY STANDARD OF 250' FOR A DESIGN SPEED OF 40 MPH.



30"x30" R3-1 (MOD) ACTIVATED BLANK-OUT SIGNS

BLANK-OUT SIGN DETAIL

POLE "i", TYPE MAS MOUNTING
NOT TO SCALE

PROJECT NOTES (THIS SHEET ONLY):

1. EQUIPMENT OR MATERIAL TO BE REMOVED. SALVAGE SIGNAL MAST ARM POLES, CAMERAS, AND 12" TRAFFIC SIGNAL HEADS. ALL OTHER REMOVED EQUIPMENT TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. ABANDON CONDUIT AND REMOVE CONDUCTORS.
3. INSTALL CONDUIT INTO EXISTING PULL BOX.
4. EQUIPMENT OR MATERIAL TO BE RELOCATED.
5. FURNISH AND INSTALL AXIS P3737-LE QUAD PANORAMIC CAMERA ON LUMINAIRE MAST ARM. SEE CCTV EQUIPMENT SCHEDULE ON SHEET 147 - TS-9.
6. RELOCATE EXISTING EVP TO SIGNAL POLE AND MOUNT PER CITY DETAIL E-240.
7. INTERCEPT AND EXTEND EXISTING CONDUIT.
8. RELOCATE EXISTING SNS TO NEW SIGNAL MAST ARM.
9. EXISTING TYPE 332 CABINET WITH TYPE 2070 ATC eX CONTROLLER TO REMAIN. LAND NEW CONDUCTORS IN CABINET. CITY FORCES TO PERFORM CONTROLLER PROGRAMMING.
   FURNISH AND INSTALL:
   - CCTV POE INJECTOR
   - APS CONTROLLER
   - VIDEO DETECTION COMM. MANAGER
   THE MANUFACTURER REPRESENTATIVE OF THE VIDEO DETECTION EQUIPMENT SHALL BE ONSITE TO CONFIGURE THE VIDEO DETECTION SYSTEM TO THE DETECTION ZONES AS SHOWN. THE SYSTEM SHALL BE INITIALLY CONFIGURED TO DETECT VEHICLES AND BICYCLES FOR THE EXISTING ROADWAY CONFIGURATION. AFTER THE FINAL ROADWAY CONFIGURATION IS CONSTRUCTED TO THE SATISFACTION OF THE CITY INSPECTOR. THE MANUFACTURER REPRESENTATIVES SHALL RETURN TO THE PROJECT SITE AND RE-CONFIGURE THE VIDEO DETECTION SYSTEM FOR THE NEW LAYOUT OF THE ROADWAY. THE VIDEO SCREEN SHALL BE CONFIGURED TO SHOW THE FOLLOWING: DETECTION ZONES, 22 FONT FOR TEXT, X1 FOR SIGNAL HEAD DISPLAY, REMOVE TITLE OF INTERSECTION, AND REMOVE TIME STAMP. SEE SPECIAL PROVISIONS FOR ADDITIONAL NOTES. THE CONTRACTOR SHALL MAKE ALL WIRE/CABLE/POWER CONNECTIONS FOR A FULLY FUNCTIONAL VEHICLE DETECTION SYSTEM. SEE SPECIAL PROVISIONS FOR ADDITIONAL NOTES. CONTRACTOR IS RESPONSIBLE FOR RE-ADJUSTING EXISTING VIDEO DETECTION ZONES TO NEW LANE CONFIGURATION.
10. EXISTING TYPE III-AF METERED ELECTRICAL SERVICE PEDESTAL No. 2592 TO REMAIN.
11. EXISTING 2"C, 3#6 (LIGHTING), 2#6 (CONTROLLER), 1#10G.
12. RELOCATE EXISTING VIDEO DETECTION CAMERA TO NEW SIGNAL MAST ARM AND MOUNT PER CITY STANDARD DETAIL E-200.
13. EXISTING 3"C, 12 FOC.
14. REPLACE PEDESTRIAN PUSH BUTTON WITH APS.
15. RELOCATE EXISTING R73-3 (CA) SIGN TO NEW SIGNAL MAST ARM.
16. PLACE 2"C, 1 DLC.
17. REMOVE AND REPLACE WITH NEW PULL BOX.
18. ADJUST POLE TO NEW GRADE.
19. PLACE 2"C, 2 DLC.
20. EXISTING 2"C, 2 DLC.

30"x30" R3-27 (MOD) ACTIVATED BLANK-OUT SIGNS

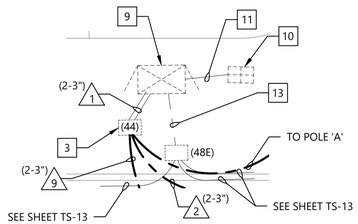
BLANK-OUT SIGN DETAIL

POLE "A", TYPE MAS MOUNTING
NOT TO SCALE

30"x30" R3-2 (MOD) ACTIVATED BLANK-OUT SIGNS

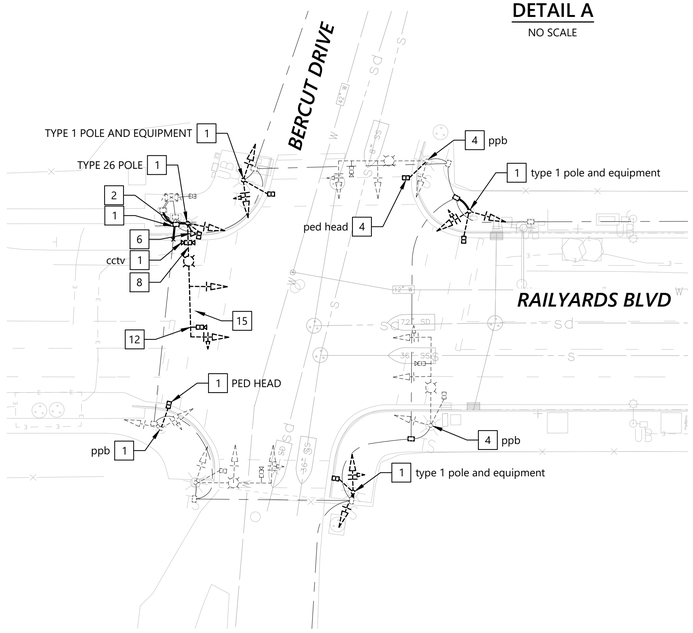
BLANK-OUT SIGN DETAIL

POLE "c", TYPE MAS MOUNTING
NOT TO SCALE



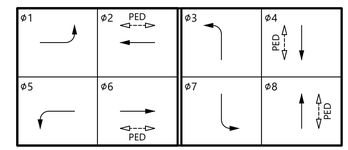
DETAIL A

NO SCALE

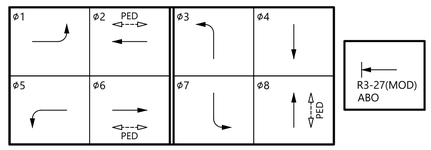


EQUIPMENT REMOVAL DETAIL

SCALE: 1"=30'
EQUIPMENT SHOWN IN BOLD IS TO BE REMOVED.



EXISTING PHASE DIAGRAM



PROPOSED PHASE DIAGRAM

PHASES 3 AND 7 SHALL NOT OPERATE CONCURRENTLY
PHASES 1 AND 5 SHALL NOT OPERATE CONCURRENTLY

DESIGN SPEED

RAILYARDS BLVD = 40 MPH
BERCUT DRIVE = 30 MPH

Underground Service Alert
Call: TOLL FREE
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REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
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TS-8

CAD FILE: 3220_TS.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
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DESIGNED BY: D. MURPHY
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UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TRAFFIC SIGNAL MODIFICATION PLAN
BERCUT DRIVE AND RAILYARDS BLVD

T15136000

SHEET 166 — OF — 648

PLOT DATE: 11/3/2025 6:00:37 PM

POLE SCHEDULE

POLE	LOCATION		STANDARD	POLE HEIGHT	VEH. SIGNAL				PED. SIGNAL			APS		MAST ARM LENGTH		NOTES
	STATION	OFFSET			Ø	TYPE	SEC	MTG	Ø	TYPE	MTG	ø	ARROW	TRA. SIG.	ST. LTNG.	
Ⓐ	41+08.11	47.55' L	29-5-100	30'	5	1W3L	A	MAT	-	-	-	-	-	50'	15'	INSTALL R3-27(MOD) "BRIDGE UP AHEAD" ACTIVATED BLANK-OUT SIGN ON SIGNAL MAST ARM.
					-	ABO	24"X24"	MAS								
					2	1W3L	12"	MAS								
					2	1W3L	12"	MAS								
					2	1W3L	12"	SV-1-T								
Ⓑ	41+16.78	53.93' L	15TS	30'	3	1W3L	A	SV-2-T	2	C/D	SP-1-T	2	RIGHT	-	6'	
					4	1W3L	12"									
Ⓒ	-	-	(24-4-100)	(30')	(3)	(1w3l)	(A)	(mat)	-	-	-	-	-	(35')	(15')	REMOVE AND RELOCATE EXISTING ø2P PEDESTRIAN SIGNAL HEAD AND PPB. INSTALL R3-2(MOD) "BRIDGE UP AHEAD" ACTIVATED BLANK-OUT SIGN ON SIGNAL MAST ARM.
					(8)	(1w3l)	(12")	(mas)								
					(8)	(1w3l)	(12")	(sv-1-t)								
					-	ABO	24"X24"	MAS								
Ⓓ	41+98.73	54.73' L	TYPE 2 POST	*	-	-	-	-	-	-	-	2	LEFT	-	-	INSTALL RELOCATED PPB FROM POLE c.
Ⓔ	42+10.92	43.75' L	1-B	10'	1	1W3L	A	TV-2-T	2	C/D	SP-2-T	8	RIGHT	-	-	INSTALL RELOCATED PEDESTRIAN SIGNAL HEAD FROM POLE c.
					2	1W3L	12"		8	C/D						
Ⓕ	41+81.46	41.93' R	TYPE 2 POST	*	-	-	-	-	-	-	-	8	RIGHT	-	-	INSTALL RELOCATED PPB FROM POLE g. CHANGE PPB SIGN.
ⓖ	-	-	(24-4-100)	(30')	(1)	(1w3l)	(A)	(mat)	(8)	(C/D)	(sp-1-t)	-	-	(35')	(15')	REMOVE AND RELOCATE EXISTING PPB. INSTALL NEW CCTV CAMERA AND RELOCATED GPS EVP.
					(6)	(1w3l)	(12")	(mas)								
					(6)	(1w3l)	(12")	(sv-1-t)								
Ⓗ	41+63.62	64.63' R	1-B	10'	7	1W3L	A	TV-2-T	6	C/D	SP-1-T	6	LEFT	-	-	
					8	1W3L	12"									
ⓘ	-	-	(19-4-100)	(30')	(7)	(1w3l)	(A)	(mat)	(6)	(C/D)	(sp-1-t)	(6)	(left)	(30')	(15')	INSTALL R3-1(MOD) "BRIDGE UP AHEAD" ACTIVATED BLANK-OUT SIGN ON SIGNAL MAST ARM.
					(4)	(1w3l)	(12")	(mas)								
					(4)	(1w3l)	(12")	(sv-1-t)								
					-	ABO	24"X24"	MAS								
ⓙ	-	-	(1-b)	(10")	(5)	(1w3l)	(A)	(tv-2-t)								
					(6)	(1w3l)	(12')		-	-	-	-	-	-	-	REMOVE PPB AND PEDESTRIAN HEAD SIGNAL.

NOTE: REFER TO **2025** CALTRANS STANDARD PLANS FOR NEW TRAFFIC SIGNAL AND STREET LIGHTING POLE TYPES.
'A' INDICATES ALL 12" ARROW HEAD SECTION.
'C/D' INDICATES LED PEDESTRIAN SIGNAL WITH COUNTDOWN TIMER.
'*' POST TRIMMED 3" ACTIVATED BLANK-OUT SIGNSVE APS UNIT WITH BUTTON 42" ACTIVATED BLANK-OUT SIGNSVE LANDING AREA.
EXISTING EQUIPMENT TO REMAIN IS SHOWN IN (parentheses). CONTRACTOR SHALL FURNISH AND INSTALL ALL OTHER ITEMS IN POLE SCHEDULE.
NEW 182W MAST ARM LUMINARES SHALL BE EOI ESU-FA013M04440L-130 OR CITY-APPROVED EQUIVALENT.

CONDUCTOR SCHEDULE

CONDUIT RUN	1			2			3			4			5			6			7			8			9		
CONDUIT SIZE	EXISTING 2-3"C			EXISTING 2-3"C			EXISTING 2-3"C			EXISTING 2-2"C			EXISTING 2-3"C			EXISTING 2-2"C			EXISTING 2-3"C			EXISTING 2-2"C			EXISTING 2-3"C		
CONDUCTORS	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14	6	10	14
VEH. SIG. ø1		3			3			3			3						3			3			3			3	
VEH. SIG. ø2		3			3			3			3																
VEH. SIG. ø3		3			3			3																			
VEH. SIG. ø4		3			3																		3			3	
VEH. SIG. ø5		3																								3	
VEH. SIG. ø6		3															3			3			3			3	
VEH. SIG. ø7		3																		3			3			3	
VEH. SIG. ø8		3			3			3												3			3			3	
PED. SIG. ø2		2			2			2			**2**																
PED. SIG. ø6		2																		2			2			2	
PED. SIG. ø8		2			2			2			2						2			2			2			2	
APS ø2		4			4			2			**2**																
APS ø6		4																		2			4			4	
APS ø8		4			2			2			2						2			2			2			2	
(R3-1 ACTIVATED BLANK-OUT SIGNS)		**2**																					**2**			**2**	
(R3-2 ACTIVATED BLANK-OUT SIGNS)		**2**			**2**			**2**																			
(R3-27 (MOD) ACTIVATED BLANK-OUT SIGNS)		**2**																									
SPARES		10			3			3			3						3			3			3			7	
SIG. NEUTRAL	1			1			1			1						1			1			1			1		
CONTROLLER POWER																											
LIGHTING CIRCUIT 1	2			2			2																				
LIGHTING CIRCUIT 2	2															2			2			2			2		
LIGHTING COMMON																											
GROUND		1			1			1			1			1			1			1			1			1	
DLC ø4	1	1																									
DLC ø8			1																	1			1				1
CCTV CAT6E -			1														1			1			1				1
VIDEO DETECTION CABLE *			4			1			1								1			1			2				2
GPS EVP ~			**1**														1			1			1				1
TOTAL CONDUCTORS	5	3	58	7	2	2	30	1	2	2	25	1	0	2	17	0	0	1	0	0	2	2	13	3	2	2	23	4	2	2	30	5	2	2	37	5
TOTAL FILL (%)	16			6			6			8			0			12			8			20			10		

BOLD TEXT INDICATES CONDUCTORS ARE NEW OR QUANTITY IS MODIFIED.
LIGHT TEXT INDICATES EXISTING CONDUCTORS TO REMAIN.
'~' INDICATES GPS EVP CABLE PER SPECIAL PROVISIONS.
'*' INDICATES CABLE FOR ECONOLITE VISION DETECTION CAMERA PER SPECIAL PROVISIONS.
'-' INDICATES BELDEN 7927A OUTDOOR RATED CAT6 CABLE OR APPROVED EQUAL.
CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS PER CONDUCTOR SCHEDULE.
CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS NOT SHOWN TO REMAIN.

CCTV CAMERA EQUIPMENT

QTY.	DESCRIPTION	PART #	MANUFACTURER	NOTE
1	AXIS QUAD PANORAMIC CAMERA	P3737-LE	AXIS	INSTALL AND TEST
1	AXIS HIGH POWER PoE MID-SPAN POWER INJECTOR	03283-004 30WATT	AXIS	INSTALL
1	AXIS PARAPET MOUNT	TQ6501-E	AXIS	INSTALL
1	AXIS CAMERA HANGER	T94A01D	AXIS	INSTALL
1	PELCO ASTRO-BRAC FOR MASTARM, LUMINAIRE ARM MOUNTING	AB3035	PELCO	INSTALL
SEE PLAN	BELDEN OUTDOOR RATED CAT6 CABLE	7927A	BELDEN	INSTALL
4	AXIS RJ45 PUSHPULL CONNECTOR	39680	AXIS	INSTALL AND TEST
2	1 METER CAT6 PATCH CABLE			INSTALL

CONTRACTOR TO PROVIDE ALL EQUIPMENT OR APPROVED EQUAL. APPROVAL SHALL BE BY SIGNAL OPERATION STAFF.

LUMINAIRE SCHEDULE

EXISTING METERED SERVICE No. 2592 IS LOCATED ON THE NORTH SIDE OF RAILYARDS BOULEVARD APPROXIMATELY 10' WEST OF BERCUT DRIVE.

CIRCUIT NO.	EXISTING 135 W LED MAST ARM TO REMAIN	EXISTING 135 W LED MAST ARM TO REMOVE	NEW 110 W LED MAST ARM	CIRCUIT TOTAL
1	1	1	1	2
2	2			2
TOTAL	3	1	1	4

THE CITY OF SACRAMENTO QUALIFIED PRODUCTS LIST (QPL) FOR ELECTRICAL EQUIPMENT IS LOCATED AT THE FOLLOWING LINK, UNDER THE TRAFFIC SIGNALS AND STREETLIGHTING HEADING. WWW.CITYOFSACRAMENTO.ORG/UTILITIES/DEVELOPMENT-STANDARDS

GENERAL NOTE (THIS SHEET ONLY):

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Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-9

CAD FILE: 3220_TS.dwg

REVISIONS
NO. | DESCRIPTION | DATE | BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS
DRAWN BY: Y. SELYUZHITSKIY / E. MORI DATE 11/03/25
DESIGNED BY: D. MURPHY DATE 11/03/25
CHECKED BY: K. CALIA R.C.E. 62461 DATE 11/03/25

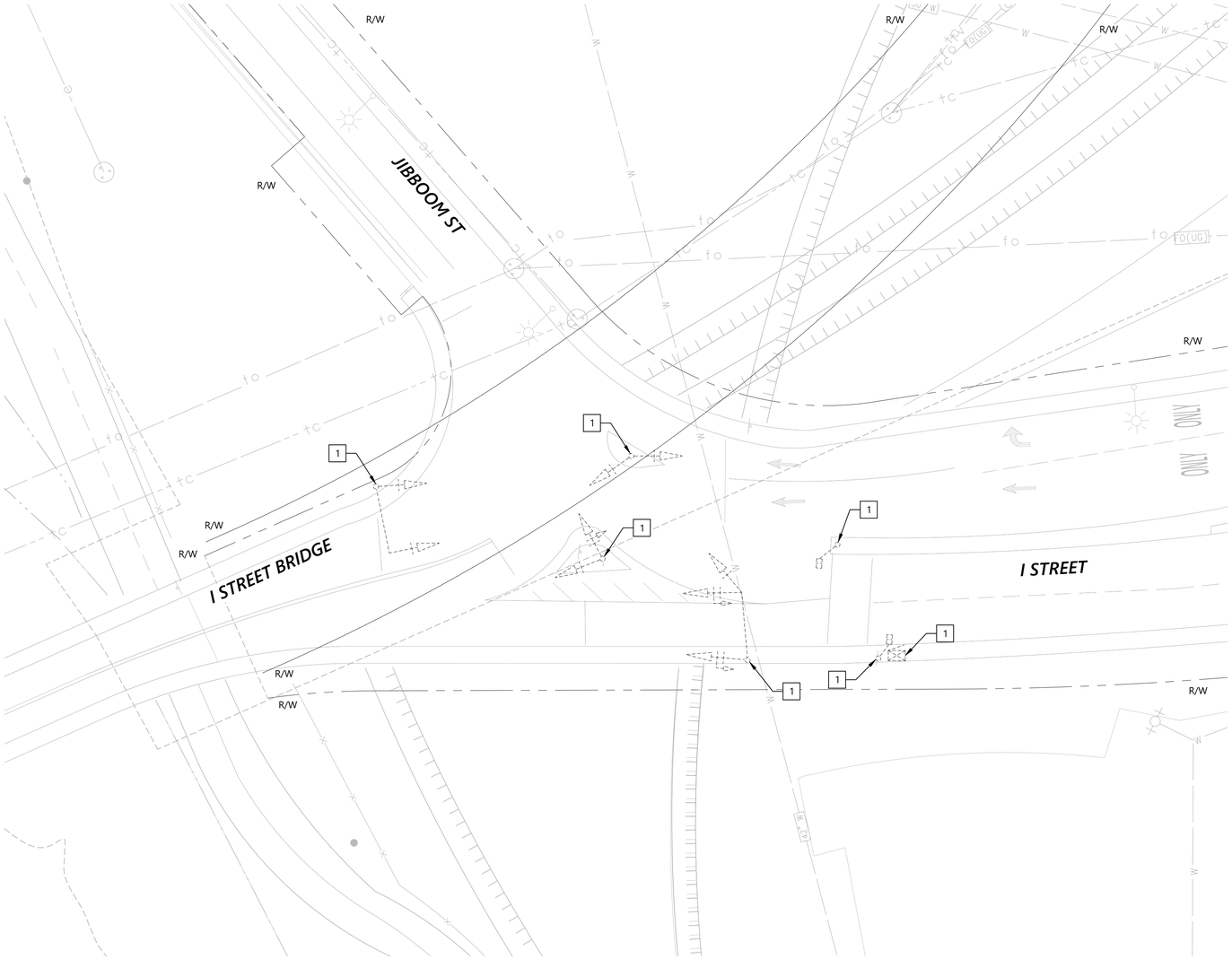
FEHR PEERS
1013 Galleria Blvd Suite 255, Roseville, CA 95678 (916) 773-1900
UNDER THE SUPERVISION OF: KRISTIN CALIA R.C.E. _____ EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
TRAFFIC SIGNAL MODIFICATION PLAN
BERCUT DRIVE AND RAILYARDS BLVD

T15136000

SHEET 167 OF 648

PLOT DATE: 11/3/2025 6:00:40 PM



PROJECT NOTES (THIS SHEET ONLY):

1 EQUIPMENT OR MATERIAL TO BE REMOVED. SALVAGE SIGNAL MAST ARM POLES AND 12" TRAFFIC SIGNAL HEADS. ALL OTHER REMOVED EQUIPMENT TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.

N

20 0 20 40
1" = 20'
GRAPHIC SCALE

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REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-10

CAD FILE: 3220_TS.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
DATE 11/03/25

DESIGNED BY: D. MURPHY
DATE 11/03/25

CHECKED BY: K. CALIA
R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd, Suite 255, Roseville, CA 95678, (916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TRAFFIC SIGNAL REMOVAL PLAN
I STREET BRIDGE AND JIBBOOM STREET

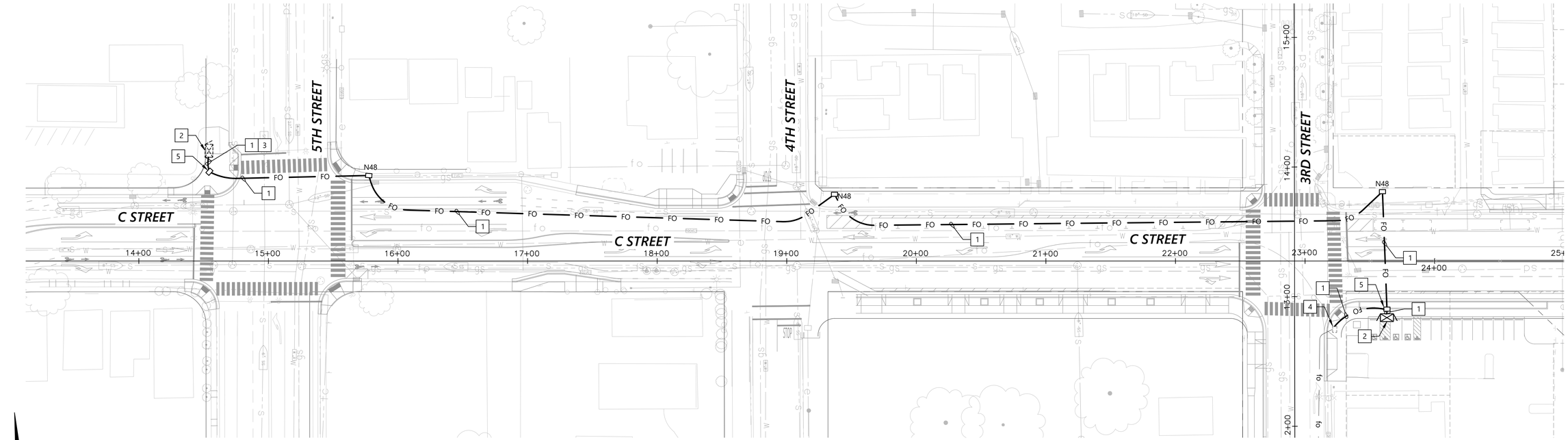
T15136000

SHEET 168 OF 648

PLOT DATE: 11/3/2025 6:00:45 PM

PROJECT NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL 3"C, (1) 144 FOC.
2. FURNISH AND INSTALL FIBER PATCH PANEL AND NETWORK SWITCH IN CABINET AND TERMINATE (1) 144 FOC INTO PATCH PANEL.
3. INSTALL CONDUIT INTO CABINET WITH LB CONDUIT BODY.
4. FURNISH AND INSTALL FIBER SPLICE CASE. CONNECT NEW AND EXISTING FIBER OPTIC CABLE.
5. FURNISH AND INSTALL TYPE N48 DOUBLE STACKED SPLICE VAULT.



40 0 40 80
1" = 40'
GRAPHIC SCALE

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-11

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=40'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
DATE 11/03/25

DESIGNED BY: D. MURPHY
DATE 11/03/25

CHECKED BY: K. CALIA
R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd Suite 255
Roseville, CA 95678
(916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

WEST SACRAMENTO TRAFFIC SIGNAL INTERCONNECT PLAN
C STREET

T15136000

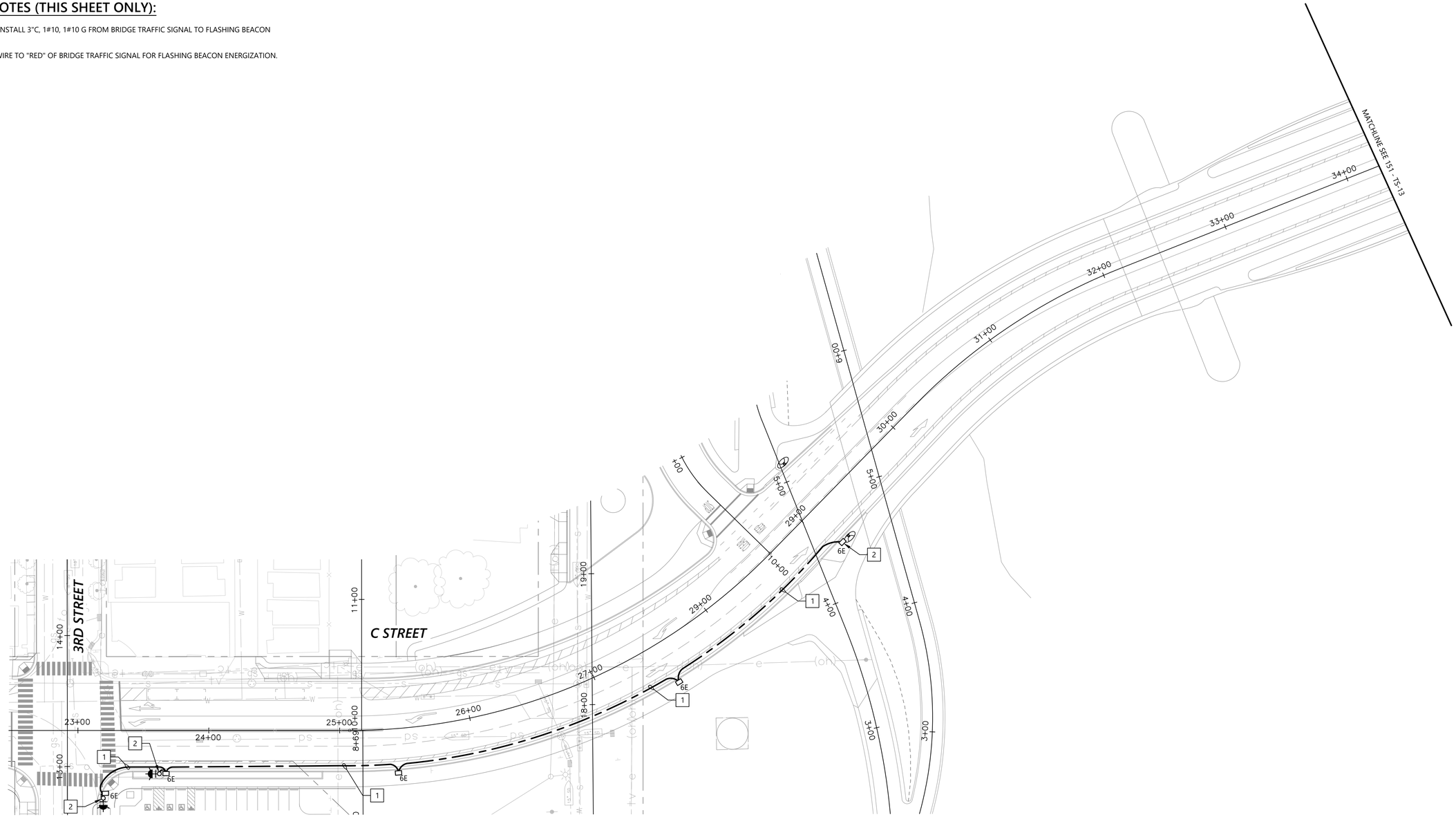
SHEET 169 — OF — 648

CAD FILE: 3220_Interconnect.dwg

PLOT DATE: 11/3/2025 6:00:49 PM

PROJECT NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL 3"C, 1#10, 1#10 G FROM BRIDGE TRAFFIC SIGNAL TO FLASHING BEACON ENCLOSURE.
2. TAP OFF HOT WIRE TO "RED" OF BRIDGE TRAFFIC SIGNAL FOR FLASHING BEACON ENERGIZATION.



NOT FOR CONSTRUCTION

Underground Service Alert
Call: TOLL FREE
1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
NO. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

TS-12

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=40'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI DATE 11/03/25
DESIGNED BY: D. MURPHY DATE 11/03/25
CHECKED BY: K. CALIA R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd Suite 255, Roseville, CA 95678 (916) 773-1900
UNDER THE SUPERVISION OF: KRISTIN CALIA R.C.E. _____ EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

WEST SACRAMENTO FLASHING BEACON SYSTEM
C STREET

T15136000

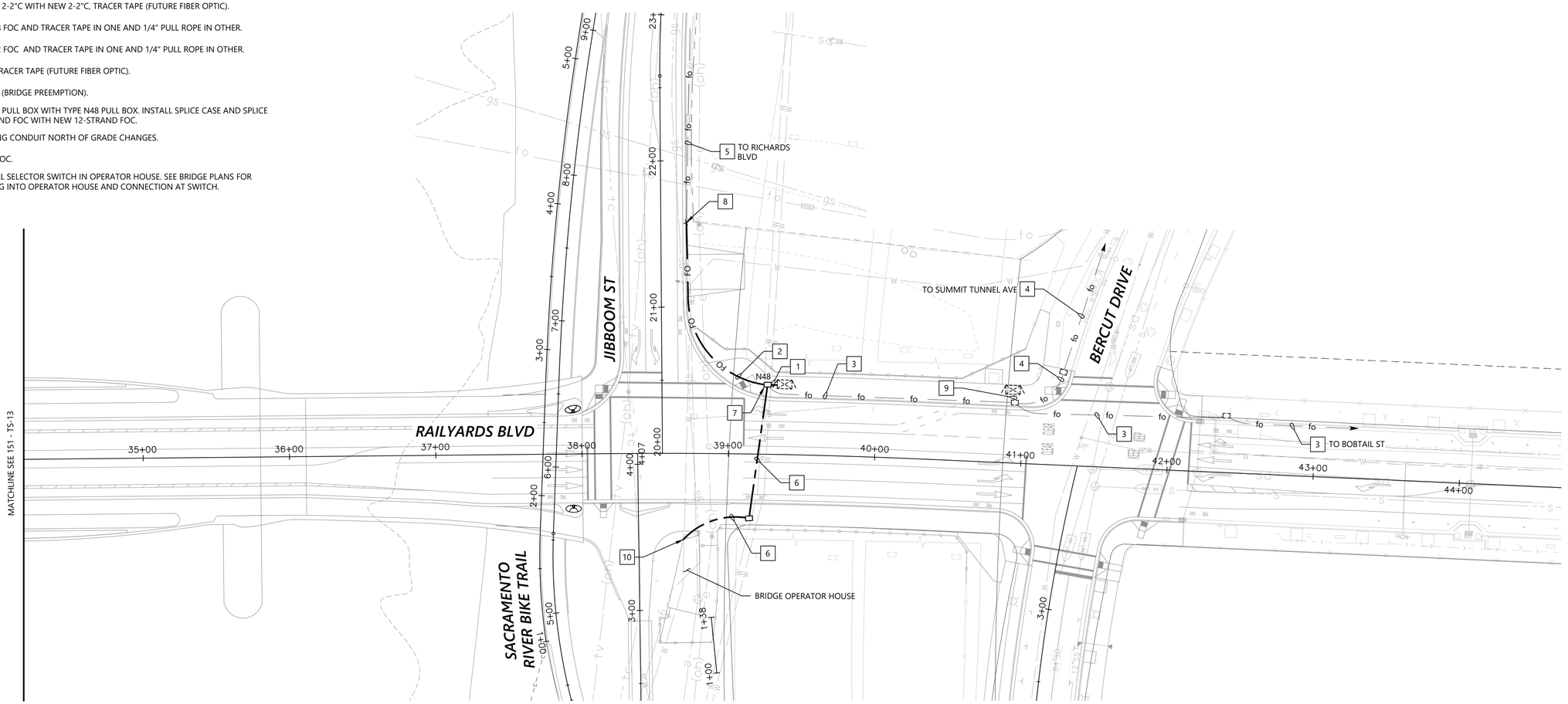
SHEET 170 — OF — 648

CAD FILE: 3220_Interconnect.dwg

PLOT DATE: 11/3/2025 6:00:53 PM

PROJECT NOTES (THIS SHEET ONLY):

1. PLACE 3"C, 12 FOC, 4#14 (BRIDGE PREEMPTION).
2. REPLACE EXISTING 2-2"C WITH NEW 2-2"C, TRACER TAPE (FUTURE FIBER OPTIC).
3. EXISTING 2-2"C, 48 FOC AND TRACER TAPE IN ONE AND 1/4" PULL ROPE IN OTHER.
4. EXISTING 2-2"C, 12 FOC AND TRACER TAPE IN ONE AND 1/4" PULL ROPE IN OTHER.
5. EXISTING 2-2"C , TRACER TAPE (FUTURE FIBER OPTIC).
6. PLACE 2-2"C, 7#14 (BRIDGE PREEMPTION).
7. REPLACE EXISTING PULL BOX WITH TYPE N48 PULL BOX. INSTALL SPLICE CASE AND SPLICE EXISTING 48-STRAND FOC WITH NEW 12-STRAND FOC.
8. INTERCEPT EXISTING CONDUIT NORTH OF GRADE CHANGES.
9. EXISTING 3"C, 12 FOC.
10. TO TRAFFIC SIGNAL SELECTOR SWITCH IN OPERATOR HOUSE. SEE BRIDGE PLANS FOR CONDUIT ROUTING INTO OPERATOR HOUSE AND CONNECTION AT SWITCH.



FIBER OPTIC CABLE		
DESCRIPTION	PART #	MANUFACTURER
12 STRAND	012ZU4-T4F22D20	CORNING
12 STRAND SST DROP (FLAT)	012EB4-14101A20	CORNING
24 STRAND	024ZU4-T4F22D20	CORNING
48 STRAND	048EU4-T4F22D20	CORNING
96 STRAND	096EU4-T4700D20 OR 096EU4-T4701D20	CORNING CORNING

FIBER PATCH CABLE (OS2 JUMPERS)		
DESCRIPTION	PART #	MANUFACTURER
1m	040402G512001M	CORNING
2m	040402G512002M	CORNING

TRACER TAPE		
DESCRIPTION	PART #	MANUFACTURER
DETECTABLE MULE TAPE	DT1250P	NEPTCO DT1250P OR DURA LINE WP12LC

SPLICE CASE		
DESCRIPTION	PART #	MANUFACTURER
SPLICE CASE – DOME CLOSURE 6.5X22	8006877	COYOTE
SPLICE TRAY – LONG LOW-PROFILE FOR UP TO 96 STRAND	80805514	COYOTE
SPLICE CASE – DOME CLOSURE 6.5X17	8006944	COYOTE
SPLICE TRAY – LONG LOW-PROFILE FOR UP TO 48 STRAND	80809958	COYOTE
INLINE RUNT CLOSURE	8006915	COYOTE
SPLICE TRAY FOR UP TO 48 STRAND	80809958	COYOTE

N

40 0 40 80
1" = 40' GRAPHIC SCALE

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KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

TS-13

CAD FILE: 3220_Interconnect.dwg

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=40'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
DATE 11/03/25
DESIGNED BY: D. MURPHY
DATE 11/03/25
CHECKED BY: K. CALIA
R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd Suite 255
Roseville, CA 95678
(916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

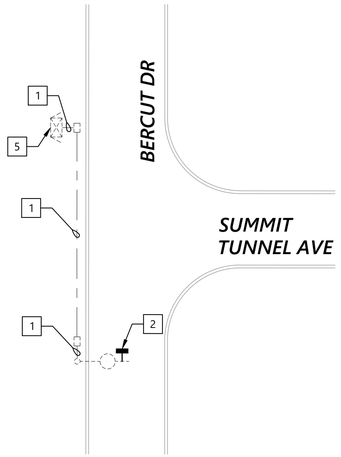
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

TRAFFIC SIGNAL INTERCONNECT PLAN
RAILYARDS BLVD

T15136000

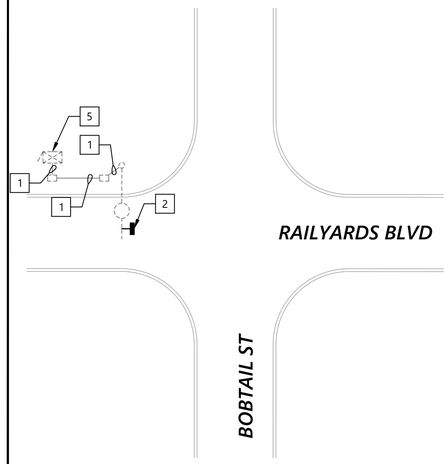
SHEET 171 — OF — 648

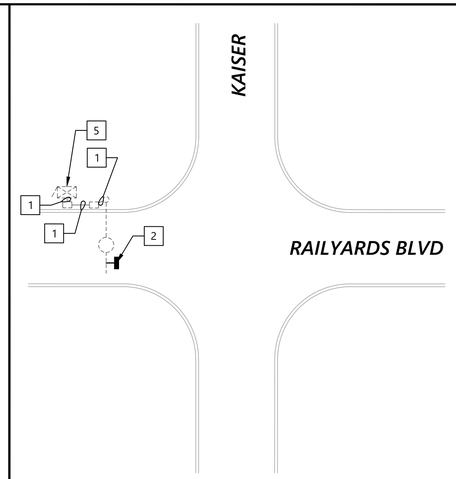
PLOT DATE: 11/3/2025 6:01:03 PM

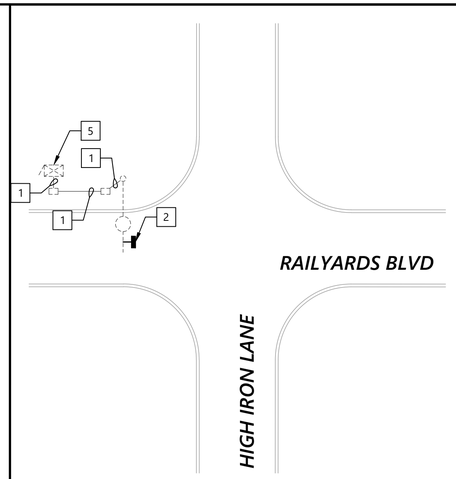


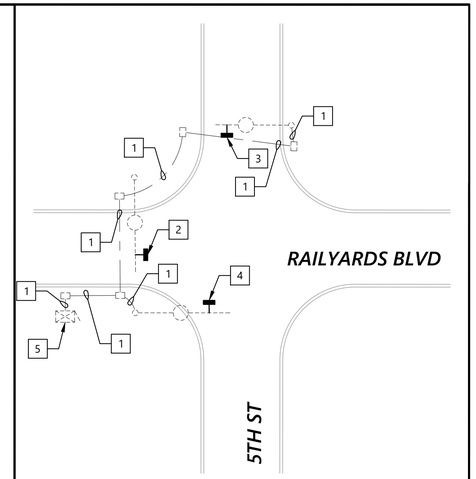
PROJECT NOTES (THIS SHEET ONLY):

1. INSTALL 2#14 (Activated Blank-out) IN EXISTING CONDUIT.
2. FURNISH AND INSTALL NEW BRIDGE UP AHEAD ACTIVATED BLANK-OUT SIGN PER DETAIL 1 ON THIS SHEET ONTO EXISTING SIGNAL MAST ARM.
3. FURNISH AND INSTALL NEW BRIDGE UP AHEAD ACTIVATED BLANK-OUT SIGN PER DETAIL 2 ON THIS SHEET ONTO EXISTING SIGNAL MAST ARM.
4. FURNISH AND INSTALL NEW BRIDGE UP AHEAD ACTIVATED BLANK-OUT SIGN PER DETAIL 3 ON THIS SHEET ONTO EXISTING SIGNAL MAST ARM.
5. NEW ACTIVATED BLANK-OUT PHASE TO BE PROGRAMMED ON PED YELLOW PER THE CITY ENGINEER'S DIRECTION.









BLANK-OUT SIGN DETAIL 1
NOT TO SCALE

BLANK-OUT SIGN DETAIL 2
NOT TO SCALE

BLANK-OUT SIGN DETAIL 3
NOT TO SCALE

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KRISTIN D. CALIA
No. 62691
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

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TS-14

CAD FILE: 3220_Blank-Out.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
DATE 11/03/25

DESIGNED BY: D. MURPHY
DATE 11/03/25

CHECKED BY: _____
R.C.E. _____ DATE 11/03/25

FEHR PEERS
1013 Galleria Blvd Suite 255
Roseville, CA 95678 (916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

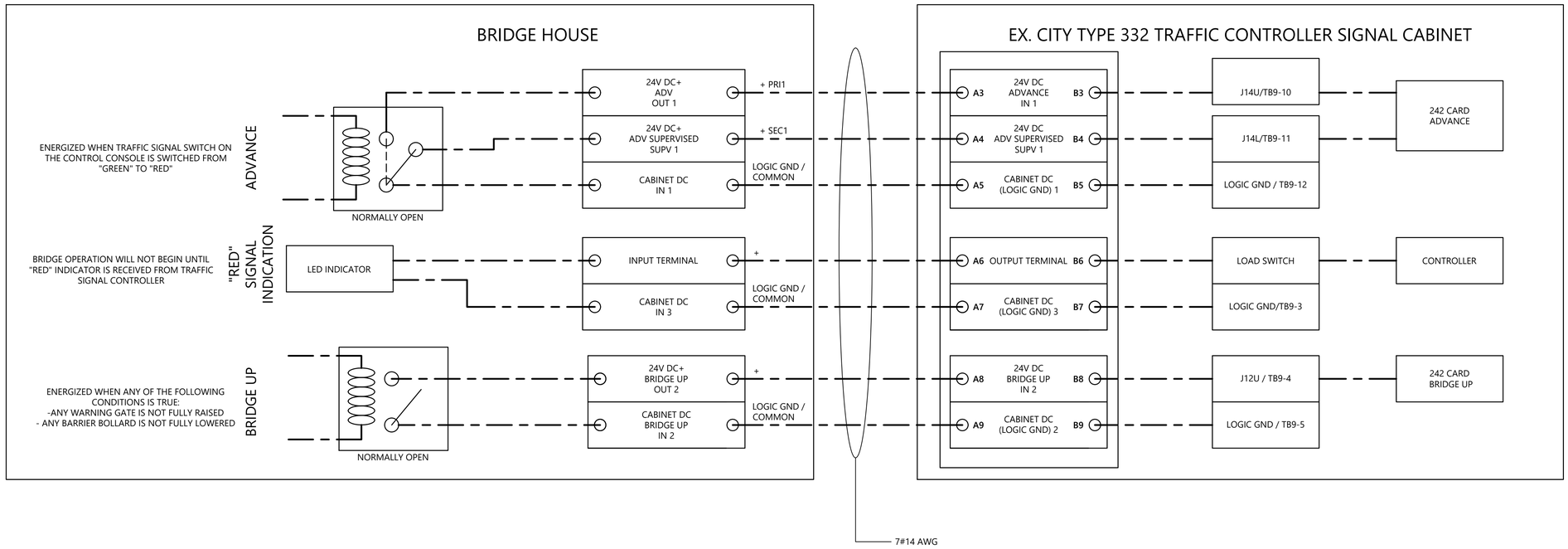
I STREET BRIDGE REPLACEMENT

BRIDGE-UP ADVANCE WARNING SIGNS

T15136000

SHEET 172 OF 648

PLOT DATE: 11/3/2025 6:01:07 PM



ADVANCE CIRCUIT SUPERVISED PREEMPTION CIRCUIT LOGIC		
MODEL 242 INPUT		PREEMPTION STATE
PRIM	SECONDARY	
HIGH	LOW	NORMAL
LOW	HIGH	PREEMPT
HIGH	HIGH	FAULT (ALL-RED)
LOW	LOW	FAULT (ALL-RED)

CONTROLLER LOGIC PROGRAMMED TO GO INTO ALL-RED ON FAULT CONDITION.
ADVANCED OUTPUT ENERGIZED WHEN RUNNING AND DE-ENERGIZED WHEN IN PREEMPT.
IF PRIMARY AND SECONDARY STATE MATCH THE CONTROLLER WILL GO INTO FAULT.

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KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-15

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
DATE 11/03/25

DESIGNED BY: D. MURPHY
DATE 11/03/25

CHECKED BY: K. CALIA
R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd Suite 255
Roseville, CA 95678
(916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

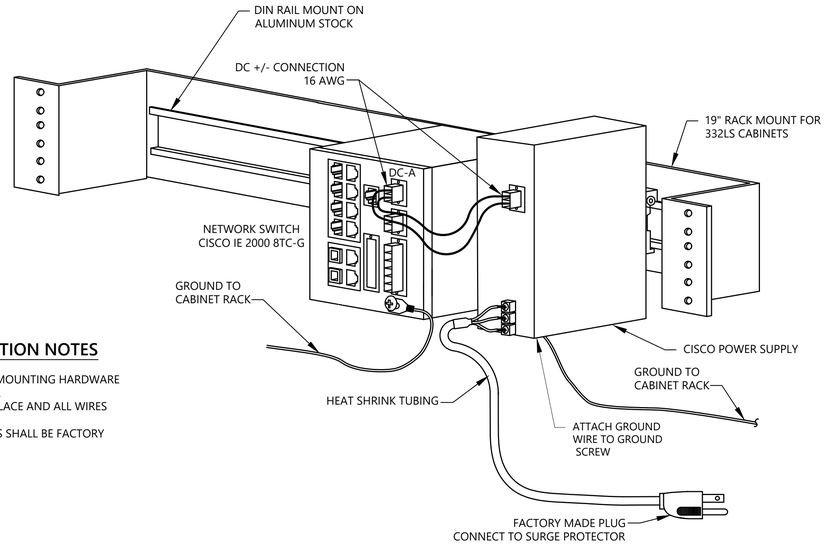
I STREET BRIDGE REPLACEMENT
DRAW-BRIDGE PREEMPTION WIRING DIAGRAM

T15136000

SHEET 173 — OF — 648

CAD FILE: 3220_Draw-Bridge_Preempt.dwg

PLOT DATE: 11/3/2025 6:01:09 PM



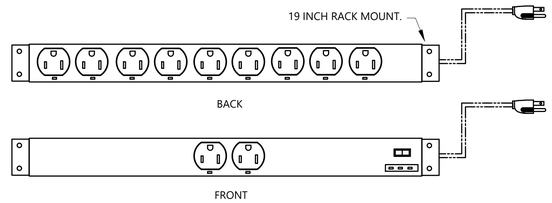
GENERAL COMMUNICATION NOTES

1. CONTRACTOR SHALL FURNISH ALL MOUNTING HARDWARE FOR COMMUNICATION EQUIPMENT.
2. ALL WIRES SHALL BE WIRE TIED IN PLACE AND ALL WIRES SHALL BE WELL ORGANIZED.
3. WHEN EVER POSSIBLE CONNECTORS SHALL BE FACTORY MADE.

TYPICAL NETWORK SWITCH MOUNTING 332 AND 333 CABINET

SURGE SUPPRESSOR GENERAL NOTES

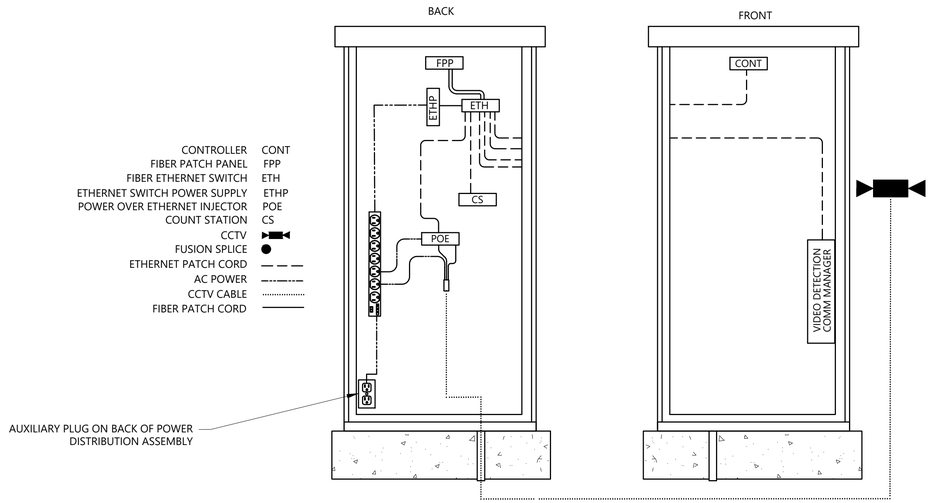
1. SURGE SUPPRESSOR SHALL BE TRIPP-LITE ISOBAR PREMIUM SURGE AND NOISE SUPPRESSOR, MODEL #ISOBAR12ULTRA, OR APPROVED EQUAL FOR TYPE 332 CABINETS.
2. SURGE SUPPRESSOR SHALL BE PLUGGED ACCESSORY PLUG ON THE BACK OF THE POWER DISTRIBUTION ASSEMBLY



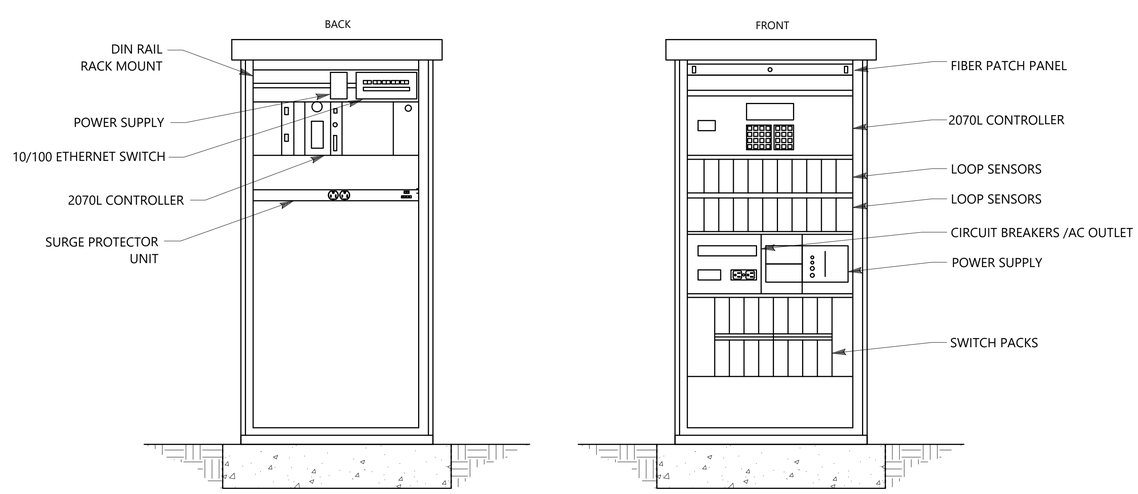
SURGE SUPPRESSOR FOR 332 CABINET
N.T.S.

GENERAL COMMUNICATION NOTES

1. CONTRACTOR IS TO PROVIDE ALL NECESSARY EQUIPMENT IN TRAFFIC CABINET TO PROVIDE COMMUNICATION TO THE TRAFFIC OPERATION CENTER.
2. CONTRACTOR SHALL FURNISH ALL MOUNTING HARDWARE FOR COMMUNICATION EQUIPMENT.
3. ALL WIRES SHALL BE WIRE TIED IN PLACE AND ALL WIRES SHALL BE WELL ORGANIZED.
4. WHEN EVER POSSIBLE CONNECTORS SHALL BE FACTORY MADE.
5. NUMBER OF DEVICE VARIES BY INTERSECTION.



TYPICAL IN CABINET COMMUNICATION ROUTING 332 CABINET



TYPICAL IN 332 CABINET FIBER COMMUNICATION MOUNTING

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KRISTIN D. CALIA
No. 62461
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CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

TS-16

CAD FILE: 3220_TS.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. N/A
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. RAMONES DATE 11/03/25
DESIGNED BY: D. MURPHY DATE 11/03/25
CHECKED BY: K. CALIA R.C.E. 62461 DATE 11/03/25

FEHR PEERS
1013 Galleria Blvd Suite 255 Roseville, CA 95678 (916) 773-1900
UNDER THE SUPERVISION OF: KRISTIN CALIA R.C.E. _____ EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

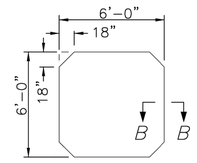
SACRAMENTO ELECTRICAL DETAILS

T15136000

SHEET 174 — OF — 648

LEGEND

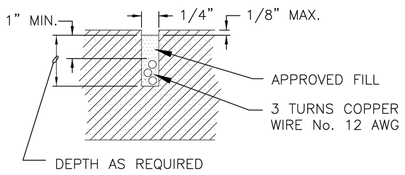
EXISTING	PROPOSED	
		EMERGENCY VEHICLE DETECTOR (EV)
		TRAFFIC SIGNAL FACE WITH BACK PLATE
		TRAFFIC SIGNAL FACE WITH 12" ARROW SECTIONS
		TYPE 1 STANDARD AND ATTACHED TRAFFIC SIGNAL FACES
		STANDARD WITH SIGNAL MAST ARM ONLY AND ATTACHED TRAFFIC SIGNAL FACES
		STANDARD WITH SIGNAL AND LUMINAIRE MAST ARMS AND ATTACHED TRAFFIC SIGNAL FACES AND LUMINAIRE
DETECTOR HANDHOLE	DETECTOR HANDHOLE	INDUCTIVE LOOP DETECTOR, WITH DETECTOR HANDHOLE AND LOCATION OF SAWCUTS
		VIDEO DETECTION ZONE
		ELECTROLIER, TYPE 15 STANDARD WITH MAST ARM WITH CIRCUIT No. INDICATED.
		PEDESTRIAN SIGNAL FACE, 2 SECTIONS ELECTROLIER, POST TOP WITH CIRCUIT No. INDICATED.
		(INTERNATIONAL SYMBOL)
		CONTROLLER CABINET
		SERVICE PEDESTAL
		CONCRETE PULL BOX No. 5 MINIMUM
ppb	PPB	PEDESTRIAN PUSH BUTTON
		FIRE ALARM BOX
		TRAFFIC SIGNAL CONDUIT
OH		OVERHEAD CONDUCTOR
		PEDESTRIAN PUSH BUTTON POST
		S.M.U.D. SERVICE BOX
		POWER POLE
		VIDEO DETECTION CAMERA
		CCTV



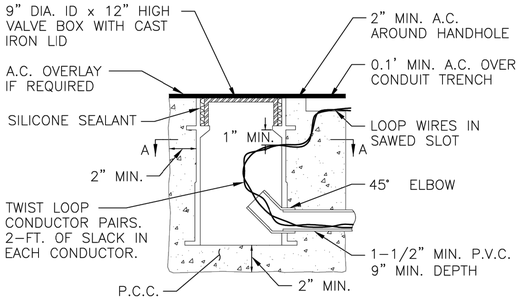
LOOPS SHALL BE 6'X6' FOR LANE WIDTH > 11', UNLESS OTHERWISE SPECIFIED

LOOPS SHALL BE 5'X5' FOR LANE WIDTH LESS THAN OR EQUAL TO 10', UNLESS OTHERWISE SPECIFIED

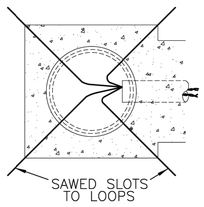
6'X6' LOOP



SECTION B–B
LOOP SAW CUTTING DETAIL



TYPE 'B' DETECTOR



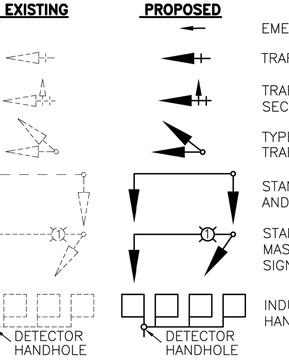
SECTION A–A
DETECTOR HANDHOLE

TYPE 'B' DETECTOR HANDHOLE INSTALLATION REQUIREMENTS:

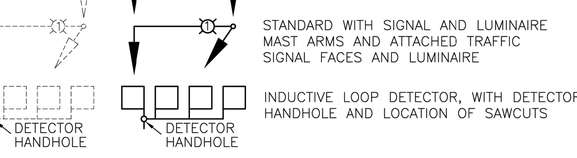
1. OUTLINE OF TRENCH SHALL BE SAW CUT TO A MINIMUM DEPTH OF 3'' EXCEPT WHERE AC OVERLAY IS TO BE PLACED.
2. THE PRECAST VALVE BOX WITH CAST IRON LID SHALL BE FABRICATED OF CALCIUM CARBONATE AND POLYESTER RESINS WITH FIBERGLASS REINFORCING AND DESIGNED FOR HEAVY TRAFFIC LOADS.
3. CAST IRON LID SHALL BE MARKED ''DETECTOR'' AND SHALL BE SECURED IN PLACE BY APPLYING WATERPROOF SILICONE SEALANT. VALVE BOX SHALL BE CENTERED ON LANE LINE, UNLESS OTHERWISE SHOWN ON THE PLANS.
4. THE EXCAVATION AROUND THE HANDHOLE SHALL BE BACKFILLED WITH P.C.C. EXCEPT THE TOP 2'' IN AC SURFACED ROADWAYS SHALL BE BACKFILLED WITH AC.
5. THE HANDHOLE SHALL BE PROTECTED WITH COLD PATCH OR OTHER SUITABLE PROTECTION UNTIL PERMANENT AC BACKFILL IS PLACED.

GENERAL NOTES

1. ALL WORK TO BE PERFORMED SHALL BE IN ACCORDANCE WITH: CITY OF SACRAMENTO LATEST CITY STANDARDS SPECIFICATIONS, THE LATEST CAL TRANS STANDARD PLANS, AND THE LATEST CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL MATERIAL TO BE REMOVED AND SALVAGED, SHALL BE DELIVERED TO THE CITY CORPORATE CENTER WITHOUT DAMAGE. COORDINATE WITH CITY ENGINEER.
3. ALL TERMINAL COMPARTMENTS LOCATED ON STANDARDS SHALL BE MOUNTED ON THE SIDE FARTHEST FROM VEHICULAR TRAFFIC. UNLESS OTHERWISE SPECIFIED, OR DIRECTED BY THE ENGINEER.
4. PULL BOXES SHALL BE PLACED IN SIDEWALK AREAS AND SHALL NOT BE PLACED IN DRIVEWAYS, IN VEHICULAR TRAFFIC LANES, OR IN SIDEWALK HANDICAPPED RAMP AREAS.
5. CONDUCTORS BETWEEN BASE OF ELECTROLIER AND LUMINAIRE SHALL BE No. 10 THW MINIMUM.
6. THREE FEET OF SLACK SHALL BE PROVIDED IN EACH PULL BOX FOR EACH CONDUCTOR.
7. EXACT LOCATIONS OF ALL STANDARDS, PEDESTALS AND CABINETS WILL BE DETERMINED BY THE ENGINEER PRIOR TO INSTALLATION, AND SHALL BE AT LEAST 3 FEET FROM FACE OF CURB.
8. ALL TRAFFIC SIGNAL HEADS SHALL HAVE A BACK PLATE WITH 2" YELLOW RETROREFLECTIVE BORDER.
9. AT ALL JUNCTIONS SUCH AS PULL BOXES, ELECTROLIER BASES, AND PEDESTALS WHERE PVC CONDUITS ARE INSTALLED, ALL RIGID GALVANIZED CONDUITS AT THESE LOCATIONS SHALL BE PROVIDED WITH GROUNDING BUSHINGS AND CONNECTED TO THE GROUNDING CONDUCTORS.
10. ALL LUMINAIRES SHALL BE SUPPLIED WITHOUT PHOTO CELL RECEPTACLES UNLESS OTHERWISE SPECIFIED.
11. PULL ROPES USED TO PULL CONDUCTORS IN CONDUIT SHALL BE A MINIMUM OF 1/4" IN DIAMETER.
12. SEE SPECIAL PROVISIONS FOR LOOP CONDUCTOR AND LEAD–IN SPECIFICATIONS.
13. LOOP DIMENSIONS SHALL BE 6' x 6' SQUARES LOOPS UNLESS OTHERWISE SHOWN ON THE PLANS.

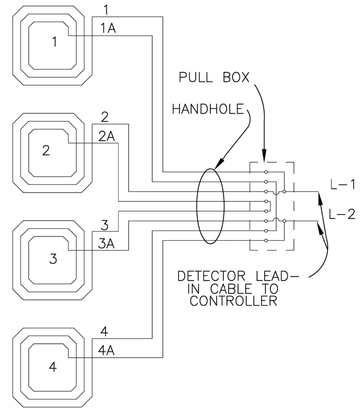


PULL BOX DIMENSIONS		
PULL BOX	A	B
5	18"	27–1/2"
6	22"	35"

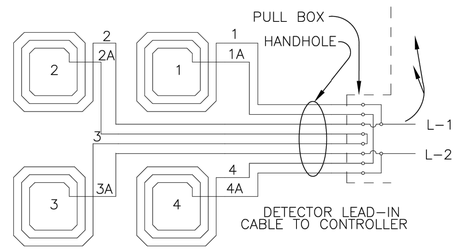


INSTALL PULL BOX ON TOP OF CRUSHED ROCK FOUNDATION. ADJUST PULL BOX TO GRADE. THE CRUSHED ROCK FOUNDATION SHALL HAVE A MINIMUM OF 12" IN DEPTH AND CONTINUE TO EXTEND A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF THE PULL BOX. COMPACT CRUSHED ROCK WHILE MAINTANING INTEGRITY OF CONDUIT. CONDUIT AND PULL BOX SHALL NOT BE DAMAGED NOR CRACKED.

CONCRETE PULL BOX



FOUR LOOPS IN TURN LANE



FOUR LOOPS IN THRU LANES

LOOP WINDING PATTERNS

APPROVED BY : _____ E–16605 08/01/2023
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER — P.E. — DATE

CAD FILE:

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION _____

FIELD BOOK -

SCALE
HORIZ. _____
VERT. _____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

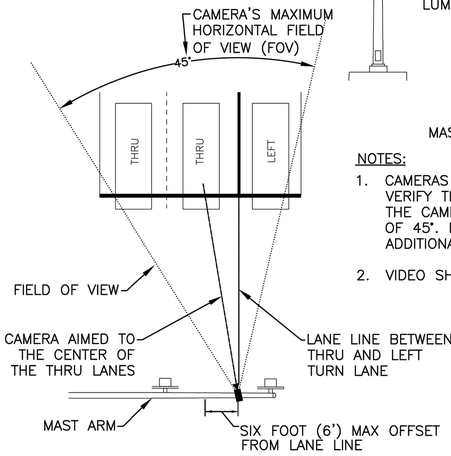
DRAWN BY: TECHNICIAN — DATE _____
DESIGN BY: J. MATOBA — R.C.E. E–16605 DATE _____
CHECKED BY: J. MATOBA — R.C.E. E–16605 DATE 06/15/24

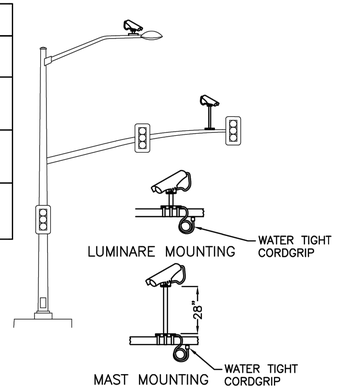
IMPROVEMENT PLANS FOR
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
SACRAMENTO ELECTRICAL STANDARD DETAILS

DWG. NO. TS-17
SHEET 175 OF 648

VIDEO DETECTION FIELD OF VIEW AND MOUNTING DETAIL

VIDEO DETECTION		
NUMBER OF APPROACH LANES	QTY OF CAMERAS	CAMERA MOUNTING
6 LANES + BIKE LANE OR LESS	1	MAST ARM
GREATER THAN 6 LANES + BIKE LANE	2	LUMINAIRE ARM
SPLIT PHASE	1	LUMINAIRE ARM





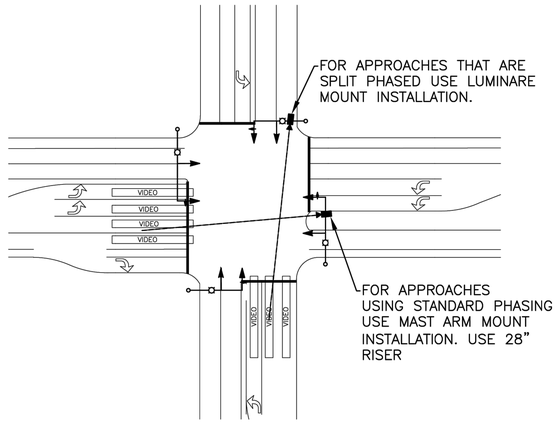
NOTES:

1. CAMERAS FIELD OF VIEW (FOV) SHALL BE CHECKED TO VERIFY THAT THE CAMERA CAN DETECT ALL LANES. THE CAMERA SHALL HAVE A MAXIMUM HORIZONTAL FOV OF 45°. IF ALL LANES DO NOT FIT IN THE FOV THEN ADDITIONAL CAMERAS OR LOOPS WILL BE REQUIRED.
2. VIDEO SHALL BE USED FOR STOPBAR DETECTION ONLY.

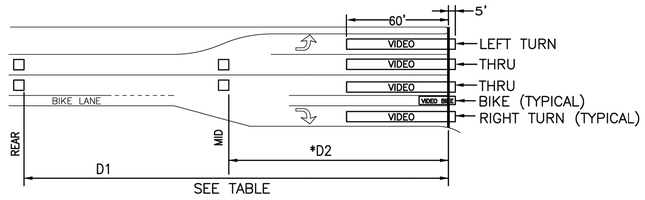
NOTE: DETAIL DEMOSTRATES FOV AND AIMING ONLY. DOES NOT DENOTE THE AMOUNT OF DETECTED LANES.

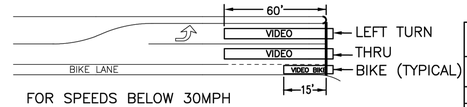
SINGLE CAMERA DETECTION MOUNTING

FOR APPROACHES 6 LANES + BIKE LANE OR LESS



TYPICAL DETECTOR LAYOUT VIDEO & LOOPS





FOR SPEEDS BELOW 30MPH

NOTES:

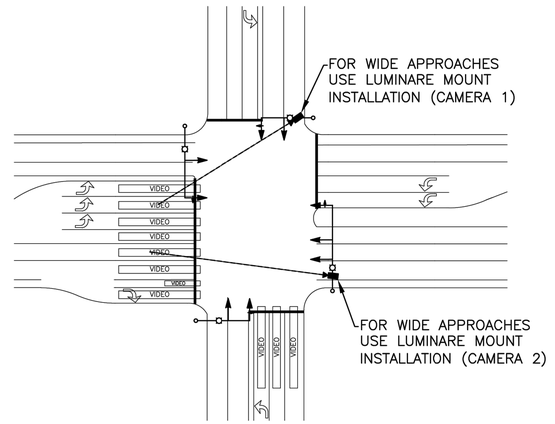
1. NOMINAL LOOP SIZE TO BE 6'x6'.
2. EACH REAR AND MID LOOP SHALL HAVE A ONE DLC.

LOOP DISTANCE		
DESIGN OR 85TH SPEED	REAR D1	MID D2*
BELOW 30 MPH	N/A	
30 MPH	175'	
35 MPH	200'	
40 MPH	250'	
*45 MPH	300'	200'
*50 MPH	350'	225'
*55 MPH	405'	250'

'*' MID (D2) LOOP TO BE INSTALLED AT THE DISCRETION OF THE CITY TRAFFIC ENGINEER.

DUAL CAMERA DETECTION MOUNTING

FOR APPROACHES GREATER THAN 6 LANES + BIKE LANE



APPROVED BY : JOHN MATOBA, SENIOR ELECTRICAL ENGINEER — E-16605 P.E. — 08/01/2023 DATE

CAD FILE:

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION _____

FIELD BOOK -

SCALE
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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

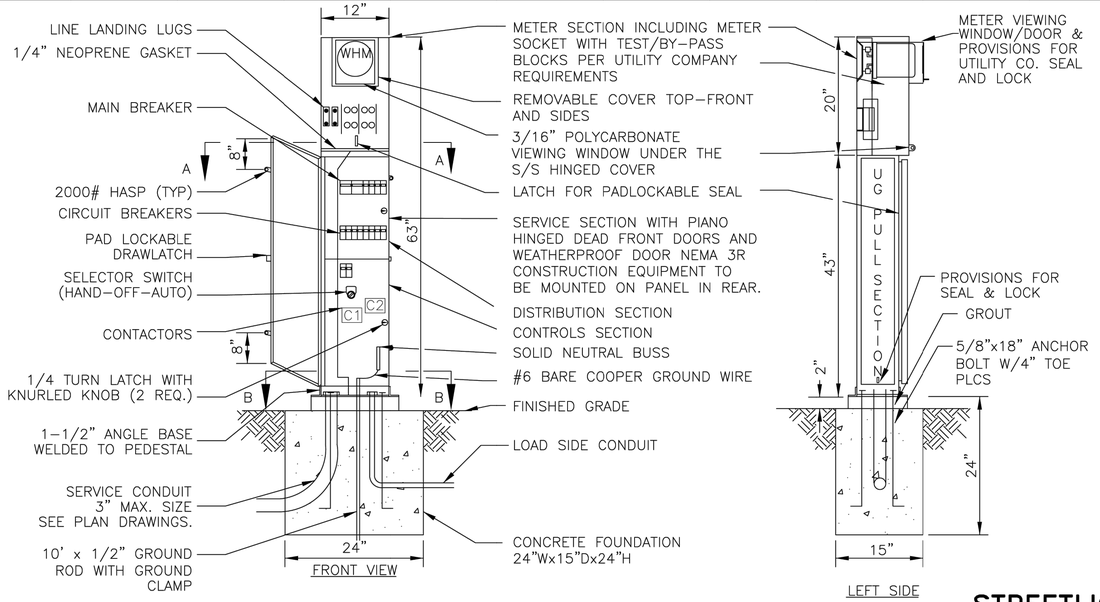
DRAWN BY: TECHNICIAN — DATE _____
DESIGN BY: J. MATOBA — R.C.E. E-16605 DATE _____
CHECKED BY: J. MATOBA — R.C.E. E-16605 DATE 06/15/24

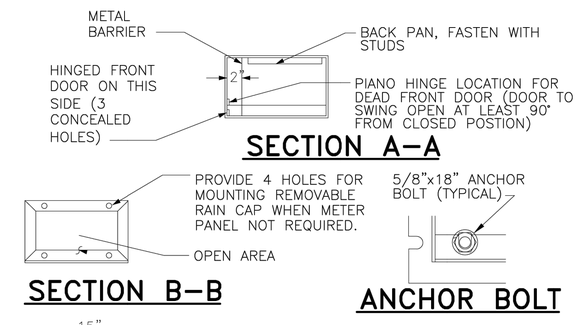
IMPROVEMENT PLANS FOR
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
SACRAMENTO ELECTRICAL STANDARD DETAILS

DWG. NO. TS-18
SHEET 176 OF 648

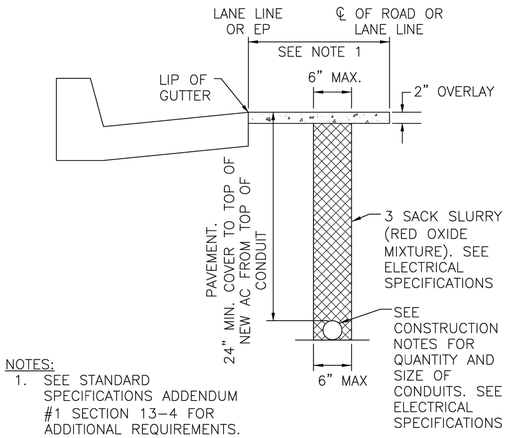
PLOT STAMP:Wednesday, April 9, 2025 11:15:25 AM
CAD FILE: P:\Engineering Services\TechDoc\Drawings\1Standard Details for Traffic Signals and StreetLights\Electrical Details Signed by John Matoba\Electrical Standard Details.dwg

EXISTING	NEW	DESCRIPTION
○	① CIRCUIT NO.	ORNAMENTAL OR POST TOP STREETLIGHT
	① CIRCUIT NO.	MASTARM STREETLIGHT
		CONDUIT
		PULL BOX
		SERVICE PEDESTSAL
		SMUD SERVICE POLE
		SMUD SERVICE SIDEWALK BOX
		TRAFFIC SIGNAL CABINET
		TRAFFIC SIGNAL DISPLAY
		TRAFFIC SIGNAL DISPLAY LEFT TURN
		VIDEO DETECTION CAMERA
		CCTV CAMERA
S		PEDESTRIAN SIGNAL DISPLAY



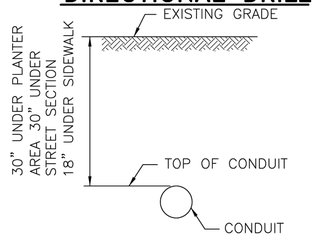


EXISTING STREET CONSTRUCTION

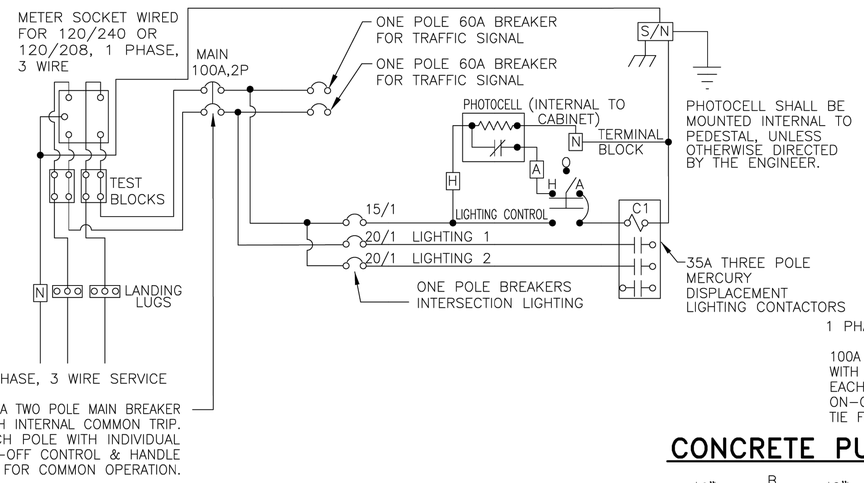


NOTES:
1. SEE STANDARD SPECIFICATIONS ADDENDUM #1 SECTION 13-4 FOR ADDITIONAL REQUIREMENTS.

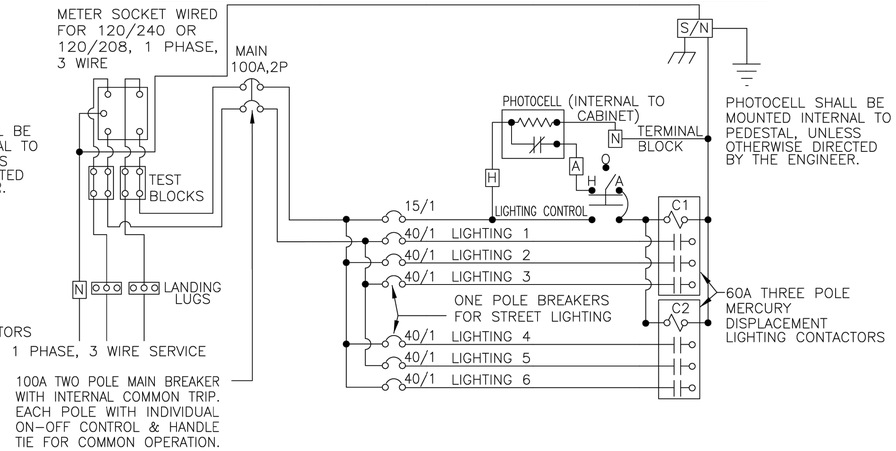
DIRECTIONAL DRILL



TRAFFIC SIGNAL METERED SERVICE PEDESTAL



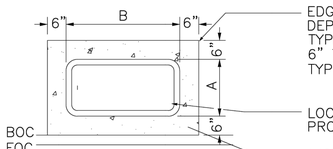
STREETLIGHT METERED SERVICE PEDESTAL



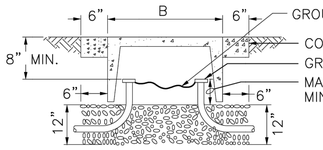
ENCLOSURE CONSTRUCTION NOTES:

1. EXTERIOR 14 GAUGE #304D STAINLESS STEEL, INTERIOR DEAD FRONT PANEL AND BACK PAN SHALL BE 14 GAUGE STEEL PAINTED WHITE ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION IS NEMA 3R AND 12, RAINTIGHT AND DUSTTIGHT.
3. ALL NUTS, BOLTS, SCREWS AND HINGES SHALL BE STAINLESS STEEL.
4. NUTS, BOLTS & SCREWS ARE NOT USED ON THE OUTSIDE OF PEDESTAL.
5. PHENOLIC NAMEPLATES TO IDENTIFY ALL OPERATOR CONTROLS
6. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. PEDESTAL WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA STANDARDS.
9. PEDESTAL(S) WILL BE U.L. LISTED AS INDUSTRIAL CONTROL PANELS U.L. 508 FILE NO. E62062
10. WIRING BETWEEN CIRCUIT BREAKER AND CONTACTOR SHALL BE A #10 THWN OR THHN MINIMUM.
11. SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

CONCRETE PULL BOX



PULL BOX DIMENSIONS		
PULL BOX	A	B
5	18"	27-1/2"
6	22"	35"



INSTALL PULL BOX ON TOP OF CRUSHED ROCK FOUNDATION. ADJUST PULL BOX TO GRADE. THE CRUSHED ROCK FOUNDATION SHALL HAVE A MINIMUM OF 12" IN DEPTH AND CONTINUE TO EXTEND A MINIMUM OF 6" BEYOND THE OUTSIDE EDGE OF THE PULL BOX. COMPACT CRUSHED ROCK WHILE MAINTANING INTEGRITY OF CONDUIT. CONDUIT AND PULL BOX SHALL NOT BE DAMAGED NOR CRACKED.

APPROVED BY : _____ E-16605 04/07/2025
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER — P.E. — DATE

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION _____

FIELD BOOK N/A
SCALE HORIZ. N/A VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: STAFF DATE _____
DESIGNED BY: STAFF R.E.E. _____ DATE _____
CHECKED BY: J. MATOBA R.E.E. E-16605 DATE _____

IMPROVEMENT PLANS FOR
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
SACRAMENTO ELECTRICAL STANDARD DETAILS

PN:
DWG. NO. TS-19
SHEET 177 OF 648

PLOT STAMP:

FIBER INSTALLATION GENERAL NOTES:

1. CONTRACTOR SHALL INSTALL ALL FIBER OPTIC CABLE PER MANUFACTURER'S RECOMMENDATIONS AND THE CITY'S PLANS AND SPECIAL PROVISIONS.
2. CONTRACTOR SHALL USE CITY APPROVED CONTRACTOR FOR ALL SPLICE WORK. ALL PATCH PANELS AND SPLICE MATERIALS WILL BE PROVIDED BY THE CONCTRACTOR OR CITY APPROVED CONTRACTOR.
3. THE CONTRACTOR SHALL TEST ALL FIBER OPTIC CABLE SPANS AFTER INSTALLATION (BARE FIBER TESTING). TESTING RESULTS MUST BE PROVIDED TO THE CITY INSPECTOR. TESTS SHALL DEMONSTRATE FIBER OPTIC CABLE STILL MEETS THE MANUFACTURE SPECIFICATIONS AFTER INSTALLATION. CITY SHALL APPROVE TEST RESULTS. CONTRACTOR SHALL NOT SCHEDULES SPLICE WORK UNTIL CABLE IS ACCEPTED BY THE CITY. SPLICE WORK SHALL BE PREFORMED BY A CITY APPROVED CONTRACTOR.
4. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL SHEATH FOOTAGE MARKINGS FOR EACH CABLE SPAN. RECORDS AND A SOFT COPY OF ALL RECORDS SHALL BE PROVIDED TO THE CITY WITH TEST RESULTS ALONG WITH THE PROGRAM TO REVIEW THE SOFT COPY OF THE TEST RESULTS.
5. EXISTING FIBER OPTIC CABLE MUST BE PROTECTED FROM DAMAGE. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR 24 HOURS PRIOR TO WORKING NEAR ANY EXISTING CITY FIBER OPTIC CABLING.
6. DURING INSTALLATION THE TENSILE FORCE SHALL NOT EXCEED 600 LBS. THE CONTRACTOR SHALL USE A BREAK AWAY SWIVEL, OR A SLIP-CLUTCH CAPSTAN, SET FOR LESS THEN 600 LBS. PULLING TENSILE STRENGTH.
7. THE CONTRACTOR SHALL INSTALL FIBER MARKING TAGS SHALL BE INSTALLED ON FIBER OPTIC CABLE IN EVERY PULL BOX. THE TAGS SHALL BE NON-ADHESIVE, HELLERMANN-TYTON 4" FIBER OPTIC MARKER, PART NUMBER CMF04 OR APPROVED EQUAL.
8. THE CONTRACTOR SHALL INSTALL ARNCO BULL LINE PART #WP12LC (WITH TRACE WIRE) OR APPROVED EQUAL WITH THE FIBER OPTIC CABLE

FIBER OPTICS CABLE GENERAL NOTES:

1. FIBER OPTIC CABLE SHALL BE CORNING ALTOS ALL-DIELECTRIC GEL-FREE OR APPROVED EQUAL, SEE SPECIAL PROVISIONS. APPROVAL SHALL BE BY TRAFFIC OPERATION STAFF.
2. CONTRACTOR SHALL INSTALL FIBER PER MANUFACTURE RECOMMENDATION.
3. CONTRACTOR SHALL USE THE FOLLOWING CABLE TYPES AS LISTED BELOW OR APPROVED EQUAL. APPROVAL SHALL BE BY THE CITIES TRAFFIC SIGNAL OPERATIONS STAFF.

FIBER SPLICING/TERMINATION GENERAL NOTES:

1. CONTRACTOR SHALL USE CITY APPROVED FIBER CONTRACTOR FOR ALL FIBER TERMINATION.
2. A LIST OF CITY APPROVED FIBER TERMINATION CONTRACTORS CAN BE OBTAIN FORM THE CITY'S INFORMATION TECHNOLOGY DEPARTMENT AT 808-8785 OR FROM TRAFFIC SIGNAL OPERATION GROUP AT 808-6796.
3. ALL TERMINATION / SPLICE WORK WILL BE PERFORMED BY CITY APPROVED CONTRACTOR. ALL PATCH PANELS AND SPLICE MATERIALS WILL BE PROVIDED BY CITY APPROVED CONTRACTOR.
4. THE CONTRACTOR SHALL CONTACT THE TRAFFIC SIGNAL OPERATIONS GROUP AT 808-6796 FOR FIBER TERMINATION TABLE AND/OR DIAGRAMS.
5. THE CONTRACTOR SHALL HAVE CITY APPROVED CONTRACTOR TEST ALL FIBER OPTIC CIRCUITS. TESTING RESULTS MUST BE PROVIDED TO THE CITY INSPECTOR. AFTER FIBER OPTIC CABLE TESTS DEMONSTRATE THE FIBER OPTIC CABLE STILL MEETS THE MANUFACTURES SPECIFICATIONS, THE CABLE AND TERMINATION WORK WILL BE ACCEPTED BY THE CITY.

FIBER OPTIC CABLE		
DESCRIPTION	PART #	MANUFACTURER
12 STRAND	012ZU4-T4F22D20	CORNING
12 STRAND SST DROP (FLAT)	012EB4-14101A20	CORNING
24 STRAND	024ZU4-T4F22D20	CORNING
48 STRAND	048EU4-T4F22D20	CORNING
96 STRAND	096EU4-T4700D20 OR 096EU4-T4701D20	CORNING CORNING

FIBER PATCH CABLE (OS2 JUMPERS)		
DESCRIPTION	PART #	MANUFACTURER
1m	040402G512001M	CORNING
2m	040402G512002M	CORNING

TRACER TAPE		
DESCRIPTION	PART #	MANUFACTURER
DETECTABLE MULE TAPE	DT1250P	NEPTCO DT1250P OR DURA LINE WP12LC

FIBER OPTICS CABLE TESTING GENERAL NOTES (BARE FIBER TEST):

ALL TESTING SHALL BE PERFORMED ACCORDING TO THE TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) TECHNICAL SERVICE BULLETIN TSB-140, "ADDITIONAL GUIDELINES FOR FIELD – TESTING LENGTH, LOSS AND POLARITY OF OPTICAL FIBER CABLING SYSTEMS."

1. THE CONTRACTOR MAY TEST THE FIBER OPTIC CABLE PRIOR TO INSTALLATION, BUT MUST TEST FIBER OPTIC CABLE AFTER INSTALLATION.
2. THE CONTRACTOR SHALL TEST EACH FIBER IN THE CABLE.
3. A CONTINUITY TEST USING A POWER METER SHALL BE USED FOR 12 STRAND CABLES LESS THAN 200 FEET. POWER READING SHALL BE PROVIDED WITH TEST RESULTS.
4. THE CONTRACTOR SHALL USE BOTH A POWER METER TEST FOR CONTINUITY AND AN OPTICAL TIME DOMAIN REFLECTOMETER (OTDR) TO TEST ALL OTHER CABLE SPANS GREATER THAN 12 STRANDS OR LONGER THAN 200 FEET. PROOF OF CALIBRATION OF ALL FIBER OPTIC TEST EQUIPMENT MAY BE REQUESTED BY THE INSPECTOR AT ANY TIME, AND MUST BE PROVIDED ALONG WITH THE TEST RESULTS.
5. THE FIBER OPTIC CABLE SHALL MEET OR EXCEED ANSI/EIA/TIA – 568B.3 AND THE LATEST BICSI TDMM STANDARDS.
6. TEST RESULTS SHALL INCLUDE THE FOLLOWING:
   - TOTAL FIBER LENGTH
   - INDIVIDUAL FIBER TRACES FOR COMPLETE FIBER LENGTH
   - LOSSES OF ALL ANOMALIES
   - WAVELENGTH TESTED AND MEASUREMENT DIRECTIONS
   - MANUFACTURER, MODEL NUMBER AND SERIAL NUMBER OF TEST EQUIPMENT
   - NAME, SIGNATURE AND COMPANY TECHNICIAN/ENGINEER
   - TEST EQUIPMENT CALIBRATION CERTIFICATE FOR ALL FIBER TEST EQUIPMENT
   - TEST DATE
7. THE CONTRACTOR SHALL PROVIDE THE TEST RESULTS TO THE CITY INSPECTOR. IF FIBER OPTIC CABLE FAILS TO MEET CABLE TESTING STANDARDS AND ARE NOT APPROVED BY THE CITY, THE CONTRACTOR SHALL REMOVE THE FAILED FIBER OPTIC CABLE AND REPLACE WITH NEW FIBER OPTIC CABLE AT NO ADDITIONAL COST TO THE CITY. NEW FIBER OPTIC CABLE SHALL BE TESTED ACCORDING TO CABLE TESTING REQUIREMENTS IN THESE SPECIAL PROVISIONS.

CONTROLLER COMMUNICATION GENERAL NOTES:

1. THE TRAFFIC SIGNAL CONTROLLER SHALL COMMUNICATE VIA ETHERNET INTERFACE MODULE. IF A NETWORK SWITCH OR ETHERNET OVER COPPER DEVICE IS SPECIFIED, THEN THE TRAFFIC CONTROLLER SHALL HAVE ETHERNET INTERFACE MODULE.
2. CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTION TO PROVIDE COMMUNICATION TO THE CITY OF SACRAMENTO'S TRAFFIC OPERATION CENTER EXCEPT FOR FIBER SPLICES. FIBER SPLICES SHALL BE COMPLETED BY CITY FORCES AND SHALL BE COMPLETED BEFORE SIGNAL TURN ON

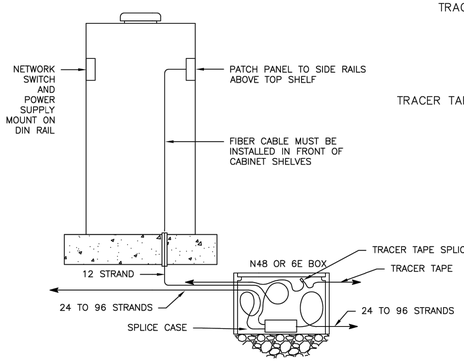
CITY CONTACTS FOR COMMUNICATION & FIBER OPTIC CABLE:

1. CITY OF SACRAMENTO, TRAFFIC OPERATION CENTER, (916) 808-5067
2. CITY OF SACRAMENTO, DEPARTMENT OF INFORMATION TECHONOLGY,(916) 808-8785

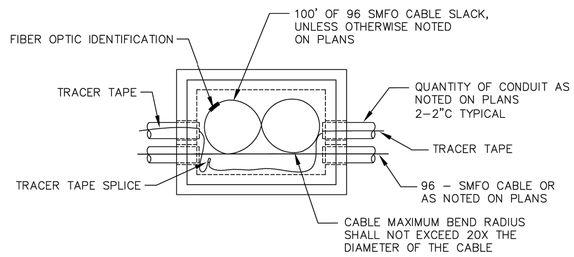
FIBER PATCH PANEL FOR IN-CABINET USE		
DESCRIPTION	PART #	MANUFACTURER
FIBER PATCH PANEL IN 'R' CABINET	SPH-01P WITH 12 STRAND ADAPTER LC PANEL AND SMFO PIGTAIL SPH-CS12-A9-P00RE	CORNING

FIBER PATCH PANEL FOR IN-CABINET USE		
DESCRIPTION	PART #	MANUFACTURER
FIBER PATCH PANEL IN 332 CABINET	CCH-01U (OR CCH-04U) PATCH PANEL (RACK CHANNEL STAND-OFF BRACKET #12309-704) WITH CCH-CS12-A9-P00RE SPLICE CASSETTE STANDARD DENSITY. CCH-CS24-A9-P00RE HIGH DENSITY, IF SPECIFIED.	CORNING

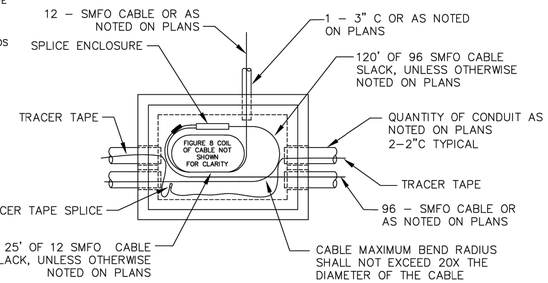
SPLICE CASE		
DESCRIPTION	PART #	MANUFACTURER
SPLICE CASE – DOME CLOSURE 6.5X22	8006877	COYOTE
SPLICE TRAY – LONG LOW-PROFILE FOR UP TO 96 STRAND	80805514	COYOTE
SPLICE CASE – DOME CLOSURE 6.5X17	8006944	COYOTE
SPLICE TRAY – LONG LOW-PROFILE FOR UP TO 48 STRAND	80809958	COYOTE
INLINE RUNT CLOSURE	8006915	COYOTE
SPLICE TRAY FOR UP TO 48 STRAND	80809958	COYOTE



TYPICAL FIBER ROUTING TO CABINET
NO SCALE ver:1.0



N48 VAULT WITH NO SPLICE
NO SCALE



N48 VAULT WITH SPLICE
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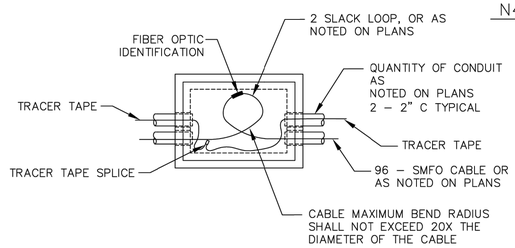
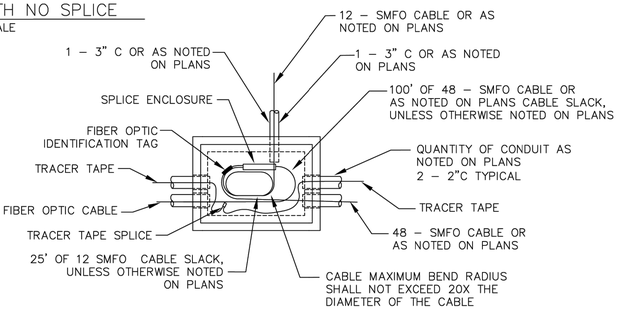


6E PULLBOX WITH NO SPLICE
NO SCALE



6E PULLBOX WITH SPLICE
NO SCALE

APPROVED BY : _____ E-16605 04/07/2025
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER P.E. DATE

CAD FILE:

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION

FIELD BOOK N/A

SCALE HORIZ. N/A VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: STAFF DATE
DESIGNED BY: STAFF R.E.E. DATE
CHECKED BY: J. MATOBA R.E.E. E-16605 DATE

IMPROVEMENT PLANS FOR
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
SACRAMENTO ELECTRICAL STANDARD DETAILS

PN:

DWG. NO. TS-20
SHEET 178 OF 648

PLOT DATE: 11/3/2025 6:02:03 PM

PROJECT NOTES (THIS SHEET ONLY):

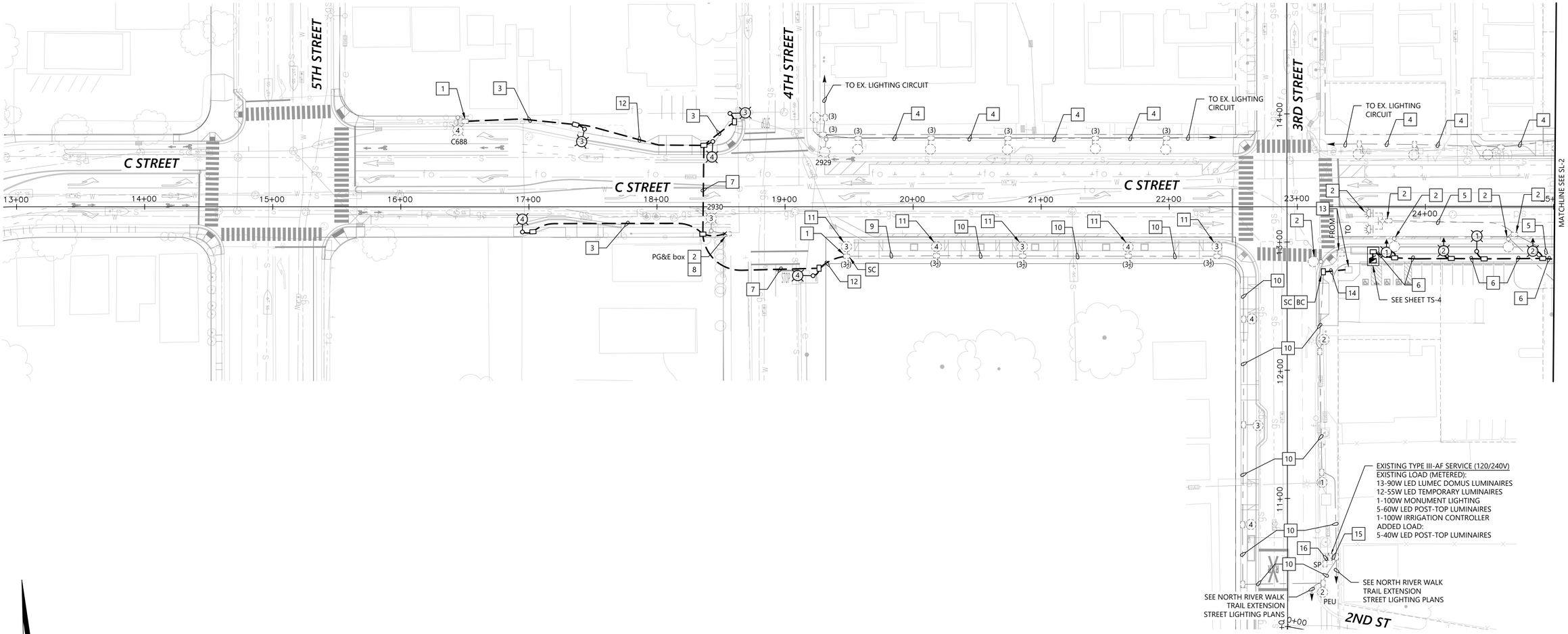
1. INSTALL CONDUIT IN EXISTING PULL BOX.
2. EQUIPMENT OR MATERIAL TO BE REMOVED, REMOVE POLE FOUNDATIONS AND ASSOCIATED PULL BOX. SALVAGE LED LUMINAIRE. ALL OTHER REMOVED EQUIPMENT TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. PLACE 2"C, 2#8 (Ltg).
4. EXISTING 1"C, 2#10.
5. ABANDON CONDUIT AND REMOVE CONDUCTORS.
6. PLACE 2"C, 2#8 (Ltg), 2#10 (120V IRRIGATION), 1#8 G.
7. PLACE 3"C, 3#8 (Ltg).
8. CONNECT AND EXTEND EXISTING CONDUIT.
9. EXISTING 2", 2#8 (120V Ltg). ADD 1#8 (Ltg).
10. EXISTING 2"C, 3#8 (120V Ltg).
11. DECORATIVE POST-TOP LUMINAIRES PER NORTH RIVER WALK TRAIL PLANS.
12. PLACE 2"C, 3#8 (Ltg).
13. EXISTING MONUMENT IS TO BE RELOCATED PER LANDSCAPE PLANS. EXISTING LIGHTING IS TO BE MAINTAINED.
14. PLACE 1"C, 2#8 (120V Ltg.)
15. EXISTING 2", 2#8 (120V TEMP Ltg), 3#8 (120V Ltg. Ckt. 1 & 2), 3#14 (PEU), 3#8 (120V Ltg. Ckt. 3 & 4), 2#10 (120V IRRIGATION).
16. EXISTING 3"C, SERVICE CONDUCTORS.

LEGEND (THIS SHEET ONLY):

- DECORATIVE POST-TOP (40 W) LUMINAIRE
- EXISTING 13' TYPE 3 DISTRIBUTION ORNAMENTAL LUMINAIRE
- TYPE 15 (140 W) LUMINAIRE. # INDICATES CIRCUIT NUMBER.
- PULL BOX
- EXISTING LIGHTING CONDUIT
- LIGHTING CONDUIT

CITY OF WEST SACRAMENTO GENERAL NOTES:

1. **UNLESS OTHERWISE SPECIFIED, ALL NEW PULL BOXES SHALL BE No. 3 1/2.**



N

40 0 40 80
1" = 40' GRAPHIC SCALE

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TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

SL-1

CAD FILE: 3220_Lighting.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=40'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI DATE 11/03/25
DESIGNED BY: D. MURPHY DATE 11/03/25
CHECKED BY: K. CALIA R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd Suite 255 Roseville, CA 95678 (916) 773-1900
UNDER THE SUPERVISION OF: KRISTIN CALIA R.C.E. _____ EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

WEST SACRAMENTO CITY STREET LIGHTING
C STREET

T15136000

SHEET 179 — OF — 648

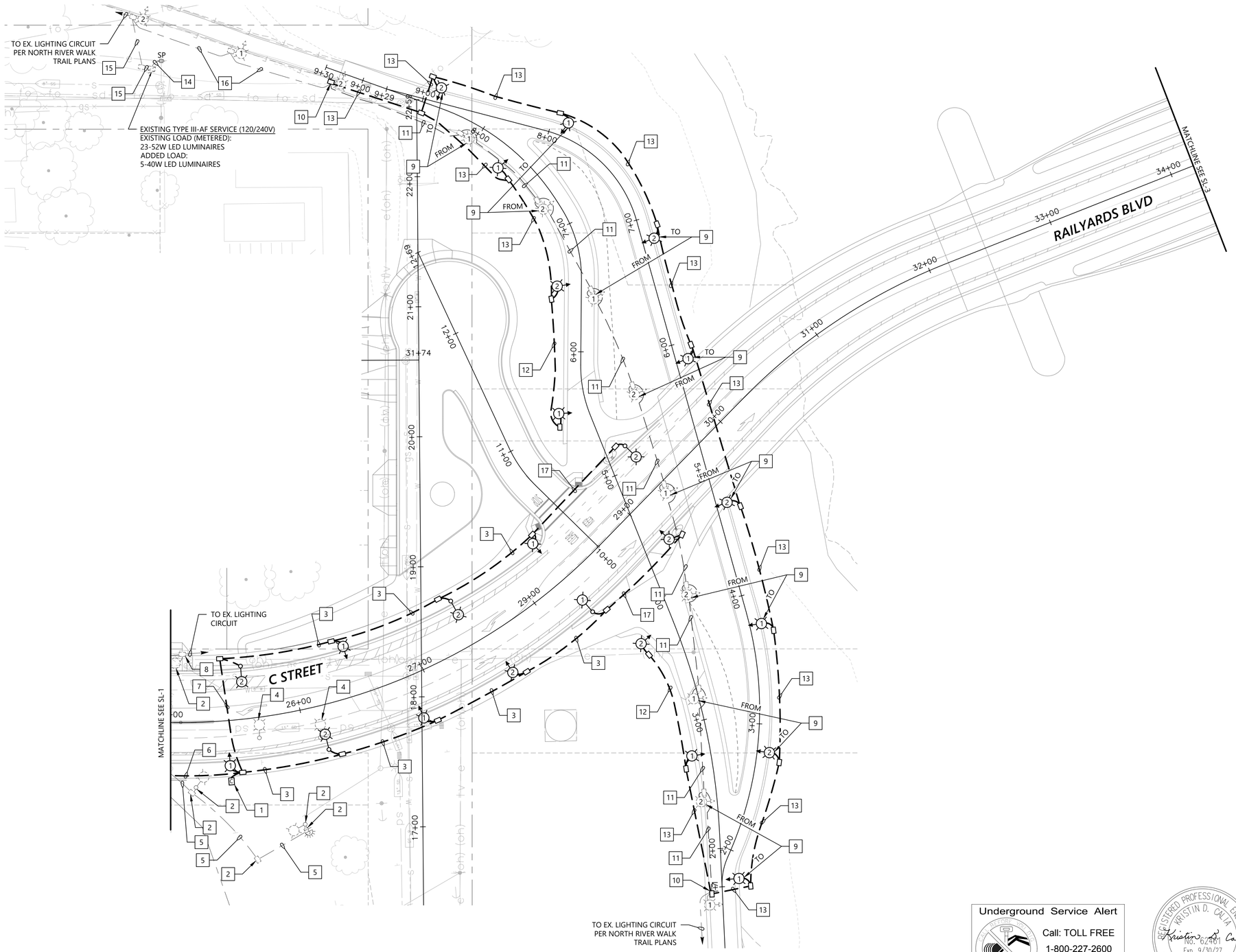
PLOT DATE: 11/3/2025 6:02:07 PM

PROJECT NOTES (THIS SHEET ONLY):

1. IRRIGATION CONTROLLER. SEE IRRIGATION PLANS.
2. EQUIPMENT OR MATERIAL TO BE REMOVED, REMOVE POLE FOUNDATIONS. SALVAGE LED LUMINAIRES. ALL OTHER REMOVED EQUIPMENT TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. PLACE 2"C, 2#8 (Ltg), 1#8 G.
4. UTILITY POLE LIGHT TO BE REMOVED PER UTILITY PLANS.
5. ABANDON CONDUIT AND REMOVE CONDUCTORS.
6. PLACE 2"C, 2#8 (Ltg), 2#10 (120V IRRIGATION), 1#8 G.
7. PLACE 3"C, 2#8 (Ltg), 1#8 G.
8. REMOVE EXISTING PULL BOX AND CONNECT EXISTING CONDUITS. MAINTAIN EXISTING LIGHTING CIRCUITS.
9. RELOCATE POLE AND LUMINAIRE AS SHOWN. REMOVE EXISTING PULL BOX TO BECOME THE PROPERTY OF THE CONTRACTOR.
10. INSTALL NEW PULL BOX. SPLICE TO EXISTING LIGHTING CIRCUIT.
11. ABANDON CONDUIT AND REMOVE CONDUCTORS ALONG EXISTING RIVER WALK PATH THAT IS BEING REPLACED.
12. PLACE 2"C, 2#6 (120 V LIGHTING).
13. PLACE 2"C, 3#6 (120 V LIGHTING).
14. EXISTING 3"C, 3#2 (SERVICE).
15. EXISTING 2"C, 3#6 (Ltg), 3#14 (PEU).
16. EXISTING 2"C, 3#6 (Ltg).
17. PLACE 2"C, 1#8 (Ltg), 1#8 G.

LEGEND (THIS SHEET ONLY):

- 13' TYPE 3 DISTRIBUTION ORNAMENTAL (40 W) LUMINAIRE
- EXISTING 13' TYPE 3 DISTRIBUTION ORNAMENTAL LUMINAIRE
- TYPE 15 ROADWAY (140 W) LUMINAIRE. # INDICATES CIRCUIT NUMBER.
- PULL BOX
- EXISTING LIGHTING CONDUIT
- LIGHTING CONDUIT



N

40 0 40 80
1" = 40'
GRAPHIC SCALE

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REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

SL-2

CAD FILE: 3220_Lighting.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=40'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY /E. MORI
DATE 11/03/25

DESIGNED BY: D. MURPHY
DATE 11/03/25

CHECKED BY: K. CALIA
R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd
Suite 255
Roseville, CA 95678
(916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

WEST SACRAMENTO CITY STREET AND PATHWAY LIGHTING
C STREET AND RIVER WALK TRAIL

T15136000

SHEET 180 — OF — 648

PLOT DATE: 11/3/2025 6:02:10 PM

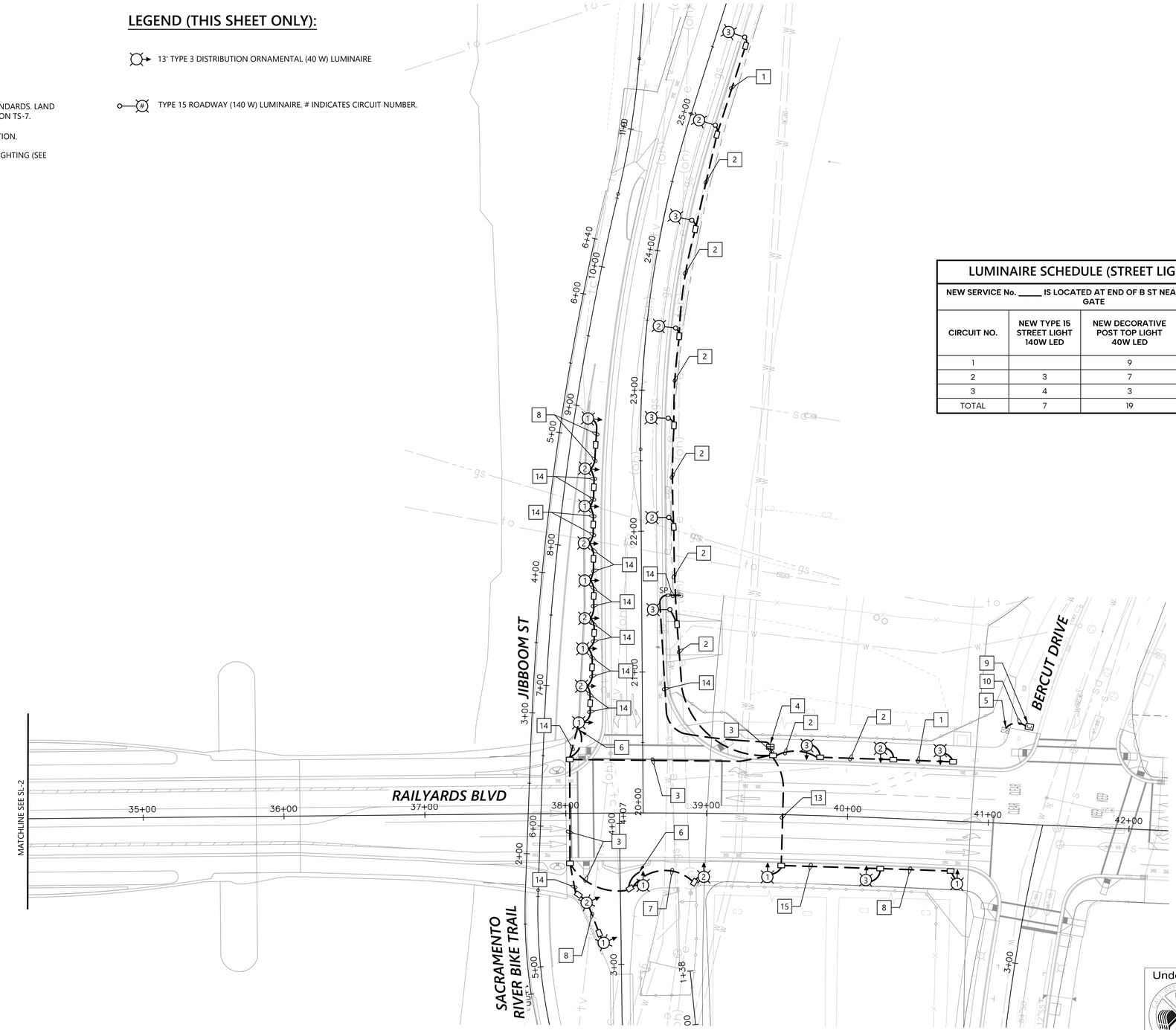
PROJECT NOTES (THIS SHEET ONLY):

1. PLACE 2"C, 1#10 (Ltg Ckt 3), 1#10 G.
2. PLACE 2"C, 1#10 (Ltg Ckt 2), 1#10 (Ltg Ckt 3), 1#10 G.
3. PLACE 2"C, 1#10 (Ltg Ckt 1), 1#10 (Ltg Ckt 2), 1#10 (Ltg Ckt 3), 1#10 G.
4. INSTALL NEW METERED STREETLIGHT SERVICE PEDESTAL PER CITY STANDARDS. LAND NEW CONDUCTORS FOR Ltg Ckts 1, 2, & 3. SEE LUMINAIRE SCHEDULE ON TS-7.
5. EXISTING SERVICE PEDESTAL. USE 1 20A CIRCUIT BREAKER FOR IRRIGATION.
6. PLACE 2"C, 1#10 (Ltg Ckt 3) 1#10 G. CONNECT TO IN-GROUND STRIP LIGHTING (SEE LANDSCAPE PLANS).
7. PLACE 2"C, 1#10 (Ltg Ckt 2), 1#10 G.
8. PLACE 2"C, 1#10 (Ltg Ckt 1), 1#10 G.
9. IRRIGATION CONTROLLER. SEE IRRIGATION PLANS.
10. PLACE 2"C, 1#10 (120V IRRIGATION), 1#10 G.
11. PLACE 3"C, 1#10 (Ltg Ckt 1), 1#10 (Ltg Ckt 3), 1#10 G.
12. PLACE 2"C, 3#1 THW (SERVICE).
13. PLACE 2"C, 1#10 (Ltg Ckt 1), 1#10 (Ltg Ckt 3), 1#10 G.
14. PLACE 2"C, 1#10 (Ltg Ckt 1), 1#10 (Ltg Ckt 2), 1#10 G.

LEGEND (THIS SHEET ONLY):

13' TYPE 3 DISTRIBUTION ORNAMENTAL (40 W) LUMINAIRE

TYPE 15 ROADWAY (140 W) LUMINAIRE. # INDICATES CIRCUIT NUMBER.



N

40 0 40 80
1" = 40' GRAPHIC SCALE

LUMINAIRE SCHEDULE (STREET LIGHTING)			
NEW SERVICE No. _____ IS LOCATED AT END OF B ST NEAR TRAIL ACCESS GATE			
CIRCUIT NO.	NEW TYPE 15 STREET LIGHT 140W LED	NEW DECORATIVE POST TOP LIGHT 40W LED	CIRCUIT TOTAL
1		9	9
2	3	7	10
3	4	3	7
TOTAL	7	19	26

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REGISTERED PROFESSIONAL ENGINEER
KRISTIN D. CALIA
No. 62461
Exp. 9/30/27
CIVIL
STATE OF CALIFORNIA

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SL-3

CAD FILE: 3220_Lighting.dwg

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. 1"=40'
VERT. N/A

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: Y. SELYUZHITSKIY / E. MORI
DATE 11/03/25

DESIGNED BY: D. MURPHY
DATE 11/03/25

CHECKED BY: K. CALIA
R.C.E. 62461 DATE 11/03/25

FEHR & PEERS
1013 Galleria Blvd Suite 255
Roseville, CA 95678
(916) 773-1900

UNDER THE SUPERVISION OF: KRISTIN CALIA
R.C.E. _____
EXP. _____

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LIGHTING (CITY STREET)
RAILYARDS BLVD AND JIBBOOM ST

T15136000

SHEET 181 — OF — 648

1. SPECIFICATIONS

The work to be performed under this contract shall be done in accordance with the Special Provisions contained herein. In these Special Provisions, reference is made to the most current edition of Standard Specifications of the City of Sacramento referred to herein as Standard Specifications and the most current edition of the State Specifications, State of California, both of which shall apply to the work. The General Conditions of the contract shall be governed by Sections 1 through 8 of the Standard Specifications. The Special Provisions shall govern first, followed by the Standard Specifications and State Specifications, State of California. For Specifications of a technical nature not covered by the City Standard Specifications or these Special Provisions, the most current edition of the Standard Specifications and Standard Plans of the State of California, Department of Transportation shall apply. All mention of, and reference to, the State Standard Specifications shall specifically mean the most current edition of the Standard Specifications of the State of California, Department of Transportation. All mention of, and reference to, the State Standard Plans shall specifically mean the most current edition of the Standard Plans of the State of California, Department of Transportation. In the State Standard Specifications and the State Standard Plans, all mention of the "State" shall be construed to mean the City of Sacramento and all mention of the Engineer shall mean the Director of Public Works or his assistant, who may have been assigned to the supervision of this project by the Director of Public Works.

2. SCOPE OF WORK

The work to be performed under these Special Provisions, in general, includes furnishing and installing all necessary equipment and material to construct or modify the street lighting systems as shown on the Plans.

3. SCHEDULING OF WORK

Shall be in accordance with the Standard Specifications, except that the contractor shall furnish written notices to the property owners involved informing them of the proposed work at least twenty–four (24) hours prior to commencing work on any sheet.

4. EXISTING UTILITIES

All known underground utilities within the construction area are shown on the Plans. Contractor is required to ascertain the exact location of all utilities prior to doing work that may damage such facilities or interfere with their services.

5. MODIFICATION OF EXISTING IMPROVEMENTS

When existing grades are change, all existing utilities shall be raised or lowered accordingly, including but not limited to, pull boxes, conduits, traffic signal standards, street lighting standards, traffic signal controllers, service pedestals, fire alarm pedestals, and all other utilities located in the effected area.

Contractor shall be responsible for the protection of the existing electrical facilities and shall repair any damages to the facilities that occur during construction. Repair shall be in accordance with the Standard Specifications and any damaged item shall be replaced in–kind at the expense of the contractor.

6. CONDUCTORS

Conductors shall be in accordance with the Standard Specifications, except for the following:

1. If the existing ground wire (green 1#10 THW) is used as a pullwire, a new ground wire shall be pulled with the new conductors or cables, unless otherwise specified.

2. Unless otherwise noted, insulation Types THHN and THWN are not approved for installation.

3. The electrolier leads from base to lamp socket shall be No. 12 THW solid wire with 45 mils insulation suitable for 600–volt service for historic decorative, post top and mast arm electroliers.

4. All conductors of AWG #10 or larger shall be identified by printed and embossed labels. #1, #6, #8, #10 conductors shall be printed and embossed.
   a) Both printed and embossed labels shall clearly identify the UL listing, insulation type, voltage rating, AWG number, and the City of Sacramento.
   b) The printed label and the embossed label shall be placed at approximately 90 degrees separation around the center of the conductors.
   c) Labels shall appear every one foot interval. Embossed labels shall be between 0.002" to 0.003" in depth and shall not damage the conductors. Label heights shall be no less than 3/32" for AWG #8 or larger, and shall be no less than 2/32" for AWG #10.

7. CONDUITS

Conduit to be installed underground shall be Schedule 40 polyvinyl chloride (PVC) or Schedule 40 polyethylene conduit as described herein unless otherwise indicated or specified. PVC conduit shall comply with the specifications with the City Standard Specifications. High–density polyethylene conduit shall comply with the following specifications:

Conduit shall be fabricated from polyethylene shall be in conformance with applicable ASTM and NEMA standards and Article 347 of the National Electrical Code. Non–black polyethylene conduit shall contain not less than 2500 parts per million (ppm) of a hindered amain ultraviolet light stabilizer. Ultraviolet stabilization additive for black polyethylene conduit shall consist of a carbon black loading of 2.5% 0.5% by weight. Conduit shall be manufactured from high–density polyethylene resin designated as Type III, Category 5, Class C, Grade P34 material in accordance with ASTM D1248. Duct seal shall be installed on all conduits. All new conduits starting/terminating in pull boxes shall have End Bells. Conduit installation shall be in accordance with Section 34–9, 34–10 of the Standard Specifications and as modified by these Special Provisions. "Jet–rodding" is not permitted.

7. CONDUITS (continued)

Conduits terminating in pull boxes, standards, pedestals and cabinets shall rise vertically and shall not slope in any direction. Conduits terminating in standards, pedestals, and cabinets shall terminate one and one–half inches (1½") above finished grade. Conduits shown on the Plans to be adjacent and parallel to each other shall be installed in the same trench or drill hole unless otherwise specified or directed by the Engineer. Under the sidewalk, conduit shall be laid to a depth of not less than eighteen inches (18") below the sidewalk grade.

Conduits shall be installed by trenching or directional drilling method.

All applicable requirements in these Special Provisions to locate, and to protect existing utilities, utility laterals, obstructions, and other facilities in the area shall be conformed to and no additional compensation will be allowed therefor. Contractor is responsible for any damage and the repair of any existing facilities damaged by his/her trenching or drilling operations. Contractor is responsible for any potholing necessary and cost for potholing shall also be included in price paid for applicable items of work and no additional compensation will be allowed therefor. All trenching or drilling work shall be contained within the City right–of–way. If utilities or other obstacles are encountered at the specified conduit depth, any additional drilling required to avoid the obstacle shall be made at the Contractor's expense and no additional compensation will be allowed therefor. Location of trenching and drill holes shall take into consideration minimal impact to the street pavement while still meeting the requirements of these Special Provisions.

Contractor shall replace roadway striping and markings with same material if damaged by directional drilling, bore pits, potholes, or trenching. Replacement striping and markings shall be thermoplastic or paint, per the City of Sacramento Standards.

Contractor shall use the following PVC pipe cement to join conduits and fittings: Premier Cement PVC All Temperature One Step Blue or Christy's Red Hot Blue Glue for Schedule 80 thru 4" diameter.

A. Trenching Method

Installation of conduit by trenching shall be in conformance with the Plans and these Special Provisions. See plan sheets for trench details. Trenches shall be backfilled or covered at the end of each work day. All conduit installed by trenching shall be anchored every 15 feet to the bottom of the trench, with an approved method, so as to prevent the conduit from floating when the concrete is backfilled into the trench.

1. Trenches in new roadways and reconstructed roadways shall be backfilled with slurry portland cement per cubic yard and fine type aggregate as defined in the Standard Specifications Section 10–5. A red oxide in the amount of 5 lbs. per cubic yard shall be mixed uniformly throughout the slurry cement. See plan sheets for amount of sack slurry and depth of conduit(s). Minimum shall be a 3 sack slurry.

2. Trenches in existing roadways shall use the "T–Trench" method. The portion over the trench shall be paved with asphalt concrete, Type A with ¾" aggregate (coarse); except on residential streets where the base course shall be Type A, ¾" aggregate (coarse) and surface coarse shall be Type B, ½" aggregate, (medium), per Section 22 of the City Standard Specifications, unless otherwise directed by the Engineer. See plan sheets for width and thickness of asphalt concrete over trench. Trenches shall be backfilled with slurry portland cement per cubic yard and fine type aggregate as defined in the Standard Specifications Section 10–5. A red oxide in the amount of 5 lbs. per cubic yard shall be mixed uniformly throughout the slurry cement. See plan sheets for amount of sack slurry.

B. Directional Drilling Method

Installation of conduit by directional drilling shall be in conformance with the Plans and these Special Provisions.

Conduits shall be installed such that the top of the conduit(s) are not less than eighteen inches (18") below the finished grade in sidewalk areas and not less than thirty inches (30") in all other areas except as otherwise specified or directed by the Engineer.

Prior to the start of directional drilling, the Contractor shall submit a plan which identifies location and size of proposed drill holes, describes process for identifying/locating existing utility services and other underground utilities or obstructions, identifies a proposed "drilling corridor" to avoid conflicts with existing utilities, services and other facilities. This plan shall be submitted to the Engineer a minimum of ten (10) working days prior to the start of work. The Contractor will not be allowed to directional drill until an approved plan is on file with the Engineer

Directional drilling shall be performed by the technique of creating and directing a bore hole along a predetermined path to a specified targeted location where indicated on the plans to install conduits. The technique shall involve the use of mechanical and hydraulic equipment to change the boring course and shall use instrumentation to monitor the location and orientation of the boring head assembly along the predetermined course. Drilling shall be accomplished with fluid–assisted mechanical cutting. Unless otherwise approved, boring fluids shall be a mixture of bentonite and water or polymers and additives. Bentonite sealants and water will be used to lubricate the drilling head. It is mandatory that minimum pressures and flow rates be used during drilling operations so as not to fracture the subgrade material around and/or above the bore. Uncontrolled jetting (where the primary purpose is to use fluid force to erode soil for creation of the final bore hold diameter) is prohibited. The drilling system shall utilize small–diameter fluid jets to fracture, and mechanical cutters to cut and excavate the soil as the head advances forward.

All drilling shall be located a minimum of three feet (3') from the center of all existing maintenance holes. Drilling that run parallel to any sanitary sewer or storm drainage lines shall maintain a minimum clearance of three feet (3') measured from the centerline of the sewer or drainage line to the adjacent side of the drill hole. Drilling that crosses any sewer or drainage line shall cross at 90 degrees to the line or at a minimum of 45 degrees if a 90 degree crossing is not possible.

8. INSPECTION

Inspection shall be in accordance with the Standard Specifications and these Specifications.

9. PULL BOXES

Shall be in accordance with the Standard Specifications, except for the following:

All new pull boxes shall be set in place prior to pouring any new sidewalk. Existing pull boxes damaged by the installation of new conduits shall be removed and replaced at the Contractor's expense as directed by the Engineer. All pull boxes shall be placed in sidewalk areas unless otherwise specified on the plans or directed by the Engineer, and shall not be placed in driveways, in vehicular traveled lanes, or in any part of a new sidewalk handicap ramp areas. Contractor shall cut, removed and replace the concrete to the nearest joint when installing new pull boxes. New pull boxes shall have a minimum of 6" of new concrete around all sides in the sidewalks. For pull boxes to be removed, holes or depressions resulting from the removed pull box shall be filled, compacted, brought to grade, and filled to match surrounding materials. A crushed rock foundation shall be installed prior to placing pull box. The crushed rock foundation shall have a minimum of 12" in depth and continue to extend a minimum of 6" beyond the outside edge of the pull box. Crushed rock foundation shall be compacted. Compact crush rock while maintaining integrity of conduit. Then, install pull box on top of crushed rock foundation. Adjust pull box to grade. Conduit and pull boxes shall not be damage nor cracked.

All No. 5 and No. 6 Pull Boxes shall have steel security lids with locking key bolt. Lid shall be 1/4" thick minimum galvanized steel. Lid shall be manufactured with slip resistant surface. Lid shall be non–traffic rated, unless otherwise specified. Lid shall be equipped with a lock mechanism which can be secured from the top of the lid. Lock shall be recessed in a 1 inch diameter circle. Lock shall be Secured Keyed Bryce Fastener, or approved equal. A steel welding plug shall be provided by the manufacturer to be inserted into the 1 inch diameter recessed lock. Lid shall be flush with top of the pull box when lid is completely secured and locked to the pull box. No. 5 pull boxes shall have a single cam locking system, or approved equal. No. 6 pull boxes shall have a double cam locking system, or approved equal. Lid shall have a grounding lug. Lid shall be new and free of scratches, defects, and debris.

10. WIRING

Shall be in accordance with the Standard Specifications, except for the following:

After taping, all splices shall be painted with an approved electrical coating which will resist oil, acids, alkalis, and adverse environmental conditions. Pull ropes used to pull conductors in conduit shall be a minimum of three–eights inch (3/8") in diameter.

11. MASTARM STREETLIGHT

A. GENERAL

Mastarm streetlights standards, Type 15, and foundation shall be in accordance with the latest California Department of Transportation Standard Plans, unless otherwise specified in these Special Provisions and Plans.

B. LUMINAIRE

Luminaires to be installed shall be specifically designed for LED use and rated for up to 100,000 hours of operation. Luminaires shall be designed to produce asymmetric distributions conforming to the Illuminating Engineering Society light pattern Type III unless otherwise specified. Luminaire shall utilize a heat sink to efficiently draw heat away from the LED chipset. The units shall be suitable for two–inch (2") slip filter and mounting. All new luminaires to be installed shall be inspected by the Engineer prior to installation. Luminaires shall be supplied without photo cell receptacles unless otherwise called for the Plans. All luminaires supplied with photo cell receptacles that will not be used shall be required to completely bypass the receptacle and a shorting plug shall be securely installed in the receptacle.

C. LED

Luminaire shall be
* EOI E–LIGHTSTAR ESU–F A01 3M 032 40 M 700 or approved equal. (general roadway);

* EOI E–LIGHTSTAR ESU–F A01 3M 032 40 M 1050 or approved equal (intersection lighting);

* EOI E–LIGHTSTAR ESU–F A01 3M 032 40 M 1300 or approved equal (intersection lighting).

The luminaire shall be type III with a minimum CRI of 70 and a CCT of 4000K, unless otherwise specified.

12. METERED SERVICE PEDESTAL

The new metered service pedestal shall be supplied and installed as shown on the Plans and shall conform to the serving utility requirements. Service shall be wired for 120/208 volts or 120/240 volts and single phase as shown on the Plans. The Contractor shall connect the luminaires to the circuits designated on the Plans. Contractor shall also install the service conduit and wires to the SMUD service point in accordance with SMUD's requirements. The Contractor shall protect and lock the service pedestal during construction. After construction is completed, the Contractor shall provide for each pedestal a master lock which will accept a Type 2214 key.

The service pedestal shall be fabricated in accordance with the dimensions shown on the service pedestal detail drawing in the traffic signals / street lighting standard details in the plan sheets. The service pedestal shall consist of a separate metering section and a service section. The meter section shall have a removable cover–top, side, and front sections welded together so that it is rain tight and padlockable.

The service pedestal shall be fabricated from 14 gauge Type 304D stainless steel and as described under the following paragraph in the Caltrans Standard Specifications section 86–3.07A, "Cabinets fabricated from stainless steel shall conform to the following:". The mounting brackets shall be 10 gauge Type 304D stainless steel. All welds shall be of highest quality and ground smooth and finished so that grind marks are not visible.

The enclosure shall be rain tight and dust tight. All welds shall be ground smooth and finished so that grind marks are not visible. A hinged dead front plate with cutouts for the handles of the breakers and the switch shall be provided in addition to a hinged outside door equipped with a draw latch suitable for padlocking. Galvanized anchor bolts shall be inside or outside the service pedestal as shown on the Plans. 5/8" x 18" x 4" Anchor bolts (set of 4) shall also be provided. The enclosure shall have no screws, nuts, or bolts on the exterior, except utility sealing screws. All screws, nuts, bolts, and washers shall be stainless steel. All hinges and hinge pins shall be stainless steel. No surface of the pedestal shall be deflected inward or outward more than 1/16" measured from the intended plane of the surface.

A hinged dead front plate with cutouts for the handles of the breakers and the switch shall be provided. A hinged outside door equipped with a heavy duty draw latch and two (2) heavy duty hasps suitable for padlocking shall be provided for the service section. The dead front panel on the service enclosure shall have a continuous stainless steel piano hinge.

Service enclosures shall be factory wired and conform to NEMA Standards. All control wiring shall be stranded copper, No. 14 AWG THHN/THWN rated for 600 Volts. All control wiring shall be marked with permanent clip sleeve wire markers. Felt, pencil, or stick back markers will not be acceptable. A copy of the wiring diagram for the service pedestal shall be enclosed in plastic and mounted on the inside of the service section.

The terminal lugs or strips shall be copper or alloyed aluminum. All terminals shall be compatible with either aluminum or copper conductors.

The service pedestal shall have provisions for the installation of up to a total of 16 single–pole circuit breakers, including brass links and mounting hardware. All copper wiring used for main bussing shall be No. 2 AWG THHN/THWN and rated for 125 amperes. Branch circuit panel shall use loop wiring rated for 105 amperes with THHN/THWN insulation. All circuit breakers, contactors, and wire shall be listed by UL or ETL. The pedestal shall conform to the NEMA 3–R standard.

Nameplates of a reasonable size identifying the control unit therein shall be installed on the dead front panel. Nameplates shall be black laminated with a white plastic center. All nameplates shall be fastened by screws.

The entire service pedestal shall be constructed with the highest quality workmanship and shall meet all applicable codes. Complete submittal drawings on all substitutions shall be submitted to the Engineer in accordance with Section 34_3 of the Standard Specifications. If the proposed substitute is rejected or if the submittal is not made within the specified time, the specified equipment shall be furnished.

Street light "ON" and "OFF" control will be by photo–electric cell. All conduits and wires shall be furnished and installed by the Contractor. Photocell 120 VAC by Tork (5001M) or approved equal.

Mounted in each metered service pedestal shall be the following equipment:

1. Two (2) 100 Amp, 2 Pole, 120/240V, 10KAIC circuit breakers. Each main breaker shall have internal common trip. Each pole shall have individual on–off control and handle tie for common operation. Breaker shall be Siemens or approved equal.
2. One (1) 15 Amp, 1 Pole, 120/240V, 10KAIC circuit breaker for control circuitry. Breaker shall be Siemens or approved equal.
3. Two (2) 60 Amp, 1 Pole, 120/240V, 10KAIC circuit breakers for traffic signal. Breakers shall be Siemens or approved equal.
4. Six (6) 40 Amp, 1 Pole, 120/240V, 10KAIC circuit breakers for street lighting. Breakers shall be Siemens or approved equal.
6. Two (2) 60 Amp, 3–pole, 120/240V contactors. Normally open, mercury contactors. Contactors shall be Durakool, or approved equal.
7. One oil tight "Hand_Off_Auto" selector switch.
8. One solid copper neutral bus.
9. Incoming terminals (landing lugs).
10. Solid neutral terminal strip.
11 Terminal strips for conductors within the cabinet.

APPROVED BY : _____ E–16605 **08/01/2023**
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER P.E. DATE

CAD FILE:

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION

FIELD BOOK
-

SCALE
HORIZ. _____
VERT. _____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: TECHNICIAN DATE _____
DESIGN BY: J. MATOBA R.C.E. E–16605 DATE _____
CHECKED BY: J. MATOBA R.C.E. E–16605 DATE 06/15/24

IMPROVEMENT PLANS FOR
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
STREET LIGHTING SPECIAL PROVISIONS NO. 1

DWG. NO. SL-4
SHEET 182 OF 648

13. ORNAMENTAL STREETLIGHT

1. Streetlight Assembly

The streetlight manufacturer shall provide all required components to assemble a streetlight as shown in the attached drawing and as described in the following Special Provisions. The manufacturer shall guarantee that all components provided, when assembled, shall constitute a complete functioning streetlight.

The streetlight capital, globe holder, light engine base, fluted shaft, and base shall be delivered as a single unit, fully assembled and painted as describe in the following Special Provisions. The luminaire assembly, Light Emitting Diode (LED) light engine, and anchor bolts, if required, may be delivered in a separate shipment or container.

Optionally, streetlight assembly shall have weatherproof UL listed GFI electrical receptacles mounted at the top of the pole shaft.

2. Luminaire Assembly

The luminaire assembly shall include a 424 Lexalite Acrylic Prismatic Top, GE8–9 globe, Formed Plastic FP 199, or National Lighting NL199 globe or approved equal as shown on the drawing. The luminaire assembly shall be UL listed for wet/damp locations and shall be furnished prewired.

The Lexalite 424 globe shall have IES Distribution Type III or V as specified by the City Engineer. Assembly of top and bottom parts of the globe shall be by a stainless steel band. Globe top shall not include a factory installed Lexalite spike aluminum finial. The globe shall be provided with a neck ring so that the tightening of the screws will not damage the globe collar.

Unless otherwise specified, the lamp assembly shall be delivered with a light engine. The light engine shall be of LED manufactured by CREE model DPT A SB FR A 40K UL UF, or approved equal.

3. Cast Iron Capital and Globe Holder

The capital and globe holder shall be of the design and dimensions as shown on the drawing and shall be of cast iron per ASTM A48 CL30 standards. The globe holder shall have four (4) 5/16" stainless steel set screws (90 degrees) for mounting of the globe. Set screws shall be square head. Allen or Phillips set screws are not acceptable. The capital shall be prewired with a light engine base. The light engine base shall be of porcelain mogul type. The capital shall be attached to a 3" tenon mounted on top of the steel fluted shaft with four (4) 5/16" stainless steel screws.

4. Steel Fluted Shaft

The fluted shaft shall be of the dimensions shown on the drawing and shall be tapered 0.14" per foot. The fluted shaft shall have the chemical and physical properties of A595 grade A. The fluted shaft shall be fabricated from a single length of a minimum 11–gauge steel sheet, rolled into a fluted shaft on a steel mandrill and finished with a single longitudinal weld. No transverse or intermediate welds or joints shall be permitted.

The fluted shaft shall have sixteen (16) equally spaced Doric flutes, sharp and clear–cut throughout the entire length of the shaft. The radius of the flute's crest shall not exceed the thickness of the shaft material. Individually rolled flutes or round poles with a separate fluted sheathing are not acceptable. Shaft shall be formed true to the pattern and complete in detail. The interior surface shall be smooth with no protrusions or sharp edges. There shall be a minimum of 2" internal clearance extending the fluted shaft's length to permit internal wiring from an underground source.

At the top of the fluted shaft, a steel tenon shall be welded and sized to accept the capital and globe holder. The maximum gap between the inside–diameter of the capital and outside–diameter of the tenon shall be ½".

A ½" steel adapter plate, of 36,000 psi minimum yield strength, shall be welded to the bottom of the fluted shaft. The adapter plate shall include three (3) tapped holes on a 4" bolt–circle to accept ½" –13 stainless steel bolts for attachment to the streetlight pole base. The stainless steel bolts shall be per ASTM F593. The bolts shall be with a minimum yield strength of 92,000 psi. The maximum diameter offset between the bottom of the fluted shaft and the adapter plate shall be as shown in the drawing.

All welds shall meet AWS D1.1.

The complete fluted shaft shall be hot–dipped galvanized per ASTM A123 prior to painting.

13. ORNAMENTAL STREETLIGHT (continued)

5. Cast Iron Base

The streetlight base shall be of the design and dimensions as shown on the drawing and shall be of cast iron per ASTM A48 CL30 standardswith a minimum thickness of ½".

The base shall have an opening for the hand hole of the dimensions shown on the drawing with the cover cast of the same material, and attached with a 1/4" stainless steel, button head hex socket cap screw. The base shall have three (3) holes integrally cast into its top to be attached to the shaft. A minimum of 2" wiring access hole shall also be provided.

The base shall be furnished with a 12"–13 UNC grounding bolt.

6. Anchor Bolts

Unless otherwise specified, each streetlight assembly shall include four (4) galvanized steel anchor bolts of the dimensions as shown on the drawing. Anchor bolts shall meet ASTM – A36 with 55,000 psi minimum yield strength. The threaded portion shall be galvanized. Each anchor bolt shall include two (2) galvanized hex nuts and two (2) flat washers. All galvanized parts shall meet ASTM A153.

7. Surface Coating

The exterior and interior surfaces of the streetlight base, fluted shaft, and capital shall have surface preparation, primer coating, and two coats of paint. The surfaces of the base, fluted shaft, and capital shall have a smooth finish that shall be uniform along the entire length of the streetlight pole assembly. All surface preparation, primer coating, and painting application shall be performed inside a shop or plant before shipment to jobsite.

The manufacturer shall provide Manufacturer Certification that all primer coating and paint application was performed per coating manufacturer specifications for the selected coating, prior to delivery of streetlight pole. Minor field coating touch–up may be permitted at the City's discretion.

All work shall be performed in strict accordance with these specifications and the manufacturer's directions for the materials to be used on this project.

A. Surface Preparation

The exterior and interior surfaces of the pole shall be prepared as follows:

a) All sharp edges shall be removed or rounded.
b) Contaminants such as oil, grease, dirt, etc., shall be removed by solvent cleaning per SSPC–SP1 (solvent cleaning).
c) All non–galvanized surfaces shall be blasted per SSPC–SP10 (Near White Metal Blast) to remove all rust, mill scales, slags, and foreign matters.
d) Streetlight base, fluted shaft, and capital shall be primed on the same day the surface preparation is completed.

B. Primer Coating

After surface preparation is completed, the cast iron streetlight assembly shall have a primer coating as follows:

a) Use Sherwin Williams Macropoxy 646 Fast Cure Epoxy – Black (OR Mill White primer if Sacramento Green is specified as the paint color) or approved equal.
b) Mix Macropoxy per manufacturer directions.
c) Apply primer to each streetlight component separately, including the interior and exterior surfaces.
d) Apply a fog coat of primer of 1.0 – 2.0 mils, approximately 1 hour prior to full prime coat.
e) Apply full prime coat at the recommended spreading rate per coat for the Macropoxy 646 Primer; wet mills (7 minimum, 13.5 Maximum), dry Mills (5 minimum, 10.0 Maximum). See manufacturer product information for drying schedule and application conditions.

C. Paint Application

After primer coating, the streetlight assembly shall be painted as follows:

a) Use Sherwin Williams Hi–Solids Polyurethane 100 – Gloss Black (OR Sacramento green color if specified on the drawing) or approved equal.
b) Apply two (2) coats of paint to the entire streetlight assembly, including the interior and exterior surfaces.
c) Apply the paint at the recommended film thickness and spreading rate per coat; wet mills 3.6 minimum, 4.8 maximum; dry mills 3.0 minimum, 4.0 maximum. See manufacturer product information for drying schedule and application conditions.

13. ORNAMENTAL STREETLIGHT (continued)

Paint application shall be in accordance with the principles of good workmanship described in SSPC–PA1, Paint Application Specification No. 1, Shop Field and Maintenance Painting. The Quality Control/Specifications are as follows: Dry Film test per ASTM D7378–07, Holiday Porosity Test per ASTM D5162–01, Cross Hatch Adhesion per ASTM D6677–01, Pencil Hardness test per ASTM D3363, Impact Resistance per ASTM D2794, Visual Gloss Inspection, and Final Visual Inspection.

8. Design Standards

Streetlight assembly and all materials used in its manufacture shall meet the requirements of the most current adopted version of the American Association of State Highway and Transportation Officials (AASHTO) "Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals" and this specification.

In addition to the requirements of the AASHTO Specification, the post and anchorage shall be designed with a minimum safety factor of two (2) and shall not deflect more than five (5%) percent of the above ground height at full wind loading.

9. Factory Certification

Each streetlight assembly shall be certified by the manufacturer to meet all requirements specified herein. The manufacturer shall make factory and all manufacturing processes open for City Quality Control Inspection if requested by the City Engineer. City shall incur all inspection cost.

10. Identification

Each pole shall bear an identification tag which shall list the manufacturer model number of the pole and year and location of manufacture. The identification tag shall be placed inside of the base, facing the hand hole, and clearly visible from the outside when installed and the hand hole cover is removed.

11. Material Availability

Pole manufacturer shall certify to the City that the accepted pole base, capital, shaft, and luminaire is or will become a stock item, readily available with replacement parts for a minimum ten (10) year.

12. Material Certification

Material certifications shall be provided for all components referred to in the drawing and these Special Provisions.

13. Packaging

Each streetlight assembly and luminaire shall be individually packaged to prevent damage with sufficient packaging strength for protection during shipping and storage. Small parts shall be packaged in boxes. Individual components shall be packaged in the same manner as the poles and luminaries. All handling shall be done with rope or nylon slings to prevent surface damage. Use of chains, wire slings or unprotected forks or hooks is prohibited.
Packing list and assembly instruction sheet shall be included.

14. Acceptance

After packaging is removed and prior to installation, each streetlight assembly shall be inspected for manufacturing or paint defects by the City Engineer. No streetlight assembly is to be installed without the expressed approval of the City.

15. Testing

Factory testing shall be provided at the request of the City Engineer in accordance with manufacturer's testing procedures.

16. Warranty

The streetlight manufacturer shall warrant against any defects and shall replace all defective parts or streetlight assemblies for a period of five (5) years from the date received by the City. Pole manufacturer shall provide written warranty with shipment of poles.

17. Welding

Welding shall be conducted by certified welders in compliance with the latest edition of the American Welding Society D1.1, Structural Welding Code – Steel. All parts shall be cleaned prior to welding by an approved industry standard method.

18. Wind Resistance

Entire pole and luminaire to be rated to withstand AASHTO requirements for a minimum 70 mile and hour wind load with a 30% gust factor.

13. ORNAMENTAL STREETLIGHT (continued)

19. Sealing of Streetlight Pole Foundation

The concrete for the foundation shall be finished so that the top surface is straight and smooth with a 2% grade conforming to the adjoining sidewalk.

Remove concrete forms on streetlight foundation upon project completion. Remove all plywood, forms, excess and leftover concrete, and other debris as a result from construction upon project completion.

Once the pole is installed and leveled on the anchor bolts, the gap between the base of the pole and the top of the foundation shall be sealed using the following procedure:

The bottom surface of the pole base shall be primed using Pecora P–120 or approved equal and the top of the foundation shall be primed using a Pecora P–150 or approved equal. The curing of the concrete used for the foundation or pavement and the application of the primer shall follow the guidelines provided by the manufacturer of the primer and sealant.

The gap to be sealed shall be partially filled by pushing in a 1.5" diameter Bi–Cellular Backer Rod (SOF Rod), cut to size, and installed around the bottom perimeter of the pole base, pushed against the anchor bolts. The backer road product shall be made by Construction Foam Products or approved equal.

A one half–inch (1/2") inside diameter drain tube shall be placed in the gap between the base of the pole and its foundation to prevent standing water. The drain tube shall be placed under the backer rod, flush with the finished surface of the concrete, and extending about 2.25" toward the center of the pole base. It shall be placed so that it is following the downward slope of the surrounding sidewalk and top of foundation (about 2%). The drain tube shall be made of PVC with a wall thickness of 1/16" or as approved by the engineer.

Once the primer is dry as recommended by the manufacturer, and the backer rod is installed, the Contractor shall apply a silicone sealant, with a minimum thickness of 0.5inch. Use a pre–tinted black color silicone, model number Pecora 890NST or approved equal. Completely seal the gap between the base of the pole and the top of the foundation with the silicone sealant. Use a masking tape when applying the sealant, in order not to smear the outside of the pole, and the surrounding pavement with the sealant material. The sealant shall be smoothed out around the base of the pole, and any excess material removed before it is set to cure as required by the sealant manufacturer.

The sealant shall be smoothed out around the base of the pole, and any excess material removed before it is set to cure as required by the sealant manufacturer.

14. POST TOP STREETLIGHT

A. General

Post top streetlights shall be in accordance with the latest City of Sacramento Standard Specifications, unless otherwise specified in these Special Provisions or Plans. All post top streetlights shall have an LED light engine.

B. Specifications for Luminaire

The LED light fixture shall be Acuitybrands Contempo LED Series 245L – 20LEDE70 – MVOLT – 4K – R3 – RNA – NR or approved equal. Hood Style A and Gray finish, as shown in the Acquitybrands Contempo LED Series 245L. No photocontrol receptacle.

The post top streetlight standard and luminaire shall conform to the following:
1) LED light engine. 44 input watts.
2) Multi–voltage driver. 120–277volts.
3) Color Temperature 4000K.
4) Type III distribution
5) Acrylic Rain Panel
6) Paint: Grey exterior finish.
7) Luminaire canopy shall be 22 inches in diameter.
8) Luminaire height shall be 20 inches in diameter.
9) LED light engine greater than 100,000 hours at 25 degree C.
10) CSA listed and suitable for up to 30 degree C.
11) Complies with ANSI: C136.2, C136.10, C136.15
12) Cone mounting fitter with three set screws to install to pole tenon. 3" diameter pole tenon. Set screws shall be hex or square head screws. Slotted or Allen set screws are not acceptable.
13) Hinged hood and captive screw latching.
14) Multi–gasketing to provide weatherproof protection of assembly.
15) Die–cast aluminum housing and spun aluminum hood.
16) All external hardware shall be stainless steel or other corrosion resistant metal.

C. Specification for Pole and Foundation
The post top pole, anchor bolt configuration, and foundation specifications and details are shown in the latest City of Sacramento Standards, page E–90.

APPROVED BY : _____ E–16605 **08/01/2023**
JOHN MATOBA, SENIOR ELECTRICAL ENGINEER — P.E. — DATE

CAD FILE:

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
DESCRIPTION _____

FIELD BOOK -

SCALE
HORIZ. _____
VERT. _____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: TECHNICIAN
DATE _____

DESIGN BY: J. MATOBA
R.C.E. E–16605 DATE _____

CHECKED BY: J. MATOBA
R.C.E. E–16605 DATE 06/15/24

IMPROVEMENT PLANS FOR
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
STREET LIGHTING SPECIAL PROVISIONS NO. 2

DWG. NO. SL-5
SHEET 183 OF 648

UNAUTHORIZED CHANGES & USES:
M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER / CATALOG NO.	VOLTAGE / DESCRIPTION	LIGHT SOURCE (LED, WATTS, LUMENS, COLOR TEMPERATURE, CRI, R9 IF AVAILABLE)	MOUNTING	REMARK NOTE No.
B	SOLID STATE LUMINAIRES CLZWET-1-UNV-RGBW-02L-60-DMX	277 VOLT LED LINEAR	LED, 5W, 250L, RGBW	SURFACE	
C	WAGNER LULS30K4070TA	24 VDC LED HANDRAIL	LED, 3.57W/ft, 268L/ft, 3000K°	HANDRAIL INTEGRATED	
D	BEGA B24512K3	277 VOLT LED DOWNLIGHT ASYMMETRIC WALL WASH	LED, 13W, 1251L 3000K°, 80CRI	RECESSED	1
E	LUMENPULSE LFM-SA-UL-277-24-22W-30K-80-90x90-FR-VRBO-WMi1	277 VOLT LED LINEAR	LED, 22W, 3000K°	SURFACE	
F	LUMEC CPLM-180W80LED3K-G3-XXX-UNV-DMG-XX	277 VOLT LED STREET LIGHT	LED, 176W, 3000K°	POLE	1
G	MEYER MONOF1-10-840-027-N-X-MONOF1-CO	277 VOLT LED FLOOD	LED, 10W, 476L, 3000K°	SURFACE	1
K	SOLID STATE LUMINAIRES CLZF-1M-UNV-RGBW-BK-1040-SPH	UNV LED PROJECTOR	LED, 100W, 4650L, RGBW	SURFACE	
L	SOLID STATE LUMINAIRES CLZWET-4-UNV-RGBW-10L-1030-DMX	UNV LED PROJECTOR	LED, 20W, 1000L, RGBW	SURFACE	
M	SOLID STATE LUMINAIRES CLZF-1M-UNV-RGBW-BK-60-SPH	UNV LED PROJECTOR	LED, 100W, 4650L, RGBW	SURFACE	
N	SOLID STATE LUMINAIRES CLZWET-4-UNV-RGBW-10L-5080-DMX	UNV LED PROJECTOR	LED, 20W, 1000L, RGBW	SURFACE	
T	SOLID STATE LUMINAIRES CLZWET-1-UNV-RGBW-05L-xxxx-DMX	UNV 1' LED LINEAR	LED, 10W, 500L, RGBW	SURFACE	
V	LUMINII KBL-W-VB-RGBW26SO-RGB30K-R80-3SF	UNV FLEXIBLE LED STRIP	LED, 4.57W/FT, 69L/FT, RGBW	RECESSED	
W	SOLID STATE LUMINAIRES CLZMF-UNV	UNV LED PROJECTOR	LED, 85W, 2500L, RGBW	SURFACE	

LUMINAIRE SCHEDULE REMARK NOTES:

(1) PROVIDE WITH TIMECLOCK CONTROL.

GENERAL NOTE:

REFER TO PLAN FOR LOCATION, QUANTITIES, AND SWITCH FUNCTION.

ELECTRICAL SYMBOL LIST

X a / ABC-# — ONE-ARM BRACKET LUMINAIRE, WITH POLE AND BASE. (LETTER "X" INDICATES TYPE, "a" DENOTES SWITCH FUNCTION, "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER - TYPICAL FOR ALL LUMINAIRES UNLESS NOTED OTHERWISE).

+XX" / ABC-# — QUADPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" AFF TYPICAL FOR ALL CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE (OUTLETS ABOVE COUNTER MOUNTED HORIZONTALLY AT +44" AFF UNO, TV OUTLETS AT +72" AFF UNO, "+XX" INDICATES MOUNTING HEIGHT OTHER THAN 18", "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER - TYPICAL FOR ALL OUTLETS UNLESS NOTED OTHERWISE).

GFCI DUPLEX CONVENIENCE OUTLET - NEMA 5-20R

J — JUNCTION BOX - SIZE AS REQUIRED BY CODE

SPECIAL RECEPTACLE AS SHOWN ON PLANS

CONDUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" CONDUIT. TYPICAL FOR ALL CONDUITS.

FLEXIBLE CONDUIT CONCEALED. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" MINIMUM DIAMETER CONDUIT.

CONDUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.

CONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET

CONDUIT TURNED AND RISED UP

CONDUIT TURNED AND DROPPED DOWN

CONDUIT WITH CAP

CONDUIT STUB WITH INSULATED BUSHING

EXISTING CONDUIT AND WIRING

EXISTING PANELBOARD - SURFACE MOUNTED

EXISTING PANELBOARD - FLUSH MOUNTED

1 — DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME SHEET

1 / E-1 — DRAWING PLAN OR DETAIL DESIGNATION - "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, "E-1" DENOTES SHEET NUMBER

SYMBOL LIST NOTES:

1. "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER.
2. MINIMUM CONDUCTOR SIZE FOR 120V BRANCH CIRCUITS SHALL BE #12 AWG. AT A MINIMUM ALL BRANCH CIRCUITS SHALL CONTAIN 3/4"C, 2#12 AWG AND 1#12 GND UNLESS OTHERWISE INDICATED.
3. EXISTING ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT LIGHTLY AND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.
4. VERIFY ON SITE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE DEDICATED PANELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING, AND EQUIPMENT FOREIGN TO THE PANEL BOARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN OBJECTS IMPEDE THE DEDICATED PANELBOARD AREAS.
5. WHERE CONDUIT STUB IS INDICATED, PROVIDE CONDUIT WITH BUSHING AT THE END OF CONDUIT AND PULL ROPE INTO ACCESSIBLE CEILING AREA.

ELECTRICAL SHEET INDEX

No. OF SHEETS	DRAWING No.	DRAWING DESCRIPTIONS
1	EL0.1	ELECTRICAL SHEET INDEX AND SYMBOL LIST
2	EL0.2	ELECTRICAL NOTES AND ABBREVIATIONS
3	EL0.3	BRIDGE DMX WIRING DIAGRAM - EAST SECTION
4	EL0.4	BRIDGE DMX WIRING DIAGRAM - WEST SECTION
5	EL0.5	BRIDGE DMX WIRING DIAGRAM - EAST TOWERS
6	EL0.6	BRIDGE DMX WIRING DIAGRAM - WEST TOWERS
7	EL1.1	OVERALL BRIDGE PLAN
8	EL2.1.1	ENLARGED BRIDGE - WEST APPROACH - LIGHTING
9	EL2.1.2	ENLARGED BRIDGE - EAST APPROACH - LIGHTING
10	EL2.1.3	ENLARGED BRIDGE - WEST APPROACH - CONDUIT PLAN
11	EL2.1.4	ENLARGED BRIDGE - EAST APPROACH - CONDUIT PLAN
12	EL2.2.1	ENLARGED BRIDGE - MAIN BRIDGE - LIGHTING
13	EL2.2.2	ENLARGED BRIDGE - MAIN BRIDGE - CONDUIT PLAN
14	EL2.2.3	ENLARGED BRIDGE - TYPICAL TOWER ELEVATIONS - LIGHTING
15	EL2.3.1	ENLARGED BRIDGE - MACHINERY AND ELECTRICAL ROOMS
16	EL3.1	PHOTOMETRICS - BRIDGE
17	EL3.2	PHOTOMETRICS - BIKE PATH
18	EL4.1	ONE LINE DIAGRAM
19	EL4.2	PANEL SCHEDULES
20	EL5.1	LIGHTING DETAILS
21	EL5.2	LIGHTING DETAILS
22	EL5.3	LIGHTING DETAILS

NOT FOR CONSTRUCTION

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REGISTERED PROFESSIONAL ENGINEER — VETTE J. VAN ZANTE — No. E15483 Exp. 6/30/27 — ELECTRICAL — STATE OF CALIFORNIA

11/03/2025

PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

EL0.1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: MNE
DATE _____

DESIGNED BY: S. LINDSAY
R.C.E. _____ DATE _____

CHECKED BY: _____
R.C.E. _____ DATE _____

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
ELECTRICAL SHEET INDEX, SYMBOL LIST, AND ABBREVIATIONS

T15136000

SHEET 184 — OF — 648

UNAUTHORIZED CHANGES & USES:
M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
A.F.F.	ABOVE FINISHED FLOOR
A.I.C.	AMPERE INTERRUPTING CAPACITY
AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C.	CONDUIT
C.B.	CIRCUIT BREAKER
CD	CANDELA
CKT	CIRCUIT
C.O.	CONDUIT ONLY, WITH PULL WIRE
C.T.	CURRENT TRANSFORMER
DC	DIRECT CURRENT
(E)	EXISTING
EL	EVENING LIGHT
EM	EMERGENCY
(ER)	EXISTING RELOCATED
EMT	ELECTRICAL METALLIC CONDUIT
(F)	FUTURE
GA.	GAUGE
GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
Isc	SHORT CIRCUIT AMPERES
ISO	ISOLATED
K	THOUSAND
KV	KILO VOLT
KVA	KILO VOLT AMPERE
KW	KILO WATT
KWH	KILO WATT HOUR
LT.	LIGHT
LV	LOW VOLTAGE
MAX.	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MFR.	MANUFACTURER
MIN.	MINIMUM
MTD.	MOUNTED
N	NEUTRAL
(N)	NEW
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N.I.C.	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NON-METALLIC CABLE
PFB	PROVISIONS FOR FUTURE CIRCUIT BREAKER
PH	PHASE
(R)	REMOVE
(RE)	RELOCATE EXISTING
RCPT.	RECEPTACLE
SWBD	SWITCHBOARD
SYS	SYSTEM
TYP.	TYPICAL
UG	UNDERGROUND
V	VOLT
VA	VOLT-AMPERES
W	WIRE, WATT
WP	WEATHER PROTECTED
XFMR	TRANSFORMER

APPLICABLE CODES AND REGULATIONS

THE FOLLOWING ARE THE ENFORCEABLE CODES FOR FACILITIES UNDER THE AUTHORITY OF THE ALFRED E. ALQUIST HOSPITAL FACILITIES SEISMIC SAFETY ACT OF 1983:

2022	CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)).
2022	CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR (2021 IBC AND 2022 CALIFORNIA AMENDMENTS).
2022	CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR (2020 NEC AND 2022 CALIFORNIA AMENDMENTS).
2022	CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR (2021 UMC AND 2022 CALIFORNIA AMENDMENTS).
2022	CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR (2021 UPC AND 2022 CALIFORNIA AMENDMENTS).
2022	CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR (2021 IFC AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE - PART 11, TITLE 24
2015	N.F.P.A. 101 LIFE SAFETY CODE
2016	N.F.P.A. 72 NATIONAL FIRE ALARM CODE
2016	EDITION TITLE 19, CALIFORNIA CODE OF REGULATIONS, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
	TITLE 8, CALIFORNIA CODE OF REGULATIONS, INDUSTRIAL STANDARDS.
	TITLE 22, CALIFORNIA CODE OF REGULATIONS, SOCIAL SECURITY DIVISIONS 5, 7.
	THE DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION (HCAI) REGULATIONS.
	OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
	FACTORY MUTUAL SYSTEM (FM) REQUIREMENTS.
	ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS

** UNDERGROUND DIGGING CAUTION **

USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED UTILITY CABLES, CONDUITS, AND PIPING. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.):

811 or 1-800-642-2444

TWO WORKING DAYS BEFORE DIGGING TO VERIFY UNDERGROUND UTILITIES.

GROUND PENETRATION RADAR (GPR)

AREA CONTAINS EXISTING POWER AND SINGLE CONDUITS/CONDUCTORS AND THE LOCATIONS ARE UNKNOWN. THE CONTRACTOR SHALL USE GROUND PENETRATING RADAR (GPR) TO IDENTIFY UNDERGROUND INFRASTRUCTURE (CONDUITS AND PIPES) AND HAND DIG AROUND EXISTING UNDERGROUND INFRASTRUCTURE (CONDUITS AND PIPES).

BRANCH CIRCUIT VOLTAGE DROP TABLE

VOLTAGE DROP VALUES NOT EXCEEDING 2% FOR FEEDERS HAVE BEEN SHOWN ON THE ONE LINE DIAGRAM. IN LIEU OF VOLTAGE DROP CALCULATIONS FOR EACH BRANCH CIRCUIT IN SCOPE OF WORK, THE GENERAL DESIGN STANDARD BELOW HAS BEEN FOLLOWED TO ENSURE A VOLTAGE DROP OF 3% IS NOT EXCEEDED. WHERE THE CIRCUIT LOAD OR CIRCUIT LENGTH LISTED HAS BEEN EXCEEDED, A DETAILED VOLTAGE DROP CALCULATION FOR THAT CIRCUIT HAS BEEN PROVIDED WITH THE TITLE 24 COMPLIANCE DOCUMENTATION.

VOLTAGE	MAXIMUM CIRCUIT LOAD FOR 20 AMP CIRCUIT BREAKER	CONDUCTOR SIZE	MAXIMUM BRANCH CIRCUIT LENGTH
120 VOLT	9 AMPS (1.08 KVA)	#8 AWG	285 FEET
		#10 AWG	180 FEET
		#12 AWG	115 FEET
	12 AMPS (1.44 KVA)	#8 AWG	210 FEET
		#10 AWG	135 FEET
		#12 AWG	85 FEET
	16 AMPS (1.92 KVA)	#8 AWG	130 FEET
		#10 AWG	85 FEET
		#12 AWG	55 FEET
208 VOLT	9 AMPS (1.87 KVA)	#8 AWG	440 FEET
		#10 AWG	285 FEET
		#12 AWG	170 FEET
	12 AMPS (2.49 KVA)	#8 AWG	330 FEET
		#10 AWG	215 FEET
		#12 AWG	130 FEET
	16 AMPS (3.33 KVA)	#8 AWG	250 FEET
		#10 AWG	160 FEET
		#12 AWG	95 FEET
277 VOLT	9 AMPS (2.49 KVA)	#8 AWG	660 FEET
		#10 AWG	420 FEET
		#12 AWG	270 FEET
	12 AMPS (3.32 KVA)	#8 AWG	495 FEET
		#10 AWG	315 FEET
		#12 AWG	200 FEET
	16 AMPS (4.43 KVA)	#8 AWG	370 FEET
		#10 AWG	235 FEET
		#12 AWG	150 FEET
480 VOLT	9 AMPS (2.49 KVA)	#8 AWG	1320 FEET
		#10 AWG	840 FEET
		#12 AWG	540 FEET
	12 AMPS (3.32 KVA)	#8 AWG	980 FEET
		#10 AWG	620 FEET
		#12 AWG	400 FEET
	16 AMPS (4.43 KVA)	#8 AWG	740 FEET
		#10 AWG	460 FEET
		#12 AWG	300 FEET

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Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400

REGISTERED PROFESSIONAL ENGINEER — YVETTE J. VAN ZANTEN — No. E15483 — Exp. 6/30/27 — ELECTRICAL — STATE OF CALIFORNIA

11/03/2025

PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

EL0.2

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. NTS
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: MNE DATE ____
DESIGNED BY: S. LINDSAY R.C.E. ____ DATE ____
CHECKED BY: ____ R.C.E. ____ DATE ____

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

ELECTRICAL NOTES

T15136000

SHEET 185 — OF — 648

UNAUTHORIZED CHANGES & USES:
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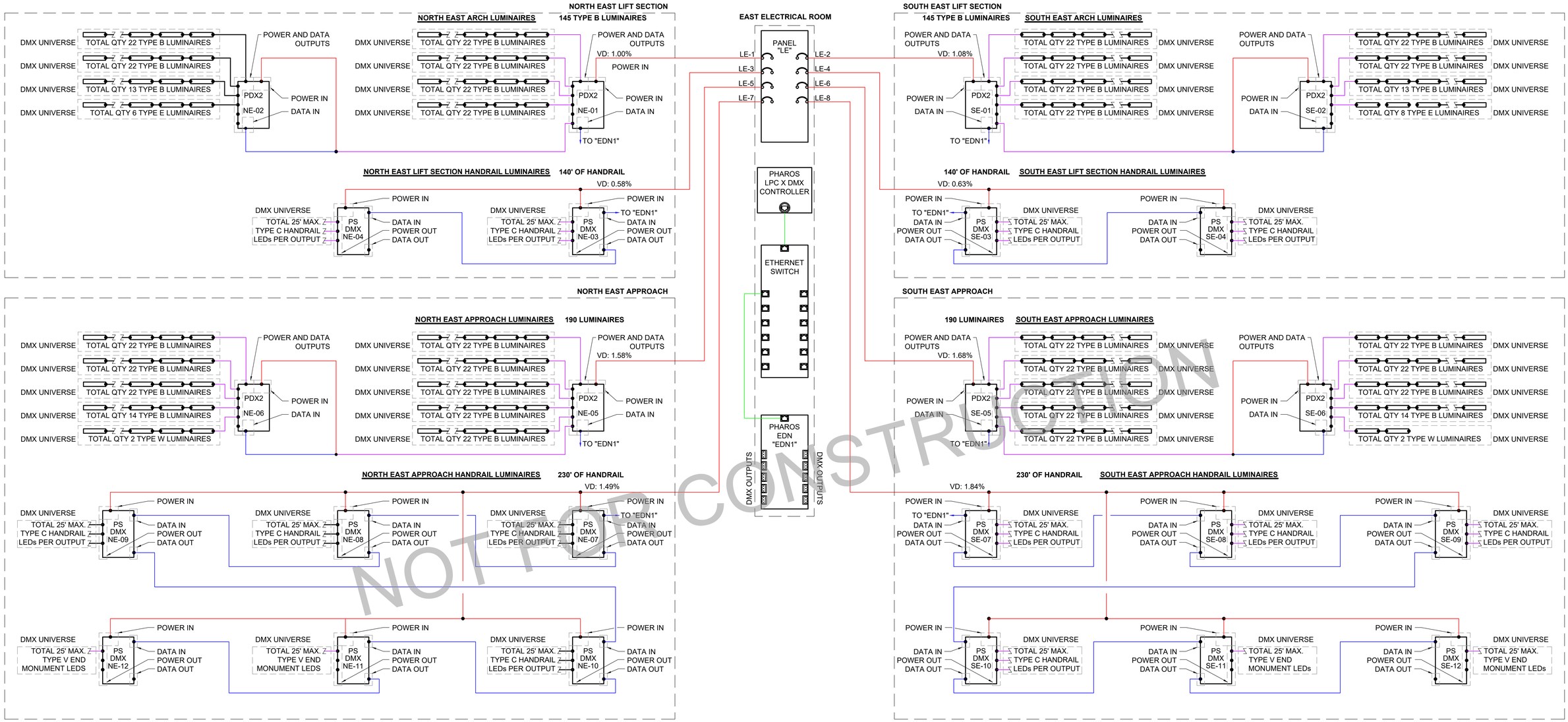

NOT FOR CONSTRUCTION

COLOR CODE

1. POWER CABLE RUN
2. DMX DATA CABLE RUN
3. POWER & DMX DATA CABLE RUN
4. ETHERNET DATA CABLE RUN

GENERAL NOTES FOR BRIDGE WIRING DIAGRAMS

1. ONLY DMX CONTROLLABLE LUMINAIRES ARE SHOWN IN THIS WIRING DIAGRAM, TYP.
2. REFER TO 1/EL1.1 FOR BRIDGE SECTIONS REFERENCED IN THIS DIAGRAM.
3. VOLTAGE DROP CALCULATIONS BASED ON #10 AWG CU CONDUCTOR.
4. REFER TO MANUFACTURER REQUIREMENTS FOR CABLE TYPES AND CONNECTORS.

1 / EL0.3 — BRIDGE DMX WIRING DIAGRAM - EAST

NO SCALE

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11/03/2025

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PROJECT MGR: Stuart Lindsay

EL0.3

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EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
BRIDGE DMX WIRING DIAGRAM - EAST LIFT SECTION

T15136000

SHEET 186 OF 648

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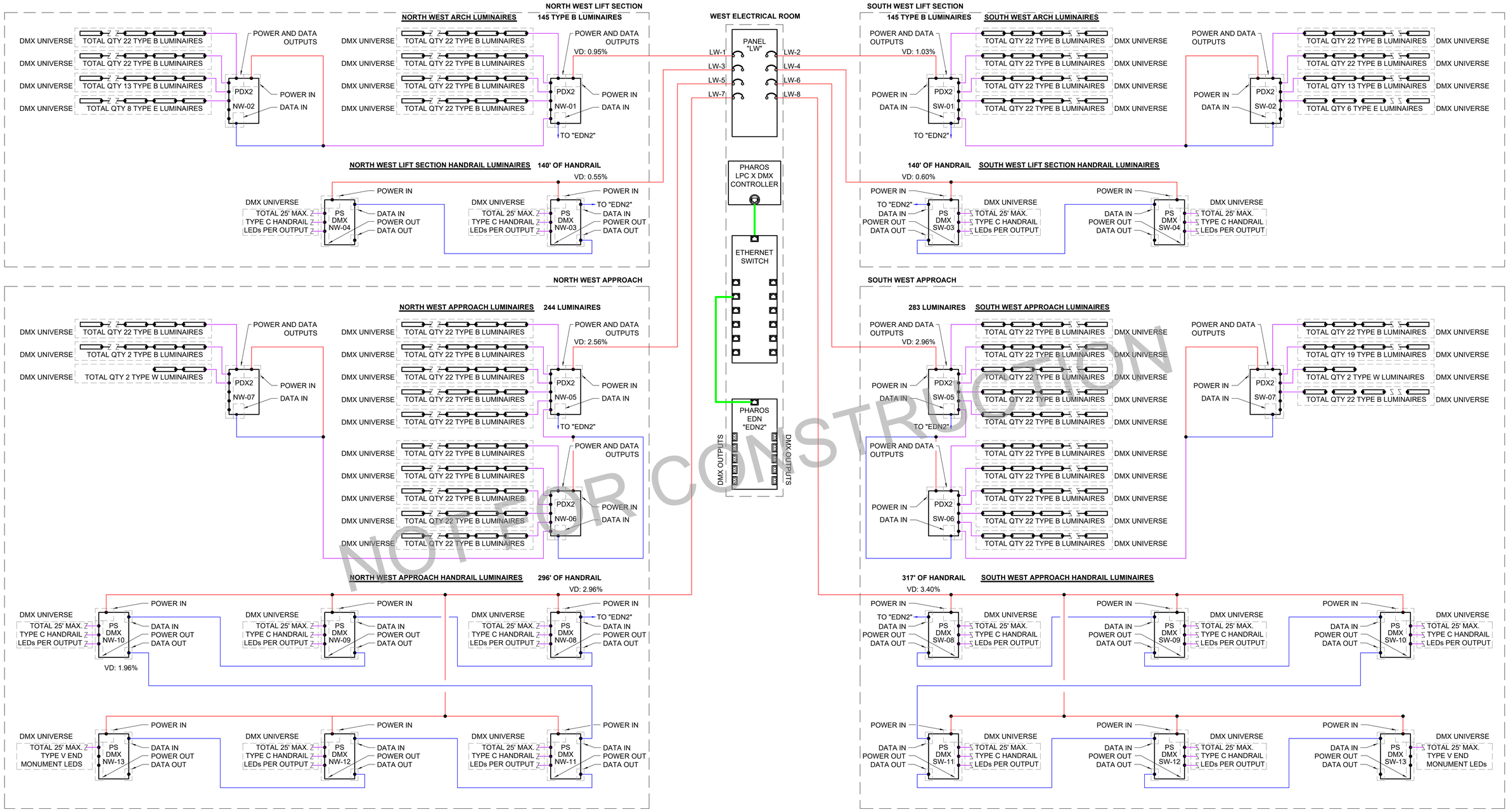

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NOTE: REFER TO EL0.3 FOR GENERAL NOTES, NUMBERED NOTES, AND COLOR CODE FOR BRIDGE DMX WIRING DIAGRAM PLANS

1 / EL0.4

BRIDGE DMX WIRING DIAGRAM - WEST

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I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
BRIDGE DMX WIRING DIAGRAM - WEST LIFT SECTION

T15136000

SHEET 187 OF 648

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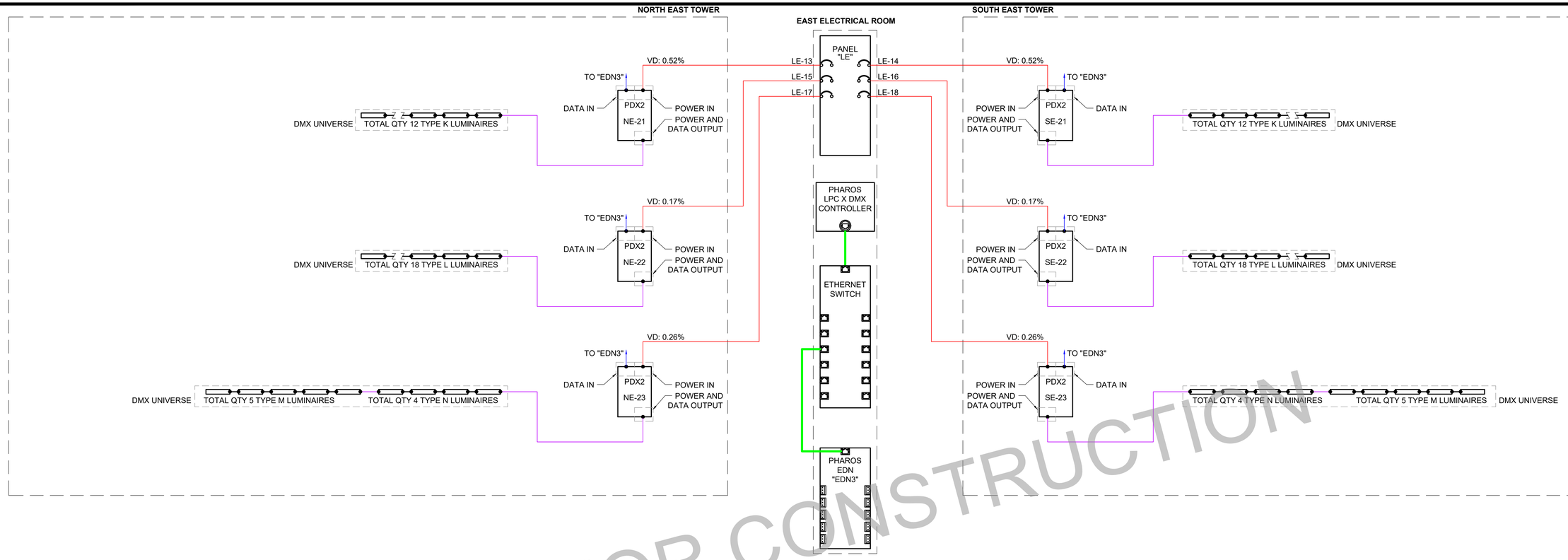

NOT FOR CONSTRUCTION

COLOR CODE

1. POWER CABLE RUN
2. DMX DATA CABLE RUN
3. POWER & DMX DATA CABLE RUN
4. ETHERNET DATA CABLE RUN

GENERAL NOTES FOR TOWER WIRING DIAGRAMS

1. ONLY DMX CONTROLLABLE LUMINAIRES ARE SHOWN IN THIS WIRING DIAGRAM, TYP.
2. REFER TO 1/EL1.1 FOR BRIDGE SECTIONS REFERENCED IN THIS DIAGRAM.
3. VOLTAGE DROP CALCULATIONS BASED ON #10 AWG CU CONDUCTOR.
4. REFER TO MANUFACTURER REQUIREMENTS FOR CABLE TYPES AND CONNECTORS.

1 / EL0.5 — BRIDGE DMX WIRING DIAGRAM - EAST TOWERS

NO SCALE

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PROJECT MGR: Stuart Lindsay

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11/03/2025

EL0.5

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I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
BRIDGE DMX WIRING DIAGRAM - EAST TOWERS

T15136000

SHEET 188 — OF — 648

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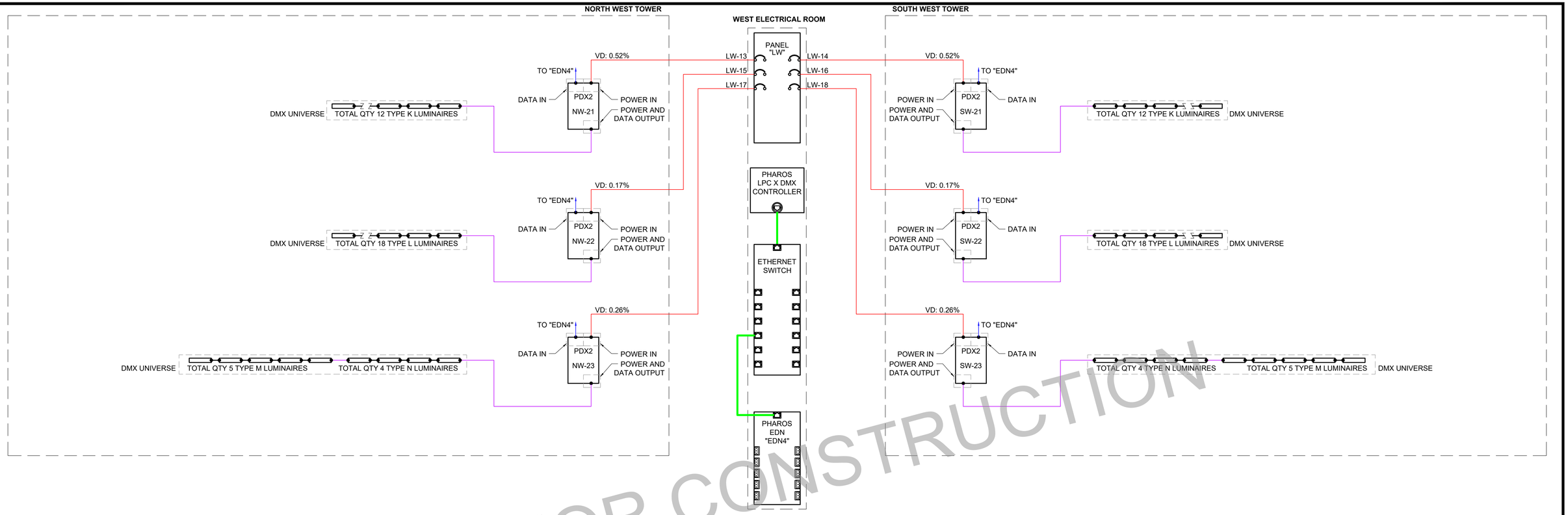

COLOR CODE

1. POWER CABLE RUN
2. DMX DATA CABLE RUN
3. POWER & DMX DATA CABLE RUN
4. ETHERNET DATA CABLE RUN

GENERAL NOTES FOR TOWER WIRING DIAGRAMS

1. ONLY DMX CONTROLLABLE LUMINAIRES ARE SHOWN IN THIS WIRING DIAGRAM, TYP.
2. REFER TO 1/EL1.1 FOR BRIDGE SECTIONS REFERENCED IN THIS DIAGRAM.
3. VOLTAGE DROP CALCULATIONS BASED ON #10 AWG CU CONDUCTOR.
4. REFER TO MANUFACTURER REQUIREMENTS FOR CABLE TYPES AND CONNECTORS.

1 / EL0.6 — BRIDGE DMX WIRING DIAGRAM - WEST TOWERS

NO SCALE

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STATE OF CALIFORNIA
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EL0.6

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I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
BRIDGE DMX WIRING DIAGRAM - WEST TOWERS

T15136000

SHEET 189 — OF — 648

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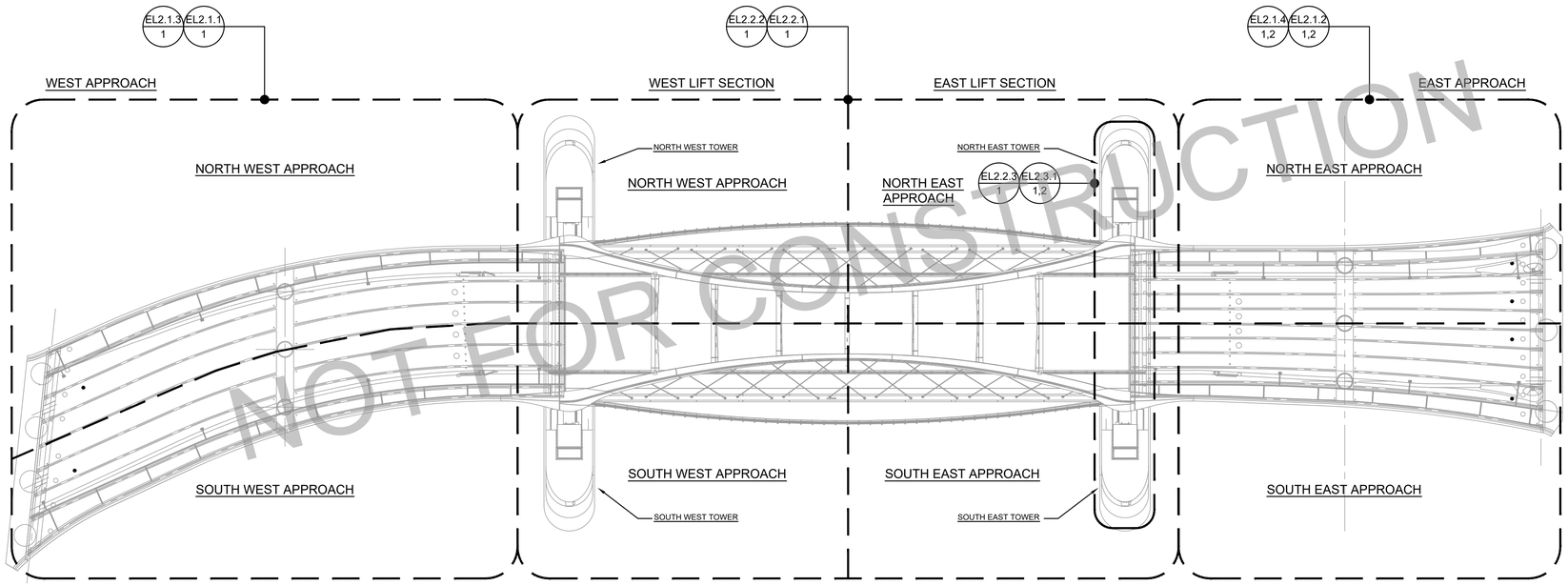

NOT FOR CONSTRUCTION

1 / EL1.1 OVERALL BRIDGE PLAN

SCALE : 1" = 40'-0"

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ELECTRICAL
STATE OF CALIFORNIA

11/03/2025

EL1.1

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I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

OVERALL BRIDGE PLAN

T15136000

SHEET 190 — OF — 648

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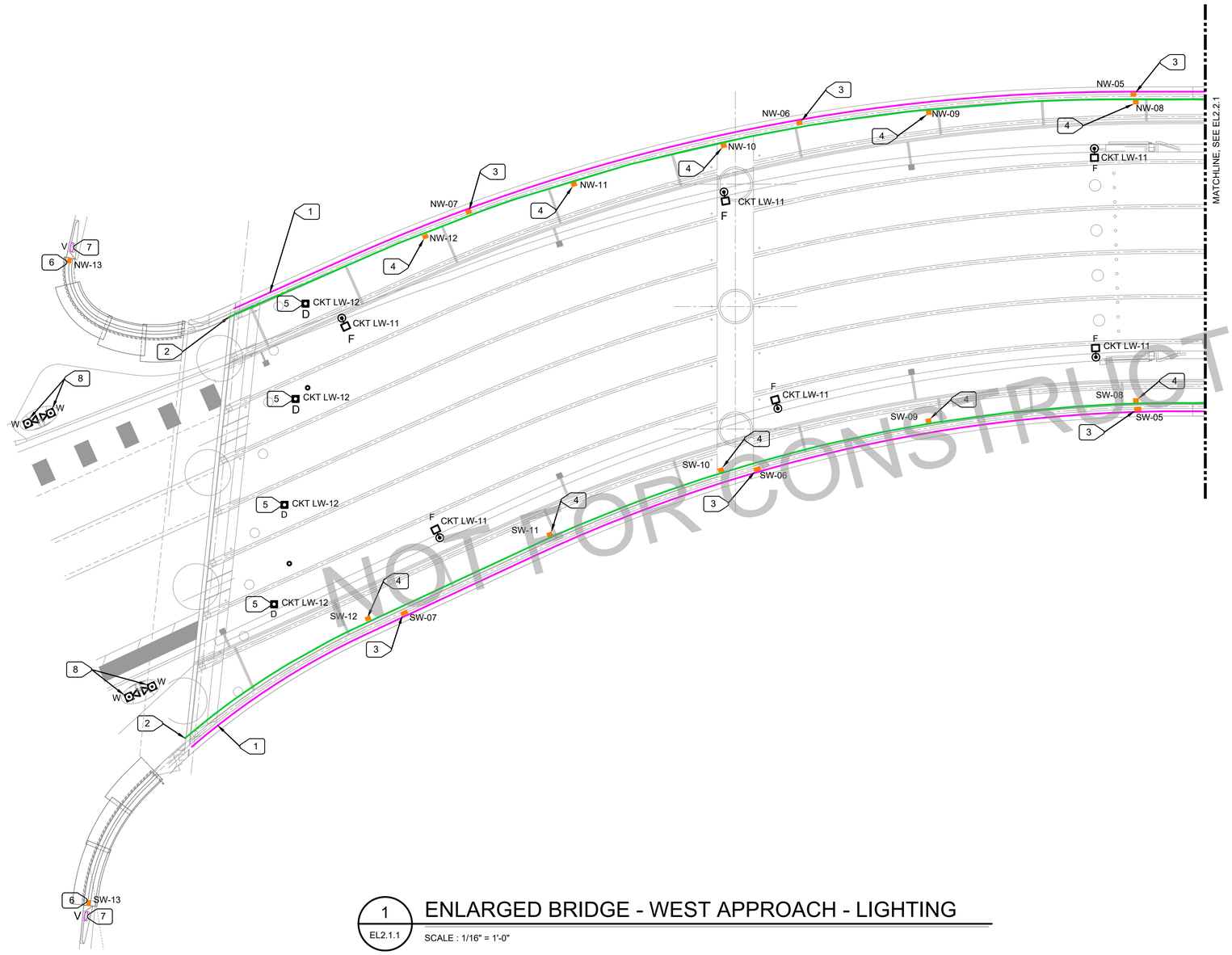

1 EL2.1.1 ENLARGED BRIDGE - WEST APPROACH - LIGHTING

SCALE : 1/16" = 1'-0"

NUMBERED NOTES

1. TYPE B LUMINAIRE, TYPICAL ALONG PATH. TOTAL FIXTURE COUNT ALONG NORTH SIDE OF ENTIRE BRIDGE IS 724 LUMINAIRES. TOTAL FIXTURE COUNT ALONG SOUTH SIDE OF ENTIRE BRIDGE IS 741 LUMINAIRES.
2. TYPE C LED STRIP LUMINAIRE, MOUNTED UNDERNEATH HANDRAIL, TYPICAL ALONG PATH. TOTAL LENGTH 296' ALONG NORTH SIDE OF WEST APPROACH. TOTAL LENGTH OF 317' ALONG SOUTH SIDE OF WEST APPROACH.
3. PDX2 POWER AND DATA BOX FOR TYPE B LUMINAIRE. REFER TO SHEET EL0.4 FOR WIRING INFORMATION. MOUNTED INSIDE STRUCTURE, REFER TO DETAIL 3/EL5.1.
4. PS-DMX POWER AND DATA BOX FOR TYPE C HANDRAIL LED LUMINAIRES. REFER TO SHEET EL0.4 FOR WIRING INFORMATION. MOUNTED INSIDE STRUCTURE, REFER TO DETAIL 3/EL5.1. COORDINATE FINAL LOCATION WITH CIVIL ENGINEER.
5. DOWNLIGHT MOUNTED UNDERNEATH STRUCTURE FOR PEDESTRIAN WALKWAY. REFER TO DETAIL 1/EL5.2 FOR MOUNTING.
6. PS-DMX POWER AND DATA BOX FOR TYPE V RGBW LINEAR LED LUMINAIRES. REFER TO SHEET EL0.4 FOR WIRING INFORMATION. MOUNTED INSIDE STRUCTURE, COORDINATE FINAL LOCATION WITH CIVIL ENGINEER.
7. TYPE V RGBW LINEAR LED LUMINAIRE, MOUNTED INSIDE END MONUMENT. REFER TO ARCHITECTURAL MONUMENT DETAILS FOR LENGTH AND MOUNTING INFORMATION.
8. TYPE W RGBW FLOOD LED LUMINAIRE, MOUNTED INSIDE TRAFFIC WARNING GATE. REFER TO SHEETS EL0.4 AND EL2.1.3 FOR FEEDER AND CONDUIT INFORMATION. REFER TO CIVIL ENGINEER TRAFFIC WARNING GATE DETAILS FOR MONUMENT DETAIL.

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11/03/2025

EL2.1.1

REVISIONS NO.	DESCRIPTION	DATE	BY

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CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
ENLARGED BRIDGE - WEST APPROACH - LIGHTING

T15136000

SHEET 191 — OF — 648

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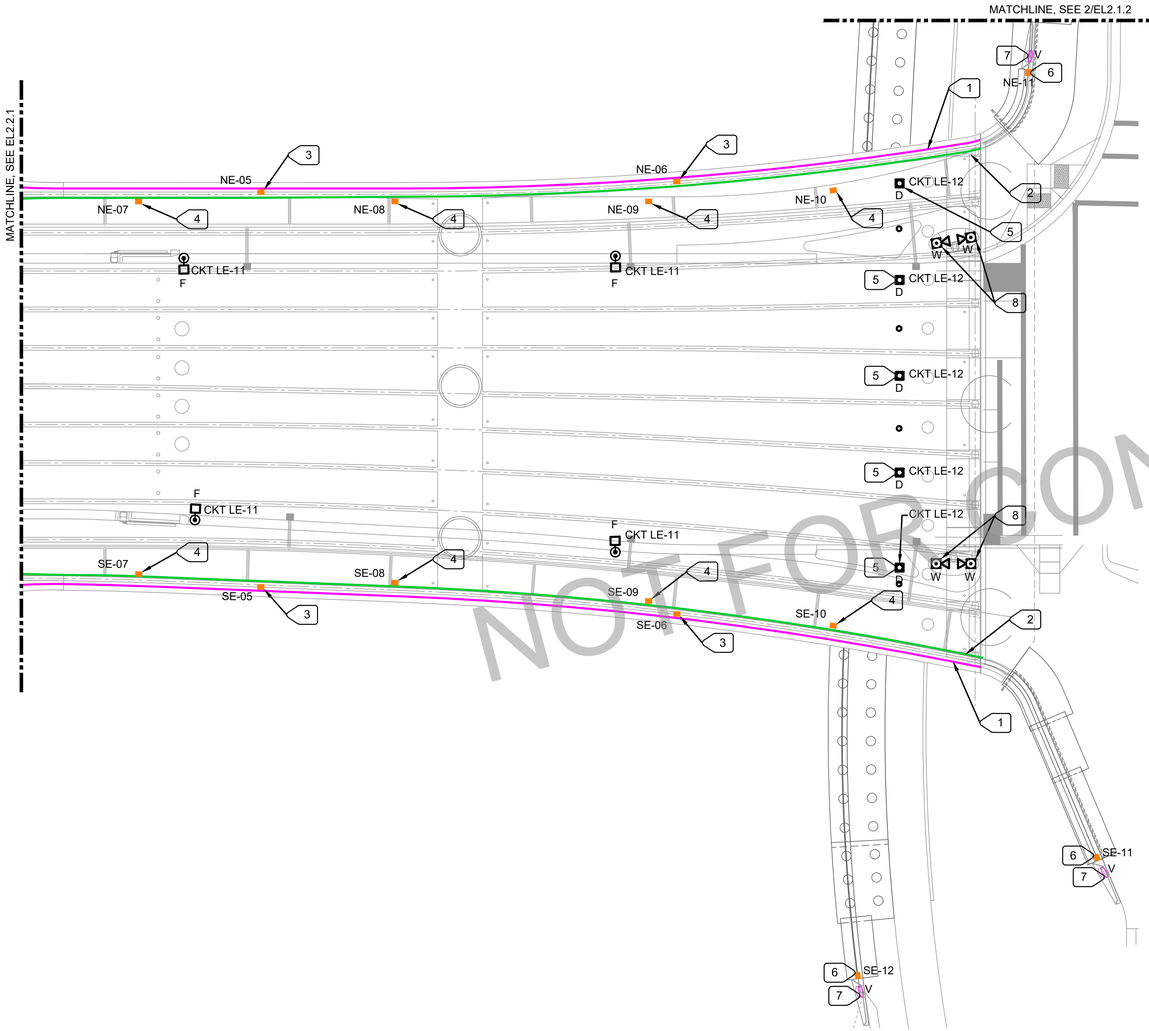

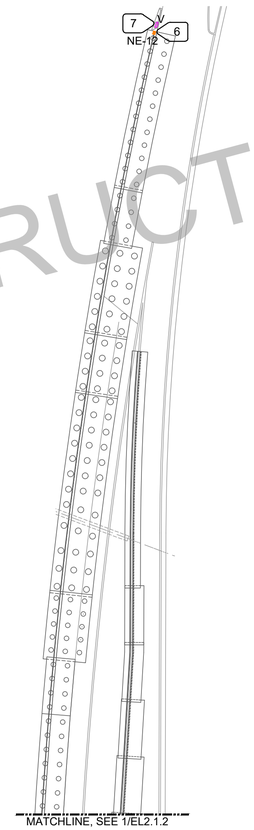

NUMBERED NOTES

1. TYPE B LUMINAIRE, TYPICAL ALONG PATH. TOTAL FIXTURE COUNT ALONG NORTH SIDE OF ENTIRE BRIDGE IS 724 LUMINAIRES. TOTAL FIXTURE COUNT ALONG SOUTH SIDE OF ENTIRE BRIDGE IS 741 LUMINAIRES.
2. TYPE C LED STRIP LUMINAIRE, MOUNTED UNDERNEATH HANDRAIL, TYPICAL ALONG PATH. TOTAL LENGTH 230' ALONG NORTH SIDE OF EAST APPROACH. TOTAL LENGTH OF 230' ALONG SOUTH SIDE OF EAST APPROACH.
3. PDX2 POWER AND DATA BOX FOR TYPE B LUMINAIRE. REFER TO SHEET EL0.3 FOR WIRING INFORMATION. MOUNTED INSIDE STRUCTURE, REFER TO DETAIL 3/EL5.1.
4. PS-DMX POWER AND DATA BOX FOR TYPE C HANDRAIL LED LUMINAIRES. REFER TO SHEET EL0.3 FOR WIRING INFORMATION. MOUNTED INSIDE STRUCTURE, REFER TO DETAIL 3/EL5.1. COORDINATE FINAL LOCATION WITH CIVIL ENGINEER.
5. DOWNLIGHT MOUNTED UNDERNEATH STRUCTURE FOR PEDESTRIAN WALKWAY. REFER TO DETAIL 1/EL5.2 FOR MOUNTING.
6. PS-DMX POWER AND DATA BOX FOR TYPE V RGBW LINEAR LED LUMINAIRES. REFER TO SHEET EL0.3 FOR WIRING INFORMATION. MOUNTED INSIDE STRUCTURE, COORDINATE FINAL LOCATION WITH CIVIL ENGINEER.
7. TYPE V RGBW LINEAR LED LUMINAIRE, MOUNTED INSIDE END MONUMENT. REFER TO ARCHITECTURAL MONUMENT DETAILS FOR LENGTH AND MOUNTING INFORMATION.
8. TYPE W RGBW FLOOD LED LUMINAIRE, MOUNTED INSIDE TRAFFIC WARNING GATE. REFER TO SHEETS EL0.3 AND EL2.1.4 FOR FEEDER AND CONDUIT INFORMATION. REFER TO CIVIL ENGINEER TRAFFIC WARNING GATE DETAILS FOR ADDITIONAL INFORMATION.

NOT FOR CONSTRUCTION

1 / EL2.1.2 — ENLARGED BRIDGE - EAST APPROACH - LIGHTING
SCALE : 1/16" = 1'-0"

2 / EL2.1.2 — ENLARGED BRIDGE - EAST LANDING - LIGHTING
SCALE : 1/32" = 1'-0"

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11/03/2025

EL2.1.2

REVISIONS NO.	DESCRIPTION	DATE	BY

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VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
ENLARGED BRIDGE - EAST APPROACH - LIGHTING

T15136000

SHEET 192 — OF — 648

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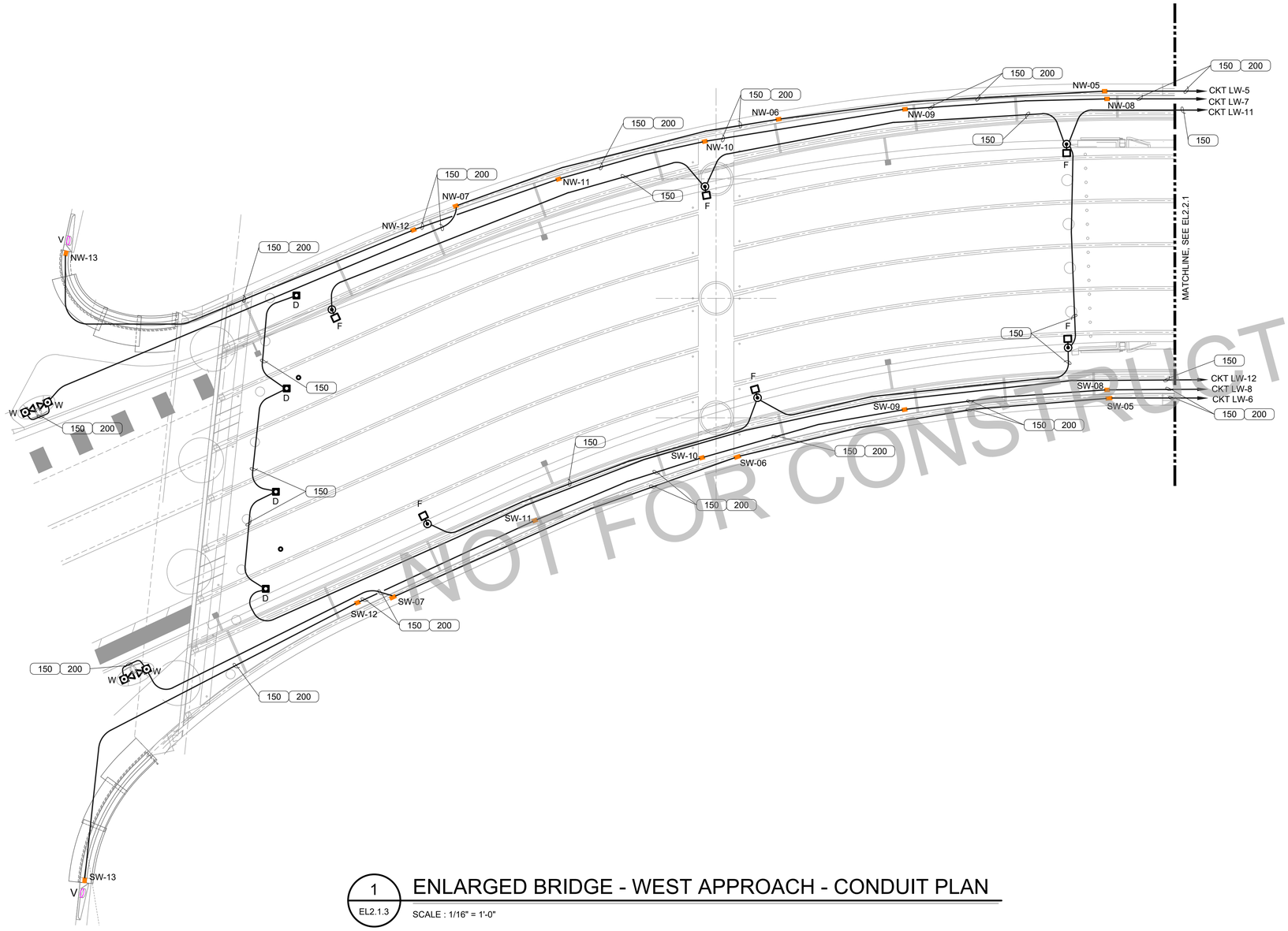
FEEDER SCHEDULE

TAG ###	DESCRIPTION
150	1-1/2" C., 3 #10, AND 1 #10 GND.
200	2" C. FOR DMX CONTROLS, REFER TO LIGHTING CONTROLS CONTRACTOR DRAWINGS FOR CABLING



1 / EL2.1.3 ENLARGED BRIDGE - WEST APPROACH - CONDUIT PLAN

SCALE : 1/16" = 1'-0"

NOT FOR CONSTRUCTION

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Sacramento, CA 95825-8217
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Tel: (916) 923-4400

REGISTERED PROFESSIONAL ENGINEER — YVETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/27 — ELECTRICAL — STATE OF CALIFORNIA

11/03/2025

PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

EL2.1.3

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: MNE DATE _____
DESIGNED BY: S. LINDSAY R.C.E. ____ DATE _____
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MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
ENLARGED BRIDGE - WEST APPROACH - CONDUIT PLAN

T15136000

SHEET 193 OF 648

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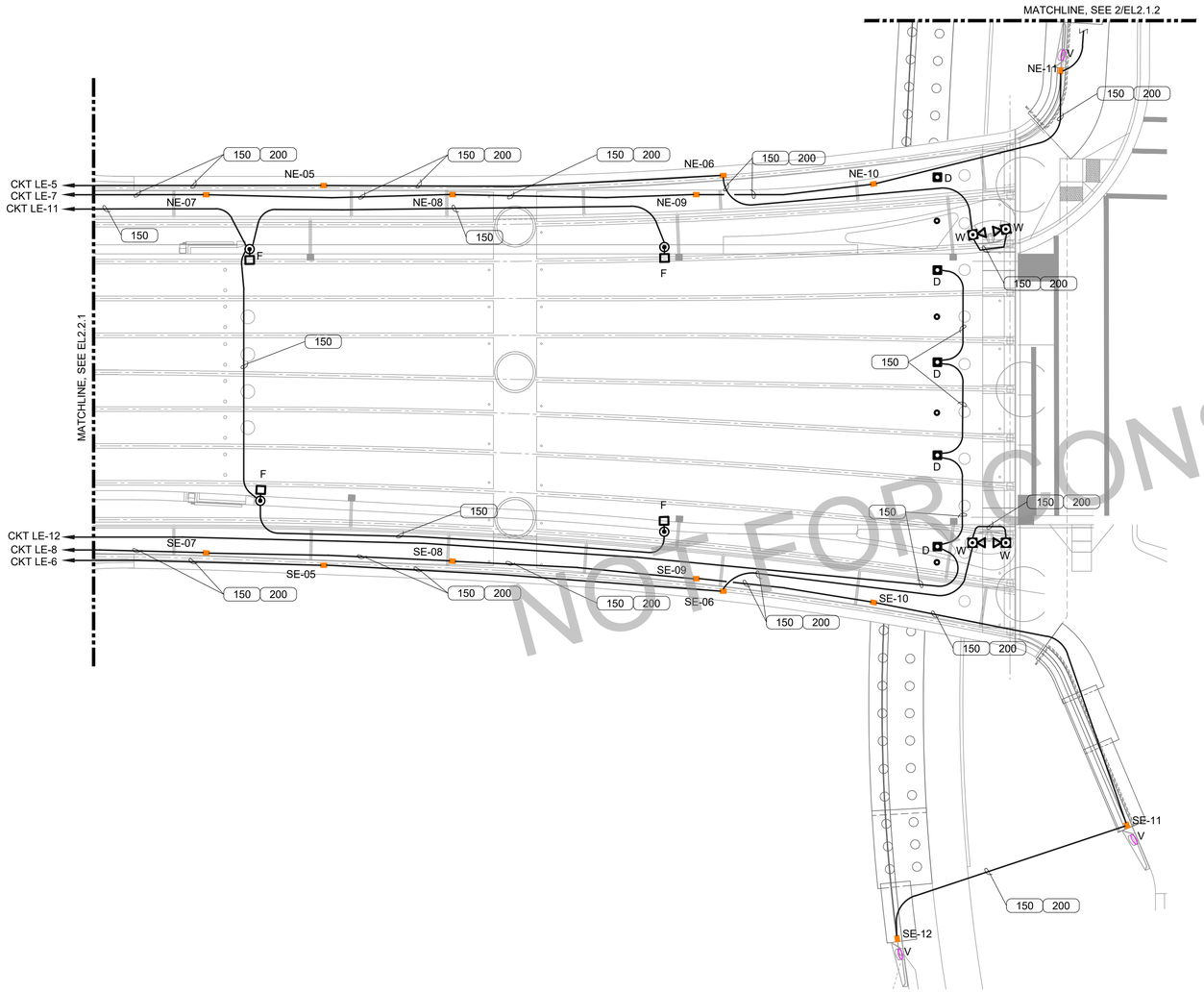
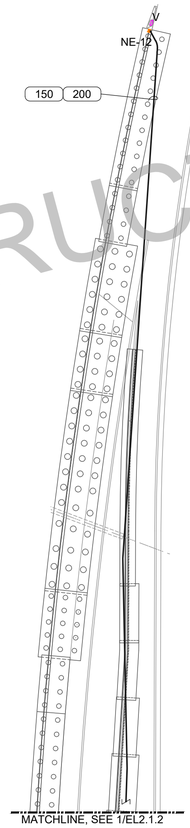
FEEDER SCHEDULE

TAG ###	DESCRIPTION
150	1-1/2" C., 3 #10, AND 1 #10 GND.
200	2" C. FOR DMX CONTROLS, REFER TO LIGHTING CONTROLS CONTRACTOR DRAWINGS FOR CABLING



1 EL2.1.4 — ENLARGED BRIDGE - EAST APPROACH - CONDUIT PLAN

SCALE : 1/16" = 1'-0"



2 EL2.1.4 — ENLARGED BRIDGE - EAST LANDING - CONDUIT PLAN

SCALE : 1/32" = 1'-0"

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PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

REGISTERED PROFESSIONAL ENGINEER — YVETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/27 — STATE OF CALIFORNIA

11/03/2025

EL2.1.4

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EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
ENLARGED BRIDGE - EAST APPROACH - CONDUIT PLAN

T15136000

SHEET 194 — OF — 648

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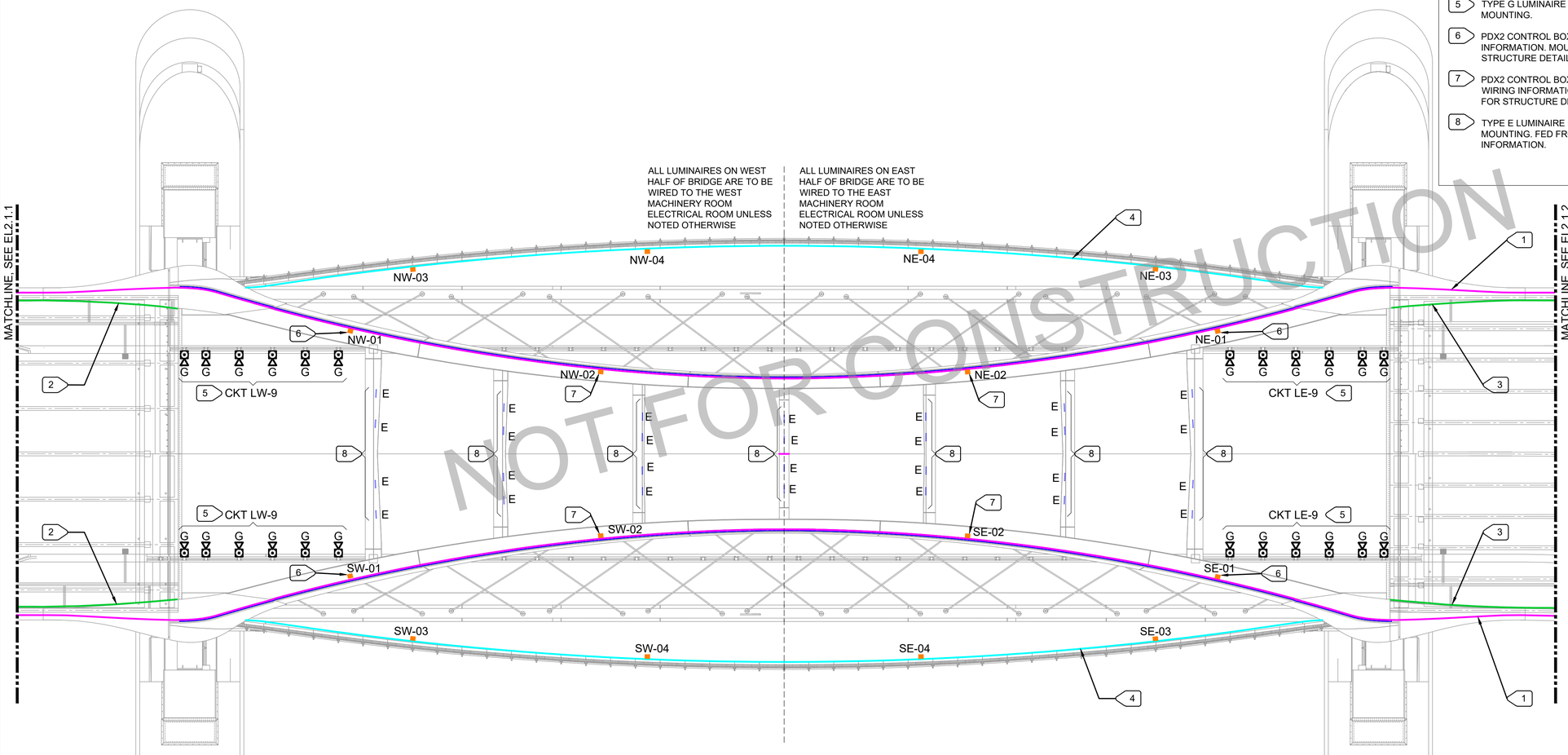
NUMBERED NOTES

1. TYPE B LUMINAIRE, TYPICAL ALONG PATH. TOTAL FIXTURE COUNT ALONG NORTH SIDE OF ENTIRE BRIDGE IS 724 LUMINAIRES. TOTAL FIXTURE COUNT ALONG SOUTH SIDE OF ENTIRE BRIDGE IS 741 LUMINAIRES.
2. TYPE C LED STRIP LUMINAIRE, MOUNTED UNDERNEATH HANDRAIL, TYPICAL ALONG PATH. TOTAL LENGTH 296' ALONG NORTH SIDE OF WEST APPROACH. TOTAL LENGTH OF 317' ALONG SOUTH SIDE OF WEST APPROACH.
3. TYPE C LED STRIP LUMINAIRE, MOUNTED UNDERNEATH HANDRAIL, TYPICAL ALONG PATH. TOTAL LENGTH 230' ALONG NORTH SIDE OF EAST APPROACH. TOTAL LENGTH OF 230' ALONG SOUTH SIDE OF EAST APPROACH.
4. TYPE C LED STRIP LUMINAIRE, MOUNTED UNDERNEATH HANDRAIL, TYPICAL ALONG PATH. TOTAL LENGTH 280' ALONG NORTH SIDE OF BRIDGE. TOTAL LENGTH OF 280' ALONG SOUTH SIDE OF BRIDGE.
5. TYPE G LUMINAIRE MOUNTED ON BRIDGE GUARDRAIL, TYPICAL. REFER TO DETAIL 2/EL5.1 FOR MOUNTING.
6. PDX2 CONTROL BOX FOR TYPE B LUMINAIRES. REFER TO SHEETS EL0.3 AND EL0.4 FOR WIRING INFORMATION. MOUNTED INSIDE STRUCTURE, REFER TO BRIDGE ENGINEER DRAWINGS FOR STRUCTURE DETAILS.
7. PDX2 CONTROL BOX FOR TYPE B AND E LUMINAIRES. REFER TO SHEETS EL0.3 AND EL0.4 FOR WIRING INFORMATION. MOUNTED INSIDE STRUCTURE, REFER TO BRIDGE ENGINEER DRAWINGS FOR STRUCTURE DETAILS.
8. TYPE E LUMINAIRE MOUNTED TO BRIDGE LATERAL, TYPICAL. REFER TO DETAIL 4/EL5.1 FOR MOUNTING. FED FROM PDX2 CONTROL BOX, REFER TO SHEETS EL0.3 AND EL0.4 FOR WIRING INFORMATION.



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1 / EL2.2.1 — ENLARGED BRIDGE - MAIN BRIDGE - LIGHTING

SCALE : 1/16" = 1'-0"

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11/03/2025

PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

EL2.2.1

REVISIONS NO.	DESCRIPTION	DATE	BY

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MARK THOMAS
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R.C.E. 73128
EXP. 12-31-22

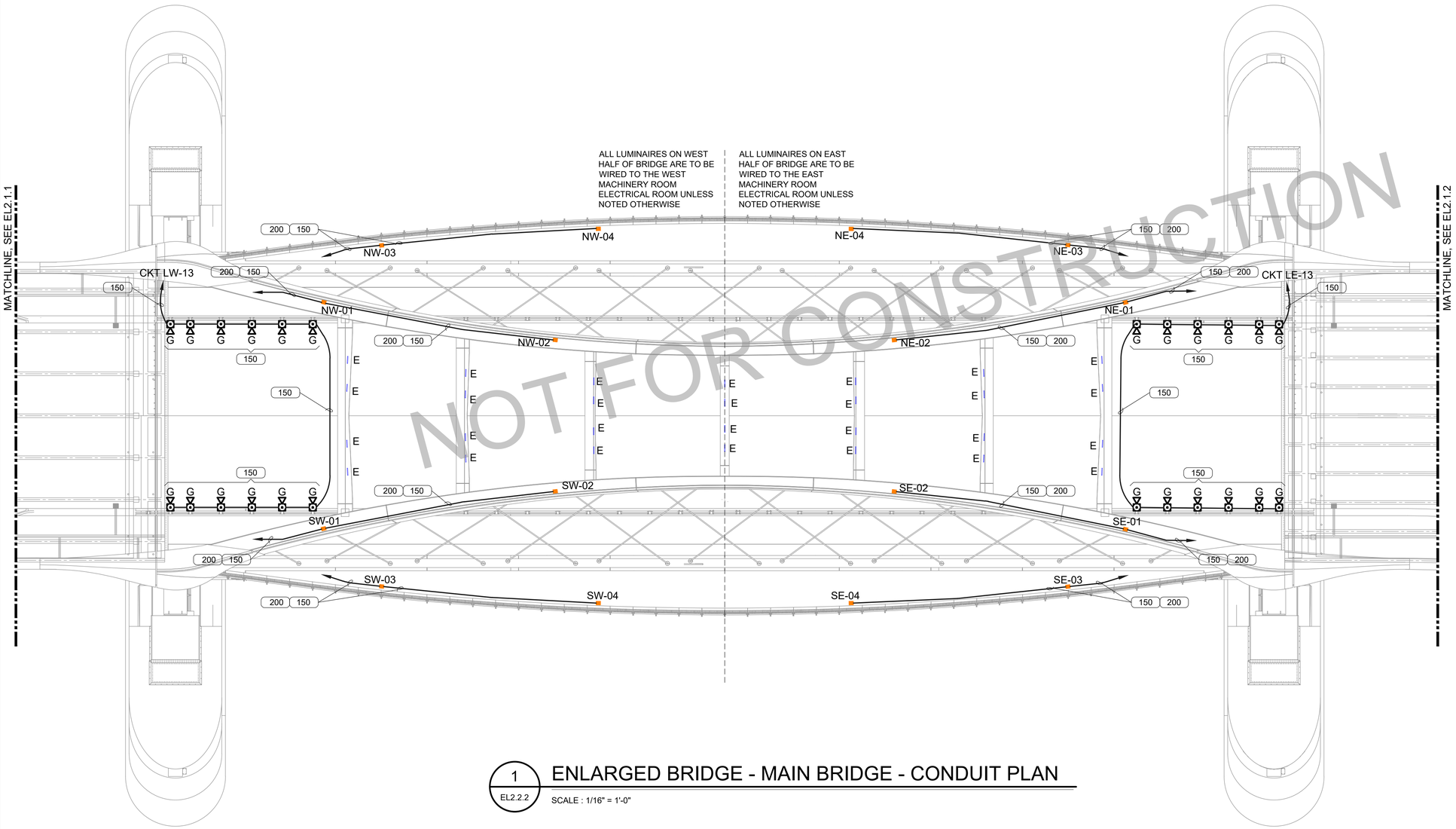
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER
ENLARGED BRIDGE - MAIN BRIDGE - LIGHTING

T15136000

SHEET 195 — OF — 648

FEEDER SCHEDULE

TAG (###)	DESCRIPTION
150	1-1/2" C., 3 #10, AND 1 #10 GND.
200	2" C. FOR DMX CONTROLS, REFER TO LIGHTING CONTROLS CONTRACTOR DRAWINGS FOR CABLING



NOT FOR CONSTRUCTION

1 EL2.2.2 ENLARGED BRIDGE - MAIN BRIDGE - CONDUIT PLAN

SCALE : 1/16" = 1'-0"

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11/03/2025

PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

EL2.2.2

REVISIONS NO.	DESCRIPTION	DATE	BY

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VERT. ____

CITY OF SACRAMENTO
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I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER ENLARGED BRIDGE - MAIN BRIDGE - CONDUIT PLAN

T15136000

SHEET 196 — OF — 648

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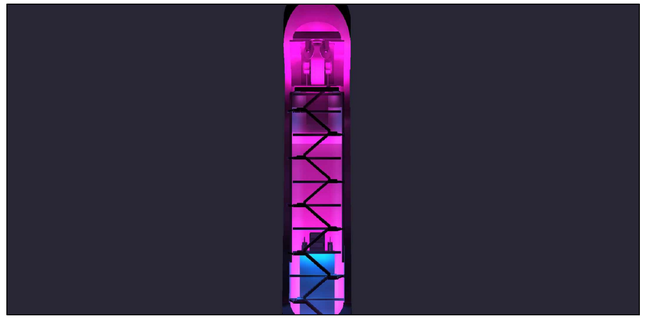
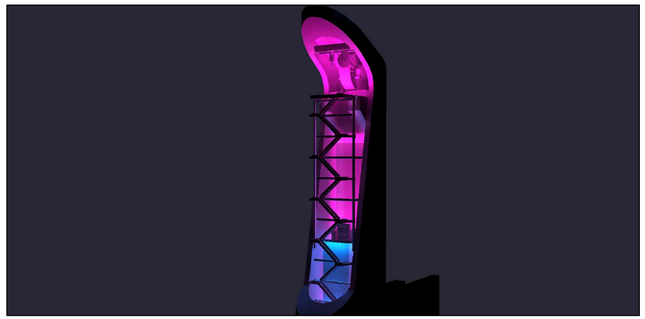
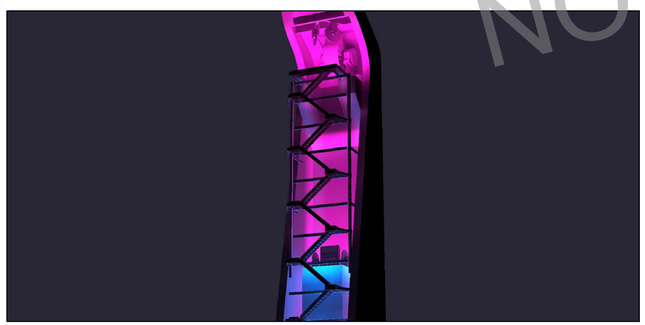


PROJECT RENDERING
SCALE: NONE



PROJECT RENDERING
SCALE: NONE

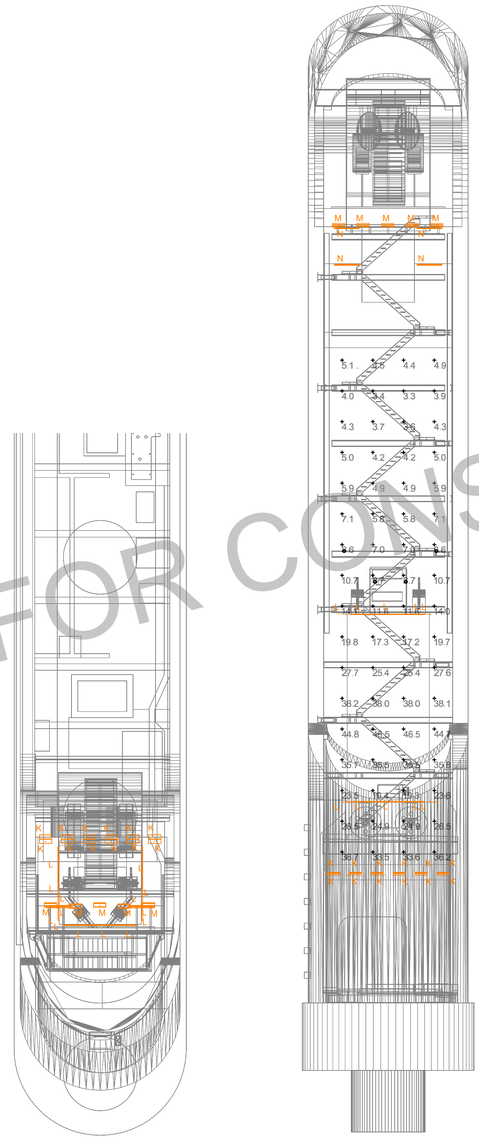


PROJECT RENDERING
SCALE: NONE

Calculation Summary							
Scenario: GENERAL							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
REAR WALL_Surface	Illuminance	Fc	17.98	46.5	3.3	5.45	14.09

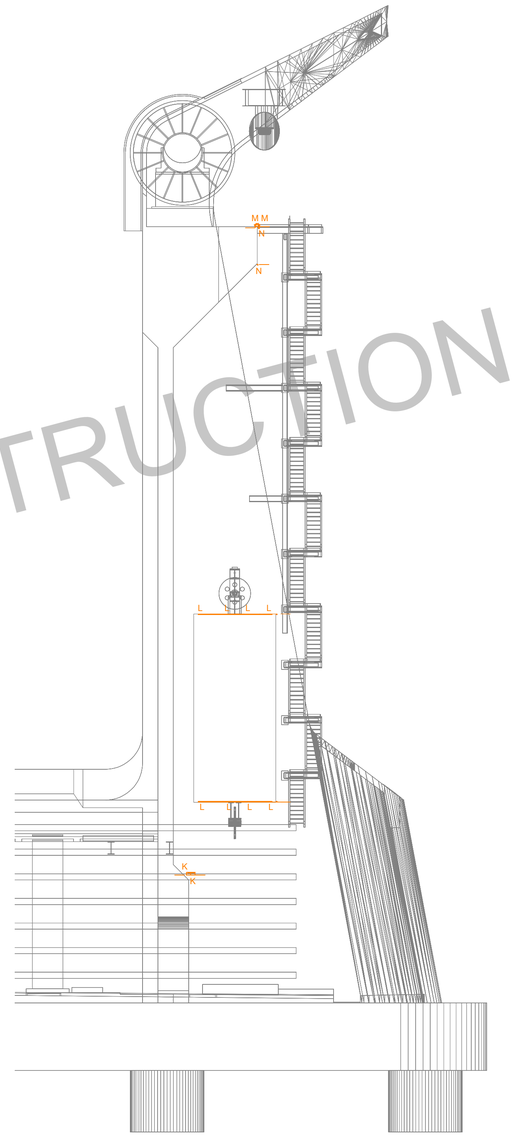
GENERAL NOTES

REFER TO WIRING DIAGRAM ON SHEETS EL0.5 AND EL0.6 FOR TOWER LIGHTING. REFER TO SHEET EL5.2 FOR MOUNTING DETAILS.



PLAN VIEW

FRONT ELEVATION



SIDE ELEVATION

PRELIMINARY - NOT FOR CONSTRUCTION
NOT FOR QUOTING PURPOSES

Note: Unless otherwise specified - the lamp lumen depreciation (LLD) for legacy sources used in these calculations is based on published mean lumen ratings by major lamp manufacturers; 0.80 LLD for pulse start metal halide; 0.90 LLD for high pressure sodium; 0.95 LLD for linear T8 and T5 fluorescent; 0.86 LLD for compact fluorescent and induction; 0.88 LLD for Cosmo and Elite lamps. 0.94 LDD for all LED sources. Unless otherwise noted - 0.90 luminaire dirt depreciation (LDD) is commonly applied. In cases where appropriate - ballast factor (BF) is applied. Additional user defind factors (UDF) may be applied if necessary to represent luminaire performance to a higher degree of accuracy. Total light loss factor (LLF) is the product of all multiplied loss factors.

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1977 Freeth Lane
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916-786-3660
Stockton
1810 Chief Parkway
Lodi, CA 95240
209-334-0400
Fresno
2125 North Gram
Fresno, CA 93727
559-453-0344
San Diego
9373 Station Diamond Pkwy
Ste C, Email
San Diego, CA 92123
858-694-1500
Tri-State
Tri-State, AR
888-694-1500

PHOTOMETRIC DATA USED AS INPUT FOR THESE CALCULATIONS IS ACCURATE TO WITHIN +/- 5% AND WAS MEASURED IN ACCORDANCE WITH ANSI/IES LM-79-19. FIELD PERFORMANCE WILL DEPEND ON ACTUAL LUMINAIRE QUALITY, INSTALLATION, AND ENVIRONMENTAL CONDITIONS.

Calculations have been performed according to IESNA standards and good practice. Lighting Analysts, Inc. assumes no responsibility for the accuracy of the data supplied for these calculations. Actual performance of any manufacturer's luminaires may deviate from these calculations due to variations in installation methods, testing procedures, component performance, maintenance practices, and other conditions beyond the control of Lighting Analysts, Inc. These calculations are based on the luminaire data supplied and the layout of luminaires, poles and walls as specified by the customer. Lighting Analysts, Inc. does not guarantee that the actual illumination will conform to the calculations unless we are specifically employed to design, supply, and/or install the lighting system. Field measurements may vary due to normal tolerances in lamps and instruments, variations in voltage, and the influence of light sources not included in the calculations. Differences will occur between measured values and calculated values.

AGI 32 | 2024 LIGHTING ANALYSTS, INC. | From REVALUE SOFTWARE
4905 BAYMEADOWS WAY WEST, SUITE 200, JACKSONVILLE, FL 32256

Lighting Analysts
ILLUMINATING ENGINEERING SOFTWARE

REPORT FOR:
BRANDEN RHODES
M. NEILS ENGINEERING

SALES REPRESENTATIVE:
TRACI GODBEY
ASSOCIATED LIGHTING REPRESENTATIVES, INC.

PREPARED BY:
GREG KESZLER
ASSOCIATED LIGHTING REPRESENTATIVES, INC.

PROJECT DESCRIPTION:
I Street - Tower Building and Bridge

DRAWING NO. / PART OF:
I Street - Tower Building and Bridge - GOD -3

REV	SHEET	DATE	SCALE
0	1 OF 1	8/20/25	AS NOTED

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Sacramento, CA 95825-8217
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PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

REGISTERED PROFESSIONAL ENGINEER
VETTE J. VAN ZANTEN
No. E15483
Exp. 6/30/27
ELECTRICAL
STATE OF CALIFORNIA
11/03/2025

EL2.2.3

UNAUTHORIZED CHANGES & USES:
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BENCH MARK ELEV. _____

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CITY OF SACRAMENTO
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DRAWN BY: MNE
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R.C.E. _____ DATE _____

MARK THOMAS

UNDER THE SUPERVISION OF:
ZACH SIVIGLIA

R.C.E. 73128
EXP. 12-31-22

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
ENLARGED BRIDGE - TYPICAL TOWER
ELEVATIONS - LIGHTING

T15136000

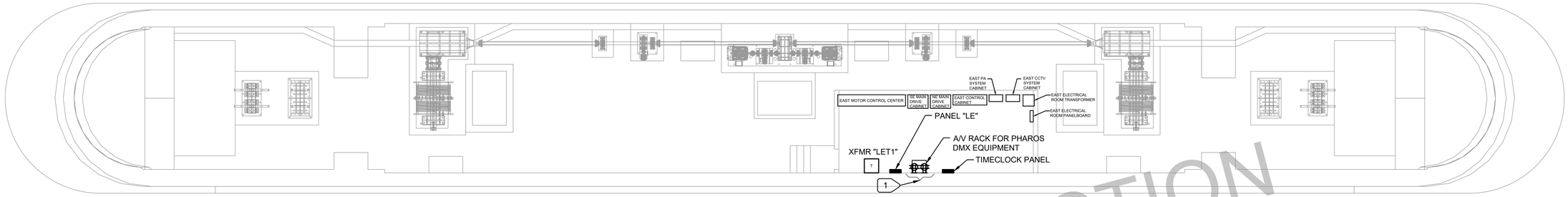
SHEET
197
— OF —
648

GENERAL NOTES

1. EAST AND WEST ELECTRICAL ROOM LIGHTING EQUIPMENT LAYOUT SHALL MATCH. REFER TO BRIDGE ENGINEER DRAWINGS FOR ADDITIONAL ELECTRICAL ROOM INFORMATION AND EXACT FLOOR PLANS.

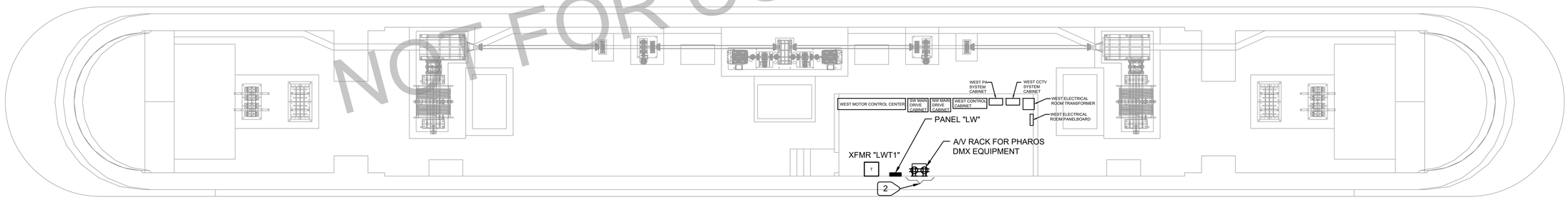
NUMBERED NOTES

1. PROVIDE DEDICATED 20A CIRCUIT FOR A/V RACK RECEPTACLES FROM EAST ELECTRICAL ROOM PANELBOARD, 0.72kVA LOAD. COORDINATE WITH BRIDGE ENGINEER PRIOR TO INSTALLATION.
2. PROVIDE DEDICATED 20A CIRCUIT FOR A/V RACK RECEPTACLES FROM WEST ELECTRICAL ROOM PANELBOARD, 0.72KVA LOAD. COORDINATE WITH BRIDGE ENGINEER PRIOR TO INSTALLATION.



1 / EL2.3.1 EAST MACHINERY AND ELECTRICAL ROOM

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



2 / EL2.3.1 WEST MACHINERY AND ELECTRICAL ROOM

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

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11/03/2025

PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

EL2.3.1

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CHECKED BY:
R.C.E. ____ DATE

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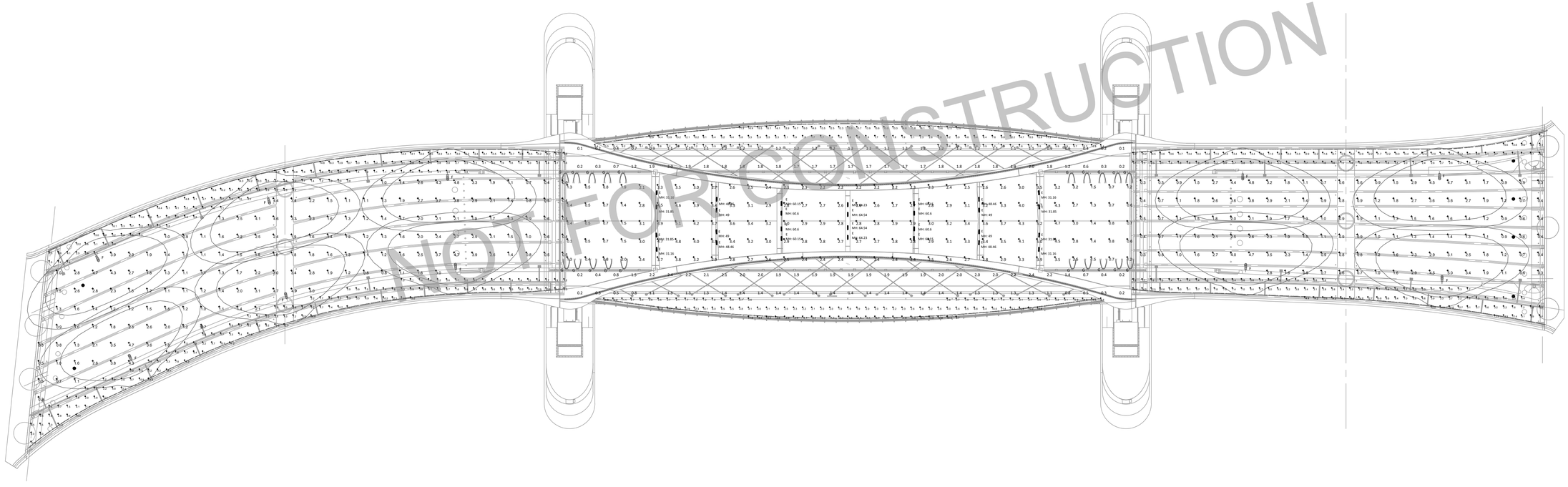
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER ENLARGED BRIDGE - MACHINERY AND ELECTRICAL ROOMS

T15136000

SHEET 198 — OF — 648

Calculation Summary							
Scenario: GENERAL							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ROADWAY	Illuminance	Fc	1.79	5.0	0.3	5.97	16.67
ROADWAY BRIDGE	Illuminance	Fc	0.10	1.3	0.0	N.A.	N.A.
WALKWAY	Illuminance	Fc	5.74	16.6	0.4	14.35	41.50
WALKWAY LIFT SECTION	Illuminance	Fc	7.16	16.1	0.5	14.32	32.20



1 / EL3.1 PHOTOMETRICS - BRIDGE

SCALE : 1" = 30'-0"

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PROJECT #: 24015.21
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11/03/2025

EL3.1

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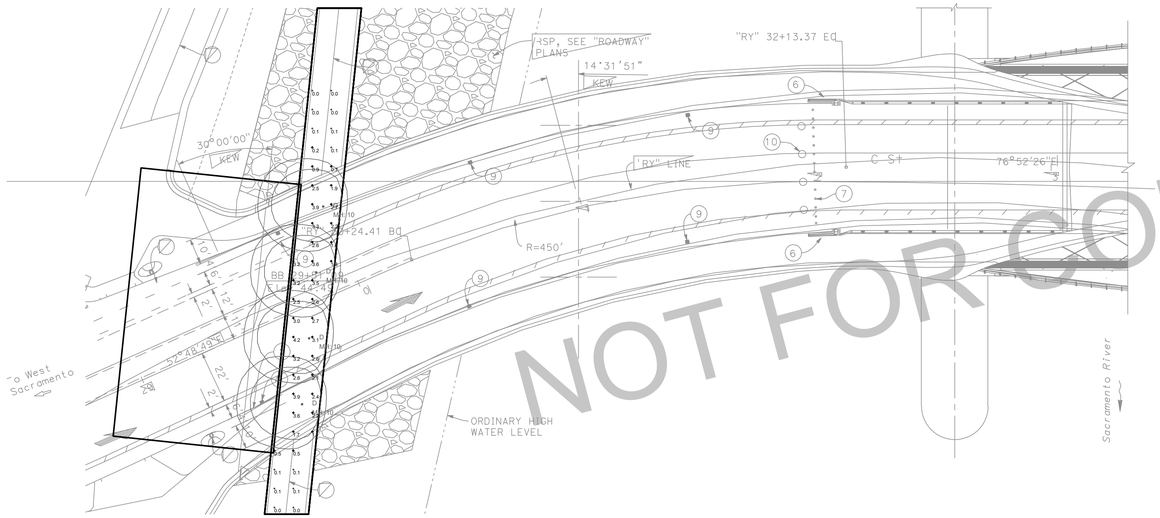
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

PHOTOMETRICS - BRIDGE

T15136000

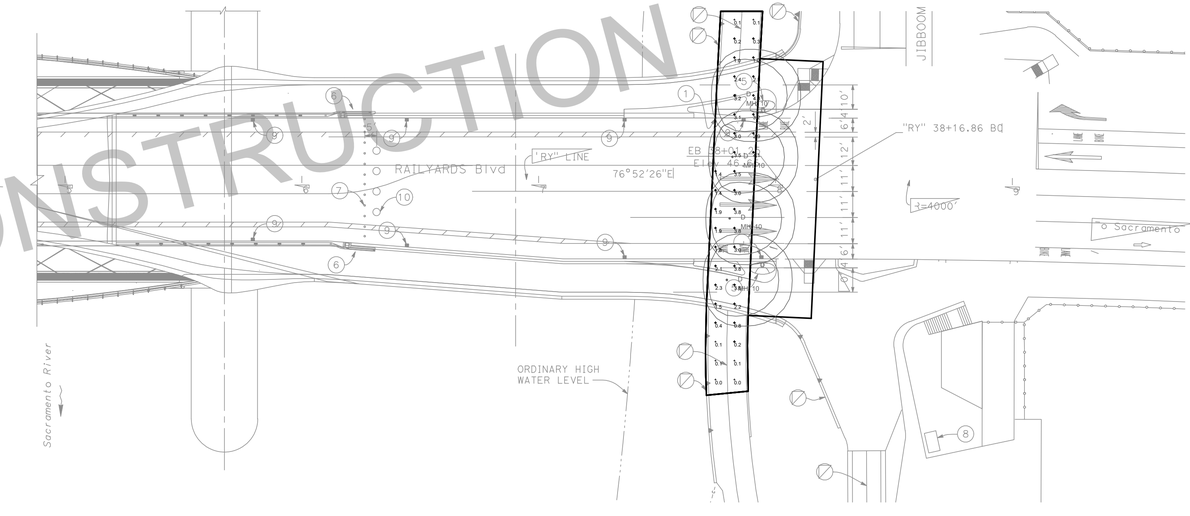
SHEET 199 — OF — 648

Calculation Summary							
Scenario: GENERAL							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
EAST BIKE PATH	Illuminance	Fc	1.95	4.3	0.0	N.A.	N.A.
WEST BIKE PATH	Illuminance	Fc	1.77	4.2	0.0	N.A.	N.A.



1 EL3.2 PHOTOMETRICS - WEST BIKE PATH

SCALE : 1/16" = 1'-0"



2 EL3.2 PHOTOMETRICS -EAST BIKE PATH

SCALE : 1/16" = 1'-0"

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PROJECT MGR: Stuart Lindsay

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11/03/2025

EL3.2

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CITY OF SACRAMENTO
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CHECKED BY: _____ R.C.E. ____ DATE _____

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-22

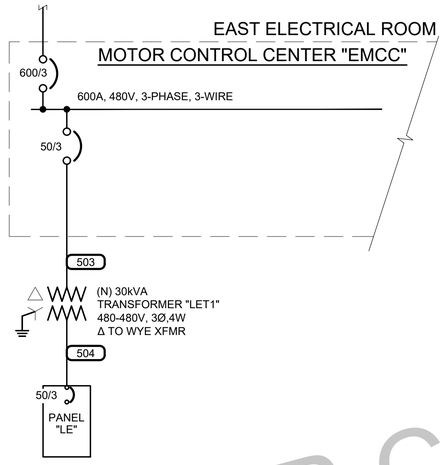
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

PHOTOMETRICS - BIKE PATHS

T15136000

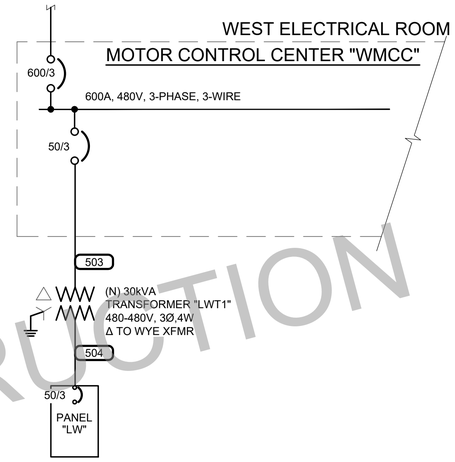
SHEET 200 OF 648

FEEDER SCHEDULE	
TAG (###)	DESCRIPTION
503	1" C., 3 #6, AND 1 #10 GND.
504	1" C., 4 #6, AND 1 #10 GND.



1 EL4.1 PARTIAL ONE-LINE POWER DIAGRAM - EAST

NO SCALE



2 EL4.1 PARTIAL ONE-LINE POWER DIAGRAM - WEST

NO SCALE

NOT FOR CONSTRUCTION

UNAUTHORIZED CHANGES & USES:
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ENGINEERING, INC.
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100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400

PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

REGISTERED PROFESSIONAL ENGINEER
VETTE J. VAN ZANTEN
No. E15483
Exp. 6/30/27
ELECTRICAL
STATE OF CALIFORNIA
11/03/2025

EL4.1

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: MNE DATE _____
DESIGNED BY: S. LINDSAY R.C.E. ____ DATE _____
CHECKED BY: _____ R.C.E. ____ DATE _____

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

ONE LINE DIAGRAM

T15136000

SHEET 201 — OF — 648

UNAUTHORIZED CHANGES & USES:
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NEW PANEL "LW" SCHEDULE

POWER SOURCE: MOTOR CONTROL CENTER "WMCC" — LOCATION: WEST ELECTRICAL ROOM
SYSTEM: NORMAL BRANCH

TYPE:	BUS: 100 AMPS	MAIN BKR: 50A	VOLTAGE: 480Y/277 VOLT, 3 PHASE, 4 WIRES	MOUNTING: SURFACE PANEL TYPE NEMA 1	REMARKS:

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
LT N.W. ARCH	0.9	20/1	1	A	2	20/1	0.9	LT S.W. ARCH
LT HANDRAIL N.W. LIFT	0.5	20/1	3	B	4	20/1	0.5	LT HANDRAIL S.W. LIFT
LT N.W. APPROACH	1.4	20/1	5	C	6	20/1	1.6	LT S.W. APPROACH
LT N.W. HANDRAIL	1.6	20/1	7	A	8	20/1	1.7	LT S.W. HANDRAIL
LT W. ROADWAY	0.1	20/1	9	B	10	20/1		SPARE
LT W. APPROACH POLE	1.1	20/1	11	C	12	20/1	0.1	LT W. BIKE PATH
LT N.W. TOWER	1.3	20/1	13	A	14	20/1	1.2	LT S.W. TOWER
LT N.W. TOWER	0.4	20/1	15	B	16	20/1	0.4	LT S.W. TOWER
LT N.W. TOWER	0.6	20/1	17	C	18	20/1	0.6	LT S.W. TOWER
SPARE		20/1	19	A	20	20/1		SPARE
SPARE		20/1	21	B	22	20/1		SPARE
SPARE		20/1	23	C	24	20/1		SPARE
SPARE		20/1	25	A	26	20/1		SPARE
SPARE		20/1	27	B	28	20/1		SPARE
SPARE		20/1	29	C	30	20/1		SPARE
			31	A	32			
SPACE		PFB	33	B	34	PFB		SPACE
			35	C	36			
SPACE		PFB	37	A	38			TVSS SPD
SPACE		PFB	39	B	40	30/3		[120] [160] [200] kA PER
SPARE GFCI		20/1 [1]	41	C	42			PHASE

NOTES:
[1] GFCI BREAKER

CONNECTED LOAD
PHASE A= 7.6 kVA
PHASE B= 1.8 kVA
PHASE C= 5.2 kVA
TOTAL = 14.7 kVA
TOTAL = 17.6 Amperes

			DESIGN LOAD
General purpose receptacles CEC 220.44	0.0 KVA		
First 10 kVA or less	0.0 @ 100% =	0.0 kVA	
Remainder over 10 kVA =	0.0 @ 50% =	0.0 kVA	
Lighting Loads =	14.7 @ 125% =	18.3 kVA	
Motor Loads	0.0 @ 100% =	0.0 kVA	
Largest Motor =	0.0 @ 25% =	0.0 kVA	TOTAL = 18.3 kVA
Continuous Loads =	0.0 @ 125% =	0.0 kVA	TOTAL = 22.0 Amperes
Kitchen Loads CEC 220.56=	0.0 @ 100% =	0.0 kVA	
Noncontinuous Loads =	0.0 @ 100% =	0.0 kVA	
Noncoincident Loads =	0.0 @ 0% =	0.0 kVA	

NEW PANEL "LE" SCHEDULE

POWER SOURCE: MOTOR CONTROL CENTER "EMCC" — LOCATION: EAST ELECTRICAL ROOM
SYSTEM: NORMAL BRANCH

TYPE:	BUS: 100 AMPS	MAIN BKR: 50A	VOLTAGE: 480Y/277 VOLT, 3 PHASE, 4 WIRES	MOUNTING: SURFACE PANEL TYPE NEMA 1	REMARKS:

LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
LT N.E. ARCH	0.9	20/1	1	A	2	20/1	0.9	LT S.E. ARCH
LT HANDRAIL N.E. LIFT	0.5	20/1	3	B	4	20/1	0.5	LT HANDRAIL S.E. LIFT
LT N.E. APPROACH	1.1	20/1	5	C	6	20/1	1.1	LT S.E. APPROACH
LT N.E. HANDRAIL	1.0	20/1	7	A	8	20/1	1.0	LT S.E. HANDRAIL
LT E. ROADWAY	0.1	20/1	9	B	10	20/1		SPARE
LT E. APPROACH POLE	0.7	20/1	11	C	12	20/1	0.1	LT E. BIKE PATH
LT N.E. TOWER	1.2	20/1	13	A	14	20/1	1.2	LT S.E. TOWER
LT N.E. TOWER	0.4	20/1	15	B	16	20/1	0.4	LT S.E. TOWER
LT N.E. TOWER	0.6	20/1	17	C	18	20/1	0.6	LT S.E. TOWER
SPARE		20/1	19	A	20	20/1		SPARE
SPARE		20/1	21	B	22	20/1		SPARE
SPARE		20/1	23	C	24	20/1		SPARE
SPARE		20/1	25	A	26	20/1		SPARE
SPARE		20/1	27	B	28	20/1		SPARE
SPARE		20/1	29	C	30	20/1		SPARE
			31	A	32			
SPACE		PFB	33	B	34	PFB		SPACE
			35	C	36			
SPACE		PFB	37	A	38			TVSS SPD
SPACE		PFB	39	B	40	30/3		[120] [160] [200] kA PER
SPARE GFCI		20/1 [1]	41	C	42			PHASE

NOTES:
[1] GFCI BREAKER

CONNECTED LOAD
PHASE A= 6.1 kVA
PHASE B= 1.8 kVA
PHASE C= 4.2 kVA
TOTAL = 12.1 kVA
TOTAL = 14.5 Amperes

			DESIGN LOAD
General purpose receptacles CEC 220.44	0.0 KVA		
First 10 kVA or less	0.0 @ 100% =	0.0 kVA	
Remainder over 10 kVA =	0.0 @ 50% =	0.0 kVA	
Lighting Loads =	12.1 @ 125% =	15.1 kVA	
Motor Loads	0.0 @ 100% =	0.0 kVA	
Largest Motor =	0.0 @ 25% =	0.0 kVA	TOTAL = 15.1 kVA
Continuous Loads =	0.0 @ 125% =	0.0 kVA	TOTAL = 18.2 Amperes
Kitchen Loads CEC 220.56=	0.0 @ 100% =	0.0 kVA	
Noncontinuous Loads =	0.0 @ 100% =	0.0 kVA	
Noncoincident Loads =	0.0 @ 0% =	0.0 kVA	

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www.mneilsengineering.com
Tel: (916) 923-4400
PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

REGISTERED PROFESSIONAL ENGINEER — VETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/27 — ELECTRICAL — STATE OF CALIFORNIA
11/03/2025

EL4.2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____
FIELD BOOK
SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS
DRAWN BY: MNE — DESIGNED BY: S. LINDSAY — CHECKED BY: _____
DATE _____ — R.C.E. ____ DATE _____ — R.C.E. ____ DATE _____

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128
EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

PANEL SCHEDULES

T15136000

SHEET 202 — OF — 648

UNAUTHORIZED CHANGES & USES:
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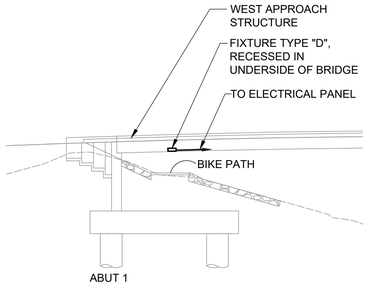
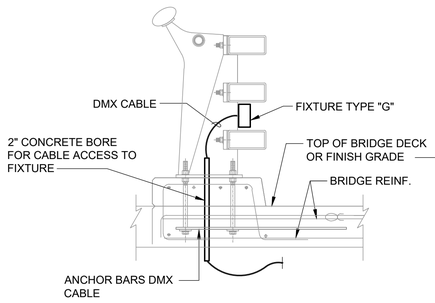


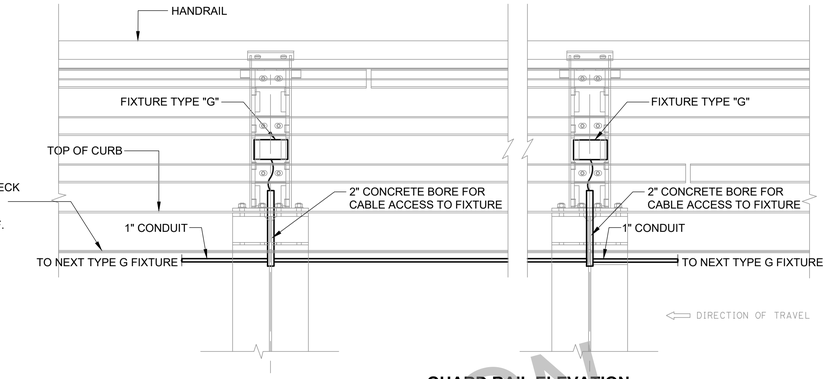
WEST APPROACH ELEVATION

1 EL5.1 FIXTURE TYPE "D" MOUNTING DETAIL

NO SCALE



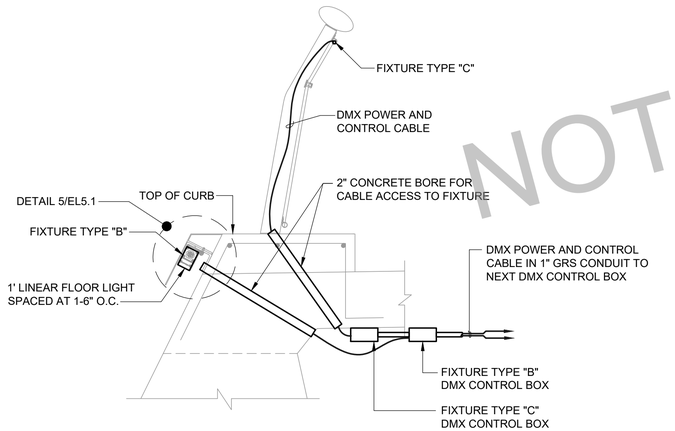
GUARD RAIL SECTION



GUARD RAIL ELEVATION

2 EL5.1 FIXTURE TYPE "G" MOUNTING DETAIL

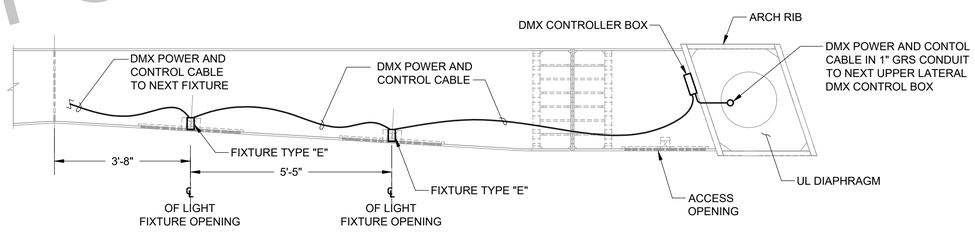
NO SCALE



TYPICAL RAILING SECTION

3 EL5.1 FIXTURES TYPE "B" AND TYPE "C" MOUNTING DETAIL

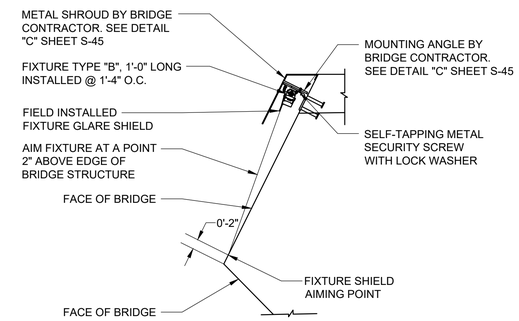
NO SCALE



ELEVATION - UPPER LATERAL UL4

4 EL5.1 FIXTURE TYPE "E" MOUNTING DETAIL

NO SCALE



5 EL5.1 FIXTURE TYPE "B" MOUNTING DETAIL

NO SCALE

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REGISTERED PROFESSIONAL ENGINEER — YVETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/27 — ELECTRICAL — STATE OF CALIFORNIA

11/03/2025

PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

EL5.1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

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HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: MNE DATE _____
DESIGNED BY: S. LINDSAY R.C.E. _____ DATE _____
CHECKED BY: _____ R.C.E. _____ DATE _____

MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LIGHTING DETAILS

T15136000

SHEET 203 — OF — 648

UNAUTHORIZED CHANGES & USES:
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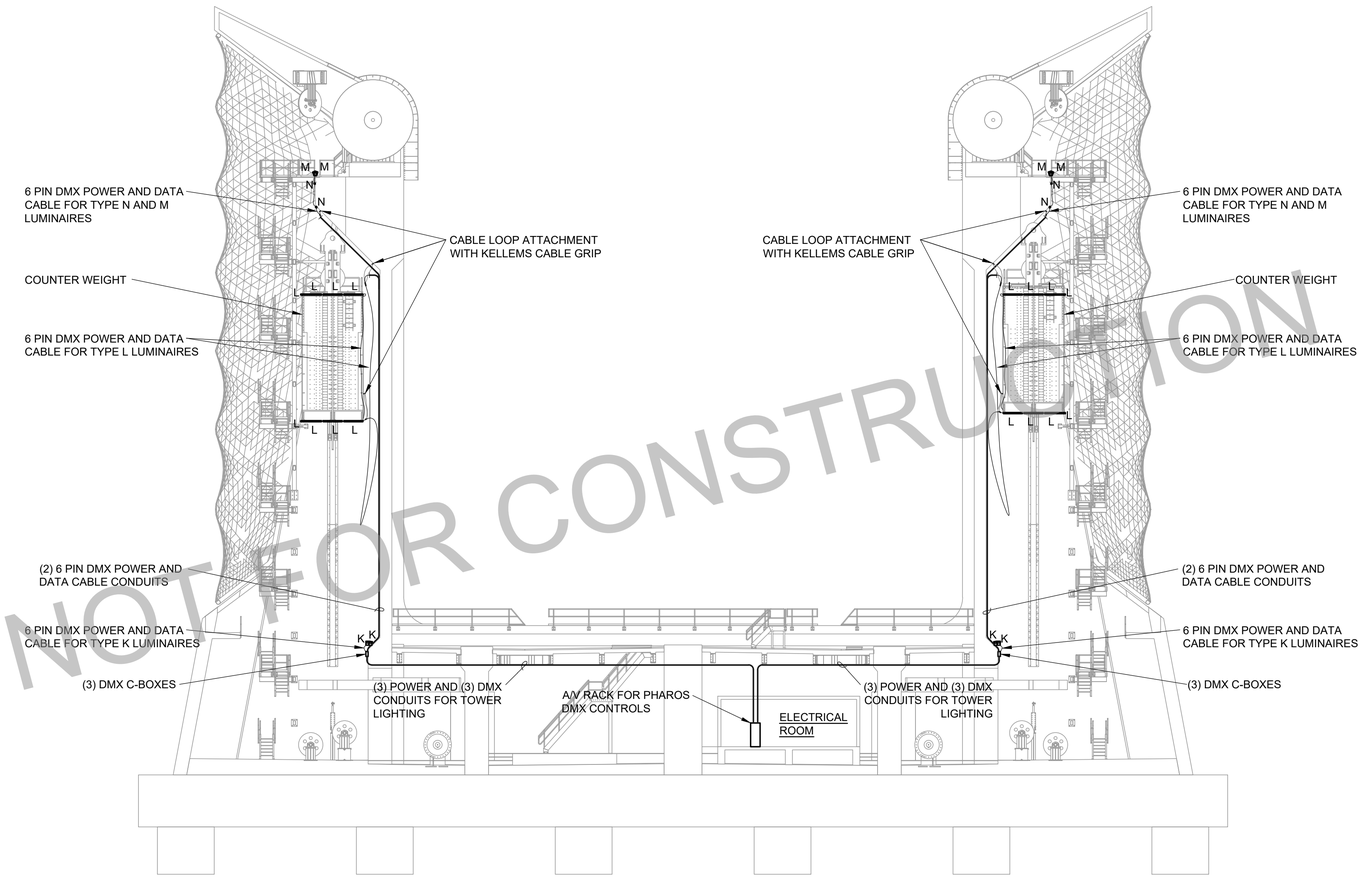

NOT FOR CONSTRUCTION

REFER TO WIRING DIAGRAMS ON SHEETS EL0.5 AND EL0.6 FOR EXACT MODELS, QUANTITIES, AND CONNECTIONS. REFER TO SHEET EL2.2.4 ELEVATIONS FOR EXACT FIXTURE LOCATIONS.

1 / EL5.2 TOWER LIGHTING CONDUIT DETAIL

NO SCALE

M. NEILS ENGINEERING, INC.
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Sacramento, CA 95825-8217
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REGISTERED PROFESSIONAL ENGINEER — VETTE J. VAN ZANTEN — No. E15483 Exp. 6/30/27 — ELECTRICAL — STATE OF CALIFORNIA
11/03/2025

EL5.2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

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HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LIGHTING DETAILS

T15136000

SHEET 204 — OF — 648

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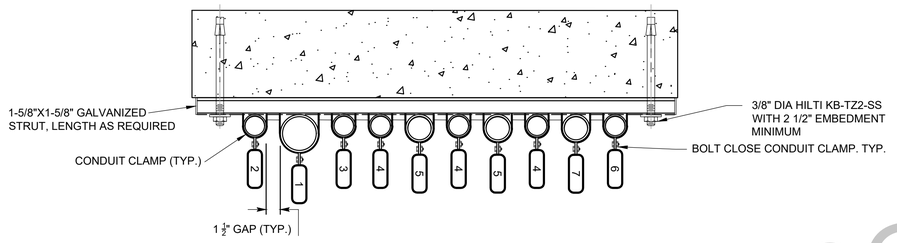
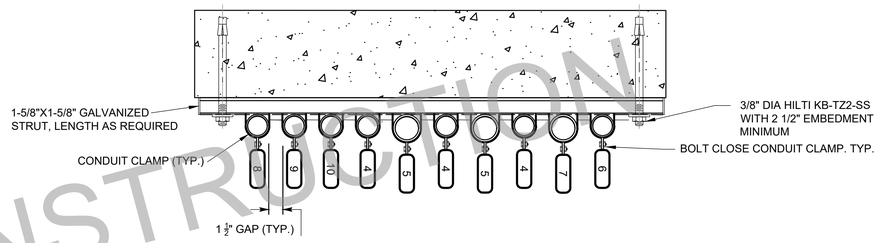
CONDUIT SCHEDULE

TAG (###)	DESCRIPTION
1	4" C., P01 (SE) MAIN FEEDER FROM OPERATOR HOUSE TO MAIN PIER
2	1 1/2" C., P34A (SE) PEDESTRIAN AND WARNING GATES & EAST BARRIER BOLLARDS POWER
3	1 1/2" C., C10 (SE) PEDESTRIAN AND WARNING GATES & EAST BARRIER BOLLARDS CONTROL
4	1 1/2" C., 3 #10, AND 1 #10 GND FOR LTG.
5	2" C., FOR LTG DMX CONTROLS
6	1 1/2" C., SPARE
7	2" C., SPARE
8	1 1/2" C., P35A (NE) PEDESTRIAN AND WARNING GATES POWER
9	1 1/2" C., C11 (NE) PEDESTRIAN AND WARNING GATES CONTROL
10	1 1/2" C., C05 (NE) FIBER
11	1 1/2" C., P46A (SW) PEDESTRIAN AND WARNING GATES POWER
12	1 1/2" C., C46 (SW) PEDESTRIAN AND WARNING GATES CONTROL
13	1 1/2" C., P45A (NW) PEDESTRIAN AND WARNING GATES & WEST BARRIER BOLLARDS POWER
14	1 1/2" C., C32 (NW) PEDESTRIAN AND WARNING GATES & WEST BARRIER BOLLARDS CONTROLS
15	3/4" C., P76 (NW) WEST APPROACH BRIDGE TRAFFIC SIGNAL(S)



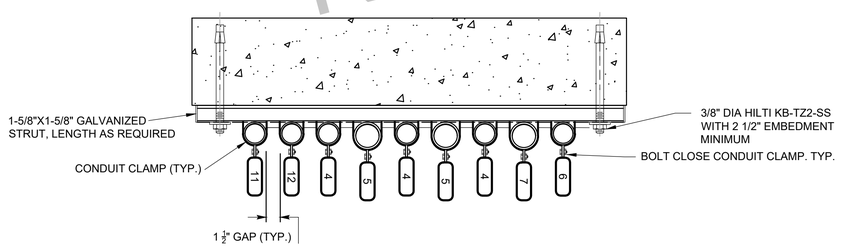
1 EL5.3 SOUTH EAST APPROACH - CONDUIT MOUNTING DETAIL TO CONCRETE STRUCTURE

SCALE : NO SCALE



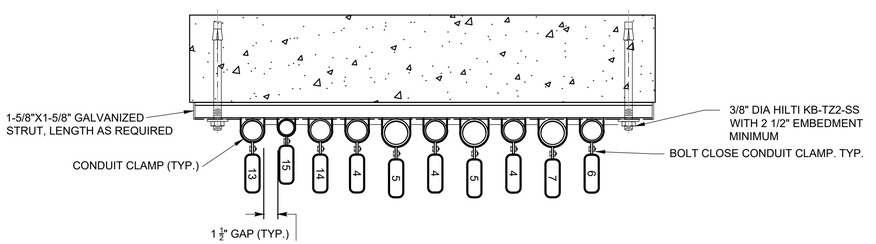
2 EL5.3 NORTH EAST APPROACH - CONDUIT MOUNTING DETAIL TO CONCRETE STRUCTURE

SCALE : NO SCALE



3 EL5.3 SOUTH WEST APPROACH - CONDUIT MOUNTING DETAIL TO CONCRETE STRUCTURE

SCALE : NO SCALE



4 EL5.3 NORTH WEST APPROACH - CONDUIT MOUNTING DETAIL TO CONCRETE STRUCTURE

SCALE : NO SCALE

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ELECTRICAL
STATE OF CALIFORNIA

11/03/2025

PROJECT #: 24015.21
PROJECT MGR: Stuart Lindsay

EL5.3

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: MNE DATE _____
DESIGNED BY: S. LINDSAY R.C.E. ____ DATE _____
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MARK THOMAS
UNDER THE SUPERVISION OF: ZACH SIVIGLIA
R.C.E. 73128 EXP. 12-31-22

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

LIGHTING DETAILS

T15136000

SHEET 205 — OF — 648

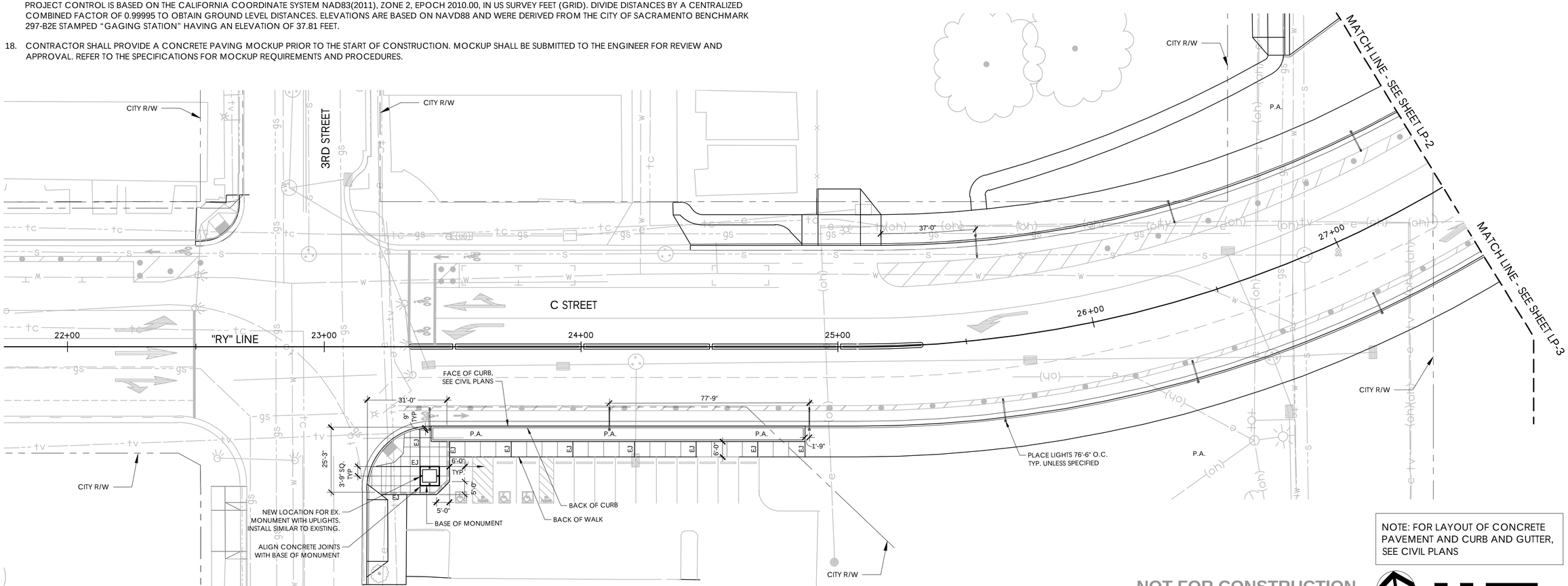
SITE LAYOUT NOTES

1. CONTRACTOR SHALL VERIFY ALL UTILITIES, GRADES, EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. ALL DISCREPANCIES OR QUESTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY'S REPRESENTATIVE.
2. ALL WRITTEN DIMENSIONS SUPERSEDE ALL SCALED DISTANCES AND DIMENSIONS. DIMENSIONS SHOWN ARE FROM THE FACE OF BUILDING, BACK OF CURB, EDGE OF WALK, PROPERTY LINE, OR CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. ALL DIMENSIONS AT BUILDING ARE TO FACE OF BUILDING. ALL DIMENSIONS AT ROADWAY ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL CURVES AND ALL TRANSITIONS BETWEEN CURVES AND STRAIGHT EDGES SHALL BE SMOOTH.
5. ALL RETURN RADII AND CURB DATA ARE TO FACE OF CURB.
6. SCORE LINES IN CONCRETE BAND SHALL MATCH EXISTING AND NEW CURB JOINT LOCATIONS, AND EXPANSION JOINTS SHALL BE PLACED PER CIVIL PLANS AND CITY STANDARD SIDEWALK DETAIL, UNLESS OTHERWISE SHOWN.
7. LOCATION OF SIDEWALK, CURB AND GUTTER, GRADING AND DRAINAGE IS BASED ON DRAWINGS PREPARED BY THE CIVIL ENGINEER.
8. SEE IRRIGATION DRAWINGS FOR GENERAL SYSTEM REQUIREMENTS AND FOR LOCATION OF IRRIGATION MAINLINE PIPING, SLEEVES TO ACCOMMODATE IRRIGATION PIPING, SIZED AS NEEDED, SHALL BE IN PLACED UNDER AND THROUGH SLABS AND WALLS, PRIOR TO POURING.
9. ALL CONCRETE PAVEMENTS SHALL BE DOWELED INTO CURBS, SEE DETAILS AND CIVIL PLANS.
10. ANY AND ALL WORK WITHIN CITY RIGHT OF WAY SHALL CONFORM TO ALL CITY STANDARD DETAILS AND SPECIFICATIONS.
11. ALL EXISTING ITEMS TO REMAIN SHALL BE PROTECTED AS REQUIRED. ANY DAMAGED ITEMS SHALL BE FULLY REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE FULL SATISFACTION OF THE CITY.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
13. ALL PATTERNS, LINE TYPES, AND SYMBOLS SHOWN WITHIN THE PLAN SET REFERENCE THE LAYOUT LEGEND AND ARE PART OF THE SCOPE OF WORK. CALLOUTS ARE SHOWN FOR CLARIFICATION OF WORK, BUT DO NOT INDICATE ALL INSTANCES OF SUCH WORK. THE CONTRACTOR SHALL REQUEST CLARIFICATION TO ANY ITEMS (INCLUDING BUT NOT LIMITED TO PAVING, FINISHES, AND COLORS) NOT CLEARLY IDENTIFIED TO BE PART OF THE SCOPE OF WORK PRIOR TO BID.
14. SEE CIVIL ENGINEERING PLANS FOR INFORMATION ON SITE DEMOLITION, TREE REMOVAL, GRADING, UTILITIES, DRAINAGE & LIGHTING INFORMATION.
15. CONFORM ALL PAVING TO EXISTING CONDITIONS. SEE CIVIL PLANS.
16. SEE CIVIL PLANS FOR INVENTORY OF EXISTING UTILITIES TO DEMO. ALL OTHER UTILITIES PROTECT IN PLACE.
17. PROJECT CONTROL STATEMENT:
    PROJECT CONTROL IS BASED ON THE CALIFORNIA COORDINATE SYSTEM NAD83(2011), ZONE 2, EPOCH 2010.00, IN US SURVEY FEET (GRID). DIVIDE DISTANCES BY A CENTRALIZED COMBINED FACTOR OF 0.99995 TO OBTAIN GROUND LEVEL DISTANCES. ELEVATIONS ARE BASED ON NAVD88 AND WERE DERIVED FROM THE CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAVING AN ELEVATION OF 37.81 FEET.
18. CONTRACTOR SHALL PROVIDE A CONCRETE PAVING MOCKUP PRIOR TO THE START OF CONSTRUCTION. MOCKUP SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. REFER TO THE SPECIFICATIONS FOR MOCKUP REQUIREMENTS AND PROCEDURES.

SITE LAYOUT LEGEND

SYMBOL	DESCRIPTION
	CONCRETE PAVEMENT
	SCORE JOINT
	EXPANSION JOINT (5 / LD-2)
	SPECIALTY CONCRETE PAVEMENT, TYPE A, INTEGRAL COLOR PEBBLE 641 BY DAVIS COLOR, TOP CAST #15 FINISH
	SPECIALTY CONCRETE PAVEMENT, TYPE B, INTEGRAL COLOR PEBBLE 641 BY DAVIS COLOR, TOP CAST #3 FINISH
	STAMPED CONCRETE PATTERN ON CONCRETE BAND, RUNNING BOND GRANITE PATTERN, 6" X 6" SQ, WITH SEAL GRAY COLOR HARDENER, BY BOMANITE, OR APPROVED EQUAL. (3 / LD-2)
	TRAFFIC ARM STRUCTURE, SEE BRIDGE PLANS
	PEDESTRIAN RAILING, SEE STRUCTURE PLAN
	ORNAMENTAL METAL FENCE (2 / LD-1)
	ORNAMENTAL METAL RAILING (1 / LD-1)
I	INTERPRETIVE DISPLAY BOARD, SURFACE MOUNT, 24"X36", GRAPHICS TO BE PROVIDED BY THE CITY, SEE SPECS. FOR MODEL AND DETAILS.

SYMBOL	DESCRIPTION
	STREET LIGHT, SEE SITE LIGHTING PLAN FOR MODELS AND DETAILS
	DECORATIVE POST-TOP LUMINAIRE, SEE SITE LIGHTING PLAN FOR MODELS AND DETAILS
•R	REMOVABLE BOLLARD, LANDSCAPE FORMS, STOP BOLLARD, REMOVABLE, OR APPROVED EQUAL. POWDER-COATED SILVER METALLIC COLOR. SEE SPECS. (2 / LD-2)
	BENCH, LANDSCAPE FORMS, METRO40 BENCH WITH SIDE AND CENTER ARMREST, POWDER-COATED SILVER METALLIC COLOR (1 / LD-2)
	GROUTED RIVER ROCK SURFACE, SEE SPECS. (7 / LD-2)
	DECOMPOSED GRANITE , STABILIZED, SEE SPECS. (4 / LD-2)
	CURB RAMP, SEE CIVIL PLANS
P.A.	PLANTING AREA
TYP.	TYPICAL
EQ.	EQUAL SPACING



NOTE: FOR LAYOUT OF CONCRETE PAVEMENT AND CURB AND GUTTER, SEE CIVIL PLANS

NOT FOR CONSTRUCTION

0' 10' 20' 40'

LP-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025

DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025

CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

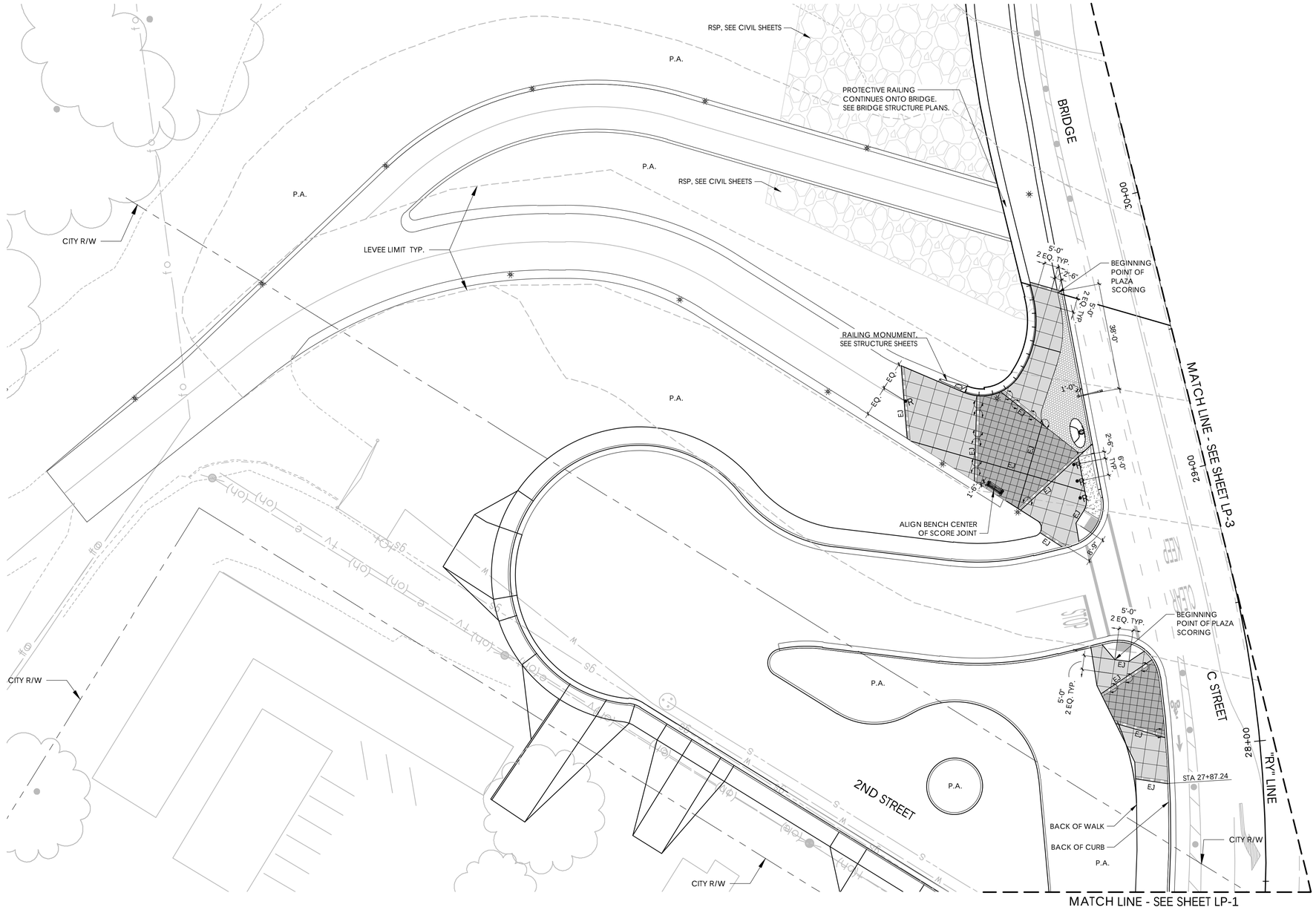
MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

SITE LAYOUT PLAN

T15136000

SHEET 206 — OF — 648



NOTE: FOR LAYOUT OF CONCRETE PAVEMENT AND CURB AND GUTTER, SEE CIVIL PLANS.

FOR NOTES AND LEGEND SEE SHEET LP-1

NOT FOR CONSTRUCTION

0' 10' 20' 40'

LP-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ DATE NOVEMBER 2025
CHECKED BY: E. SMITH R.L.A. 4585 DATE NOVEMBER 2025

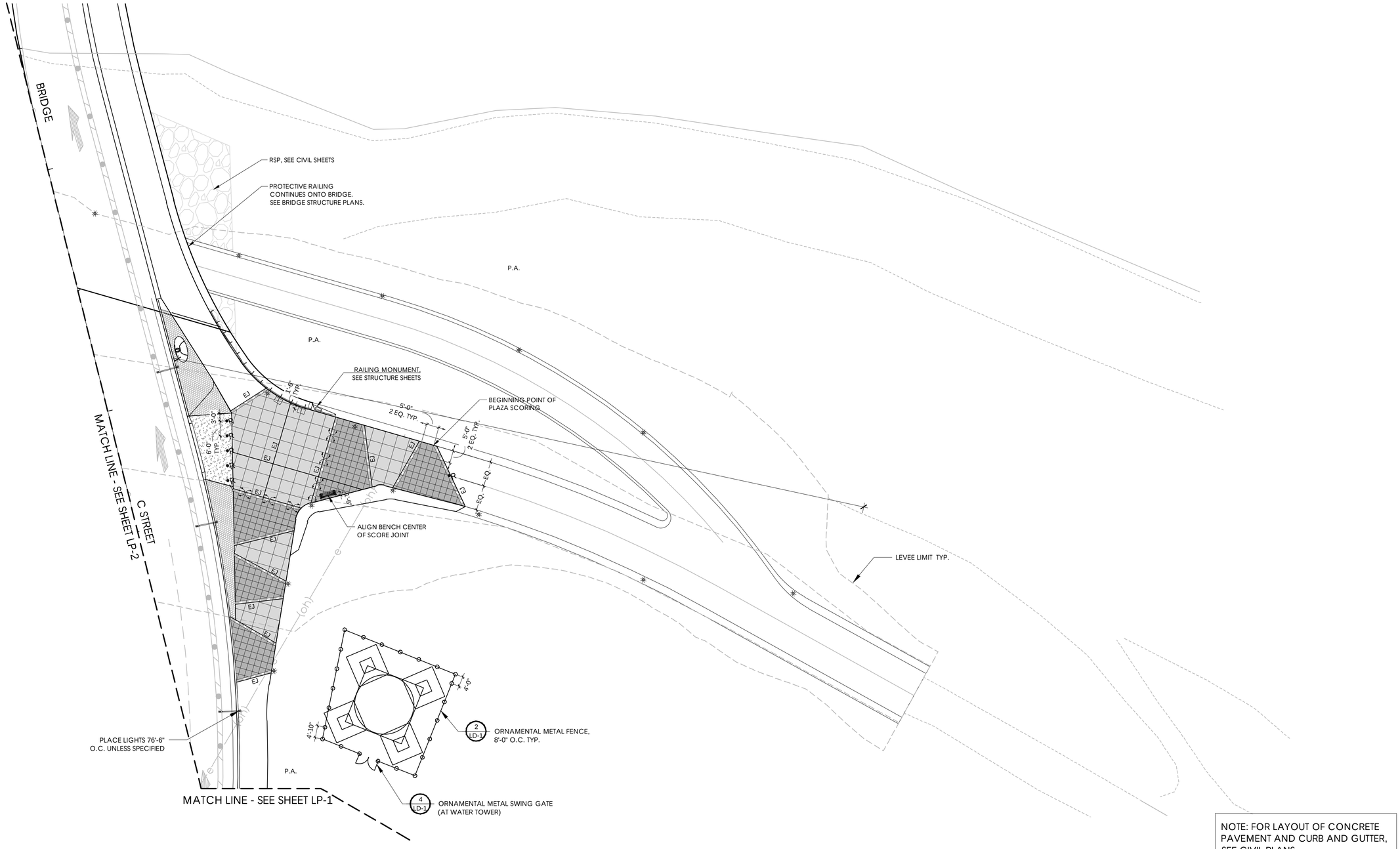
MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

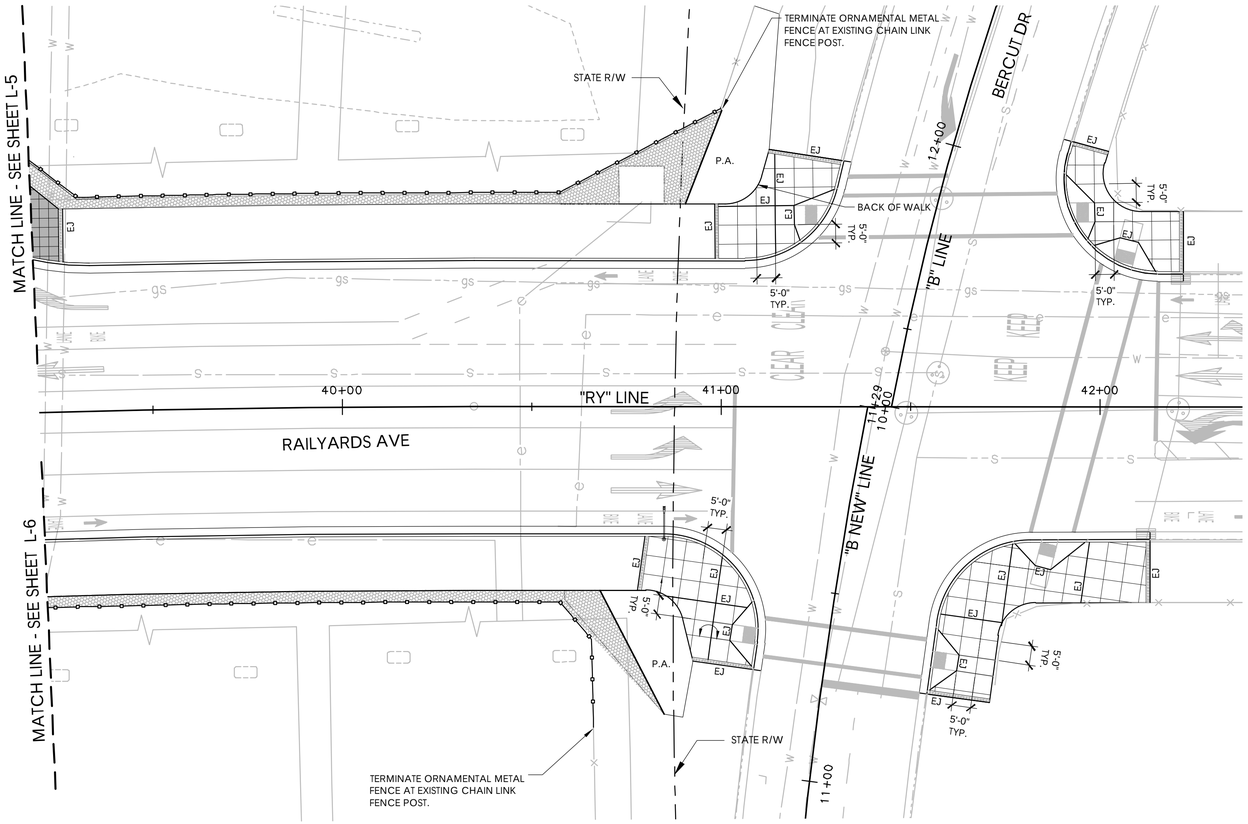
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

SITE LAYOUT PLAN

T15136000

SHEET 207 OF 648


BRIDGE
RSP, SEE CIVIL SHEETS
PROTECTIVE RAILING
CONTINUES ONTO BRIDGE.
SEE BRIDGE STRUCTURE PLANS.
P.A.
P.A.
RAILING MONUMENT,
SEE STRUCTURE SHEETS
BEGINNING POINT OF
PLAZA SCORING
5'-0"
2 EQ. TYP.
5'-0"
2 EQ. TYP.
EQ.
EQ.
EJ
EJ
EJ



NOTE: FOR LAYOUT OF CONCRETE PAVEMENT AND CURB AND GUTTER, SEE CIVIL PLANS

FOR NOTES AND LEGEND SEE SHEET LP-1

NOT FOR CONSTRUCTION

0' 10' 20' 40'

LP-4

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025

DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025

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R.L.A. 4585 DATE NOVEMBER 2025

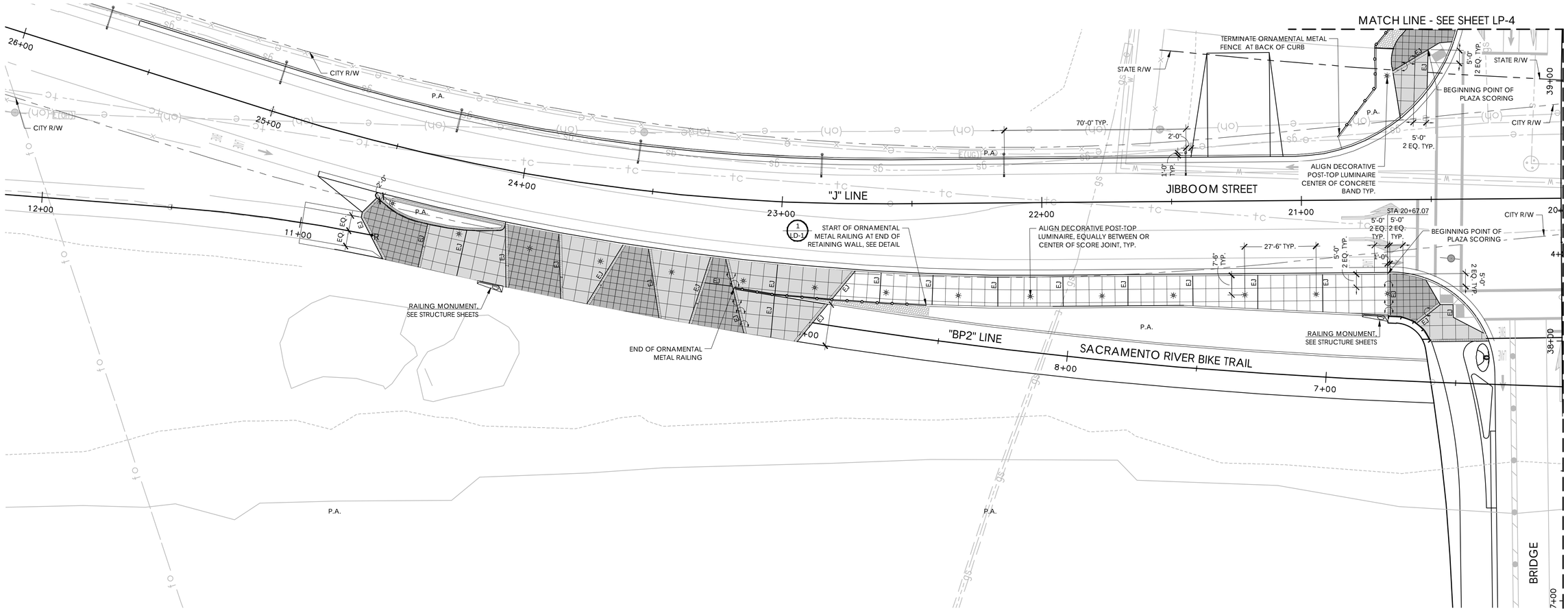
MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

SITE LAYOUT PLAN

T15136000

SHEET 209 OF 648



NOTE: FOR LAYOUT OF CONCRETE PAVEMENT AND CURB AND GUTTER, SEE CIVIL PLANS

FOR NOTES AND LEGEND SEE SHEET LP-1

NOT FOR CONSTRUCTION

0' 10' 20' 40'

LP-5

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025

DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025

CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

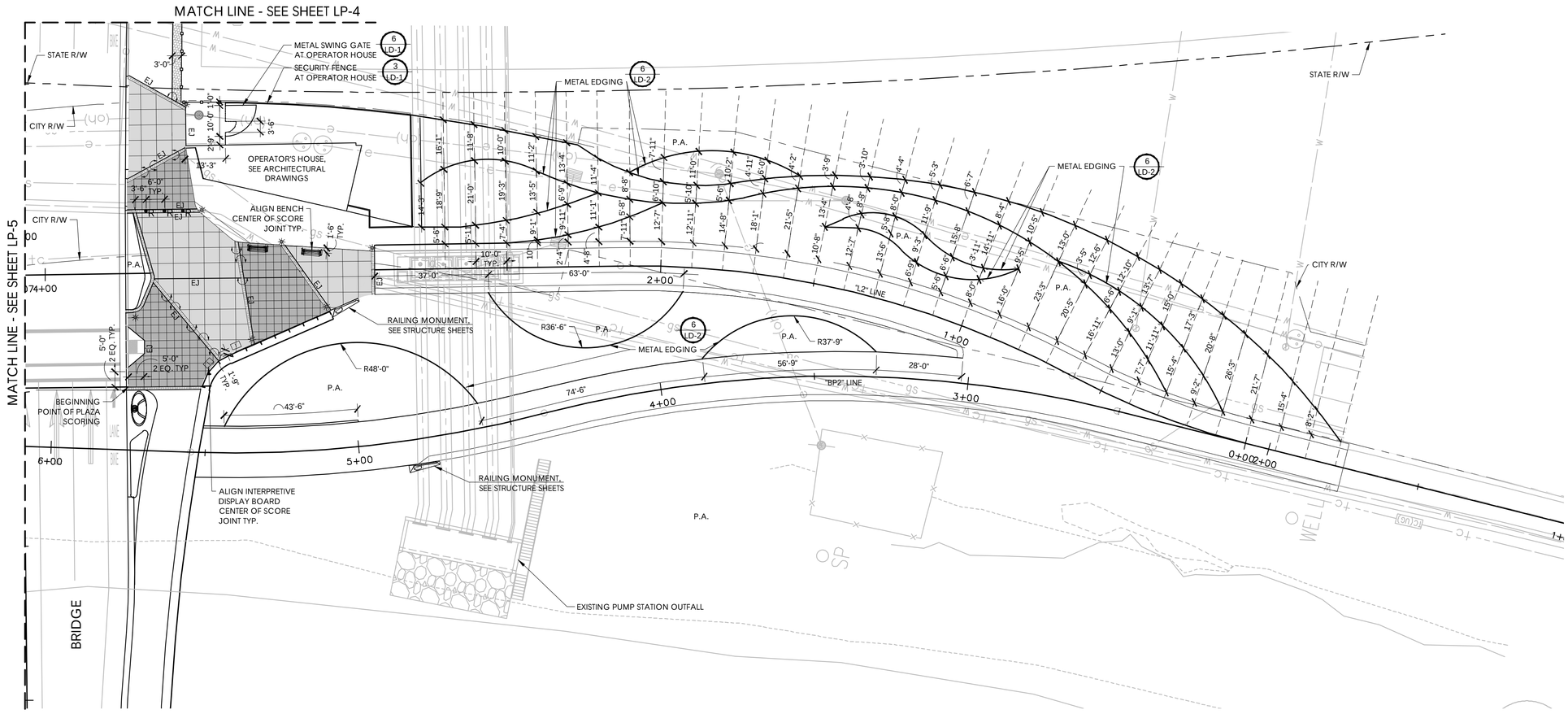
MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

SITE LAYOUT PLAN

T15136000

SHEET 210 — OF — 648



FOR NOTES AND LEGEND SEE SHEET LP-1

NOTE: FOR LAYOUT OF CONCRETE PAVEMENT AND CURB AND GUTTER, SEE CIVIL PLANS

NOT FOR CONSTRUCTION

0' 10' 20' 40'

LP-6

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ DATE NOVEMBER 2025
CHECKED BY: E. SMITH R.L.A. 4585 DATE NOVEMBER 2025

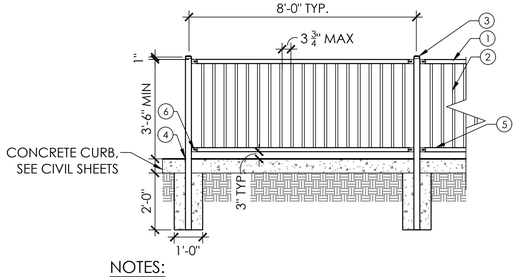
MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

SITE LAYOUT PLAN

T15136000

SHEET 211 OF 648



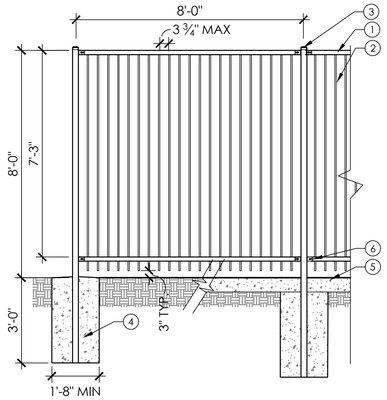
KEY:

1. TOP AND BOTTOM RAIL, 1 3/4" GALV. TUBULAR STEEL, HOLD RAIL LEVEL
2. PICKET, 1" SQ GALV. TUBULAR STEEL, 16 GA
3. POST, 2 1/2" SQ. GALV. TUBULAR STEEL, WITH CAP, 14 GA.
4. CONCRETE FOOTING, 1% SLOPE FROM THE CENTER
5. FINISH GRADE
6. FLAT MOUNT BRACKET

NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWING AND STAKING PLAN FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. MFR/MODEL: AMERISTAR, MONTAGE INDUSTRIAL-MAGESTIC, OR APPROVED EQUAL.
   MATERIAL: FULLY WELDED STEEL, PRE-GALVANIZED BOTH INTERNALLY AND EXTERNALLY.
   COLOR AND FINISH: DOUBLE-LAYER POWDER COATING IN BLACK COLOR.

1 / LD-1 ORNAMENTAL METAL RAILING — 0' 2' 4' 8' — 3/8" = 1'-0"



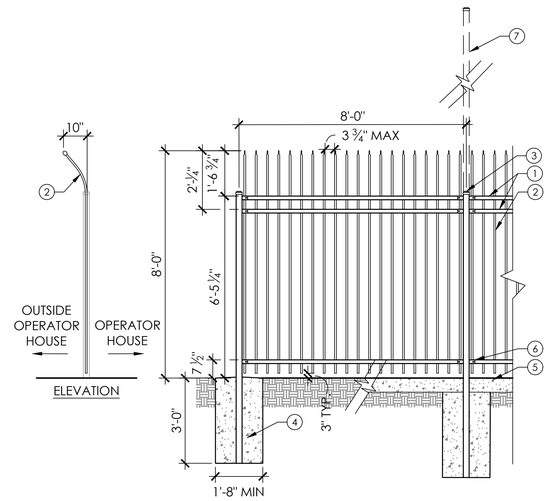
KEY:

1. TOP AND BOTTOM RAIL, 1-3/4" GALV. TUBULAR STEEL, HOLD RAIL LEVEL
2. PICKET, 1" SQ GALV. TUBULAR STEEL, 16 GA.
3. POST, 2-1/2" SQ. GALV. TUBULAR STEEL, WITH CAP, 12 GA.
4. CONCRETE FOOTING, 1% SLOPE FROM THE CENTER
5. FINISH GRADE, SEE PLANS FOR MATERIAL TYPE
6. FLAT MOUNT BRACKET

NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWING AND STAKING PLAN FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. MFR/MODEL: AMERISTAR, MONTAGE INDUSTRIAL-MAGESTIC, OR APPROVED EQUAL.
   MATERIAL: FULLY WELDED STEEL, PRE-GALVANIZED BOTH INTERNALLY AND EXTERNALLY.
   COLOR AND FINISH: DOUBLE-LAYER POWDER COATING IN BLACK COLOR.

2 / LD-1 ORNAMENTAL METAL FENCE — 0' 2' 4' 8' — 3/8" = 1'-0"



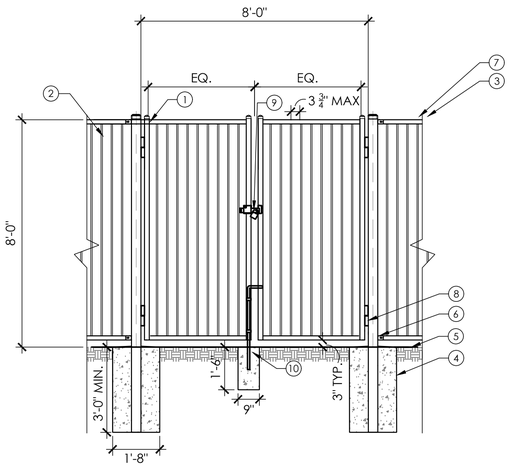
KEY:

1. TOP, MIDDLE, AND BOTTOM RAIL, 1-1/2" GALV. TUBULAR STEEL, HOLD RAIL LEVEL
2. PICKET, 3/4" SQ GALV. TUBULAR STEEL, 14 GA.
3. POST, 2-1/2" SQ. GALV. TUBULAR STEEL, WITH CAP, 12 GA.
4. CONCRETE FOOTING, 1% SLOPE FROM THE CENTER
5. FINISH GRADE, SEE PLANS FOR MATERIAL TYPE
6. FLAT MOUNT BRACKET
7. EXTENDED POST TO 14'-0" HEIGHT FROM FINISHED GRADE FOR SECURITY CAMERA. SEE ELECTRICAL PLANS FOR LOCATION AND MOUNTING DETAILS. CONTRACTOR TO COORDINATE WITH FABRICATOR FOR CONDUIT CUT-OUTS.

NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWING AND STAKING PLAN FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. MFR/MODEL: AMERISTAR, MONTAGE INDUSTRIAL-INVINCIBLE, OR APPROVED EQUAL.
   MATERIAL: FULLY WELDED STEEL, PRE-GALVANIZED BOTH INTERNALLY AND EXTERNALLY.
   COLOR AND FINISH: DOUBLE-LAYER POWDER COATING IN BLACK COLOR.

3 / LD-1 SECURITY FENCE AT OPERATOR HOUSE — 0' 2' 4' 8' — 3/8" = 1'-0"



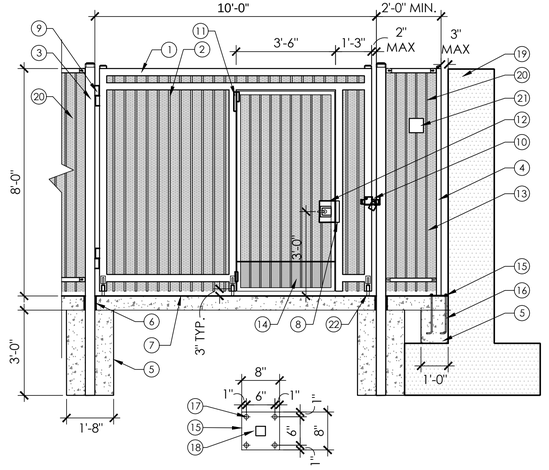
KEY:

1. TOP AND BOTTOM RAIL, 1 3/4" GALV. TUBULAR STEEL, HOLD RAIL LEVEL
2. PICKET, 1" SQ GALV. TUBULAR STEEL, 14GA
3. GATE POST, 4" SQ. GALV. TUBULAR STEEL, WITH CAP, 11 GA.
4. CONCRETE FOOTING, 1% SLOPE FROM THE CENTER
5. FINISH GRADE, SEE PLANS FOR MATERIAL TYPE
6. FLAT MOUNT BRACKET
7. GATE FRAME, 2" SQ. GALV TUBULAR STEEL, WITH CAP 11 GA.
8. WELD ON HINGE
9. GATE LATCH, GALV. STEEL WITH LOCK
10. CANE BOLT IN PIPE SLEEVE SET IN CONCRETE FOOTNG

NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWING AND STAKING PLAN FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
2. MFR/MODEL: AMERISTAR, MONTAGE II-MAGESTIC, OR APPROVED EQUAL.
   MATERIAL: FULLY WELDED STEEL, PRE-GALVANIZED BOTH INTERNALLY AND EXTERNALLY.
   COLOR AND FINISH: DOUBLE-LAYER POWDER COATING IN BLACK COLOR.

5 / LD-1 ORNAMENTAL METAL SWING GATE (AT WATER TOWER) — 0' 2' 4' 8' — 3/8" = 1'-0"



SURFACE MOUNT FENCE POST PLATE
2X ENLARGEMENT

KEY:

1. GATE FRAME, 3" GALV. TUBULAR STEEL, HOLD RAIL LEVEL, 11 GA.
2. PICKET, 1" SQ GALV. TUBULAR STEEL, 14 GA.
3. GATE POST, 4" SQ. GALV. TUBULAR STEEL, WITH CAP, 11 GA.
4. FENCE POST, 2-1/2" SQ. GALV. TUBULAR STEEL, WITH CAP, 12 GA.
5. CONCRETE FOOTING
6. EXPANSION JOINT
7. FINISH GRADE, SEE PLANS FOR MATERIAL TYPE
8. MAGNETIC CARD READER
9. HEAVY DUTY WELD ON HINGE
10. GATE LATCH, GALV. STEEL WITH LOCK
11. AUTO CLOSE HINGE, 90 DEGREE
12. STRAIGHT RETURN LEVER TRIM WITH KEY AND ANTI-PICKING PLATE FOR LOCKING MECHANISM
13. GALV. STEEL PERFORATED METAL PANEL, 1/8" ROUND ON 3/16" STAGGERED CENTERS, PAINT IN BLACK
14. KICK PLATE, GALV. STEEL. WELDED ON BOTH SIDES
15. 8" X 8" X 3/8" GALV. STEEL BASE PLATE, SEE ENLARGEMENT
16. 1/2" - 13 X 18" GALV. STEEL ANCHOR J-BOLTS
17. (4) 9/16" DIA. HOLES.
18. WELDED POST TO BASE.
19. OPERATOR HOUSE WALL
20. ORNAMENTAL METAL FENCE, SEE DETAIL 2/LD-1
21. KNOX BOX 3200, SURFACE MOUNT 6'-0" ABOVE GRADE, PER MFR DETAILS
22. GATE WHEELS WITH ADJUSTABLE HEIGHT, WELDED TO BACK OF GATE FRAME

NOTES:

1. THIS DETAIL IS USED TO SHOW THE GATE DESIGN INTENSION ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWING AND STAKING PLAN FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. FIELD VERIFY ALL DIMENSIONS.
2. MATERIAL: FULLY WELDED STEEL, PRE-GALVANIZED BOTH INTERNALLY AND EXTERNALLY.
   COLOR AND FINISH: DOUBLE-LAYER POWDER COATING IN BLACK COLOR.

6 / LD-1 ORNAMENTAL METAL SWING GATE (AT OPERATOR HOUSE) — 0' 2' 4' 8' — 3/8" = 1'-0"

NOT FOR CONSTRUCTION

LD-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA — DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ — DATE NOVEMBER 2025
CHECKED BY: E. SMITH — R.L.A. 4585 — DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585 EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

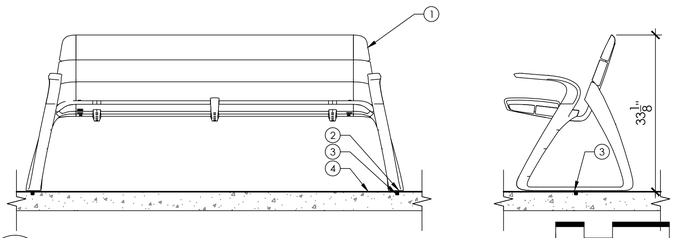
SITE LAYOUT DETAILS

T15136000

SHEET 212 OF 648

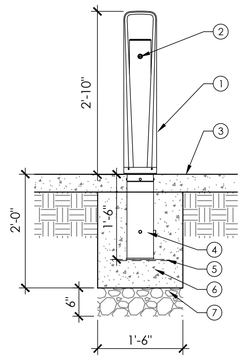
KEY:

1. BENCH, METRO40: REST BENCH FROM LANDSCAPE FORMS, COLOR SILVER METALLIC POWDER-COATED.
2. ANTI-GLIDES RUBBER PAD
3. 5/8-11 THREADED SURFACE MOUNT BOLT WITH 5/8 WASHER. WITH 1/4-20 X 1-1/2" SET SCREW
4. SPECIALTY CONCRETE PAVEMENT SEE PLANS FOR LOCATION



1 LD-2 BENCH

1" = 1'-0"



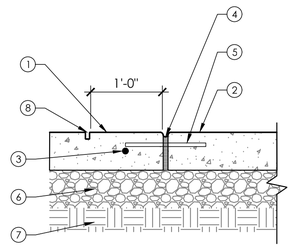
KEY:

1. REMOVABLE BOLLARD, LANDSCAPE FORMS, STOP BOLLARD, REMOVABLE, OR APPROVED EQUAL. COLOR SILVER METALLIC POWDER COATED. SEE SPECS.
2. KEY
3. CONCRETE PAVEMENT. SEE CIVIL PLANS.
4. GALVANIZED SOCKET WITH SELF-STORING COVER PLATE, 6 1/2" DIAMETER. CLEAR OF ANY CONCRETE AND ALL OTHER DEBRIS
5. 1/4" X 2" X 12" ANCHOR PLATE
6. CONCRETE FOOTING.
7. DRAIN ROCK, CLASS 2 PERMEABLE.

2 LD-2 REMOVABLE BOLLARD

0' 6" 1' 2'

3/4" = 1'-0"



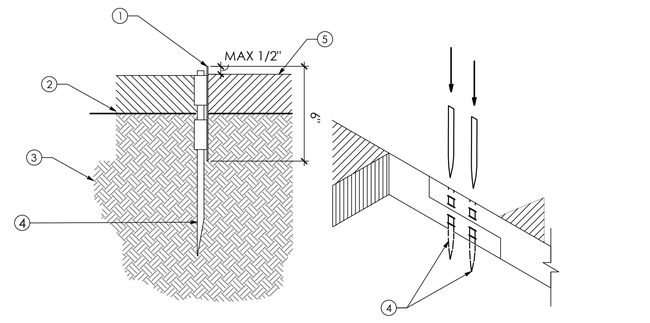
KEY:

1. CONCRETE BAND, SEE LAYOUT LEGEND FOR MORE INFORMATION
2. ADJACENT EXISTING PAVEMENT, SEE CIVIL PLANS
3. REBAR #4 CONTINUOUS OVERLAP 18", TYP.
4. EXPANSION JOINT, SEE DETAIL 5/LD-2
5. DOWELL, 1/2" X 12" AT 2'-0" O.C. WITH PAPER SLEEVE ON END
6. AGGREGATE BASE, SEE CIVIL PLANS
7. SUBBASE, PER CIVIL
8. SCORE JOINT, SEE DETAIL 5/LD-2

3 LD-2 STAMPED CONCRETE PATTERN ON CONCRETE BAND

0' 1" 2' 4'

1/2" = 1'-0"



KEY:

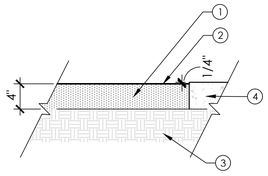
1. STEEL EDGING.
2. MULCH
3. SUB-BASE MATERIAL.
4. 12" STAKES TO LOCK INTO PREFORMED LOOPS ON THE EDGING.
5. FINISH SURFACE.

NOTES:

1. ALL FIELD CUTS TO BE GROUND SMOOTH.

6 LD-2 METAL EDGING

N.T.S.



KEY:

1. DECOMPOSED GRANITE WITH INTEGRATED STABILIZER. REFER TO NOTES 1 & 2.
2. FINISH GRADE.
3. SUBGRADE COMPACTED TO 90% RELATIVE DENSITY.
4. ADJACENT CONCRETE EDGE.

NOTES:

1. INSTALL DECOMPOSED GRANITE IN (2) 2" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
2. NON-TOXIC ORGANIC BINDER MANUFACTURED BY STABILIZER SOLUTIONS. BINDER SHALL BE PRE-MIXED WITH DECOMPOSED GRANITE PRIOR TO INSTALLATION.
3. DECOMPOSED GRANITE SHALL BE CONTAINED BY ADJACENT CONCRETE, CURBS, AS SHOWN PER PLAN.

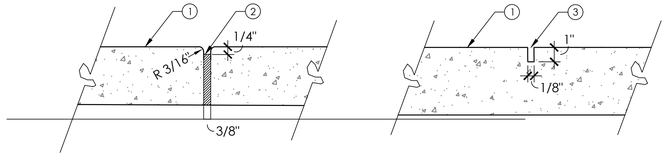
4 LD-2 DECOMPOSED GRANITE

0' 6" 1' 2'

1" = 1'-0"

EXPANSION JOINT

SCORE JOINT

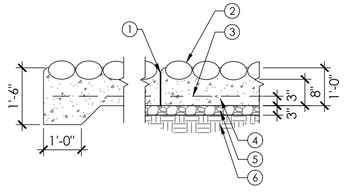


KEY:

1. CONCRETE PAVING.
2. ASPHALT FELT EXPANSION JOINT.
3. SAWCUT SCORE JOINT.

5 LD-2 CONCRETE JOINT

N.T.S.



KEY:

1. EXPANSION JOINT
2. 2"-4" RIVER ROCK
3. #4 REBAR, 24" O.C. BOTH WAY
4. CONCRETE MORTAR
5. CLASS II AGGREGATE BASE
6. SUBGRADE, SEE CIVIL PLANS

NOTES:

1. PLACE COBBLE SO THAT CONCRETE MORTAR IS NOT VISIBLE.
2. ON SLOPES PROVIDE A 12"X18" KEYWAY AT TOE AND TOP OF SLOPE.

7 LD-2 GROUTED RIVER ROCK SURFACE

1/2" = 1'-0"

NOT FOR CONSTRUCTION

LD-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025
CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

SITE LAYOUT DETAILS

T15136000

SHEET 213 — OF — 648

WEST SACRAMENTO IRRIGATION NOTES

1. THE IRRIGATION SYSTEM IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT TO THE LANDSCAPE ARCHITECT ANY DIFFERENCE BETWEEN THE WATER PRESSURE SHOWN ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE POINT OF CONNECTION. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED IN WRITING PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
2. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. INSTALL PIPING AND VALVES IN PLANTING AREAS WHERE POSSIBLE, AND LOCATE ELECTRIC CONTROL AND QUICK COUPLING VALVES IN GROUND COVER/SHRUB AREAS, 6" TO 12" AWAY FROM EDGE OF SIDEWALK FOR EASY ACCESS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, AND UTILITIES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE AND BE RESPONSIBLE FOR ANY DAMAGE IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. THEY SHALL COORDINATE THEIR WORK FOR THE LOCATION OF UTILITIES AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, AND NEAR STRUCTURES. PRIOR TO CONSTRUCTION, CONTACT ALL APPLICABLE AGENCIES AND U.S.A. AT (800) 642-2444 TO FIELD LOCATE ALL EXISTING UTILITIES.
4. THE FINAL LOCATION OF THE AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
5. FOR ADDITIONAL INFORMATION, SEE PROJECT DETAILS AND SPECIFICATIONS.
6. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL LINES, VALVES AND NOZZLES FOR OPTIMUM PERFORMANCE. ADJUST ALL NOZZLES TO ELIMINATE SPRAYING ONTO WALKS, STREETS, BUILDINGS, ETC.
7. FIELD ADJUSTMENTS MAY BE REQUIRED TO PROVIDE OPTIMUM OPERATING EFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LANDSCAPE ARCHITECT TO REVIEW PROPOSED FIELD ADJUSTMENTS PRIOR TO INSTALLATION. IN THE EVENT THAT NO WRITTEN REQUEST IS RECEIVED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS.
8. SLEEVE ALL PRESSURE MAINLINE PIPE, LATERAL PIPE, AND CONTROL WIRES UNDER STREETS AND CONCRETE WALKWAYS WITH THE PROPER SIZE SCH 40 PVC AND DEPTH AS SPECIFIED.
9. INSTALL A COPPER TRACE WIRE FROM THE WATER METER TO THE BACKFLOW PREVENTER, BURIED IN THE SAME TRENCH AS THE PRESSURE SUPPLY LINE PIPING.
10. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS DIAGRAMMATICALLY SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN SITE DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN FORESEEN AND CONSIDERED IN THE ENGINEERING. THE CITY ENGINEER SHOULD BE INFORMED IN WRITING OF SUCH OBSTRUCTIONS AND DIFFERENCES, BUT IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND REPAIR WORK NECESSARY.
11. INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN THE CONSTRUCTION DETAILS. USE "TEFLON" TAPE ON ALL PVC MALE THREADS OF ALL SPRINKLER SWING JOINTS AND VALVE ASSEMBLIES EXCEPT MARLEX STYLED FITTINGS.
12. CONTRACTOR SHALL VERIFY OPERABILITY OF ALL EXISTING IRRIGATION SYSTEM SHOWN TO REMAIN.
13. ALL NEW IRRIGATION EQUIPMENT AND VALVE BOXES SHALL BE PURPLE IN COLOR TO INDICATE RECYCLED WATER. SEE LEGEND AND DETAILS.
14. UNKNOWN EXISTING IRRIGATION LINE TO BE ABANDONED AND CAPPED.

WEST SACRAMENTO IRRIGATION LEGEND

- C — IRRIGATION CONTROLLER, RAINMASTER DX3, 16 STATION 2 WIRE CONTROLLER W/ CELL MODEM AND ANTENNA ASSEMBLY MOUNTED IN A STRONBOX SB-16SS STAINLESS STEEL PEDESTAL. ADD DECODERS AND FUSE DEVICE AT VALVE MANIFOLDS. INSTALL PROPER GROUNDING, SURGE PROTECTOR AND CONNECTORS, PER MANUFACTURER SPECIFICATIONS. INSTALL PER DETAIL. (1 ID-1) (4 ID-3)
- M — WATER METER, 1" SIZE. SEE IRRIGATION PLANS FOR LOCATION. INSTALL PER DETAIL. TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT. (2 ID-1)
- REDUCED PRESSURE BACKFLOW ASSEMBLY, WILKINS 975-XL2, 1" SIZE. PROVIDE STRONGBOX POLAR BARRIER SLIP-ON INSULATING BLANKET AND STAINLESS STEEL BACKFLOW ENCLOSURES, STRONGBOX MODEL SBBC-30SS FOR ALL UNITS. POLAR BARRIER SHALL BE SIZED PER MANUFACTURER'S SPECIFICATIONS. INSTALL PER DETAIL. (2 ID-1)
- V — MASTER VALVE, SUPERIOR 3300150, WITH PURPLE ID TAG, 1 1/2" SIZE NORMALLY OPEN, FLOW REQUIREMENTS 0-30 GPM TO BE CONTROLLED BY A 2-WIRE 2 STATION DECODER RMD2. INSTALL PER DETAIL. (1 ID-2) (4 ID-3)
- F — FLOW SENSOR ASSEMBLY, CREATIVE SENSOR TECHNOLOGY FSI-T15-SP3, 1-1/2" SIZE, WITH OPERATING RANGE OF 1.8-108 GPM. INSTALL PER DETAIL. (2 ID-2) (4 ID-3)
- GATE VALVE, NIBCO T-113, BRONZE WITH PURPLE RUBBER COVER, SIZE PER LINE. INSTALL PER DETAIL. (3 ID-2) (4 ID-3)
- REMOTE CONTROL VALVE ASSEMBLY, HUNTER ICV-FS-R WITH PURPLE CONTROL KNOB, SIZE PER PLAN, TO BE CONTROLLED BY A 2-WIRE 1 STATION DECODER RMD1. BALL VALVE, WATTS LFB6000, SIZE AS REQUIRED. INSTALL PER DETAIL. (4 ID-1) (6 ID-2) (2 ID-3) (4 ID-3)
- QUICK COUPLING VALVE ASSEMBLY, HUNTER HQ-44LRC-R WITH PURPLE RUBBER COVER, 1" SIZE. INSTALL PER DETAIL. (3 ID-1) (6 ID-2)
- TREE BUBBLER, HUNTER RZWS-18-50-CV-R, 18" TUBE, 0.50 GPM, OPERATING PRESSURE OF 20 PSI, TWO INSTALL PER DETAIL. (1 ID-3)
- SHRUB BUBBLER, HUNTER PCB-25-R, 0.25 GPM . OPERATING PRESSURE OF 20 PSI. (5 ID-3)

- MAINLINE, CLASS 315 PVC, 2" DIA, PURPLE PIPE, INSTALL PER DETAIL
- IRRIGATION SUPPLY LINE, POLYETHYLENE TUBE, PURPLE PIPE, 1 1/2" SIZE, CONNECTION TO WATER SERVICE TO BE FURNISHED BY CONTRACTOR AND EXPECTED BY THE PUBLIC WORK DEPARTMENT. (4 ID-2) (5 ID-2)
- LATERAL LINE, SCH 40, PURPLE PIPE, 1" SIZE UNLESS SPECIFIED ON PLAN, INSTALL PER DETAIL.
- SLEEVE, SCH 40 PVC PURPLE PIPE, SIZE AS REQUIRED. COVER TO BE AS INDICATED IN SPECS. FOR PIPE DEPTH OF COVER, INSTALL PER DETAIL. CONTRACTOR TO PROVIDE EXTRA SLEEVE ADJACENT TO PROPOSED SLEEVE WHEN NECESSARY.
- SIGN — RECLAIMED WATER USE SIGNAGE

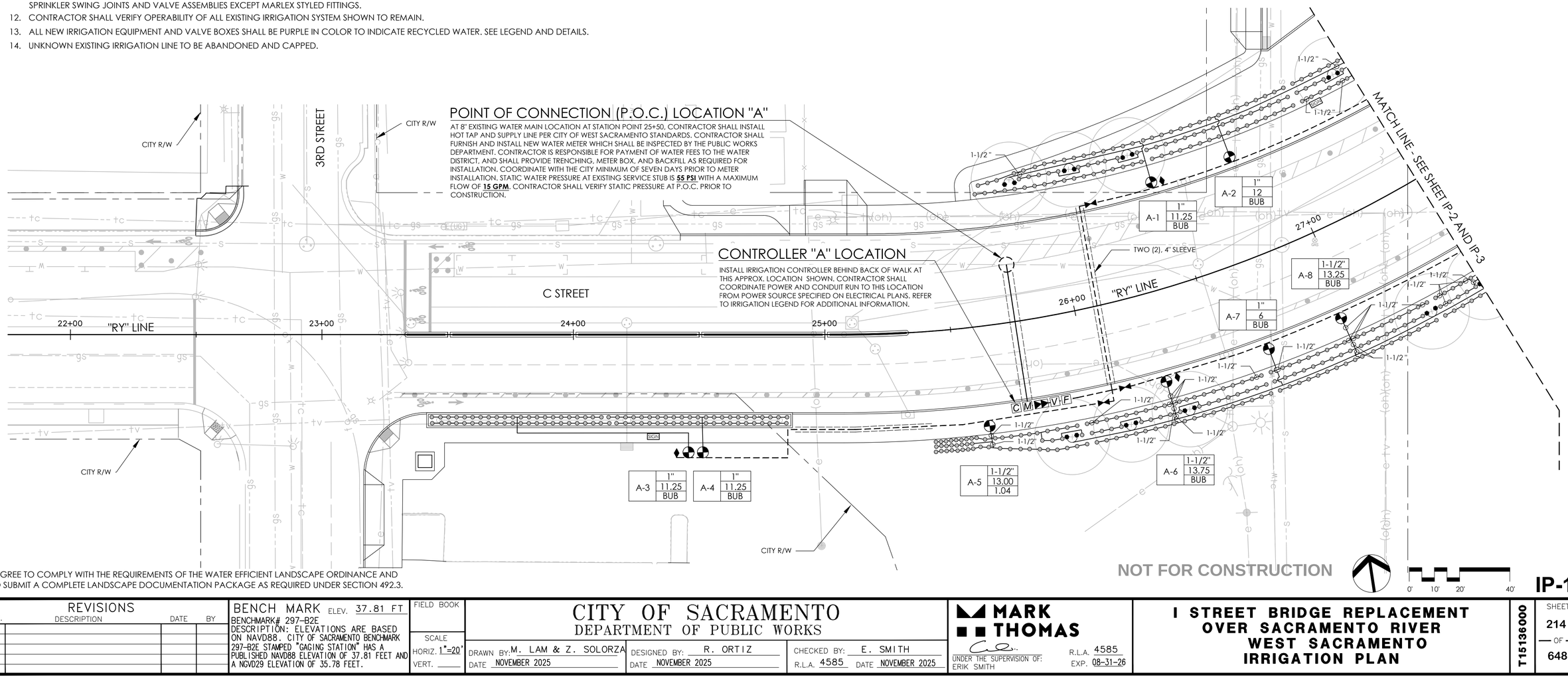
	CONTROLLER VALVE NUMBER
A-1	1-1/2" — VALVE SIZE
	9 — APPROXIMATE GPM THROUGH VALVE
	1.2 — PRECIPITATION RATE

POINT OF CONNECTION (P.O.C.) LOCATION "A"

AT 8" EXISTING WATER MAIN LOCATION AT STATION POINT 25+50, CONTRACTOR SHALL INSTALL HOT TAP AND SUPPLY LINE PER CITY OF WEST SACRAMENTO STANDARDS. CONTRACTOR SHALL FURNISH AND INSTALL NEW WATER METER WHICH SHALL BE INSPECTED BY THE PUBLIC WORKS DEPARTMENT. CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF WATER FEES TO THE WATER DISTRICT, AND SHALL PROVIDE TRENCHING, METER BOX, AND BACKFILL AS REQUIRED FOR INSTALLATION. COORDINATE WITH THE CITY MINIMUM OF SEVEN DAYS PRIOR TO METER INSTALLATION. STATIC WATER PRESSURE AT EXISTING SERVICE STUB IS **55 PSI** WITH A MAXIMUM FLOW OF **15 GPM**. CONTRACTOR SHALL VERIFY STATIC PRESSURE AT P.O.C. PRIOR TO CONSTRUCTION.

CONTROLLER "A" LOCATION

INSTALL IRRIGATION CONTROLLER BEHIND BACK OF WALK AT THIS APPROX. LOCATION SHOWN. CONTRACTOR SHALL COORDINATE POWER AND CONDUIT RUN TO THIS LOCATION FROM POWER SOURCE SPECIFIED ON ELECTRICAL PLANS. REFER TO IRRIGATION LEGEND FOR ADDITIONAL INFORMATION.



I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND TO SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE AS REQUIRED UNDER SECTION 492.3.

NOT FOR CONSTRUCTION

0' 10' 20' 40'

IP-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

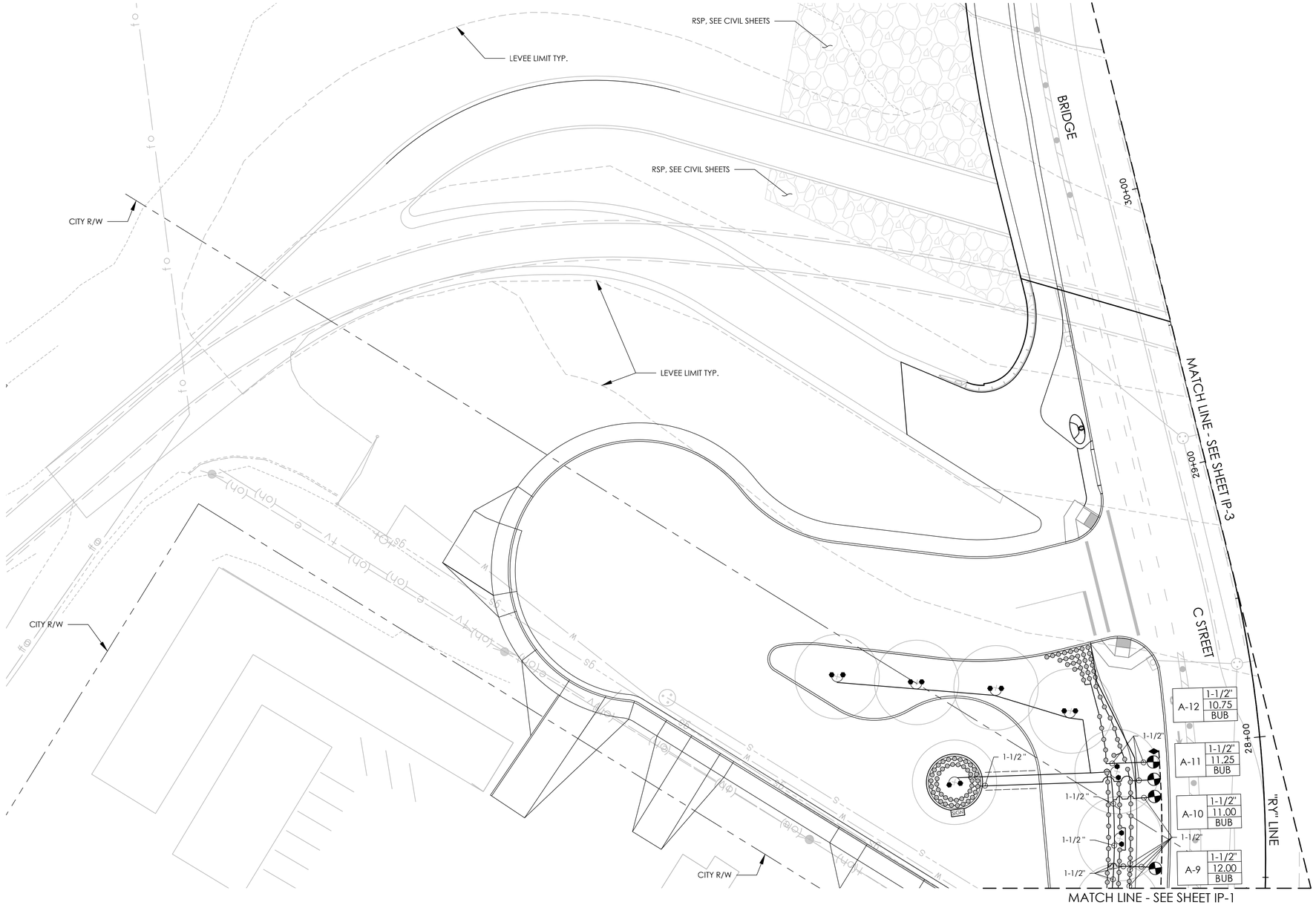
DRAWN BY: M. LAM & Z. SOLORZA DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ DATE NOVEMBER 2025
CHECKED BY: E. SMITH R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585 EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO IRRIGATION PLAN

T15136000

SHEET 214 — OF — 648



FOR NOTES AND LEGEND SEE SHEET IP-1

NOT FOR CONSTRUCTION

0' 10' 20' 40'

IP-2

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
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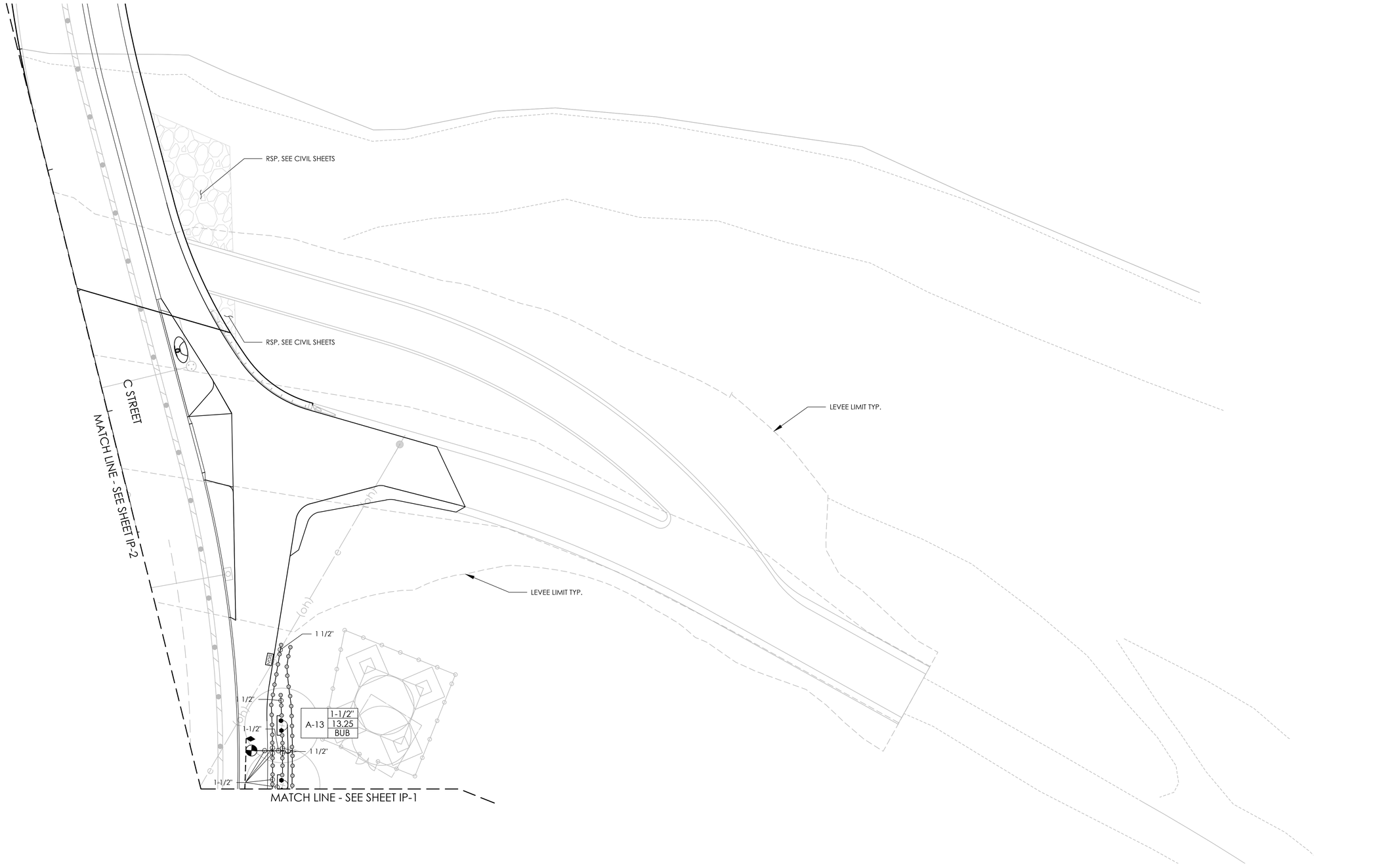
I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO IRRIGATION PLAN

T15136000

SHEET 215 — OF — 648



FOR NOTES AND LEGEND SEE SHEET IP-1

NOT FOR CONSTRUCTION

0' 10' 20' 40'

IP-3

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025

DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025

CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO IRRIGATION PLAN

T15136000

SHEET 216 — OF — 648

SACRAMENTO IRRIGATION NOTES

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2. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. INSTALL PIPING AND VALVES IN PLANTING AREAS WHERE POSSIBLE, AND LOCATE ELECTRIC CONTROL AND QUICK COUPLING VALVES IN GROUND COVER/SHRUB AREAS, 6" TO 12" AWAY FROM EDGE OF SIDEWALK FOR EASY ACCESS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, AND UTILITIES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE AND BE RESPONSIBLE FOR ANY DAMAGE IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. THEY SHALL COORDINATE THEIR WORK FOR THE LOCATION OF UTILITIES AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, AND NEAR STRUCTURES. PRIOR TO CONSTRUCTION, CONTACT ALL APPLICABLE AGENCIES AND U.S.A. AT (800) 642-2444 TO FIELD LOCATE ALL EXISTING UTILITIES.
4. THE FINAL LOCATION OF THE AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
5. FOR ADDITIONAL INFORMATION, SEE PROJECT DETAILS AND SPECIFICATIONS.
6. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL LINES, VALVES AND NOZZLES FOR OPTIMUM PERFORMANCE. ADJUST ALL NOZZLES TO ELIMINATE SPRAYING ONTO WALKS, STREETS, BUILDINGS, ETC.
7. FIELD ADJUSTMENTS MAY BE REQUIRED TO PROVIDE OPTIMUM OPERATING EFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LANDSCAPE ARCHITECT TO REVIEW PROPOSED FIELD ADJUSTMENTS PRIOR TO INSTALLATION. IN THE EVENT THAT NO WRITTEN REQUEST IS RECEIVED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS.
8. SLEEVE ALL PRESSURE MAINLINE PIPE, LATERAL PIPE, AND CONTROL WIRES UNDER STREETS AND CONCRETE WALKWAYS WITH THE PROPER SIZE SCH 40 PVC AND DEPTH AS SPECIFIED.
9. INSTALL A COPPER TRACE WIRE FROM THE WATER METER TO THE BACKFLOW PREVENTER, BURIED IN THE SAME TRENCH AS THE PRESSURE SUPPLY LINE PIPING.
10. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS DIAGRAMMATICALLY SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN SITE DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN FORESEEN AND CONSIDERED IN THE ENGINEERING. THE CITY ENGINEER SHOULD BE INFORMED IN WRITING OF SUCH OBSTRUCTIONS AND DIFFERENCES, BUT IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND REPAIR WORK NECESSARY.
11. INSTALL ALL PIPE MATERIALS AND EQUIPMENT AS SHOWN IN THE CONSTRUCTION DETAILS. USE "TEFLON" TAPE ON ALL PVC MALE THREADS OF ALL SPRINKLER SWING JOINTS AND VALVE ASSEMBLIES EXCEPT MARLEX STYLED FITTINGS.
12. CONTRACTOR SHALL VERIFY OPERABILITY OF ALL EXISTING IRRIGATION SYSTEM SHOWN TO REMAIN.

SACRAMENTO IRRIGATION LEGEND

- M — EXISTING WATER METER
- EXISTING REDUCED PRESSURE BACKFLOW ASSEMBLY
- C — IRRIGATION CONTROLLER, RAINMASTER DX3, 16 STATION CONTROLLER W/ MODEM AND ANTENNA ASSEMBLY MOUNTED IN A STRONBOX SB-16SS STAINLESS STEEL PEDESTAL. INSTALL PROPER GROUNDING AND CONNECTORS AT VALVE MANIFOLDS. INSTALL PER DETAIL. (1 ID-6)
- M — WATER METER, 1" SIZE. SEE IRRIGATION PLANS FOR LOCATION. INSTALL PER DETAIL. TO BE FURNISHED AND INSTALLED BY THE DEPARTMENT OF UTILITIES UNDER COORDINATION OF THE CONTRACTOR. (1 ID-4)
- REDUCED PRESSURE BACKFLOW ASSEMBLY, WILKINS 975-XL2, 1" SIZE. PROVIDE STRONG BOX POLAR BARRIER SLIP-ON INSULATING BLANKET AND STAINLESS STEEL BACKFLOW ENCLOSURES, STRONGBOX MODEL SBBC-30SS FOR ALL UNITS. POLAR BARRIER SHALL BE SIZED PER MANUFACTURER'S SPECIFICATIONS. (1 ID-4)
- V — MASTER VALVE, SUPERIOR 3300150, 1 1/2" SIZE NORMALLY OPEN, FLOW REQUIREMENTS 0-30 GPM. INSTALL PER DETAIL. (2 ID-4)
- F — FLOW SENSOR ASSEMBLY, CREATIVE SENSOR TECHNOLOGY FSI-T15-SP3, 1-1/2" SIZE, WITH OPERATING RANGE OF 1.8-108 GPM. INSTALL PER DETAIL. (3 ID-4)
- GATE VALVE, NIBCO T-113, BRONZE WITH PURPLE RUBBER COVER, SIZE PER LINE. INSTALL PER DETAIL. (4 ID-4)
- DRIP REMOTE CONTROL VALVE ASSEMBLY, RAINBIRD XCZ-100-PRB-LC, 1" SIZE PER PLAN. BALL VALVE, WATTS LFB6001, SIZE AS REQUIRED. INSTALL PER DETAIL. (6 ID-4) (5 ID-5) (6 ID-5)
- REMOTE CONTROL VALVE ASSEMBLY, RAINBIRD EFB-CP, SIZE PER PLAN. BALL VALVE, WATTS LFB6001, SIZE AS REQUIRED. INSTALL PER DETAIL. (5 ID-4) (5 ID-5) (6 ID-5)
- QUICK COUPLING VALVE ASSEMBLY, RAINBIRD-44LRC, 1" SIZE. INSTALL PER DETAIL. (1 ID-5) (5 ID-5)
- TREE BUBBLER, RAINBIRD RWS-B-C-1402, 36" TUBE, 0.50 GPM, TWO PER TREE. OPERATING PRESSURE OF 20 PSI. INSTALL PER DETAIL. (4 ID-5)
- SUBSURFACE INLINE DRIP SYSTEM, RAINBIRD XFS-CV-06-12, INSTALL PER DETAIL. AIR RELIEF VALVE, RAINBIRD AVR050, 1/2" MALE THREADED AND AUTOMATIC FLUSH VALVE, HUNTER AFV-T, 1/2" SIZE MPT CONNECTION. INSTALL PER DETAIL.
- SUBSURFACE INLINE DRIP SYSTEM, RAINBIRD XFS-CV-06-18, INSTALL PER DETAIL. AIR RELIEF VALVE, RAINBIRD AVR050, 1/2" MALE THREADED AND AUTOMATIC FLUSH VALVE, HUNTER AFV-T, 1/2" SIZE MPT CONNECTION. INSTALL PER DETAIL.

(2 ID-6) (4 ID-6) (5 ID-6)

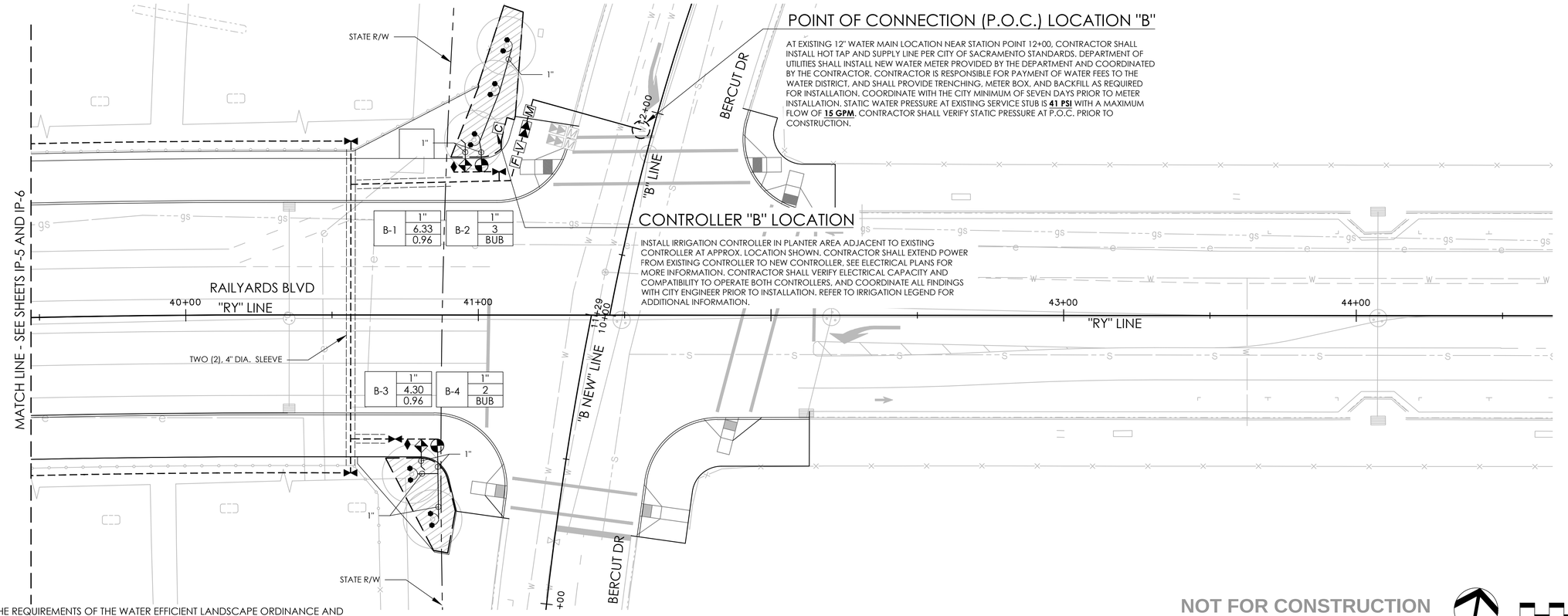
INSTALL DRIP SYSTEM OPERATION INDICATOR, RAINBIRD OPERIND FOR SUB-SURFACE DRIPLINE, WITHIN 3 FEET OF IRRIGATION VALVES FOR MAINTENANCE. REFER TO MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION. ALL DRIP IRRIGATION INSTALLED BELOW SURFACE WITH EMITTERS AT 12" O.C. AND 18" O.C.

- MAINLINE, CLASS 315 PVC, 2" DIA, INSTALL PER DETAIL.
- IRRIGATION SUPPLY LINE, COPPER TYPE K, 1-1/2" SIZE, CONNECTION TO WATER SERVICE TO BE FURNISHED BY CONTRACTOR AND EXPECTED BY THE PUBLIC WORK DEPARTMENT.
- LATERAL LINE, SCH 40, SIZE PER PLAN, INSTALL PER DETAIL.
- SLEEVE, SCH 40 PVC PIPE, SIZE AS REQUIRED, COVER TO BE AS INDICATED IN SPECS. FOR PIPE DEPTH OF COVER, INSTALL PER DETAIL. CONTRACTOR TO PROVIDE EXTRA 3" SLEEVE, CAPPED AT BOTH ENDS, ADJACENT TO PROPOSED SLEEVE.

(2 ID-5)

A-1	1-1/2"
	9
	1.2

- CONTROLLER VALVE NUMBER
- VALVE SIZE
- APPROXIMATE GPM THROUGH VALVE
- PRECIPITATION RATE



POINT OF CONNECTION (P.O.C.) LOCATION "B"

AT EXISTING 12" WATER MAIN LOCATION NEAR STATION POINT 12+00, CONTRACTOR SHALL INSTALL HOT TAP AND SUPPLY LINE PER CITY OF SACRAMENTO STANDARDS. DEPARTMENT OF UTILITIES SHALL INSTALL NEW WATER METER PROVIDED BY THE DEPARTMENT AND COORDINATED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF WATER FEES TO THE WATER DISTRICT, AND SHALL PROVIDE TRENCHING, METER BOX, AND BACKFILL AS REQUIRED FOR INSTALLATION. COORDINATE WITH THE CITY MINIMUM OF SEVEN DAYS PRIOR TO METER INSTALLATION. STATIC WATER PRESSURE AT EXISTING SERVICE STUB IS **41 PSI** WITH A MAXIMUM FLOW OF **15 GPM**. CONTRACTOR SHALL VERIFY STATIC PRESSURE AT P.O.C. PRIOR TO CONSTRUCTION.

CONTROLLER "B" LOCATION

INSTALL IRRIGATION CONTROLLER IN PLANTER AREA ADJACENT TO EXISTING CONTROLLER AT APPROX. LOCATION SHOWN. CONTRACTOR SHALL EXTEND POWER FROM EXISTING CONTROLLER TO NEW CONTROLLER, SEE ELECTRICAL PLANS FOR MORE INFORMATION. CONTRACTOR SHALL VERIFY ELECTRICAL CAPACITY AND COMPATIBILITY TO OPERATE BOTH CONTROLLERS, AND COORDINATE ALL FINDINGS WITH CITY ENGINEER PRIOR TO INSTALLATION. REFER TO IRRIGATION LEGEND FOR ADDITIONAL INFORMATION.

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND TO SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION PACKAGE AS REQUIRED UNDER SECTION 492.3.

NOT FOR CONSTRUCTION

0' 10' 20' 40'

IP-4

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

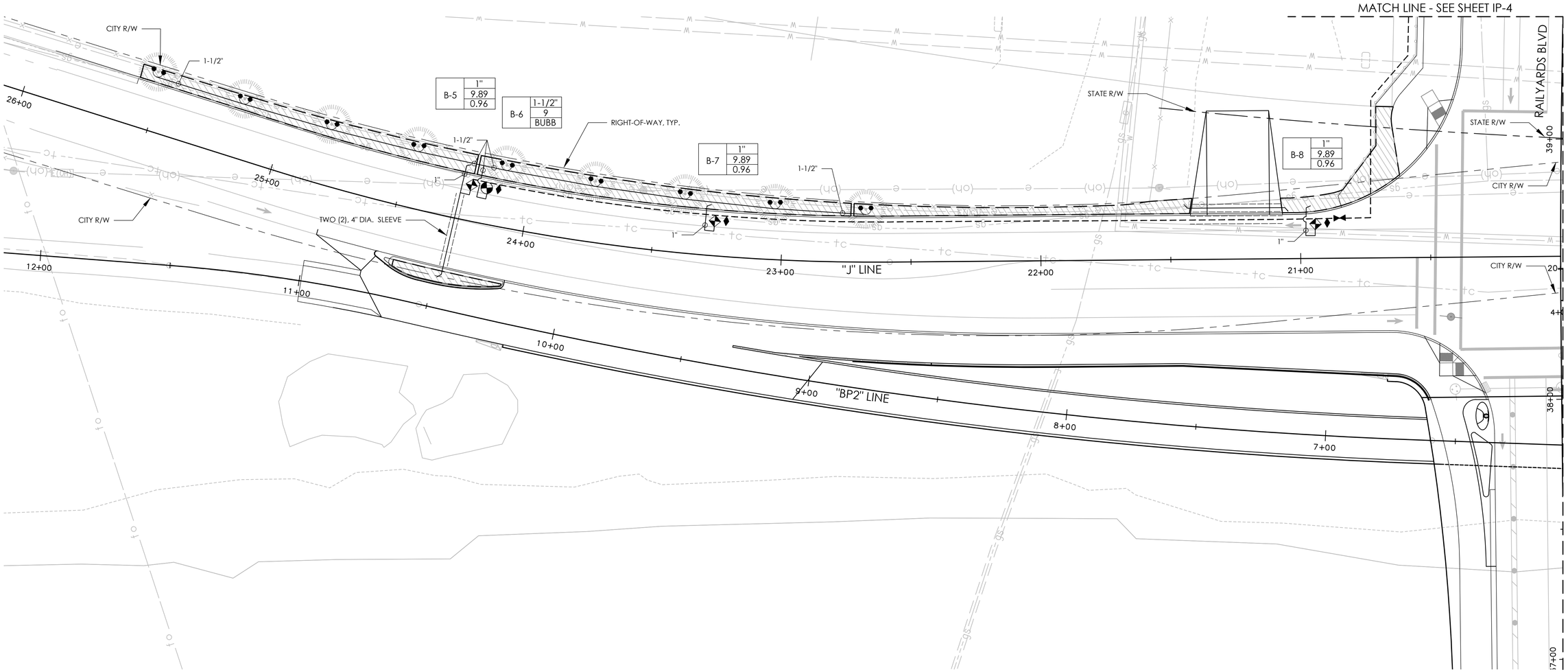
DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025
CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
SACRAMENTO
IRRIGATION PLAN

T15136000

SHEET 217 — OF — 648



FOR NOTES AND LEGEND SEE SHEET IP-4

NOT FOR CONSTRUCTION

0' 10' 20' 40'

IP-5

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025

DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025

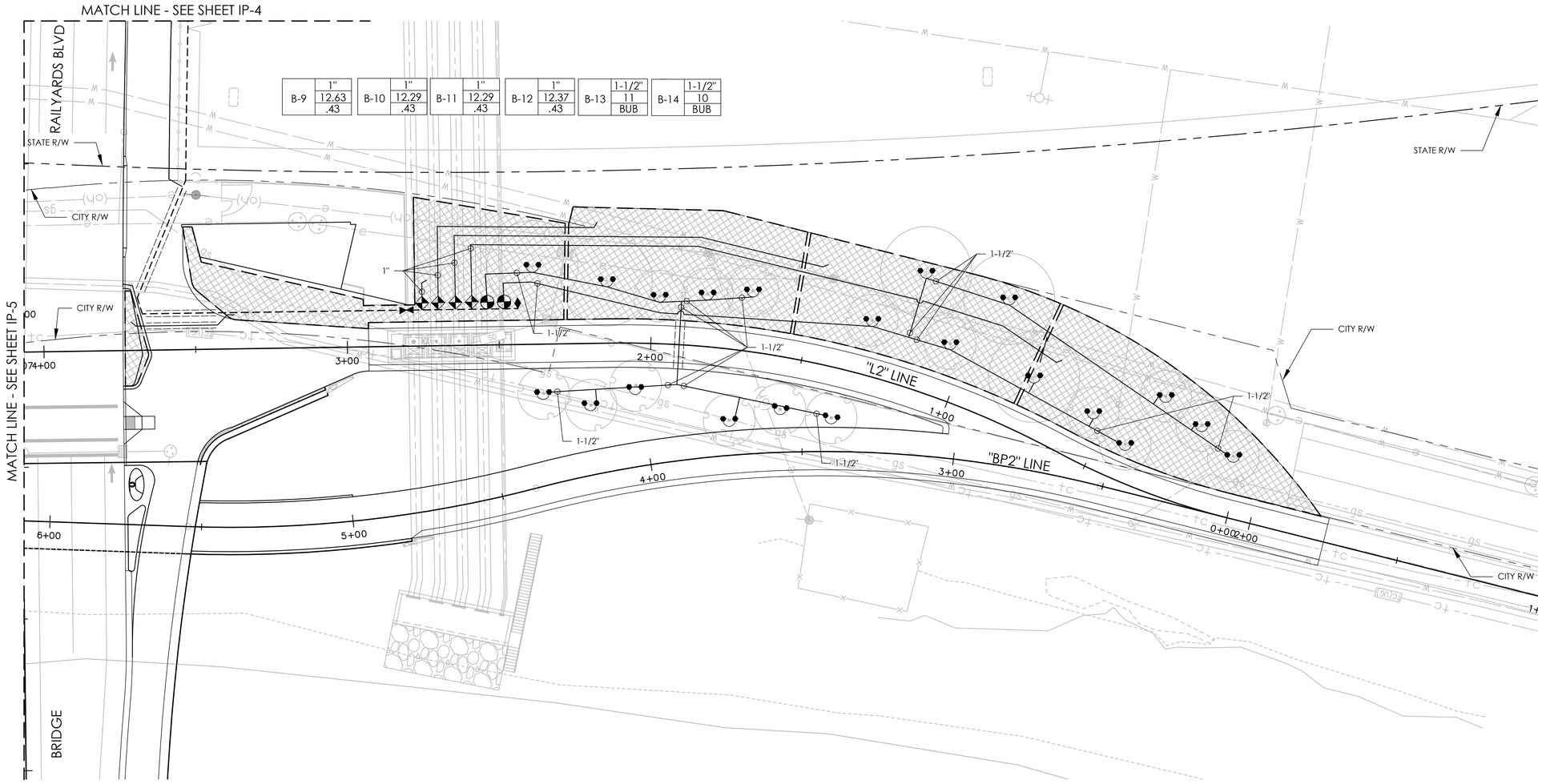
CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO IRRIGATION PLAN

T15136000

SHEET 218 — OF — 648



FOR NOTES AND LEGEND SEE SHEET IP-4

NOT FOR CONSTRUCTION

0' 10' 20' 40'

IP-6

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

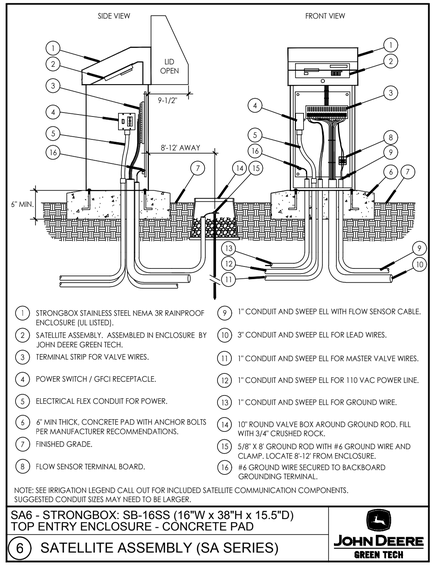
DRAWN BY: M. LAM & Z. SOLORZA DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ DATE NOVEMBER 2025
CHECKED BY: E. SMITH R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO IRRIGATION PLAN

T15136000

SHEET 219 OF 648



1. STRONGBOX STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE (UL LISTED).
2. SATELLITE ASSEMBLY ASSEMBLED IN ENCLOSURE BY JOHN DEERE GREEN TECH.
3. TERMINAL STRIP FOR VALVE WIRES.
4. POWER SWITCH / GFCI RECEPTACLE.
5. ELECTRICAL FLEX CONDUIT FOR POWER.
6. 6" MIN THICK, CONCRETE PAD WITH ANCHOR BOLTS PER MANUFACTURER RECOMMENDATIONS.
7. FINISHED GRADE.
8. FLOW SENSOR TERMINAL BOARD.
9. 1" CONDUIT AND SWEEP ELL WITH FLOW SENSOR CABLE.
10. 3" CONDUIT AND SWEEP ELL FOR LEAD WIRES.
11. 1" CONDUIT AND SWEEP ELL FOR MASTER VALVE WIRES.
12. 1" CONDUIT AND SWEEP ELL FOR 110 VAC POWER LINE.
13. 1" CONDUIT AND SWEEP ELL FOR GROUND WIRE.
14. 10' ROUND VALVE BOX AROUND GROUND ROD, FILL WITH 3/4" CRUSHED ROCK.
15. 5/8" X 8' GROUND ROD WITH #6 GROUND WIRE AND CLAMP. LOCATE 8'-12' FROM ENCLOSURE.
16. #6 GROUND WIRE SECURED TO BACKBOARD GROUNDING TERMINAL.

NOTE: SEE IRRIGATION LEGEND CALL OUT FOR INCLUDED SATELLITE COMMUNICATION COMPONENTS.
SUGGESTED CONDUIT SIZES MAY NEED TO BE LARGER.

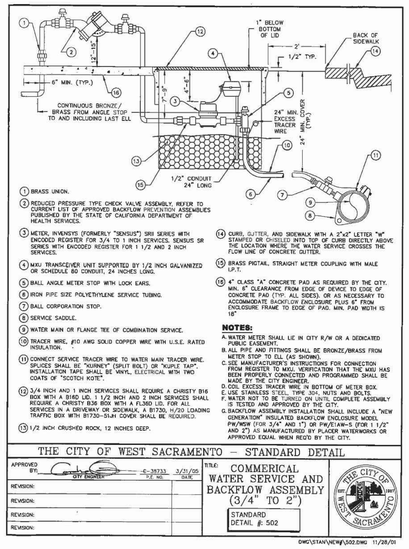
SA6 - STRONGBOX: SB-16SS (16"W x 38"H x 15.5"D)
TOP ENTRY ENCLOSURE - CONCRETE PAD

6 SATELLITE ASSEMBLY (SA SERIES)

JOHN DEERE GREEN TECH

1 ID-1 IRRIGATION CONTROLLER

N.T.S.



1. BRASS UNION.
2. REDUCED PRESSURE TYPE CHECK VALVE ASSEMBLY, REFER TO CURRENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES.
3. METER, INVENSYS (FORMERLY "SENSUS") SR II SERIES WITH ENCODED REGISTER FOR 3/4 TO 1 INCH SERVICES, SENSUS SR SERIES WITH ENCODED REGISTER FOR 1 1/2 AND 2 INCH SERVICES.
4. MXU, TRANSCEIVER UNIT SUPPORTED BY 1/2 INCH GALVANIZED OR SCHEDULE 80 CONDUIT, 24 INCHES LONG.
5. BALL ANGLE METER STOP WITH LOCK EARS.
6. IRON PIPE SIZE POLYETHYLENE SERVICE TUBING.
7. BALL CORPORATION STOP.
8. SERVICE SADDLE.
9. WATER MAIN OR FLANGE TEE OF COMBINATION SERVICE.
10. TRACER WIRE, #10 AWG SOLID COPPER WIRE WITH U.S.E. RATED INSULATION.
11. CONNECT SERVICE TRACER WIRE TO WATER MAIN TRACER WIRE. SPLICES SHALL BE "DURIBIT" (SPLIT BOLT) OR "KUPLE TAP". INSTALLATION TAPE SHALL BE VINYL, ELECTRICAL WITH TWO COATS OF "SCOTCH KOTE".
12. 3/4 INCH AND 1 INCH SERVICES SHALL REQUIRE A CHRISTY B16 BOX WITH A B16D LID. 1 1/2 INCH AND 2 INCH SERVICES SHALL REQUIRE A CHRISTY B36 BOX WITH A FLOYD LID. FOR ALL SERVICES IN A DRIVEWAY OR SIDEWALK, A B17ZO, H/20 LOADING TRAFFIC BOX WITH B17ZO-SLAB COVER SHALL BE REQUIRED.
13. 1/2 INCH CRUSHED ROCK, 12 INCHES DEEP.
14. CURB, GUTTER, AND SIDEWALK WITH A 2"x2" LETTER "W" STAMPED OR SCRIBED INTO TOP OF CURB DIRECTLY ABOVE LOCATION WHERE THE WATER SERVICE CROSSES THE FLOW LINE OF CONCRETE GUTTER.
15. BRASS PIGTAIL, STRAIGHT METER COUPLING WITH MALE I.P.T.
16. 4" OUSD "A" CONCRETE PAD AS REQUIRED BY THE CITY. MIN. 6" CLEARANCE FROM EDGE OF DEVICE TO EDGE OF CONCRETE PAD (TYP. ALL SIDES), OR AS NECESSARY TO ACCOMMODATE METER LID ENCLOSURE PLUS 6" FROM ENCLOSURE FRAME TO EDGE OF PAD. MIN. PAD WIDTH IS 18".

NOTES:

A. WATER METER SHALL LIE IN CITY R/W OR A DEDICATED PUBLIC EASEMENT.
B. ALL PIPE AND FITTINGS SHALL BE BRONZE/BRASS FROM METER STOP TO ELL (AS SHOWN).
C. SEE MANUFACTURER'S INSTRUCTIONS FOR CONNECTION FROM REGISTER TO MXU. VERIFICATION THAT THE MXU HAS BEEN PROPERLY CONNECTED AND PROGRAMMED SHALL BE MADE BY THE CITY ENGINEER.
D. ALL METERS SHALL BE SET IN BOTTOM OF METER BOX.
E. USE STAINLESS STEEL, TYPE 304, NUTS AND BOLTS.
F. WATER NOT TO BE TURNED ON UNTIL COMPLETE ASSEMBLY IS TESTED AND APPROVED BY THE CITY.
G. BACKFLOW ASSEMBLY INSTALLATION SHALL INCLUDE A "NEW GENERATION" INSULATED BACKFLOW ENCLOSURE MODEL PW/WSW (FOR 3/4" AND 1") OR PW/E1AW-S (FOR 1 1/2" AND 2") AS MANUFACTURED BY PLACER WATERWORKS OR APPROVED EQUAL WHEN REQ'D BY THE CITY.

THE CITY OF WEST SACRAMENTO – STANDARD DETAIL

APPROVED BY: _____ CITY ENGINEER — C-28733 — 3/31/05 — P.E. NO. — DATE

REVISION: / REVISION: / REVISION: / REVISION:

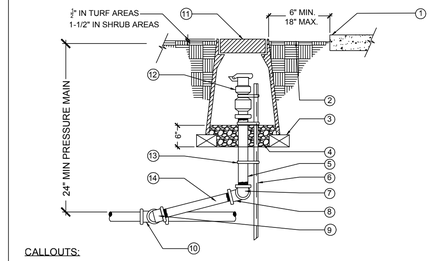
TITLE: COMMERICAL WATER SERVICE AND BACKFLOW ASSEMBLY (3/4" TO 2")

STANDARD DETAIL # 502

DWG\STAN\VIEW\502.DWG 11/28/05

2 ID-1 WATER METER AND REDUCED PRESSURE BACKFLOW ASSEMBLY

N.T.S.



CALLOUTS:

1. STRUCTURE OR PAVING.
2. FINISH GRADE BEFORE PLANTING.
3. BRICK SUPPORT, TYPICAL (2) PLACES.
4. 3/4" DIA. DRAIN ROCK.
5. SCHEDULE 80 PVC THREADED NIPPLE, 12" LONG.
6. #5 REBAR ANGLE IRON, 36" LONG.
7. SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
8. SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
9. SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
10. SCHEDULE 80 PVC TEE (SLIPxSLIPxFIPT).
11. CARSON 910 PURPLE VALVE BOX OR EQUAL WITH LOCK BOLT.
12. QUICK COUPLING VALVE, SEE PLANS OR SPECS FOR MANUFACTURER AND MODEL NUMBER.
13. STAINLESS STEEL HOSE CLAMPS, MINIMUM OF (3) PLACES.
14. SCHEDULE 80 PVC THREADED NIPPLE, 12" LONG.

NOTES:

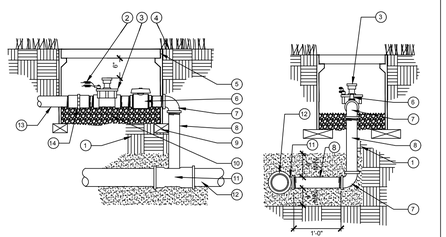
1. INSTALL QUICK COUPLING VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
2. SEE PLAN & SPECIFICATIONS FOR MORE INFORMATION.
3. SIZE OF ASSEMBLY TO BE EQUAL TO THE FIPT OF THE QUICK COUPLER.

REV.	DATE	DESCRIPTION
1		
2		
3		

QUICK COUPLER — L-104

3 ID-1 QUICK COUPLING VALVE ASSEMBLY

N.T.S.



CALLOUTS:

1. SOIL IN IRRIGATION MAIN AND LATERAL LINES SHALL BE COMPACTED IN 6" LIFT WITH EACH LIFT COMPACTED TO 85% R.D. IN LANDSCAPED AREAS AND 95% R.D. IN PAVING AREAS.
2. VALVE CONTROL WIRE PROVIDE "3M DBY" SEAL PACKS AT ALL SPLICES & 36" OF EXCESS UF WIRE IN A 1" DIA. COIL.
3. REMOTE CONTROL VALVE.
4. FINISH GRADE.
5. PURPLE CARSON 1419 VALVE BOX OR EQUAL WITH LOCK BOLT.
6. FULL PORT ¾-TURN PVC BRASS BALL VALVE.
7. SCH. 80 PVC 90 DEGREE ELL.
8. SCH. 80 PVC NIPPLE.
9. BRICK - TYP (4) PER BOX
10. 3" DIA. DRAIN ROCK
11. SCH. 80 PVC TEE.
12. PVC MAIN LINE.
13. IRRIGATION SUPPLY LINE.
14. SCH. 40 UNION.

REV.	DATE	DESCRIPTION
1		
2		
3		

REMOTE CONTROL VALVE — L-105

4 ID-1 REMOTE CONTROL VALVE ASSEMBLY

N.T.S.

WATER EFFICIENT LANDSCAPE WORKSHEET

Project: I-Street Bridge West Sacramento — Date: 10/14/2025

ETo of location (inches/ year): 55.2

SECTION A - HYDROZONE INFORMATION TABLE

HYDROZONE	VALVES	IRRIGATION METHOD	AREA (SQ. FT.)	% OF LANDSCAPE AREA
I	A-1 to A-6, & A-8, A-9, A-11, A-12, A-13	Shrub Bubblers	4,788	94.9%
II	A-7, A-10,	Tree Bubblers	255	5.1%
SLA	A-1 to A-7		5,043	0.0%
		TOTAL	5,043	100%

SECTION B.1 - MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

MAWA Equition: MAWA = (Eto-Eppt) x (0.62) x [(0.45 x LA)+(1-.45 x SLA)]

MAWA = ((55.2-(17.5*.25)) (0.62) (0.45 X 5,043) +(1-0.45 x 5,043)

MAXIMUM APPLIED WATER ALLOWANCE = 158,912.49 GALLONS PER YEAR

SECTION B.2 - ESTIMATED TOTAL WATER USE (ETWU)

Estimated Total Water Use Equation: ETWU = (Eto-Eppt) x (0.62) x [(PF /IE)(LA) + SLA]

HYDROZONE	PLANT USE WATER TYPE	PLANT FACTOR (PF)	AREA (SQ. FT.)	PF X HA (SQ. FT.)
I	LOW	0.3	4,788	1,436
II	MEDIUM	0.5	255	128
		(PF X HA) =		1,564 SF

ETWU = (55.2-(17.5*.25)) (0.62) (((0.4/0.75) 7,511)) +7,511

ESTIMATED TOTAL WATER USE = 89,796.33 GALLONS PER YEAR

The ETWU is less than MAWA. The water budget complies with the MAWA

MARK THOMAS

5 ID-1 MAWA & ETWU CALCULATIONS

N.T.S.

NOT FOR CONSTRUCTION

ID-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297–B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297–B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

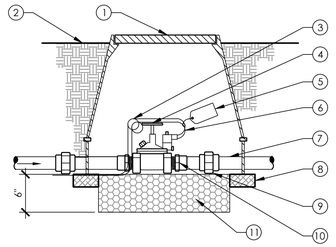
DRAWN BY: M. LAM & Z. SOLORZA — DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ — DATE NOVEMBER 2025
CHECKED BY: E. SMITH — R.L.A. 4585 — DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585 EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO IRRIGATION DETAILS

T15136000

SHEET 220 — OF — 648



KEY:

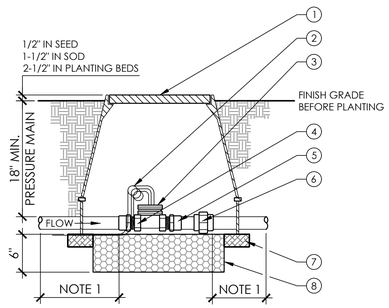
1. PURPLE MASTER VALVE BOX WITH BOLT DOWN COVER AND BOX EXTENSION IF REQUIRED. REFER TO SPECIFICATIONS.
2. FLUSH IN PAVED AREAS, 2" IN PLANTING BEDS.
3. PIG TAIL EXPANSION LOOP, MINIMUM 18".
4. ELECTRIC CONTROL VALVE WITH PURPLE HANDLE COVER.
5. PURPLE VALVE IDENTIFICATION TAG.
6. CONTROL AND COMMON WIRES
7. LATERAL LINE, PURPLE IN COLOR, ANGLE TO 12" MINIMUM DEPTH AS REQUIRED.
8. STANDARD BRICK, TYP. FOUR (4) PLACES.
9. SCH 80 PVC UNION DOWNSTREAM OF VALVE
10. SCH 40 PVC MALE ADAPTER, TYP. TWO (2) PLACES.
11. PEA GRAVEL.

NOTES:

1. INSTALL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
3. PLACE PURPLE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. INSTALL PURPLE VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH ADJACENT HARDSCAPE.
5. PLACE PEA GRAVEL PRIOR TO INSTALLATION OF PURPLE VALVE BOX.
6. BALL VALVE AND FITTINGS SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.
7. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

1 ID-2 MASTER VALVE

N.T.S.



KEY:

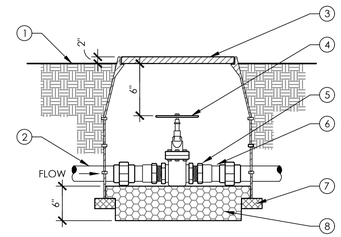
1. PURPLE VALVE BOX AND BOLT DOWN COVER, AND BOX EXTENSION IS REQUIRED. REFER TO SPECIFICATIONS. LABEL BOX WITH FS
2. PIG TAIL EXPANSION LOOP, 18" MINIMUM.
3. FLOW SENSOR USE WITH PULSE PUTPUT TRANSMITTER OR FLOW MONITOR. SEE IRRIGATION LEGEND AND SPECIFICATIONS.
4. COMMUNICATIONS CABLE. RETURN TO CONTROLLER WITHIN 1" GRAY SCHEDULE 40 PVC CONDUIT.
5. SCH 40 PVC MALE ADAPTOR, TYP. TWO (2) PLACES.
6. SCH 80 PVC UNION DOWNSTREAM OF VALVE.
7. BRICK, TYP. THREE (3) PLACES.
8. PEA GRAVEL.

NOTES:

1. REDUCE BENDS, FITTINGS, ETC., FOR DISTANCE EQUAL TO 10X DIAMETER OF PIPE. SIMILAR ON BOTH SIDES OF FLOW SENSOR.
2. INSTALL FLOW SENSOR A MINIMUM OF 12" FROM STRUCTURES OF HARDSCAPING.
3. INSTALL FLOW SENSOR IN PLANTING BEDS WHEREVER POSSIBLE.
4. PLACE PURPLE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
5. INSTALL PURPLE VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH ADJACENT HARDSCAPE.
6. PLACE PEA GRAVEL PRIOR TO INSTALLATION OF PURPLE VALVE BOX.
7. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

2 ID-2 FLOW SENSOR

N.T.S.



KEY:

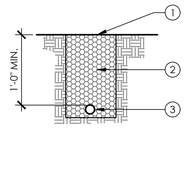
1. FINISH GRADE.
2. MAINLINE. PURPLE IN COLOR.
3. PURPLE VALVE BOX AND LOCKING COVER, W/ BOX EXTENSIONS AS REQUIRED. REFER TO SPECIFICATIONS. BOX WILL HAVE THE LABEL "GV" AND "#' ASSIGNED TO COVER.
4. GATE VALVE, SEE IRRIGATION LEGEND.
5. SCH 40 PVC MALE ADAPTOR, FIPTXSLIP, TYP. (2) PLACES.
6. SCH 80 PVC UNION DOWNSTREAM OF VALVE.
7. BRICK, TYP. THREE (3) PLACES.
8. PEA GRAVEL.

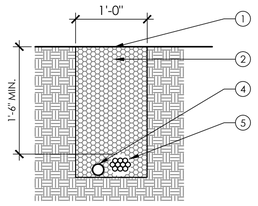
NOTES:

1. INSTALL GATE VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL GATE VALVES IN PLANTING AREAS WHEREVER POSSIBLE.
3. USE TEFLON TAPEON ALL THREADED FITTINGS.
4. PLACE PEA GRAVEL PRIOR TO INSTALLATION OF PURPLE VALVE BOX.
5. FINISH GRADE BEFORE PLANTING.
6. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

3 ID-2 GATE VALVE

N.T.S.





KEY:

1. FINISH GRADE.
2. CLEAN BACKFILL COMPACTED TO 85%. SEE SPECS.
3. LATERAL LINE. PURPLE IN COLOR.
4. MAINLINE. PURPLE IN COLOR.
5. CONTROL WIRE ADJACENT TO MAINLINE. SEE SPECS.

NOTES:

1. ALL MAINLINE AND LATERAL PIPE TO BE PURPLE IN COLOR.
2. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

4 ID-2 PIPE TRENCHING

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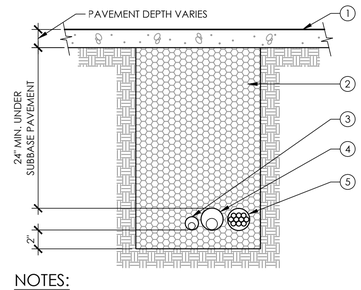


KEY:

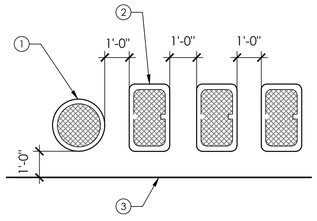
1. FINISH GRADE OF ASPHALT PAVING, CONCRETE OR OTHER IMPERVIOUS MATERIALS. SEE CIVIL.
2. CLEAN BACKFILL COMPACTED TO 95% UNDER PAVING. SEE SPECS.
3. NON PRESSURE LATERAL LINE SLEEVE REQ. UNDER PAVING (TWICE THE DIA. OF LATERAL LINE).
4. MAINLINE SLEEVE REQUIRED. UNDER PAVING (TWICE THE DIAMETER. OF PRESSURE MAIN LINE).
5. CONTROL WIRE CONDUIT UNDER PAVING. SIZE AS REQUIRED. INSTALL ADJACENT TO PRESSURE MAIN LINE.

NOTES:

1. ALL SLEEVES TO BE SCH 40 PVC
2. ALL MAINLINE AND LATERAL PIPE TO BE PURPLE IN COLOR.
3. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS, CAP ENDS AND FLAG LOCATIONS.
4. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

5 ID-2 PIPE TRENCHING - UNDER PAVEMENT

N.T.S.



KEY:

1. CIRCULAR PURPLE VALVE BOX.
2. JUMBO RECTANGULAR PURPLE VALVE BOX.
3. EDGE OF PLANTER.

NOTES:

1. CENTER PURPLE BRAND/LABELED VALVE BOX OVER VALVE.
2. PLACE REMOTE CONTROL VALVE ASSEMBLY SHRUB/GROUNDCOVER AREA WHENEVER POSSIBLE. INSTALL IN TURF AREA ONLY IF SHRUB/GROUNDCOVER AREA DOES NOT EXIST ADJACENT TO LAWN.
3. SET PURPLE VALVE BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF PLANTER. SET ALL GROUPINGS OF VALVE BOXES LEVEL WITH EACH OTHER OR AT THE SAME HEIGHT ABOVE GRADE.

6 ID-2 VALVE BOX LAYOUT

N.T.S.

NOT FOR CONSTRUCTION

ID-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025

DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025

CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

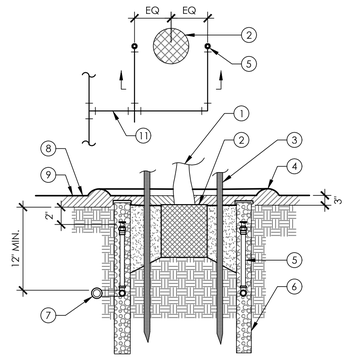
MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO IRRIGATION DETAILS

T15136000

SHEET 221 — OF — 648

PLAN VIEW



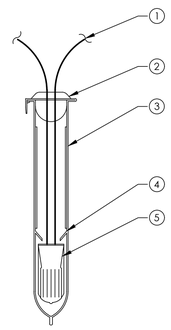
KEY:

1. REFER TO TREE PLANTING DETAIL FOR OTHER REQUIREMENTS.
2. ROOTBALL.
3. TREE STAKES.
4. WATER RETENTION BERM.
5. DEEP WATER BUBBLER ASSEMBLY, WITH PURPLE CAP, SEE IRRIGATION LEGEND FOR MANUFACTURER AND MODEL NUMBER. INSTALL TWO PER TREE.
6. PEA GRAVEL 1/2" DIA.
7. PVC LATERAL, PURPLE IN COLOR, TYP.
8. MULCH LAYER.
9. FINISH GRADE.

NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.
2. FOR TREE PLANTING SEE 'TREE PLANTING' DETAIL.

1 ID-3 TREE BUBBLER — N.T.S.



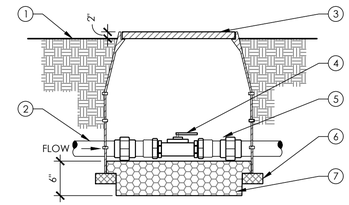
KEY:

1. LOW VOLTAGE WIRES, 3 MAXIMUM. CONTINUATION SHOWN TO 18" MINIMUM. PIGTAIL EXPANSION LOOP
2. WIRES PASS THROUGH GROOVES IN TUBE LID TO ALLOW LID TO CLOSE TUBE LID AFTER WIRE IS INSERTED INTO TUBE.
3. POLYPROPYLENE TUBE.
4. LOCK TABS PREVENT WIRE REMOVAL ONCE CONNECTOR IS INSERTED
5. SCOTCHLOK ELECTRICAL SPRING CONNECTOR. WIRE INSULATION SHALL BE PRE-STRIPPED 1/2" PRIOR TO INSERTION INTO THE CONNECTOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY. SCOTCHLOK CONNECTOR AND WIRES SHALL BE INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS

NOTES:

1. WIRE CONNECTOR SHALL BE A 3M DBR-Y/6 DIRECT BURY SPLICE KIT OR APPROVED EQUAL.
2. KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.
3. DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT TWO (2) OR THREE (3) #14 OR TWO (2) #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

2 ID-3 WIRE CONNECTOR — N.T.S.



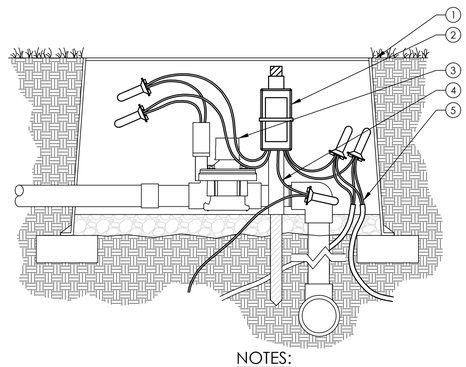
NOTES:

1. INSTALL BALL VALVE TO A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL BALL VALVE IN PLANTING AREAS WHEREVER POSSIBLE.
3. PLACE 3/4" DIAMETER DRAIN ROCK PRIOR TO INSTALLATION OF VALVE BOX.
4. FINISH GRADE BEFORE PLANTING.
5. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

KEY:

1. FINISH GRADE.
2. MAINLINE.
3. VALVE BOX AND LOCKING COVER, W/ BOX EXTENSIONS AS REQUIRED. SEE SPECS.
4. BALL VALVE, SEE IRRIGATION LEGEND.
5. SCH 80 PVC UNION DOWNSTREAM OF VALVE.
6. BRICK, TYP. THREE (3) PLACES.
7. 3/4" DIA. DRAIN ROCK (NOT TO EXCEED BOTTOM OF VALVE).

3 ID-3 BALL VALVE — N.T.S.



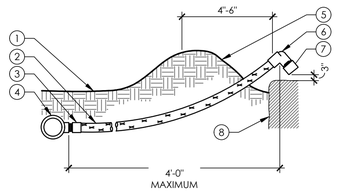
KEY:

1. FINISH GRADE.
2. DECODER PER PLAN.
3. VALVE PER PLAN.
4. 5/8" X 8' GROUNDING ROD
5. JACKETED INTO IRRIGATION DESIGN WIRE PATH

NOTES:

1. EARTH GROUND TO BE A MINIMUM OF 8' AWAY AND TO BE INSTALLED AT A RIGHT ANGLE TO THE TWO WIRE PATH

4 ID-3 DECODER — N.T.S.



KEY:

1. FINISH GRADE.
2. FLEXIBLE HOSE, MIN. 12" BURIAL.
3. PLASTIC ADAPTER EACH END.
4. LATERAL LINE, SEE PLANS.
5. WATER RETENTION BERM.
6. SCH. 40 PCV 90° ELL.
7. BUBBLER.
8. ROOT BALL.

5 ID-3 SHRUB BUBBLER — N.T.S.

PRESSURE LOSS CALCULATION WORKSHEET

Date:	10/14/2025		
Project Name:	I-Street Bridge WSAC		
Project #:	X		
Location:	C Street and 3rd street		
Water Purveyor:	Public Works Department		
Contact Name:	Lorianne Landsaw (To be updated)		
Contact Phone:	916 617-4579		
Contact Email:	loriannel@cityofwestsacramento.org		
Date Contacted:	X		
Highest Remote Control Valve	Station #A-13	13.25 GPM	

STATIC PRESSURE	55
DYNAMIC PRESSURE	0

POC EQUIPMENT	**PRODUCT**	**SIZE**	**CALCULATIONS**			**TOTAL**
Irrigation Water Meter	Sensus Compound	1"				1.0
Backflow Prevention Device	Wilkins 975XL2	1"				12.0
Master Valve	Superior 3300	1.5"				0.5
Flow Sensor	GTFSV-150P	1.5"				0.0
Gate Valve	Nibco T-113	1.5"				0.0
PIPE						
			Linear Feet	Loss/100'	Subtotal	
Supply line	Polyethelene	1.5"	57	0.63	0.3591	
Mainline	Class 315	2.5"	0	0	0	
Mainline	Class 315	2"	205	0.19	0.3895	
Mainline	Class 315	1.5"	0	0.58	0	
Lateral line	Sch 40	2"	0	0.17	0	
Lateral line	Sch 40	1.5"	152	0.59	0.8968	
Lateral line	Sch 40	1"	80	4.91	3.928	
Lateral line	Sch 40	3/4"	0	0	0	
						5.6
REMOTE CONTROL VALVE						
Station #A-13	Hunter ICV	1.5"		13.25 GPM		0.0
ELEVATION CHANGE						**TOTAL**
			Change	Multiplier	Subtotal	
Decrease in Elevation			0	-0.43	0	0.0
Increase in Elevation			5	0.43	2.15	2.2
SUBTOTAL						21.2
20% Miscellaneous Pressure Loss						4.2
Pressure Required at Sprinkler						20
TOTAL PRESSURE LOSS						45.5
REMAINING PRESSURE						9.5

6 ID-3 PRESSURE CALCS — N.T.S.

NOT FOR CONSTRUCTION

ID-3

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025
CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
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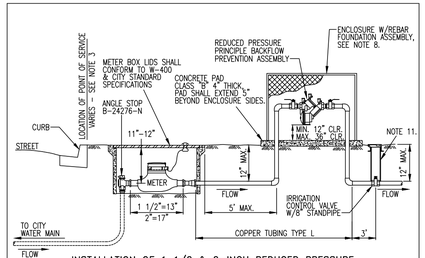
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO IRRIGATION DETAILS

T15136000

SHEET 222 — OF — 648



INSTALLATION OF 1 1/2 & 2-INCH REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY /WATER METER ON ALL CITY IRRIGATION SYSTEMS OWNED BY THE CITY.

NOTES:

1. INSTALLATION AND TESTING SHALL BE IN ACCORDANCE WITH THE CURRENT CROSS CONNECTION CONTROL POLICY.
2. REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLIES SHALL BE CONNECTED TO CITY WATER AND TESTED PRIOR TO BEING PLACED INTO SERVICE.
3. POINT OF SERVICE:
   A. POINT OF SERVICE IS THE BACK OF CURB FOR ALL CITY STREETS WITH PLANTER STRIPS.
   B. POINT OF SERVICE IS THE BACK OF SIDEWALK FOR STREETS WITH SIDEWALK CONTIGUOUS WITH CURB AND GUTTER.
   C. POINT OF SERVICE IS THE RIGHT-OF-WAY LINE ON ALL ALLEYS AND UNIMPROVED STREETS.
   D. WHERE THE POINT OF SERVICE IS UNCLEAR THE LOCATION SHALL BE DETERMINED BY THE CROSS CONNECTION CONTROL SPECIALIST.
4. LISTS OF APPROVED BACKFLOW PREVENTION ASSEMBLIES AND CERTIFIED BACKFLOW PREVENTION ASSEMBLY TESTERS ARE AVAILABLE AT THE DEPARTMENT OF UTILITIES CUSTOMER SERVICE COUNTER LOCATED AT 1395 35TH AVE.
5. THE BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED ABOVE GROUND, IN A HORIZONTAL AND LEVEL POSITION. THE ASSEMBLY SHALL BE LOCATED ON THE CUSTOMER'S SIDE AND NO FURTHER THAN FIVE (5) FEET FROM THE POINT OF SERVICE OR THE METER.
6. OUTLETS, TAPS, TEES, OR CONNECTIONS BETWEEN THE WATER MAIN AND BACKFLOW PREVENTER ARE NOT ALLOWED.
7. FREEZE BAGS ARE REQUIRED ON ALL CITY MAINTAINED ASSEMBLIES.
8. CONCRETE PAD AND PROTECTIVE ENCLOSURE REQUIRED FOR ALL CITY MAINTAINED ASSEMBLIES. ENCLOSURE SHALL BE PLACER WATERWORKS PW/E1AW-M (W18"xL40"xH30") OR EQUAL. FINISH SHALL BE POWDER COATED HUNTER GREEN.
9. IF PROTECTIVE ENCLOSURE IS REQUIRED, DEPARTMENT OF UTILITIES LOCK(S) SHALL BE INSTALLED.
10. 6 MIL POLYETHYLENE WRAP WITH 10 MIL TAPE IS REQUIRED FOR ALL UNDERGROUND COPPER TUBING.
11. PLACE BLOCKS UNDER STAND PIPE SO SUPPORTED CLEAR OF HORIZ PIPE. STAND PIPE TO BE 8" SDR 35 WITH 910 CARSON VALVE BOX GREY IN COLOR WITH (WATER) LETTERING ON THE LID, OR APPROVED EQUAL.

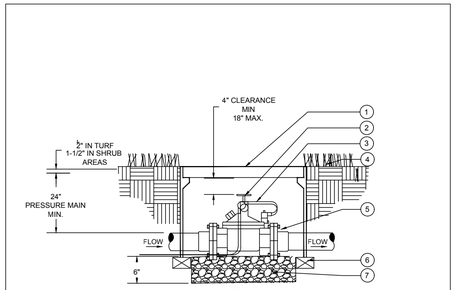
REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO DEPARTMENT OF UTILITIES	2-INCH & SMALLER RP ASSEMBLY W/METER ON ALL CITY IRRIGATION SYSTEMS	APPR'D BY:	NO SCALE
		DATE: SEPT 6, 2017	DWG. NO. W-606

I:\Utilities_Live_2\2_Details\Water_Utilities\W-606

1 ID-4 WATER METER AND REDUCED PRESSURE BACKFLOW ASSEMBLY

N.T.S.



SECTION

CALLOUTS

1. CONCRETE UTILITY BOX (12" X 20") WITH BOLT DOWN CAST IRON LID. BOX EXTENSION IF REQUIRED.
2. MASTER CONTROL VALVE
3. CONTROL AND COMMON WIRES EXPANSION LOOP (18" MIN.)
4. FINISH GRADE
5. SCH 40 PVC FLANGES, (2) PLACES TYP.
6. BRICK, MINIMUM (2) PER BOX, TYP.
7. 3/4" DIAMETER DRAIN ROCK

NOTES

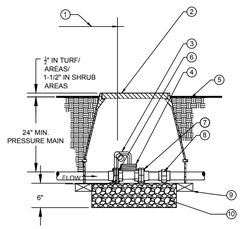
1. INSTALL FLOW SENSOR A MINIMUM OF 12" FROM ANY STRUCTURES OR HARDSCAPE.
2. INSTALL FLOW SENSOR IN PLANTING BEDS WHEREVER POSSIBLE
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPES.
4. INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH FINISH GRADE OF ADJACENT HARDSCAPING.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO Department of Youth, Parks and Community Enrichment	SINGLE MASTER VALVE	L-101

2 ID-4 MASTER VALVE

N.T.S.



CALLOUTS

1. REDUCE BENDS, FITTINGS, ETC. FOR A DISTANCE EQUAL TO 10X THE DIA. OF THE PIPE. SIMILAR ON BOTH SIDES OF SENSOR
2. PRE-CAST CONCRETE VALVE BOX WITH BOLT DOWN COVER AND BOX EXTENSION IF REQUIRED. REFER TO SPECIFICATIONS.
3. PIGTAIL EXPANSION LOOP (18" MIN. LOOP)
4. FLOW SENSOR
5. FINISH GRADE
6. COMMUNICATION CABLE. RETURN TO CONTROLLER IN 1" GREY SCH. 40 PVC CONDUIT
7. SCH. 80 PVC FLANGES TYP. (2) PLACE
8. SCH. 80 PVC UNION DOWNSTREAM OF VALVE
9. BRICK OR CINDER BLOCK TYP. (2) PLACES
10. PLACE 3/4" DIA DRAIN ROCK AT BASE OF VALVE BOX PRIOR TO INSTALLATION.

NOTES:

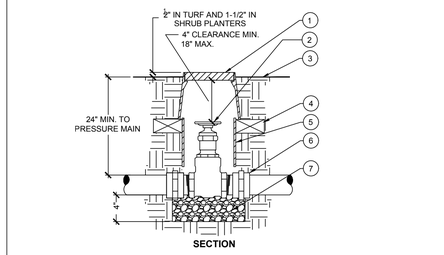
1. INSTALL FLOW SENSOR A MINIMUM OF 12" FROM ANY STRUCTURES OR HARDSCAPE.
2. INSTALL FLOW SENSOR IN PLANTING BEDS WHEREVER POSSIBLE
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPES.
4. INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH FINISH GRADE OF ADJACENT HARDSCAPING.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO Department of Youth, Parks and Community Enrichment	SINGLE FLOW SENSOR	L-100

3 ID-4 FLOW SENSOR ASSEMBLY

N.T.S.



SECTION

CALLOUTS

1. 10" ROUND CONCRETE VALVE BOX AND COVER LABELED WATER, W/ BOX EXTENSIONS AS REQUIRED.
2. GATE VALVE BRONZE OR CAST IRON HANDWHEEL. SEE PLANS AND SPECIFICATIONS FOR MANUFACTURER AND MODEL NUMBER.
3. FINISH GRADE
4. BRICK, TYPICAL. (2) PLACES.
5. 10" DIAMETER SCHEDULE 40 PVC.
6. SCHEDULE 80 PVC UNION, TYPICAL. (2) PLACES.
7. 3/4" DIA. DRAINAGE ROCK

NOTES

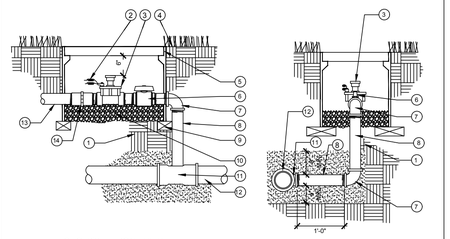
1. INSTALL GATE VALVES A MINIMUM OF 24" FROM STRUCTURES OR HARDSCAPE.
2. INSTALL GATE VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
3. DOMESTIC GATE VALVES SHALL BE LEAD FREE ONLY.
4. VALVE SIZE SHALL BE EQUAL WITH THE MAINLINE SIZE UNLESS LABELED OTHERWISE.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO Department of Youth, Parks and Community Enrichment	IRRIGATION GATE VALVE 3" AND SMALLER	L-102

4 ID-4 GATE VALVE

N.T.S.



SECTION - FRONT VIEW

SECTION - SIDE VIEW

CALLOUTS:

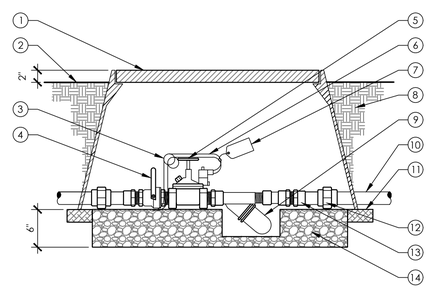
1. SOIL IN IRRIGATION MAIN AND LATERAL LINES SHALL BE COMPACTED IN 6" LIFT WITH EACH LIFT COMPACTED TO 85% R.D. IN LANDSCAPED AREAS AND 95% R.D. IN PAVING AREAS.
2. VALVE CONTROL WIRE PROVIDE "3M DBY" SEAL PACKS AT ALL SPLICES & 36" OF EXCESS UF WIRE IN A 1" DIA. COIL.
3. REMOTE CONTROL VALVE.
4. FINISH GRADE.
5. 13" X 20" JUMBO RECTANGULAR LOCKING VALVE BOX.
6. FULL PORT 3-TURN PVC BALL VALVE.
7. SCH. 80 PVC 90 DEGREE ELL.
8. SCH. 80 PVC NIPPLE.
9. BRICK - TYP (4) PER BOX
10. 3/4" DIA. DRAIN ROCK
11. SCH. 80 PVC TEE.
12. PVC MAIN LINE.
13. IRRIGATION SUPPLY LINE.
14. SCH. 40 UNION.

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO Department of Youth, Parks and Community Enrichment	REMOTE CONTROL VALVE	L-105

5 ID-4 REMOTE CONTROL VALVE ASSEMBLY

N.T.S.



KEY:

1. VALVE BOX WITH BOLT DOWN COVER AND BOX EXTENSIONS AS REQUIRED. REFER TO SPECIFICATIONS.
2. FLUSH IN PAVED AREAS, 2" IN PLANTING BEDS.
3. PIG TAIL EXPANSION LOOP, 18" MINIMUM.
4. BALL VALVE. SEE IRRIGATION LEGEND FOR MANUFACTURER AND MODEL NUMBER.
5. ELECTRIC CONTROL VALVE.
6. CONTROL AND COMMON WIRES.
7. VALVE IDENTIFICATION TAG, REFER TO SPECIFICATIONS.
8. FINISHED GRADE.
9. DRIP FILTER.
10. LATERAL LINE, ANGLE TO 12" MINIMUM DEPTH AS REQUIRED.
11. STANDARD BRICK , TYP. FOUR (4).
12. SCH 80 PVC UNION DOWNSTREAM OF VALVE.
13. SCH 40 PVC ADAPTER, TYP.
14. 3/4" DIAMETER DRAIN ROCK BELOW VALVE.

NOTES:

1. INSTALL VALVES A MINIMUM OF 1' - 0" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. INSTALL VALVE BOX SO THAT TOP OF VALVE BOX IS FLUSH WITH ADJACENT HARDSCAPING.
5. PLACE DRAIN ROCK PRIOR TO INSTALLATION OF VALVE BOX.
6. BALL VALVE & FITTINGS SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.
7. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

6 ID-4 DRIP REMOTE CONTROL VALVE ASSEMBLY

N.T.S.

NOT FOR CONSTRUCTION

ID-4

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

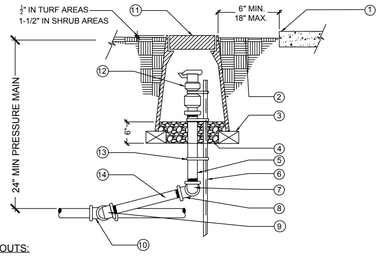
DRAWN BY: M. LAM & Z. SOLORZA DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ DATE NOVEMBER 2025
CHECKED BY: E. SMITH R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585 EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO IRRIGATION DETAILS

T15136000

SHEET 223 — OF — 648



CALLOUTS:

1. STRUCTURE OR PAVING
2. FINISH GRADE BEFORE PLANTING.
3. BRICK SUPPORT, TYPICAL (2) PLACES.
4. 3/4" DIA. DRAIN ROCK.
5. SCHEDULE 80 PVC THREADED NIPPLE, 12" LONG.
6. #5 REBAR ANGLE IRON, 36" LONG.
7. SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
8. SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
9. SCHEDULE 80 PVC 90 DEGREES 127 ELL (FIPTxMIPT).
10. SCHEDULE 80 PVC TEE (SLIPxSLIPxFIPT).
11. 10" ROUND PLASTIC VALVE BOX WITH LOCKING COVER.
12. QUICK COUPLING VALVE, SEE PLANS OR SPECS FOR MANUFACTURER AND MODEL NUMBER.
13. STAINLESS STEEL HOSE CLAMPS, MINIMUM OF (3) PLACES.
14. SCHEDULE 80 PVC THREADED NIPPLE, 12" LONG.

NOTES:

1. INSTALL QUICK COUPLING VALVES IN PLANTING BEDS WHEREVER POSSIBLE.
2. SEE PLAN & SPECIFICATIONS FOR MORE INFORMATION.
3. SIZE OF ASSEMBLY TO BE EQUAL TO THE FIPT OF THE QUICK COUPLER.

REV.	DATE	DESCRIPTION

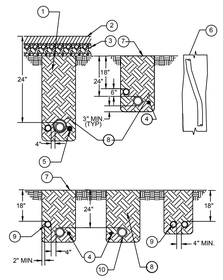
CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

QUICK COUPLER

L-104

1 ID-5 QUICK COUPLING VALVE ASSEMBLY

N.T.S.



KEYNOTES

1. 6" COMPACTED LIFTS 95% R.D. IN PAVING AREAS
2. HARDSCAPE MATERIAL
3. BASE MATERIAL
4. IRRIGATION CONTROL WIRES
5. IRRIGATION CONTROL WIRES IN CONDUIT UNDER PAVED AREAS
6. SNAKE ALL PIPES IN TRENCHING
7. FINISH GRADE
8. EXCAVATED FILL COMPACTED IN 6" LIFTS AT 85% R.D. IN LANDSCAPE AREAS AND 95% R.D. IN PAVING AREAS
9. LATERAL PIPE (TYP)
10. IRRIGATION MAINLINE (TYP)

REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

TRENCH

L-106

2 ID-5 TRENCH AND BACKFILLING

N.T.S.

PRESSURE LOSS CALCULATION WORKSHEET

Date:	10/14/2025
Project Name:	I-Street Bridge SAC
Project #:	SA-14108
Location:	Sacramento
Water Purveyor:	X
Contact Name:	X
Contact Phone:	X
Contact Email:	X
Date Contacted:	X

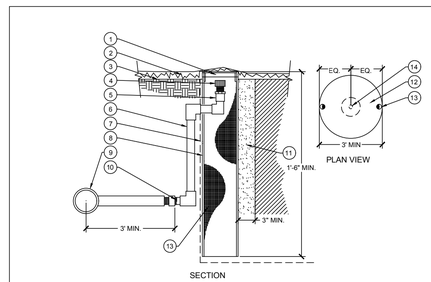
Highest Remote Control Valve	Station #B-12	12.46 GPM	
Highest Remote Control Valve			

STATIC PRESSURE	41
DYNAMIC PRESSURE	0

POC EQUIPMENT	PRODUCT	SIZE	CALCULATIONS			TOTAL
Irrigation Water Meter	Sensus Compound	1"				1.0
Backflow Prevention Device	Wilkins 975-XL2	1"				12.0
Master Valve	Superior 3300	1.5"				0.5
Flow Sensor	GTF SV-150P	1"				0.0
Gate Valve	Nibco T-113	1.5"				0.0
PIPE						
			Linear Feet	Loss/100'	Subtotal	
Supply line	Type K Copper	1.5"	40	0.95	0.38	
Mainline	Sch 40	2.5"	0	0	0	
Mainline	Class 315	2"	496	0.19	0.9424	
Mainline	Sch 40	1.5"	0	0	0	
Lateral line	Sch 40	2"	0	0.11	0	
Lateral line	Sch 40	1.5"	0	0.32	0	
Lateral line	Sch 40	1"	0	3.14	0	
Lateral line	Sch 40	3/4"	0	0	0	
						1.3
REMOTE CONTROL VALVE						
Station #B-12	Rainbird XCZPRB	1.5"		12.46 GPM		0.0
0	Rainbird PEB	1.5"		0		0.0
ELEVATION CHANGE						TOTAL
			Change	Multiplier	Subtotal	
Decrease in Elevation			7	-0.43	-3.01	-3.0
Increase in Elevation			10	0.43	4.3	4.3
SUBTOTAL						16.1
20% Miscellaneous Pressure Loss						3.2
Pressure Required at Sprinkler						20
TOTAL PRESSURE LOSS						39.3
REMAINING PRESSURE						1.7

3 ID-5 PRESSURE CALCS

N.T.S.



CALLOUTS

1. GRATED CAP
2. BARK MULCH.
3. FINISH GRADE.
4. BUBBLER HEAD.
5. CHECK VALVE (T X T)
6. SWING JOINT
7. TREE PIT WALL BUBBLER SLEEVE
8. PVC SCHEDULE 40 TEE (SXSXT) OR 90 DEGREE ELL (SXT), CONNECTED TO IRRIGATION LATERAL.
9. IRRIGATION LATERAL LINE
10. 1/2" PVC SCHEDULE 40 MALE ADAPTER.
11. ROOTBALL.
12. WATER BASIN
13. TREE BUBBLER (TWO PER TREE)
14. TREE TRUNK

REV.	DATE	DESCRIPTION

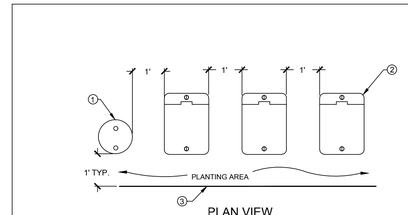
CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

TREE BUBBLER

L-111

4 ID-5 TREE BUBBLER

N.T.S.



PLAN VIEW

CALLOUTS

1. 10" ROUND LOCKING VALVE BOX
2. 13" X 20" JUMBO RECTANGLE LOCKING VALVE BOX
3. EDGE OF STRUCTURE, HARDSCAPE, ETC.

NOTES

1. CENTER BOXES OVER VALVES.
2. INSTALL BOXES IN PLANTER BED WHEREVER POSSIBLE.
3. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
4. AVOID EXCESSIVE COMPACTION SOIL AROUND BOXES TO PREVENT DAMAGING VALVE BOXES.

REV.	DATE	DESCRIPTION

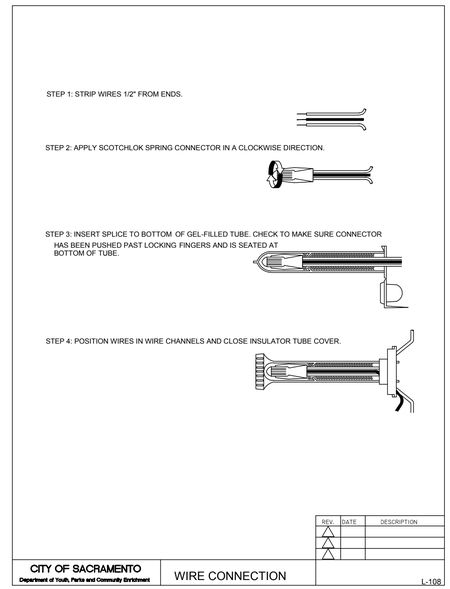
CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

VALVE BOX

L-107

5 ID-5 VALVE BOX

N.T.S.



REV.	DATE	DESCRIPTION

CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

WIRE CONNECTION

L-108

6 ID-5 WIRE CONNECTION

N.T.S.

NOT FOR CONSTRUCTION

ID-5

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

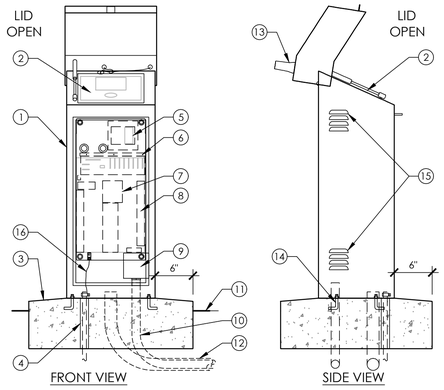
DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025
CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO
IRRIGATION DETAILS

T15136000

SHEET 224 OF 648



KEY:

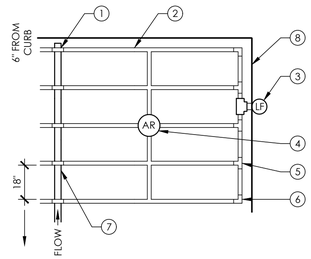
1. STAINLESS STEEL ENCLOSURE
2. SECURE IRRIGATION CONTROLLER TO A VANDAL RESISTANT ENCLOSURE AND SECURE ENCLOSURE TO A CONCRETE PAD. SEE IRRIGATION LEGEND FOR MANUFACTURER AND MODEL NUMBER OF CONTROLLER AND ENCLOSURE.
3. CONCRETE PAD - INSTALL ABOVE GRADE, AND SLOPE TOP TO DRAIN AT A MINIMUM OF 2% WITH A 6-INCH MINIMUM THICKNESS.
4. PVC SLEEVE WITH $\frac{3}{8}$" COPPER GROUND ROD INSIDE
5. GFI OUTLET & SWITCH
6. PLASTIC SHIELD FOR STATION/OPTION CARDS
7. OPTIONAL TWO-WIRE TERMINAL
8. CONVENTIONAL WIRED STATION AND OPTION TERMINALS
9. 120 VAC JUNCTION BOX (INCLUDED WITH ENCLOSURE)
10. SCH 40 PVC ELECTRICAL SWEEP FOR 120 VAC POWER
11. FINISHED GRADE
12. SCH 40 PVC ELECTRICAL SWEEP FOR FIELD WIRES, EXTEND 6" BEYOND EDGE OF CONCRETE PAD.
13. OPTIONAL STUBBY ANTENNA(S)
14. MOUNTING J-BOLT (4 TYP)
15. LOUVERED VENTS
16. #6 BARE COPPER GROUND WIRE

NOTES:

1. ALLOW MINIMUM OF 7 $\frac{1}{2}$" OF CLEARANCE BEHIND ENCLOSURE FOR FULLY OPENED LID
2. 120 VAC POWER AND GROUNDING PER NATIONAL AND LOCAL ELECTRICAL CODES.
3. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

1 ID-6 IRRIGATION CONTROLLER

N.T.S.



KEY:

1. PVC TO DRIP LINE CONNECTION POINT (CENTER FEED SHOWN)
2. DRIP LINE (BURIED 4") WITH EMITTERS. SEE LEGEND.
3. AUTOMATIC FLUSH VALVE, TYP.
4. AIR RELIEF VALVE AT HIGHEST POINT
5. BARBED TEE, TYP.
6. BARBED ELL, TYP.
7. PVC LATERAL
8. PERIMETER/EDGE OF PLANTING AREA

NOTES:

1. SPACING BETWEEN ROWS VARIES IN SLOPED CONDITIONS. REFER TO DRIP NOTES.
2. LOCATE AN AIR-RELIEF VALVE AT THE HIGH POINT OF EACH SYSTEM WITHIN A PLASTIC BOX.
3. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

2 ID-6 SUBSURFACE INLINE DRIP SYSTEM

N.T.S.

WATER EFFICIENT LANDSCAPE WORKSHEET

Project: I-Street Bridge Sacramento

Date: 10/14/2025

ETo of location (inches/ year): 55.2

SECTION A - HYDROZONE INFORMATION TABLE

HYDROZONE	VALVES	IRRIGATION METHOD	AREA (SQ. FT.)	% OF LANDSCAPE AREA
I	B-1, B-3, B-5, B-7 to B-12	Drip Irrigaiton	14,607	96.5%
II	B-2, B-4, B-6, B-13, and B-14	Tree Bubblers	525	3.5%
		TOTAL	15,132	100%

SECTION B.1 - MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

MAWA Equition: MAWA = (ETo) x (0.62) x [(0.7 x LA)+(0.3 x SLA)]

MAWA = (55.2) (0.62) (0.7 x15,132) + 0

MAXIMUM APPLIED WATER ALLOWANCE = 362,514.30 GALLONS PER YEAR

SECTION B.2 - ESTIMATED TOTAL WATER USE (ETWU)

Estimated Total Water Use Equation: ETWU = (ETo) x (0.62) x [(PF x HA/0.81) + SLA]

HYDROZONE	PLANT USE WATER TYPE	PLANT FACTOR (PF)	AREA (SQ. FT.)	PF X HA (SQ. FT.)
I	LOW	0.3	14,607	4,382
II	MEDIUM	0.5	525	263
		(PF X HA) =		4,645 SF

ETWU = (55.2) (0.62) (PF x HA) / 0.81

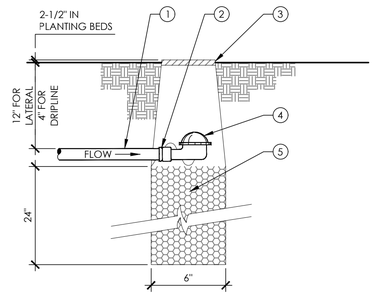
ESTIMATED TOTAL WATER USE = 196,242.95 GALLONS PER YEAR

The ETWU is less than MAWA. The water budget complies with the MAWA

MARK THOMAS

3 ID-6 MWELO MAWA & ETWU CALCULATIONS

N.T.S.



KEY:

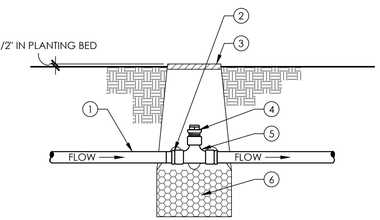
1. DRIP LINE OR PVC LATERAL.
2. ADAPTER FITTING AS REQUIRED.
3. PLASTIC VALVE BOX W/ COVER & EXTENSION IF REQUIRED.
4. AUTOMATIC FLUSH VALVE.
5. 3/4" DIA. DRAIN ROCK.

NOTES:

1. REFER TO IRRIGATION DETAIL FOR MORE INFORMATION.
2. PLACE 3" DRAIN ROCK PRIOR TO INSTALLATION OF VALVE BOX.
3. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.
4. DO NOT INSTALL IN PAVED AREAS.

4 ID-6 AUTOMATIC FLUSH VALVE

N.T.S.



KEY:

1. DRIP LINE OR PVC LATERAL.
2. ADAPTER FITTING AS REQUIRED.
3. PLASTIC VALVE BOX W/ COVER & EXTENSION IF REQUIRED.
4. AUTOMATIC AIR RELIEF VALVE.
5. 1/2" THREADED PVC TEE.
6. 3/4" DIAMETER DRAIN ROCK.

NOTES:

1. REFER TO IRRIGATION DETAIL FOR MORE INFO.
2. PLACE 3/4" DRAIN ROCK PRIOR TO INSTALLATION OF VALVE BOX.
3. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.
4. DO NOT INSTALL IN PAVED AREAS.

5 ID-6 AIR RELIEF VALVE

N.T.S.

NOT FOR CONSTRUCTION

ID-6

REVISIONS

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FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025

DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025

CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO IRRIGATION DETAILS

T15136000

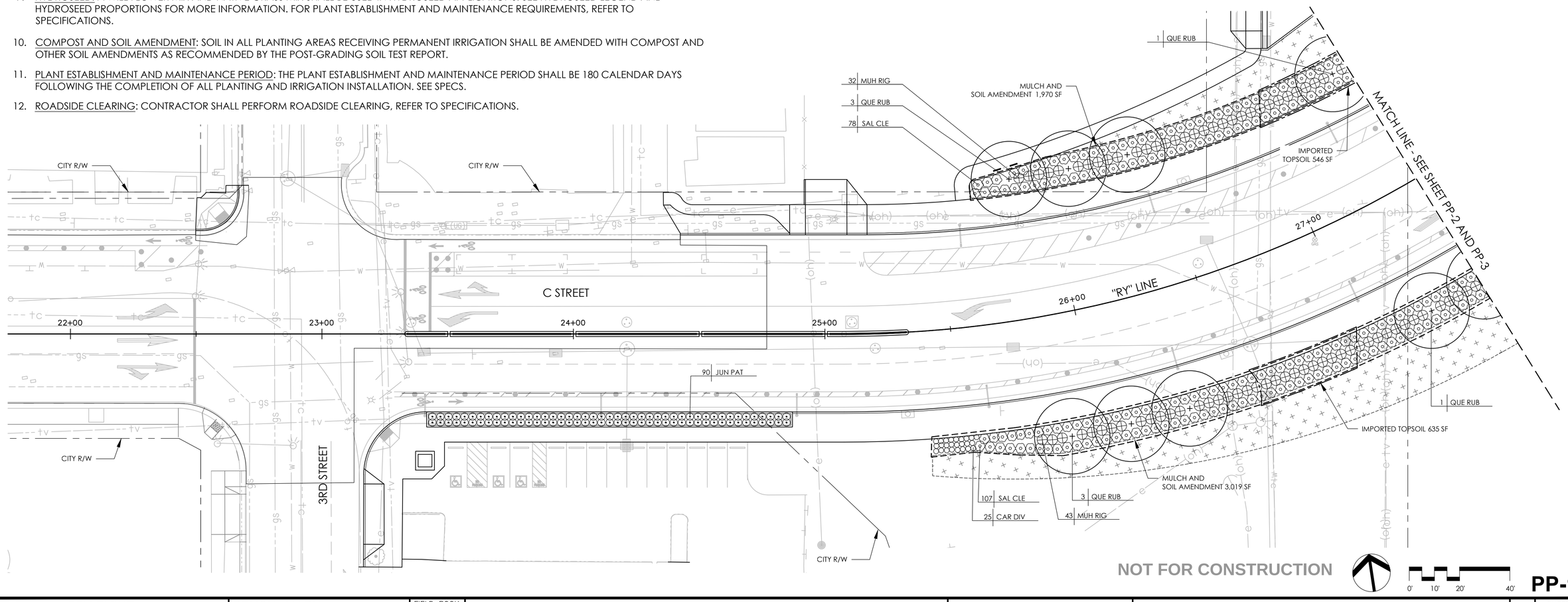
SHEET 225 — OF — 648

WEST SACRAMENTO PLANT NOTES

1. MULCH: INSTALL A UNIFORM THREE INCH COVERING, OF BARK MULCH, 1/4 INCH TO 3/4 INCH PARTICLE SIZE, IN ALL PLANTING AREAS, INCLUDING ALL EXISTING TREES TO REMAIN. MULCH SHOULD NOT TOUCH TRUNK OF TREES.
2. EXISTING PLANT MATERIAL: PROTECT ALL EXISTING PLANT MATERIAL TO REMAIN. SEE CIVIL PLANS. AVOID OR MINIMIZE SOIL DISTURBANCE WITHIN OR NEAR THE EXISTING TREES TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
3. GROUNDCOVER: PROVIDE GROUNDCOVER AT INDICATED ON-CENTER SPACING THROUGHOUT ALL PLANTING AREAS. GROUNDCOVER SHALL BE PROVIDED UP TO THE WATERING BASIN OF ALL TREES AND SHRUBS. INSTALL PER CITY OF WEST SACRAMENTO STANDARD DETAIL
4. IMPORTED TOPSOIL: CONTRACTOR SHALL EXCAVATE ALL DESIGNATED PLANTING AREAS BETWEEN ROADWAY CURB AND SIDEWALK TO A MINIMUM DEPTH OF 24". ALL EXISTING ROADWAY PAVEMENT AND AGGREGATE BASE SHALL BE REMOVED FROM THE PLANTING AREAS BEFORE INSTALLING AMENDED TOPSOIL. TOPSOIL SHALL BE INSTALLED 3" BELOW FINISH GRADE OF SURROUNDING HARDSCAPE TO ALLOW FOR 3" OF MULCH. REFER TO CITY OF WEST SACRAMENTO STANDARD DETAIL FOR SIMILAR APPLICATION.
5. SOILS TESTING: SEE SPECIFICATIONS FOR TESTING OF TOPSOIL AND AMENDMENTS. IN ADDITION, CONTRACTOR SHALL SUBMIT SAMPLES OF NATIVE TOPSOIL AND IMPORTED TOPSOIL THAT APPLIED TO PROPOSED PLANTING AREA, TO SUNLAND ANALYTICAL, (916) 852-8557, FOR CONTAMINATION TESTING. TESTING REQUIRES FOUR TO FIVE WEEKS. CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR TESTING PRIOR TO CONSTRUCTION.
6. ROOT BARRIERS: CONTRACTOR SHALL INSTALL LINEAR ROOT BARRIER PER PLANS. SEE TREE ROOT BARRIER DETAIL
7. CONTRACTOR SHALL NOT EXCAVATE SOIL WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN.
8. SHRUBS: SHRUBS SHALL NOT BE PLANTED WITHIN 3' MINIMUM OF NEWLY PLANTED TREES. A LAYER OF MULCH SHALL BE PLACED AROUND THE TREES AS NOTED ABOVE.
9. HYDROSEED: A WILDFLOWER MIX AND NATIVE GRASS MIX SHALL BE USED IN HYDROSEED APPLICATIONS. SEE HYDROSEED LEGEND AND HYDROSEED PROPORTIONS FOR MORE INFORMATION. FOR PLANT ESTABLISHMENT AND MAINTENANCE REQUIREMENTS, REFER TO SPECIFICATIONS.
10. COMPOST AND SOIL AMENDMENT: SOIL IN ALL PLANTING AREAS RECEIVING PERMANENT IRRIGATION SHALL BE AMENDED WITH COMPOST AND OTHER SOIL AMENDMENTS AS RECOMMENDED BY THE POST-GRADING SOIL TEST REPORT.
11. PLANT ESTABLISHMENT AND MAINTENANCE PERIOD: THE PLANT ESTABLISHMENT AND MAINTENANCE PERIOD SHALL BE 180 CALENDAR DAYS FOLLOWING THE COMPLETION OF ALL PLANTING AND IRRIGATION INSTALLATION. SEE SPECS.
12. ROADSIDE CLEARING: CONTRACTOR SHALL PERFORM ROADSIDE CLEARING, REFER TO SPECIFICATIONS.

WEST SACRAMENTO PLANT LEGEND

SYMBOL/ABBREV	BOTANICAL NAME	COMMON NAME	WATER USE	SIZE	SPACING	
TREE						
QUE RUB	QUERCUS RUBRA	RED OAK	M	24" BOX	AS SHOWN	1 PD-1, 4 PD-1
SHRUBS & GRASSES						
CAR DIV	CAREX DIVULSA	BERKELEY SEDGE	L	1 GAL	AS SHOWN	2 PD-1
SAL CLE	SALVIA CLEVELANDII 'ALLEN CHICKERING'	ALLEN CHICKERING SAGE	L	1 GAL	AS SHOWN	3 PD-1
MUH RIG	MUHLENBERGIA RIGENS	DEER GRASS	L	1 GAL	AS SHOWN	5 PD-1
JUN PAT	JUNCUS PATENS 'ELK BLUE'	CALIFORNIA GRAY RUSH	L	1 GAL	AS SHOWN	
	MULCH AND SOIL AMENDMENT					
	IMPORTED TOPSOIL					
	ROOT BARRIER					



NOT FOR CONSTRUCTION

0' 10' 20' 40'

PP-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ DATE NOVEMBER 2025
CHECKED BY: E. SMITH R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
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I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO PLANTING PLAN

T15136000

SHEET 226 OF 648

SEED MIX LEGEND

	BOTANICAL NAME	COMMON NAME	LBS/ ACRE	PERCENT GERMINATION
	TYPE 1: WILDFLOWER MIX			
	HORDEUM BRACHYANTHORUM	MEADOW BARLEY	7	80
	BROMUS CARINATUS	CALIFORNIA BROME	7	90
	ELYMUS GLAUCUS	BLUE WILD RYE	6	85
	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	1	85
	LUPINUS NANUS	SKY LUPINE	2	85
	TRIFOLIUM WILLDENOVII	TOM CAT CLOVER	1	90
	LAYIA PLATYGLOSSAI	TIDY TIPS	1	85
	NEMOPHILA MENZIESII	BABY BLUE EYES	1	85
		TOTAL	26	
	TYPE 2: NATIVE GRASS MIX			
	FESTUCA MICROSTACHYS	PACIFIC FESCUE	7	88
	FESTUCA OCTOFLORA	SIXWEEKS FESCUE	2	75
		TOTAL	9	

HYDROSEED NOTES

1. THE HYDROSEED EROSION CONTROL MATERIALS SHALL BE MIXED UNIFORMLY AND APPLIED IN THE FOLLOWING PROPORTIONS TO ALL AREAS INDICATED ON THE DRAWINGS

MATERIALS	APPLICATION RATE
- SEED MIX TYPE 1 OR 2	- SEE SEED MIX LEGEND
- PROMATRIX BFM	- 3,500 LBS/ACRE
-HYDROPOST PREMIUM COMPOST	- 1,000 LBS/ACRE
- BIOSOL FORTE 7-2-1 ORGANIC FERTILIZER	- 800 LBS/ACRE
- AM 120 MYCORRHIZAE INOCULUM	-60 LBS/ACRE
- TRI-C SOLUBLE HUMATE	- 1LBS/ACRE

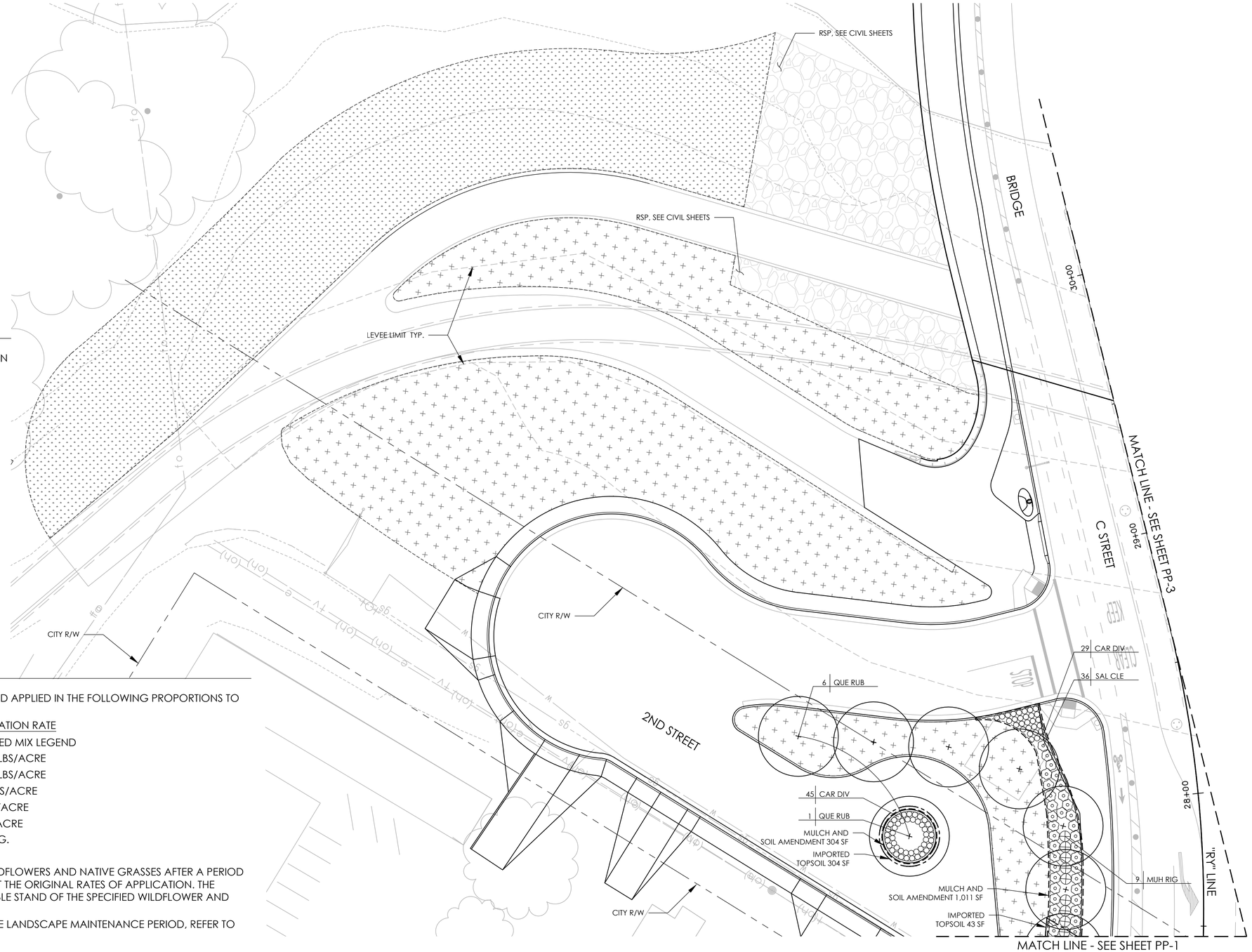
2. INSTALL TREES TO BE PLANTED IN THE HYDROSEED AREA PRIOR TO HYDROSEEDING.

3. PROTECT ALL ADJACENT HARDSCAPES AND PLANTING FROM OVERSPRAY.

4. ANY AREA WHICH HAS NOT PRODUCED A HEALTHY, ESTABLISHED STAND OF WILDFLOWERS AND NATIVE GRASSES AFTER A PERIOD OF 30 DAYS FROM THE DATE OF SEEDING SHALL BE RESEEDED AND RE-FERTILIZED AT THE ORIGINAL RATES OF APPLICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEEDED AREAS UNTIL AN ACCEPTABLE STAND OF THE SPECIFIED WILDFLOWER AND NATIVE GRASS MIX HAS BEEN ESTABLISHED.

5. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY IRRIGATION DURING THE LANDSCAPE MAINTENANCE PERIOD, REFER TO SPECIFICATIONS.

FOR NOTES AND LEGEND SEE SHEET PP-1



NOT FOR CONSTRUCTION

0' 10' 20' 40'

PP-2

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DEPARTMENT OF PUBLIC WORKS

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DATE NOVEMBER 2025

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MARK THOMAS
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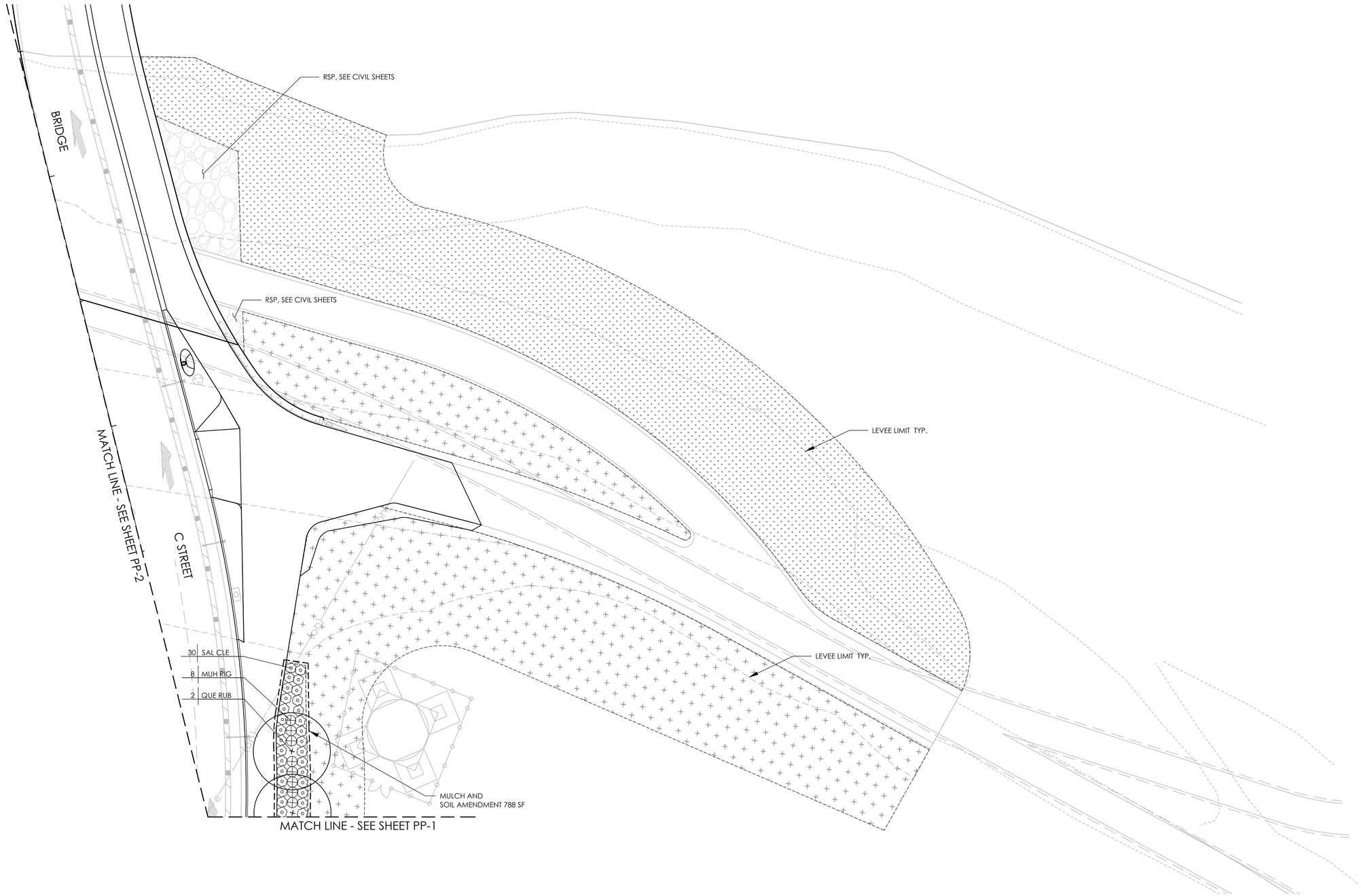
T15136000

SHEET 227 OF 648



FOR NOTES AND LEGEND SEE SHEET PP-1

NOT FOR CONSTRUCTION

0' 10' 20' 40'

PP-3

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
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FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

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SHEET 228 — OF — 648

SACRAMENTO PLANT NOTES

1. MULCH: INSTALL A UNIFORM THREE INCH COVERING, OF DOUGLAS FIR WALK ON BARK, 1/4 INCH TO 3/4 INCH PARTICLE SIZE, IN ALL PLANTING AREAS, INCLUDING ALL EXISTING TREES TO REMAIN. MULCH SHOULD NOT TOUCH TRUNK OF TREES.
2. EXISTING PLANT MATERIAL: PROTECT ALL EXISTING PLANT MATERIAL TO REMAIN. SEE CIVIL PLANS. AVOID OR MINIMIZE SOIL DISTURBANCE WITHIN OR NEAR THE EXISTING TREES TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGES INCURRED AS A DIRECT RESULT OF THIS CONTRACT TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
3. GROUNDCOVER: PROVIDE GROUNDCOVER AT INDICATED ON-CENTER SPACING THROUGHOUT ALL PLANTING AREAS. GROUNDCOVER SHALL BE PROVIDED UP TO THE WATERING BASIN OF ALL TREES AND SHRUBS. INSTALL PER CITY OF SACRAMENTO STANDARD DETAIL
4. IMPORTED TOPSOIL: CONTRACTOR SHALL EXCAVATE ALL PLANTING AREAS IN MEDIANS AND BETWEEN ROADWAY CURB AND SIDEWALK TO A MINIMUM DEPTH OF 24". ALL EXISTING ROADWAY PAVEMENT AND AGGREGATE BASE SHALL BE REMOVED FROM THE PLANTING AREAS BEFORE INSTALLING AMENDED TOPSOIL. TOPSOIL SHALL BE INSTALLED 3" BELOW FINISH GRADE OF SURROUNDING HARDSCAPE TO ALLOW FOR 3" OF MULCH. REFER TO CITY OF SACRAMENTO STANDARD DETAIL FOR SIMILAR APPLICATION.
5. SOILS TESTING: SEE SPECIFICATIONS FOR TESTING OF TOPSOIL AND AMENDMENTS. IN ADDITION, CONTRACTOR SHALL SUBMIT A FIVE GALLON SAMPLE OF NATIVE TOPSOIL FROM ANY AREAS PREVIOUSLY COVERED BY PAVING, TO SUNLAND ANALYTICAL, (916) 852-8557, FOR CONTAMINATION TESTING. TESTING REQUIRES FOUR TO FIVE WEEKS. CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR TESTING PRIOR TO CONSTRUCTION.
6. ROOT BARRIERS: CONTRACTOR SHALL INSTALL LINEAR ROOT BARRIER PER PLANS. SEE TREE ROOT BARRIER DETAIL
7. CONTRACTOR SHALL NOT EXCAVATE SOIL WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN.
8. SHRUBS: SHRUBS SHALL NOT BE PLANTED WITHIN 3' MINIMUM OF NEWLY PLANTED TREES. A LAYER OF MULCH SHALL BE PLACED AROUND THE TREES AS NOTED ABOVE.
9. HYDROSEED: A WILDFLOWER MIX AND NATIVE GRASS MIX SHALL BE USED IN HYDROSEED APPLICATIONS. SEE HYDROSEED LEGEND AND HYDROSEED PROPORTIONS FOR MORE INFORMATION. FOR PLANT ESTABLISHMENT AND MAINTENANCE REQUIREMENTS, REFER TO SPECIFICATIONS.
10. COMPOST AND SOIL AMENDMENT: SOIL IN ALL PLANTING AREAS RECEIVING PERMANENT IRRIGATION SHALL BE AMENDED WITH COMPOST AND OTHER SOIL AMENDMENTS AS RECOMMENDED BY THE POST-GRADING SOIL TEST REPORT.
11. PLANT ESTABLISHMENT AND MAINTENANCE PERIOD: THE PLANT ESTABLISHMENT AND MAINTENANCE PERIOD SHALL BE 180 CALENDAR DAYS FOLLOWING THE COMPLETION OF ALL PLANTING AND IRRIGATION INSTALLATION. SEE SPECS.
12. ROADSIDE CLEARING: CONTRACTOR SHALL PERFORM ROADSIDE CLEARING, REFER TO SPECIFICATIONS.

SACRAMENTO PLANT LEGEND

SYMBOL/ABBREV	BOTANICAL NAME	COMMON NAME	WATER USE	SIZE	SPACING	
TREE						
CER CAN	CERCIS CANADENSIS	EASTERN REDBUD	M	15 GAL	AS SHOWN	1 PD-2
CER OCC	CERCIS OCCIDENTALIS	WESTERN REDBUD	L	15 GAL	AS SHOWN	4 PD-2
QUE RUB	QUERCUS RUBRA	RED OAK	M	15 GAL	AS SHOWN	6 PD-2
QUE CRI	QUERCUS 'CRIMSCHMIDT'	CRIMSON SPIRE OAK	M	15 GAL	A SHOWN	
SHRUBS & GRASSES						
CAR DIV	CAREX DIVULSA	BERKELEY SEDGE	L	1 GAL	A SHOWN	
DIE IRI	DIETES IRIDIOIDES	AFRICAN IRIS	L	1 GAL	AS SHOWN	
EPI CAN	EPILOBIUM CANUM	CALIFORNIA FUCHSIA	L	1 GAL	AS SHOWN	
SAL CLE	SALVIA CLEVELANDII 'ALLEN CHICKERING'	ALLEN CHICKERING SAGE	L	1 GAL	AS SHOWN	2 PD-2
ERI GRA	ERIOGONUM GRANDE RUBESCENS	RED FLOWERED BUCKWHEAT	L	1 GAL	AS SHOWN	5 PD-2
MIM AUR	MIMULUS AURANTIACUS	BUSH MONKEYFLOWER	L	1 GAL	AS SHOWN	
MUH DUB	MUHLENBERGIA DUBIA	PINE MUHLY	L	1 GAL	AS SHOWN	
MUH RIG	MUHLENBERGIA RIGENS	DEER GRASS	L	1 GAL	AS SHOWN	
MYO PAR	MYOPORUM PARVIFOLIUM 'PINK'	PINK CREEPING MYOPORUM	L	1 GAL	48" O.C.	
	MULCH AND SOIL AMENDMENT					
	IMPORTED TOPSOIL					
	ROOT BARRIER					

SEED MIX LEGEND

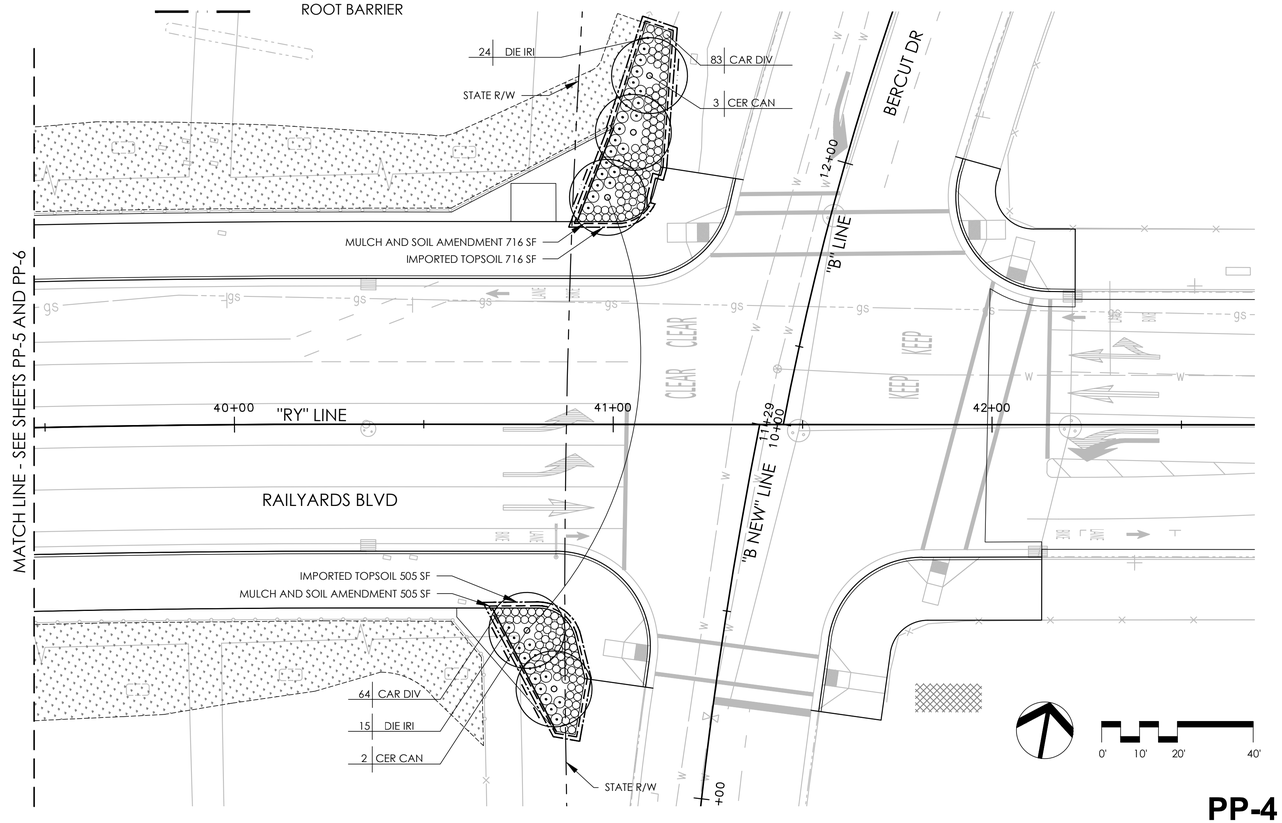
BOTANICAL NAME	COMMON NAME	LBS/ ACRE	PERCENT GERMINATION
TYPE 1: WILDFLOWER MIX			
HORDEUM BRACHYANTHORUM	MEADOW BARLEY	7	80
BROMUS CARINATUS	CALIFORNIA BROME	7	90
ELYMUS GLAUCUS	BLUE WILD RYE	6	85
ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	1	85
LUPINUS NANUS	SKY LUPINE	2	85
TRIFOLIUM WILLDENOVII	TOM CAT CLOVER	1	90
LAYIA PLATYGLOSSAI	TIDY TIPS	1	85
NEMOPHILA MENZIESII	BABY BLUE EYES	1	85
	TOTAL	26	
TYPE 2: NATIVE GRASS MIX			
FESTUCA MICROSTACHYS	PACIFIC FESCUE	7	88
FESTUCA OCTOFLORA	SIXWEEKS FESCUE	2	75
	TOTAL	9	

HYDROSEED NOTES

1. THE HYDROSEED EROSION CONTROL MATERIALS SHALL BE MIXED UNIFORMLY AND APPLIED IN THE FOLLOWING PROPORTIONS TO ALL AREAS INDICATED ON THE DRAWINGS

MATERIALS	APPLICATION RATE
- SEED MIX TYPE 1 OR 2	- SEE SEED MIX LEGEND
- PROMATRIX BFM	- 3,500 LBS/ACRE
-HYDROPOST PREMIUM COMPOST	- 1,000 LBS/ACRE
- BIOSOL FORTE 7-2-1 ORGANIC FERTILIZER	- 800 LBS/ACRE
- AM 120 MYCORRHIZAE INOCULUM	-60 LBS/ACRE
- TRI-C SOLUBLE HUMATE	- 1LBS/ACRE

2. INSTALL TREES TO BE PLANTED IN THE HYDROSEED AREA PRIOR TO HYDROSEEDING.
3. PROTECT ALL ADJACENT HARDSCAPES AND PLANTING FROM OVERSPRAY.
4. ANY AREA WHICH HAS NOT PRODUCED A HEALTHY, ESTABLISHED STAND OF WILDFLOWERS AND NATIVE GRASSES AFTER A PERIOD OF 30 DAYS FROM THE DATE OF SEEDING SHALL BE RESEEDED AND RE-FERTILIZED AT THE ORIGINAL RATES OF APPLICATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEEDED AREAS UNTIL AN ACCEPTABLE STAND OF THE SPECIFIED WILDFLOWER AND NATIVE GRASS MIX HAS BEEN ESTABLISHED.
5. CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY IRRIGATION DURING THE LANDSCAPE MAINTENANCE PERIOD, REFER TO SPECIFICATIONS.



NOT FOR CONSTRUCTION

PP-4

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK
SCALE
HORIZ. 1"=20'
VERT.

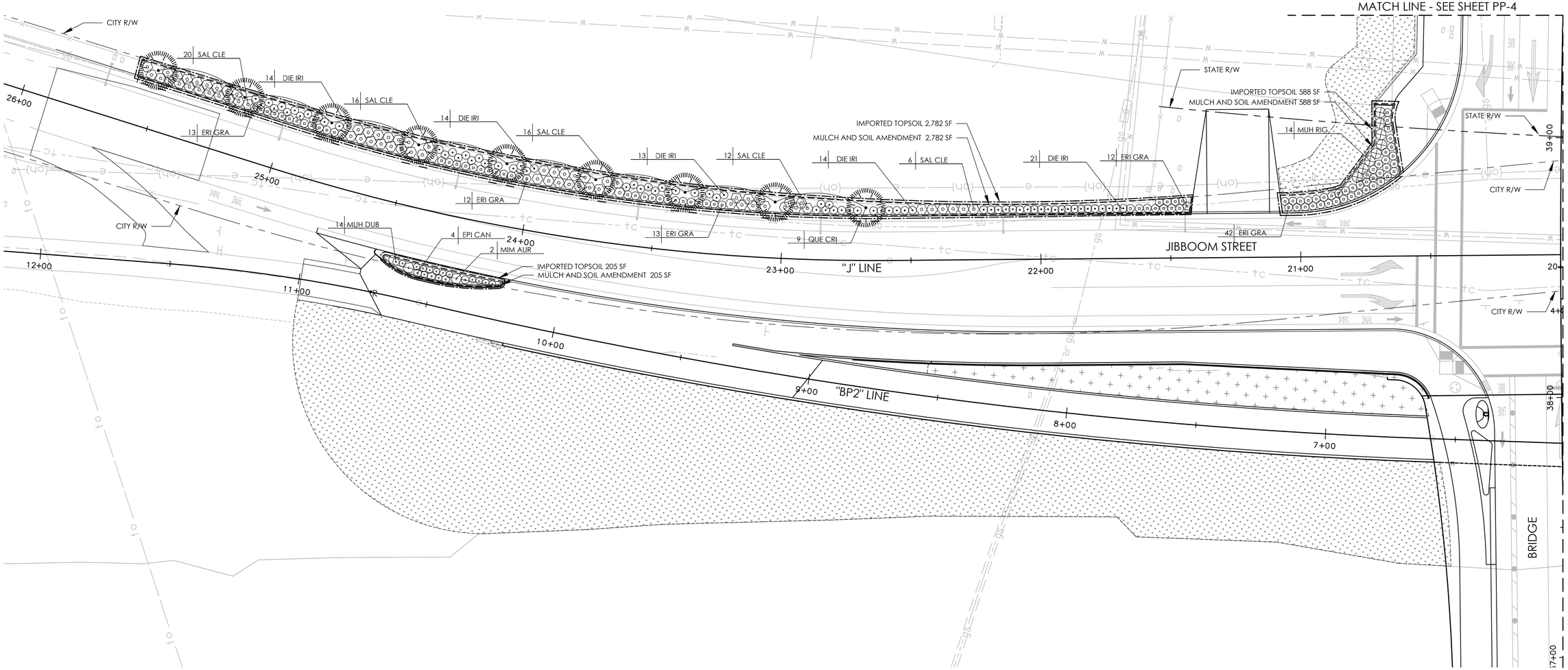
CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS
DRAWN BY: M. LAM & Z. SOLORZA DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ DATE NOVEMBER 2025
CHECKED BY: E. SMITH R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585 EXP. 08-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
SACRAMENTO
PLANTING PLAN

T15136000

SHEET 229 — OF — 648



FOR NOTES AND LEGEND SEE SHEET PP-4

NOT FOR CONSTRUCTION

0' 10' 20' 40'

PP-5

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025

DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025

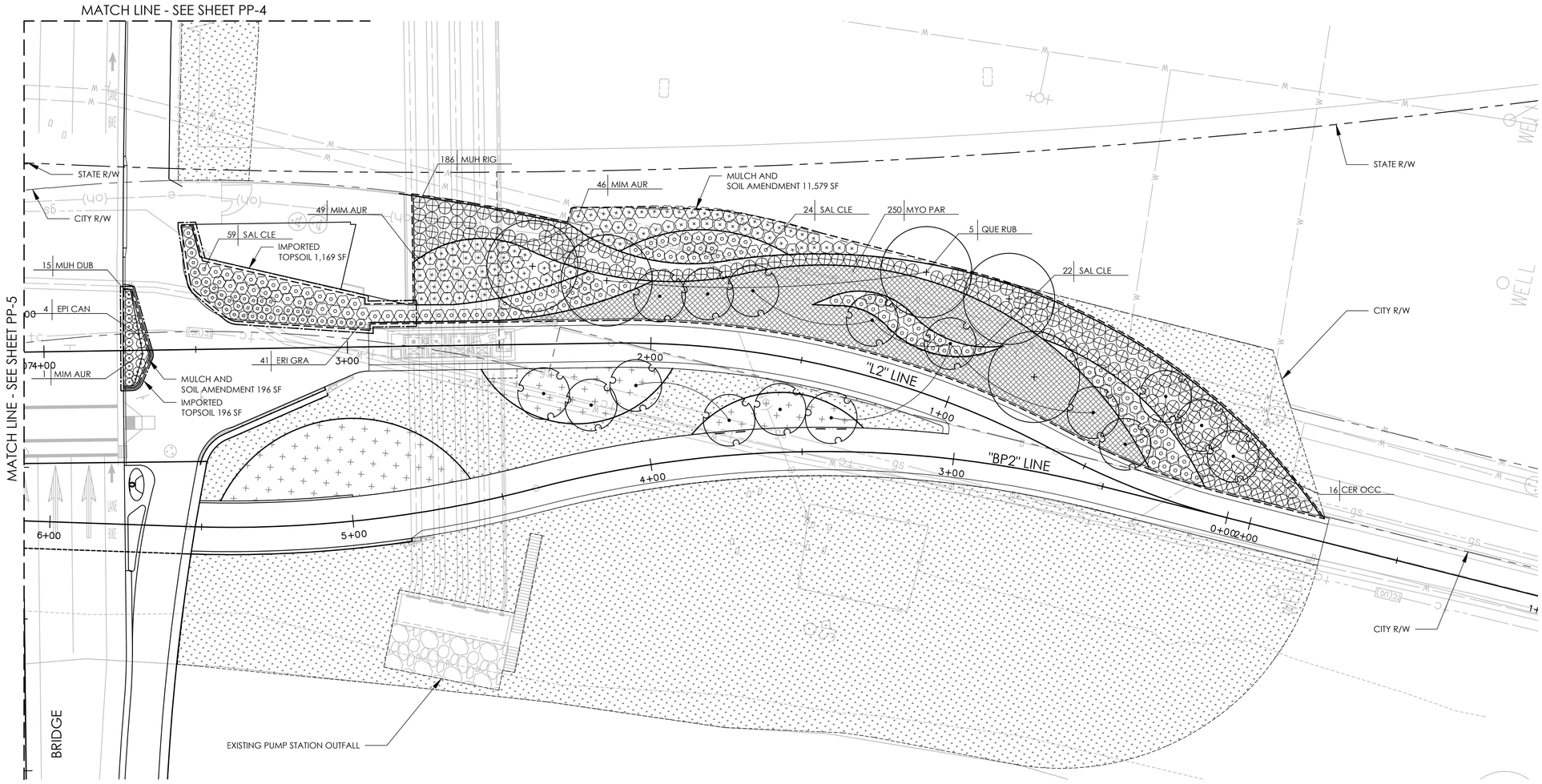
CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO
PLANTING PLAN

T15136000

SHEET 230 — OF — 648



FOR NOTES AND LEGEND SEE SHEET PP-4

NOT FOR CONSTRUCTION

0' 10' 20' 40'

PP-6

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

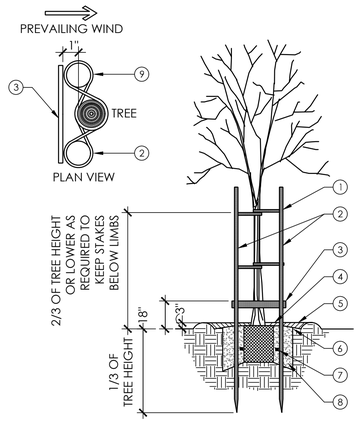
DRAWN BY: M. LAM & Z. SOLORZA DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ DATE NOVEMBER 2025
CHECKED BY: E. SMITH R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585 EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER SACRAMENTO PLANTING PLAN

T15136000

SHEET 231 — OF — 648



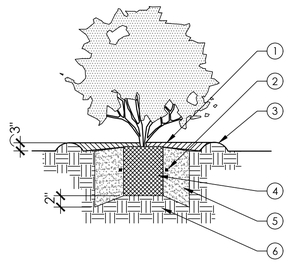
KEY:

1. TREE TIES AT TWO LOCATIONS, REFER TO SPECIFICATIONS FOR TYPE, (FOUR TOTAL) TYP. PROVIDE 5" - 6"OF SLACK IN TIES TO ALLOW FOR TREE MOVEMENT IN THE WIND.
2. TWO 2" DIA. TREATED LODGEPOLE TREE STAKES (SET PLUMB) DO NOT PENETRATE ROOTBALL.
3. 1" X 4" REDWOOD BRACE NAILED TO STAKES WITH GALVANIZED NAILS. 18" ABOVE FINISHED GRADE.
4. ROOT BALL, SET CROWN 2" ABOVE FINISH GRADE. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.
5. WATER RETENTION BERM (EXCEPT IN TURF AREAS)
6. BARK MULCH. REFER TO SPECIFICATIONS.
7. FERTILIZER TABLETS. REFER TO SPECIFICATION TYPE.
8. PLANTING PIT TO BE TWICE THE DIAMETER OF ROOT BALL. FOR BACKFILL MIX, REFER TO SPECIFICATIONS.
9. SECURE TREE TIE WITH GALV. FENCE STAPLE

NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

1 PD-1 TREE PLANTING — N.T.S.



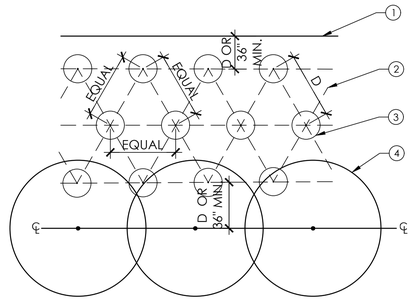
KEY:

1. BARK MULCH, SEE SPECIFICATIONS.
2. FERTILIZER TABLETS, SEE SPECIFICATIONS.
3. WATER RETENTION BERM
4. ROOT BALL- SET CROWN 1" ABOVE FINISH GRADE. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.
5. PLANTING PIT TO BE TWICE THE DIAMETER OF ROOTBALL. FOR BACKFILL MIX, REFER TO SPECIFICATIONS.
6. UNDISTURBED NATIVE SOIL UNDER ROOTBALL. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.

NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

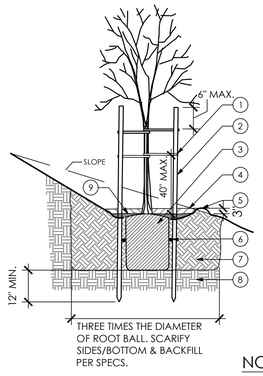
2 PD-1 SHRUB PLANTING — N.T.S.



KEY:

1. MOW CURB, PAVEMENT EDGE, OR WOOD HEADER.
2. TYPICAL SPACING (D). SEE PLANTING PLAN.
3. GROUNDCOVER PLANT, SIZE AS DENOTED ON PLANTING PLAN.
4. SHRUB MASS, TYP.

3 PD-1 SHRUB AND GROUNDCOVER SPACING — N.T.S.



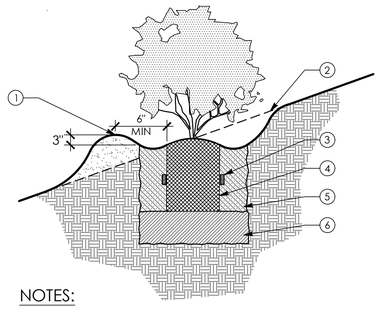
KEY:

1. RUBBER CINCH TREE TIES, FOUR (4) PER TREE, REFER TO SPECS FOR TYPE, PROVIDE 5"-6" OF SLACK IN TIES TO ALLOW FOR TREE MOVEMENT IN THE WIND.
2. (2) 2" DIA. TREATED LODGEPOLE TREE STAKES. PLACE OUTSIDE OF ROOT BALL. SET 2" BELOW LOWEST BRANCH.
3. ROOT BALL, SET 1"- 2" ABOVE ADJACENT FINISH GRADE.
4. BARK MULCH. KEEP 3" AWAY FROM TREE CROWN. REFER TO SPECS.
5. SOIL WATERING BASIN.
6. FERTILIZER TABLETS, SEE SPECS.
7. AMENDED BACKFILL. SEE SPECS.
8. UNDISTURBED NATIVE SOIL.
9. FINISH GRADE.

NOTES:

1. MAXIMUM SLOPE 2.5:1 WITHOUT A BENCH, OR A MAXIMUM SLOPE OF 2:1 WITH A BENCH. PLACE JUTE MESH ON SLOPES GREATER THAN 3:1.

4 PD-1 TREE PLANTING ON SLOPE — N.T.S.



KEY:

1. WATER RETENTION BERM.
2. FINISH OF SURROUNDING GRADE.
3. FERTILIZER TABLETS, SEE SPECIFICATIONS.
4. ROOT BALL- SET CROWN 1" ABOVE FINISH GRADE. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.
5. PLANTING PIT TO BE TWICE THE DIAMETER OF ROOTBALL. FOR BACKFILL MIX, REFER TO SPECIFICATIONS.
6. UNDISTURBED NATIVE SOIL UNDER ROOTBALL. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.

NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.
2. BARK MULCH TO BE ADDED ON FINISH GRADE, SEE SPECS FOR DETAILS.

5 PD-1 SHRUB PLANTING ON SLOPE — N.T.S.

NOT FOR CONSTRUCTION

PD-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

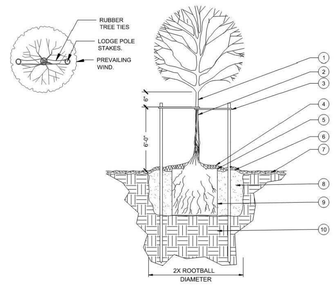
DRAWN BY: M. LAM & Z. SOLORZA
DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ
DATE NOVEMBER 2025
CHECKED BY: E. SMITH
R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585
EXP. 08-31-26

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER WEST SACRAMENTO PLANTING DETAILS

T15136000

SHEET 232 — OF — 648



SECTION

CALLOUTS

1. TREE
2. REMOVE NURSERY STAKE.
3. VINYL OR NON-ABRASIVE RUBBER TREE TIES: 2 PER STAKE. WRAP NO WIRE AROUND TRUNK OR LIMB.
4. BARK MULCH, NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. KEEP TRUNK BASE CLEAR OF BARK
5. TOP OF ROOT BALL SHALL BE A MINIMUM OF 1" ABOVE FINISHED GRADE.
6. 4" HIGH EARTH WATERING BERM IN PLANTER AREA ONLY. BERM SHALL BEGIN AT ROOT BALL PERIPHERY.
7. FINISH SURROUNDING GRADE.
8. LOOSENED NATIVE SOIL, PER STANDARD SPECIFICATIONS.
9. ROOTS SHALL BE LOOSENED, SCORED, AND UNTANGLED PRIOR TO PLACING ROOT BALL IN HOLE.
10. UNDISTURBED OR COMPACTED SOIL.

REV.	DATE	DESCRIPTION

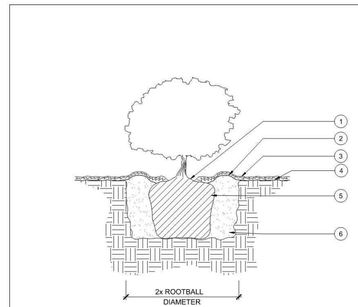
CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

TREE PLANTING

APP'D BY: DATE: APRIL 2020 DWG. NO. L-202

1 PD-2 TREE PLANTING

N.T.S.



SECTION

CALLOUTS

1. PLANT ROOT CROWN 1" ABOVE FINISH GRADE.
2. 2" HIGH EARTH MOUND. FINISH GRADE
3. BARK MULCH, MULCH SHALL NOT COVER ROOT CROWN.
4. FINISH GRADE.
5. SHRUB ROOTBALL.
6. BACKFILL MIX, PER STANDARD SPECIFICATIONS.

REV.	DATE	DESCRIPTION

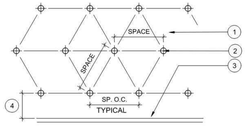
CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

SHRUB PLANTING

APP'D BY: DATE: APRIL 2020 DWG. NO. L-203

2 PD-2 SHRUB PLANTING

N.T.S.



PLAN VIEW

CALLOUTS

1. GROUNDCOVER SPACING: SEE PLANTING LEGEND.
2. GROUNDCOVER CENTERS.
3. WALL, SIDEWALK OR EDGE OR GROUNDCOVER PLANTING.
4. HALF SPACE OF THE GROUNDCOVER SPACING OR AS SPECIFIED ON THE PLANS.

NOTES

1. RIP OR SCARIFY TOP 12" OF SUBGRADE PRIOR TO PLANTING.
2. ADD AMENDMENTS AND FERTILIZER PER SOILS REPORT.
3. ROTOTILL AMENDMENTS AND FERTILIZER INTO TOP 12" OF TOPSOIL OR PER SOILS REPORT.
4. PLANT GROUNDCOVER: TRIANGULAR SPACING.
5. BARK MULCH, MULCH SHALL NOT COVER ROOT CROWN

REV.	DATE	DESCRIPTION

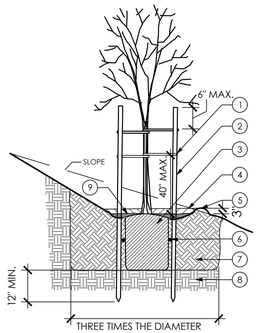
CITY OF SACRAMENTO
Department of Youth, Parks and Community Enrichment

GROUNDCOVER PLANTING

APP'D BY: DATE: APRIL 2020 DWG. NO. L-200

3 PD-2 GROUNDCOVER SPACING

N.T.S.



KEY:

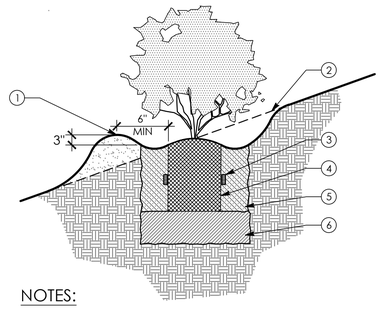
1. RUBBER CINCH TREE TIES, FOUR (4) PER TREE. REFER TO SPECS FOR TYPE. PROVIDE 5"-6" OF SLACK IN TIES TO ALLOW FOR TREE MOVEMENT IN THE WIND.
2. (2) 2" DIA. TREATED LODGEPOLE TREE STAKES. PLACE OUTSIDE OF ROOT BALL. SET 2" BELOW LOWEST BRANCH.
3. ROOT BALL. SET 1"- 2" ABOVE ADJACENT FINISH GRADE.
4. BARK MULCH. KEEP 3" AWAY FROM TREE CROWN. REFER TO SPECS.
5. SOIL WATERING BASIN.
6. FERTILIZER TABLETS, SEE SPECS.
7. AMENDED BACKFILL. SEE SPECS.
8. UNDISTURBED NATIVE SOIL.
9. FINISH GRADE.

NOTES:

1. MAXIMUM SLOPE 2.5:1 WITHOUT A BENCH, OR A MAXIMUM SLOPE OF 2:1 WITH A BENCH. PLACE JUTE MESH ON SLOPES GREATER THAN 3:1.

4 PD-2 TREE PLANTING ON SLOPE

N.T.S.



KEY:

1. WATER RETENTION BERM.
2. FINISH OF SURROUNDING GRADE.
3. FERTILIZER TABLETS, SEE SPECIFICATIONS.
4. ROOT BALL- SET CROWN 1" ABOVE FINISH GRADE. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.
5. PLANTING PIT TO BE TWICE THE DIAMETER OF ROOTBALL. FOR BACKFILL MIX, REFER TO SPECIFICATIONS.
6. UNDISTURBED NATIVE SOIL UNDER ROOTBALL. PROVIDE POSITIVE DRAINAGE AWAY FROM ROOTBALL.

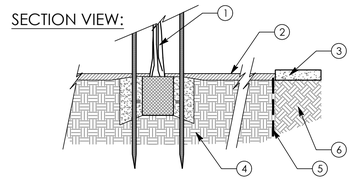
NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.
2. BARK MULCH TO BE ADDED ON FINISH GRADE, SEE SPECS FOR DETAILS.

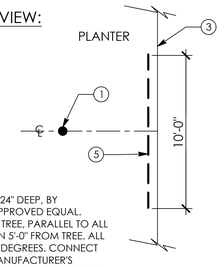
5 PD-2 SHRUB PLANTING ON SLOPE

N.T.S.

SECTION VIEW:



PLAN VIEW:



KEY:

1. TREE PLANTING, SEE DETAIL
2. MULCH, REFER TO SPECIFICATIONS.
3. ADJACENT CURB OR PAVEMENT, SEE PLAN.
4. NATIVE OR IMPORT SOIL.
5. LINEAR ROOT BARRIER 24" DEEP, BY DEEPROOT, INC. OR APPROVED EQUAL. INSTALL CENTERED ON TREE, PARALLEL TO ALL HARD EDGES LESS THAN 5'-0" FROM TREE. ALL CORNERS SHALL BE 90 DEGREES. CONNECT ALL CORNERS WITH MANUFACTURER'S COUPLINGS. INSTALL PER MANUFACTURER'S SPECIFICATIONS. ALIGN TOP OF ROOT BARRIER PANELS FLUSH WITH FINISHED GRADE IN PLANTER.
6. COMPACTED SUBGRADE, SEE PLANS AND SPECS.

NOTES:

1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.

6 PD-2 TREE ROOT BARRIER

N.T.S.

NOT FOR CONSTRUCTION

PD-2

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. 37.81 FT
BENCHMARK# 297-B2E
DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK 297-B2E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD88 ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.

FIELD BOOK

SCALE
HORIZ.
VERT.

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: M. LAM & Z. SOLORZA DATE NOVEMBER 2025
DESIGNED BY: R. ORTIZ DATE NOVEMBER 2025
CHECKED BY: E. SMITH R.L.A. 4585 DATE NOVEMBER 2025

MARK THOMAS
UNDER THE SUPERVISION OF: ERIK SMITH
R.L.A. 4585 EXP. 08-31-26

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
SACRAMENTO
PLANTING DETAILS

T15136000

SHEET 233 — OF — 648

CONSTRUCTION NOTES:

1. FOR "L1" AND "BP1" LINE DETAILS SEE LAYOUT PLAN.
2. SEE DWG L-3 FOR LEVEE DEGRADE DETAILS.
3. SEE DWG L-4 FOR RECONSTRUCTED LEVEE CROWN DIMENSIONS AND DETAILS.
4. "RY" LINE SHOWN FOR REFERENCE ONLY.
5. SEE DEMOLITION PLANS FOR DETAILS REGARDING DEMOLITION WORK LOCATED WITHIN THE WEST SACRAMENTO LEVEE IMPROVEMENTS AREA.
6. SEE UTILITY PLAN FOR DETAILS REGARDING UTILITIES LOCATED WITHIN THE WEST SACRAMENTO LEVEE IMPROVEMENT AREA.

40 20 0 40 80

SCALE: 1"=40'

100% DESIGN L-1

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: H. VELASQUEZ DATE 06/06/2025
DESIGNED BY: E. TICEN R.C.E. C83475 DATE 06/06/2025
CHECKED BY: M. FREITAS R.C.E. C36451 DATE 06/06/2025

GEI Consultants
UNDER THE SUPERVISION OF: ELLIOTT TICEN
R.C.E. C83475
EXP. 03/31/27

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
WEST SACRAMENTO LEVEE IMPROVEMENTS AREA
FOOTPRINT AND EXISTING TOPOGRAPHY

T15136000

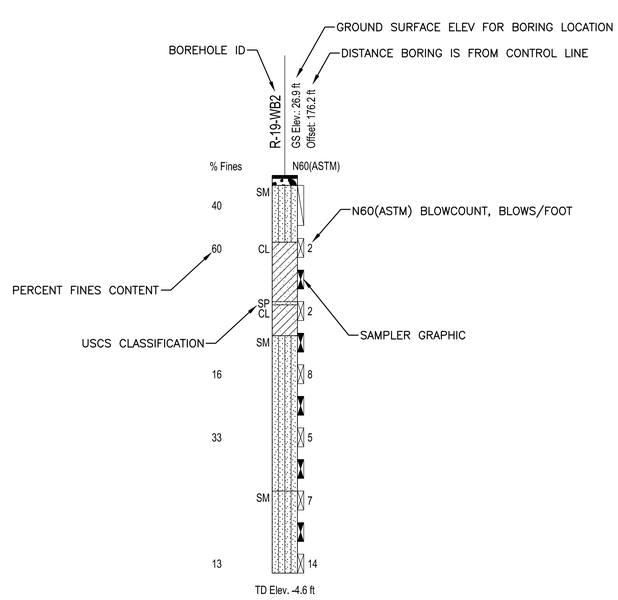
SHEET 234 — OF — 648

GROUP SYMBOLS AND NAMES

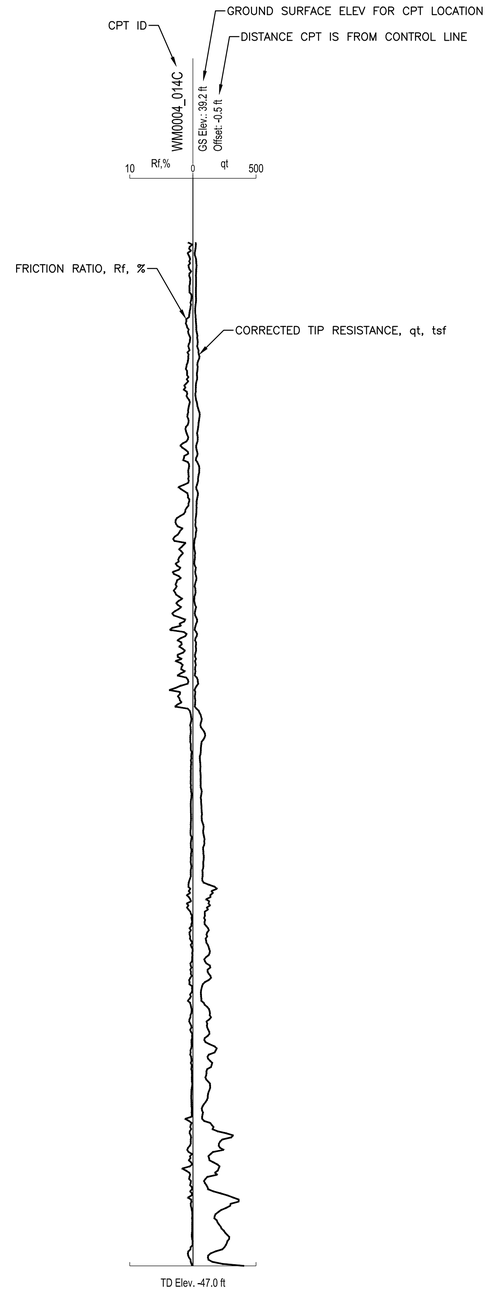
Graphic	Group Names	Graphic	Group Names	Graphic	Group Names
	Lean Clay (CL)		Lean Clay with Sand (CL)		Sandy Lean Clay (CL)
	Fat Clay (CH)		Fat Clay with Sand (CH)		Silt with Sand (ML)
	Sandy Silt (ML)		Poorly Graded Sand (SP)		Poorly Graded Sand with Silt (SP-SM)
	Clayey Sand (SC)		Silty Sand (SM)		Silty Sand with Gravel (SM)
	Poorly Graded Gravel with Sand (GP)		Asphalt		

SAMPLER GRAPHIC SYMBOLS

- Standard Penetration Test (1.4 in. ID)
- Standard California (2.5 in. ID)
- Modified California (2.0 in. ID)
- Shelby Tube (2.87 in. or 2.37 in. ID)
- Punch Core
- Sonic Core
- Dry Core
- Bag Sample



TYP BORING STICK LOG



TYP CPT STICK LOG

SYMBOLS - PLAN VIEW

WM0004_014C	CPT LOCATION
R-19-WB2	BORING LOCATION

LEGEND:

GS – GROUND SURFACE
TD – TOTAL DEPTH
N60(ASTM) – CORRECTED SPT N VALUE (ASTM 6066-96,2004)

NOTES:

1. THE PROFILE FOLLOWS THE "L1" LINE.
2. OFFSET DISTANCES SHOWN FOR EACH EXPLORATION REPRESENT THE PERPENDICULAR DISTANCE OF THE EXPLORATION TO THE "L1" LINE. NEGATIVE (–) OFFSETS REPRESENT AN EXPLORATION ON THE WATERSIDE OF THE "L1" LINE. POSITIVE OFFSETS REPRESENT AN EXPLORATION ON THE LANDSIDE OF THE "L1" LINE.
3. LOGS SHOWN REPRESENT GENERALIZED SUBSURFACE CONDITIONS. REFER TO BORING LOGS FOR SPECIFIC SUBSURFACE CONDITIONS ENCOUNTERED IN THE TEST BORINGS.
4. SUBSURFACE CONDITIONS SHOWN REPRESENT OBSERVATIONS AT THE SPECIFIC EXPLORATION LOCATIONS AT THE TIME THE EXPLORATIONS WERE COMPLETED. SUBSURFACE CONDITIONS BETWEEN EXPLORATION LOCATIONS AND SAMPLES ARE UNKNOWN.

100% DESIGN L-2

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: H. VELASQUEZ
DATE 06/06/2025

DESIGNED BY: E. TICEN
R.C.E. C83475 DATE 06/06/2025

CHECKED BY: M. FREITAS
R.C.E. C36451 DATE 06/06/2025

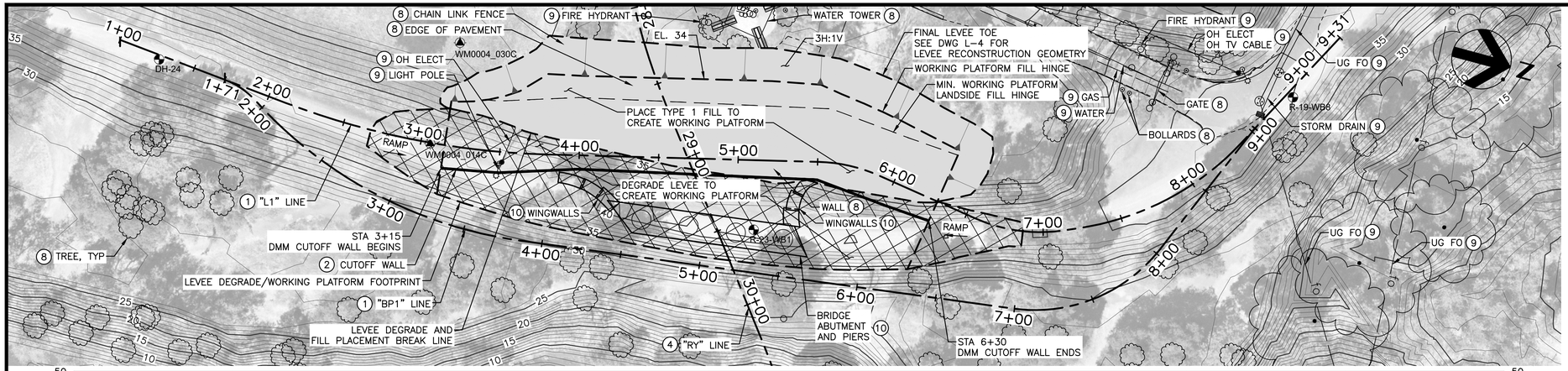
GEI Consultants
UNDER THE SUPERVISION OF: ELLIOTT TICEN
R.C.E. C83475
EXP. 03/31/27

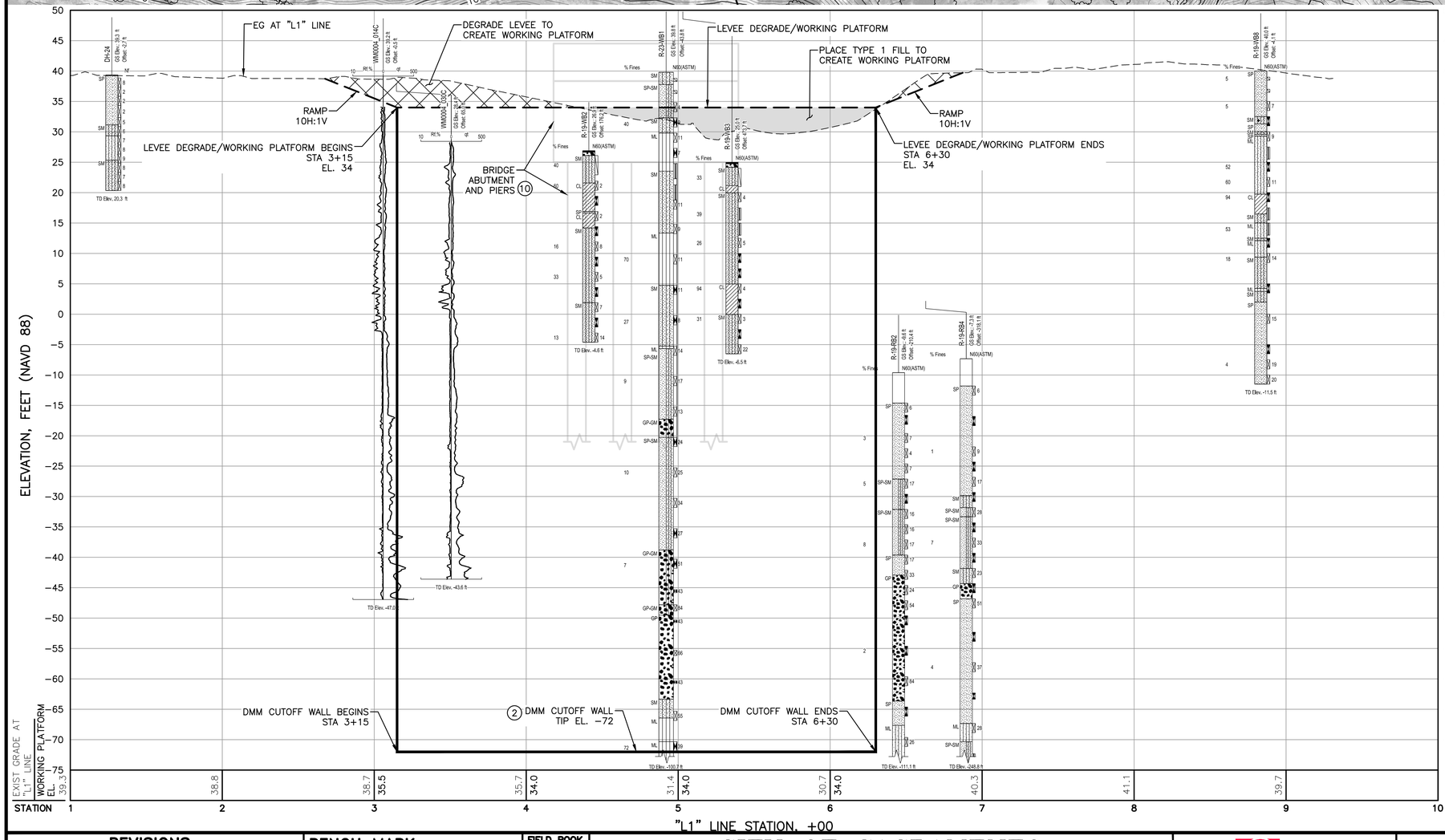
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

EXPLORATION LEGEND

T15136000

SHEET 235 — OF — 648





CONSTRUCTION NOTES:

1. FOR "L1" AND "BP1" LINE DETAILS SEE LAYOUT PLAN.
2. SEE CUTOFF WALL OFFSET TABLE AND CUTOFF WALL DEPTH SUMMARY TABLE FOR ALIGNMENT AND DEPTH DETAILS.
3. SEE DWG L-1 FOR DEMOLITION DETAILS WITHIN THE EXTENTS SHOWN ON THIS SHEET.
4. "RY" LINE SHOWN FOR REFERENCE ONLY.
5. CUTOFF WALL OFFSET ESTABLISHED FROM "L1" LINE TO CUTOFF WALL CENTERLINE.
6. "OFFSET SIDE" IDENTIFIES THE LOCATION OF THE NEW CUTOFF WALL WITH RESPECT TO THE "L1" LINE.
7. APPROX. DEPTHS ARE AS MEASURED FROM THE DEGRADE SURFACE SHOWN ON THIS DRAWING.
8. SEE DEMOLITION PLANS FOR DETAILS REGARDING DEMOLITION WORK LOCATED WITHIN THE WEST SACRAMENTO LEVEE IMPROVEMENTS AREA.
9. SEE UTILITY PLAN FOR DETAILS REGARDING UTILITIES LOCATED WITHIN THE WEST SACRAMENTO LEVEE IMPROVEMENT AREA.
10. SEE STRUCTURAL DRAWINGS.

CUTOFF WALL OFFSET (5)

STATION	OFFSET	OFFSET SIDE (6)	WALL TYPE
3+15	14.7	WS	DMM
3+50	13.2	WS	DMM
4+00	8.7	WS	DMM
4+50	9.6	WS	DMM
5+00	10.4	WS	DMM
5+50	11.3	WS	DMM
6+00	15.7	WS	DMM
6+30	13.3	WS	DMM

CUTOFF WALL DEPTH SUMMARY TABLE

BEGIN STATION	END STATION	CUTOFF WALL TIP EL. (FT)	APPROX. DEPTH FROM DEGRADE SURFACE (FT) (7)
3+15	6+30	−72	106

SCALE: 1"=40'

VERT SCALE: 1"=10'

100% DESIGN L-3

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

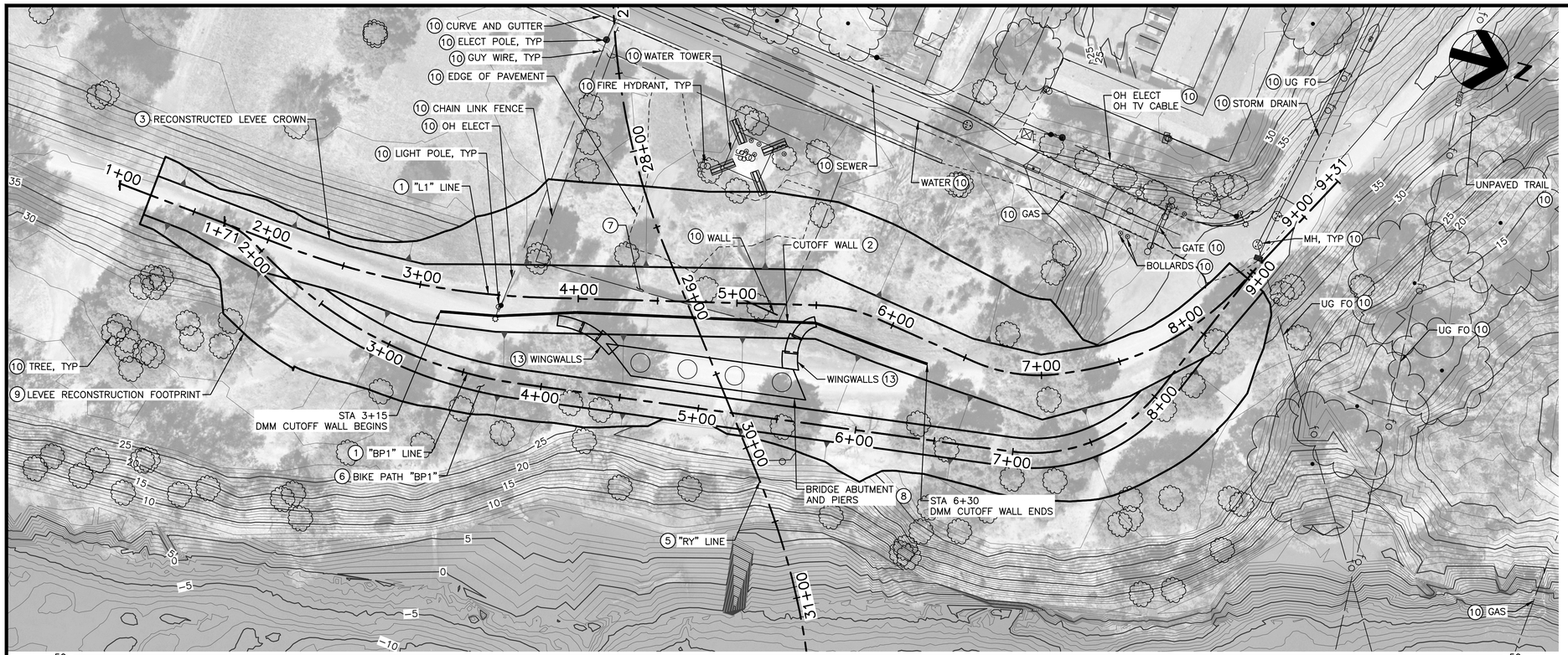
DRAWN BY: H. VELASQUEZ DATE 06/06/2025
DESIGNED BY: E. TICEN R.C.E. C83475 DATE 06/06/2025
CHECKED BY: M. FREITAS R.C.E. C36451 DATE 06/06/2025

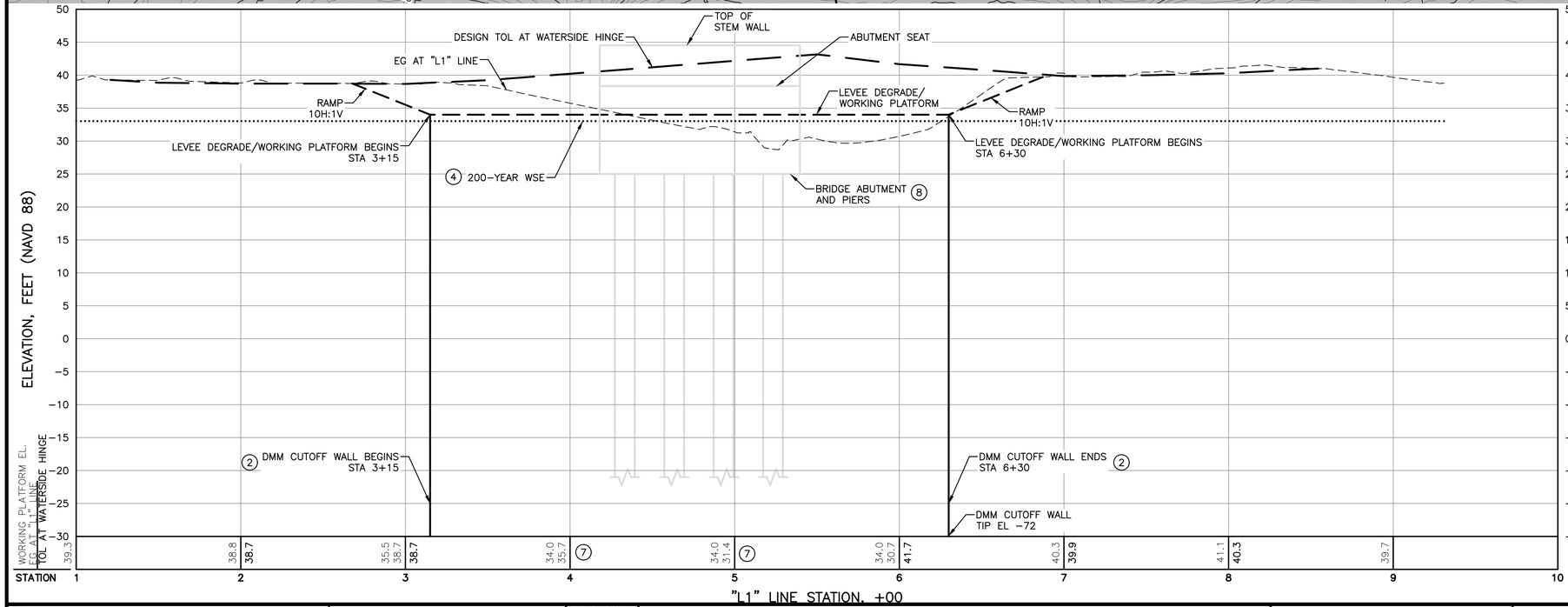
GEI Consultants
UNDER THE SUPERVISION OF: ELLIOTT TICEN
R.C.E. C83475 EXP. 03/31/27

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
LEVEE DEGRADE AND CUTOFF WALL
PLAN AND PROFILE

T15136000

SHEET 236 — OF — 648





CONSTRUCTION NOTES:

1. FOR "L1" AND "BP1" LINE DETAILS SEE LAYOUT PLAN.
2. SEE DWG L-3 FOR CUTOFF WALL ALIGNMENT AND DEPTH DETAILS.
3. SEE LEVEE RECONSTRUCTION DETAILS TABLE FOR RECONSTRUCTED LEVEE CROWN DIMENSIONS AND DETAILS.
4. 200-YEAR WSE BASED ON 200-YEAR CVHS HYDROLOGY INCLUDING SYSTEM SACRAMENTO RIVER WATERSHED IMPROVEMENTS SUCH AS THE LOWER ELKHORN BASING LEVEE SETBACK PROJECT AND THE SACRAMENTO WEIR EXPANSION PROJECT (MBK 2021).
5. "RY" LINE SHOWN FOR REFERENCE ONLY.
6. SEE TYPICAL SECTIONS FOR BIKE PATH "BP1" CONSTRUCTION DETAILS AND PROFILE.
7. IN VICINITY OF BRIDGE RAMP (NOT SHOWN), SEE CONSTRUCTION DETAILS AND STRUCTURES PLANS FOR BRIDGE RAMP CONSTRUCTION DETAILS.
8. CONSTRUCT BRIDGE ABUTMENT PRIOR TO CUTOFF WALL. SEE STRUCTURES PLANS FOR BRIDGE ABUTMENT CONSTRUCTION DETAILS.
9. FOR DETAILS REGARDING FINAL GRADING OF LEVEE SEE TYPICAL SECTIONS.
10. UTILITIES AND OTHER ITEMS ARE SHOWN FOR REFERENCE ONLY.
11. OFFSETS ARE MEASURED WATERWARD OF THE "L1" LINE.
12. SLOPES IDENTIFIED ARE APPROX. AND BASED ON TOPOGRAPHIC INFORMATION AVAILABLE AT THE TIME OF DESIGN. SLOPES MAY VARY IN THE FIELD BUT SHALL BE NO STEEPER THAN 3H:1V.
13. CONSTRUCT WINGWALLS AFTER DMM CUTOFF WALL. SEE RETAINING WALL PLANS.

LEVEE CROWN RECONSTRUCTION DETAILS

STATION	WS SLOPE (XH:1V) (12)	LS SLOPE (XH:1V) (12)	CROWN WIDTH (FT)	WS HINGE OFFSET FROM "L1" LINE (FT) (11)
1+00	N/A	N/A	N/A	N/A
1+50	3.0	3.0	26.0	13.0
2+00	3.0	3.0	33.6	20.6
2+50	3.4	3.0	29.7	16.7
3+00	3.0	3.0	36.8	23.8
3+50	3.0	3.0	42.7	23.2
4+00	*	*	*	*
4+50	*	*	*	*
5+00	*	*	*	*
5+50	3.1	3.3	43.6	21.3
6+00	3.1	3.0	38.7	25.7
6+50	3.1	3.0	34.7	21.7
7+00	3.0	3.0	41.0	28.0
7+50	3.8	N/A	36.4	22.8
8+00	3.0	N/A	35.1	21.0
8+50	N/A	N/A	N/A	N/A

* IN VICINITY OF BRIDGE ABUTMENT AND RAMP, SEE STRUCTURAL DRAWINGS FOR BRIDGE ABUTMENT AND RAMP CONSTRUCTION DETAILS.

40 20 0 40 80
SCALE: 1"=40'

10 5 0 10 20
VERT SCALE: 1"=10'

100% DESIGN L-4

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: H. VELASQUEZ DATE 06/06/2025
DESIGNED BY: E. TICEN R.C.E. C83475 DATE 06/06/2025
CHECKED BY: M. FREITAS R.C.E. C36451 DATE 06/06/2025

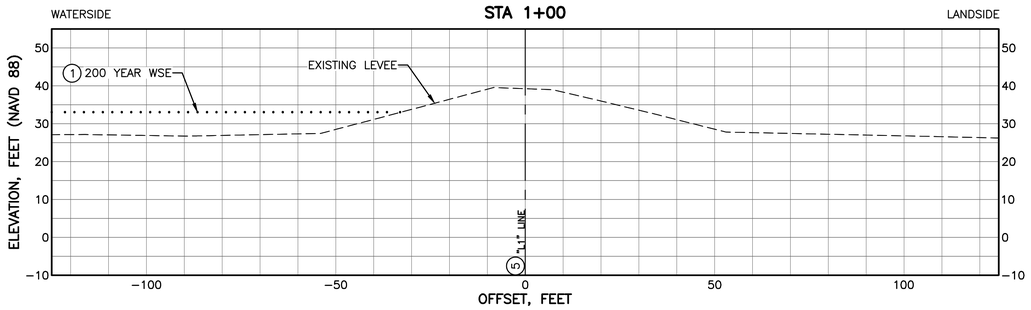
GEI Consultants
UNDER THE SUPERVISION OF: ELLIOTT TICEN
R.C.E. C83475
EXP. 03/31/27

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
RECONSTRUCTED LEVEE
PLAN AND PROFILE

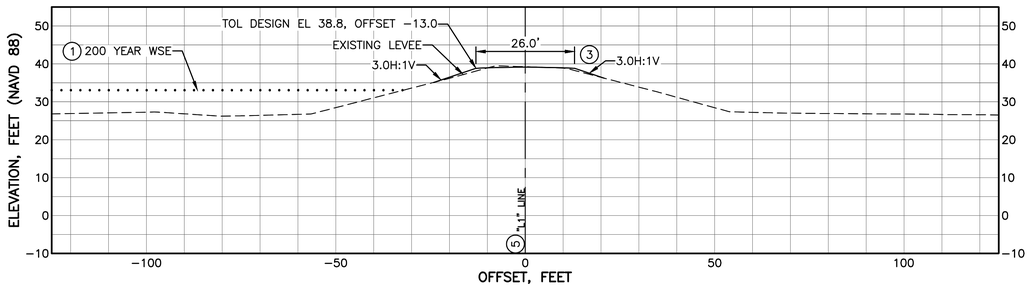
T15136000

SHEET 237 — OF — 648

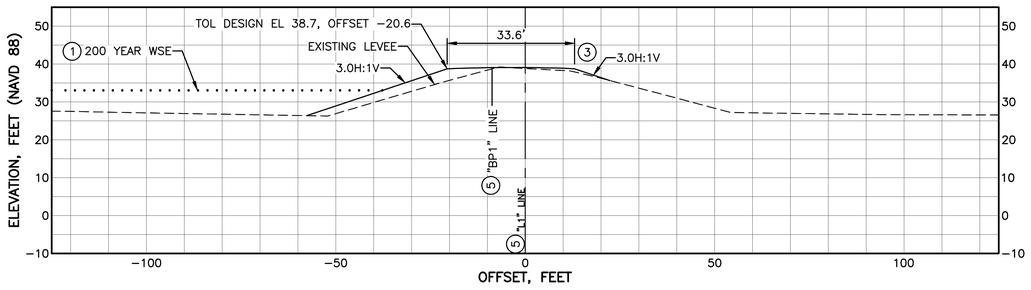
STA 1+00



STA 1+50



STA 2+00



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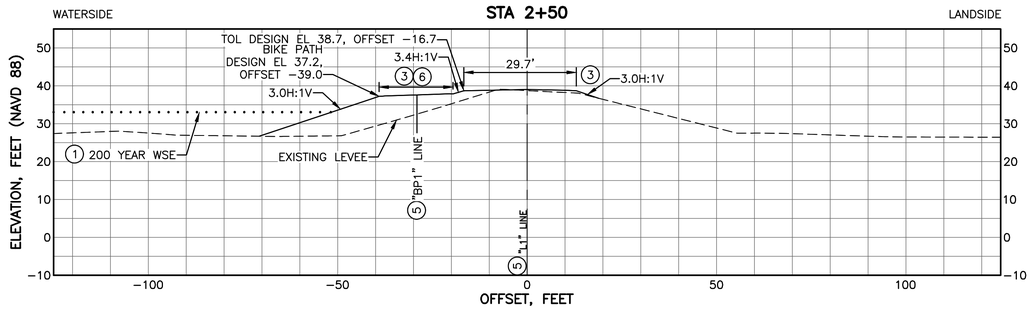
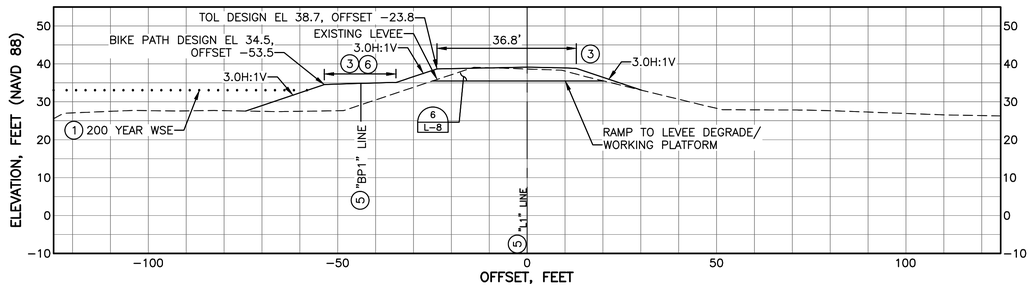
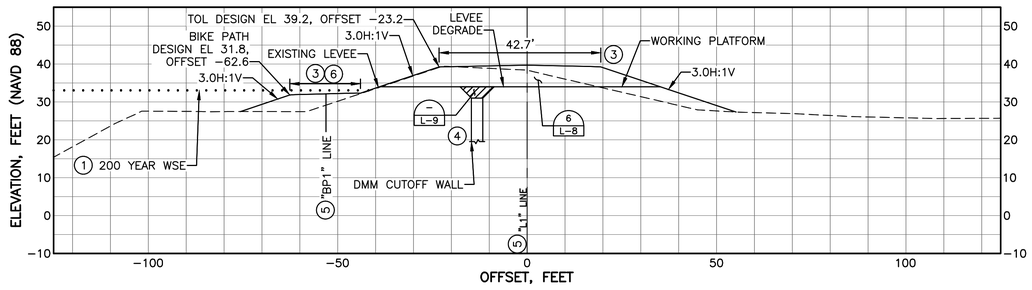


STA 3+00



STA 3+50



CONSTRUCTION NOTES:

1. 200-YEAR WSE BASED ON 200-YEAR CVHS HYDROLOGY INCLUDING SYSTEM SACRAMENTO RIVER WATERSHED IMPROVEMENTS SUCH AS THE LOWER ELKHORN BASIN LEVEE SETBACK PROJECT AND THE SACRAMENTO WEIR EXPANSION PROJECT (MBK 2021).
2. SLOPES IDENTIFIED ARE APPROX AND BASED ON TOPOGRAPHIC INFORMATION AVAILABLE AT THE TIME OF DESIGN. SLOPES MAY VARY IN THE FIELD BUT MUST BE NO STEEPER THAN 3H:1V.
3. LEVEE CROWN AND BIKE PATH SURFACING NOT SHOWN. SEE TYPICAL SECTIONS FOR SURFACING DETAILS.
4. CUTOFF WALL TIP ELEVATION NOT SHOWN, SEE DWG L-3 FOR DETAILS.
5. FOR "L1" AND "BP1" LINE DETAILS SEE LAYOUT PLAN.
6. SEE TYPICAL SECTIONS AND PROFILE FOR BIKE PATH "BP1" CONSTRUCTION DETAILS AND PROFILE.

20 10 0 20 40

SCALE: 1"=20'

100% DESIGN L-5

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: H. VELASQUEZ
DATE 06/06/2025

DESIGNED BY: E. TICEN
R.C.E. C83475 DATE 06/06/2025

CHECKED BY: M. FREITAS
R.C.E. C36451 DATE 06/06/2025

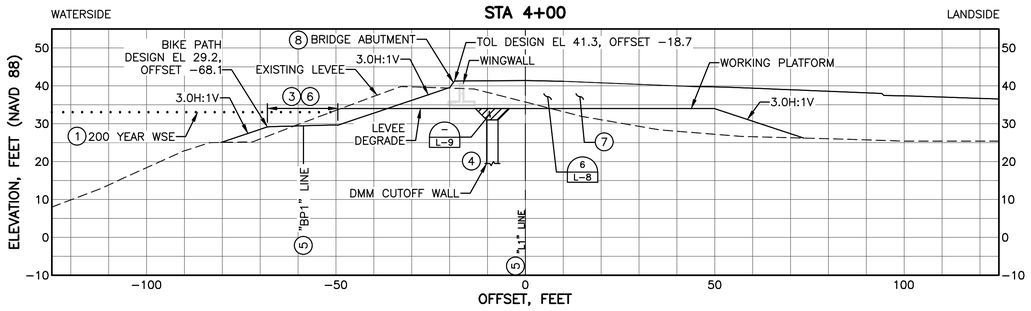
GEI Consultants
UNDER THE SUPERVISION OF: ELLIOTT TICEN
R.C.E. C83475
EXP. 03/31/27

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
LEVEE SECTIONS
"L1" LINE STA: 1+00 TO 3+50

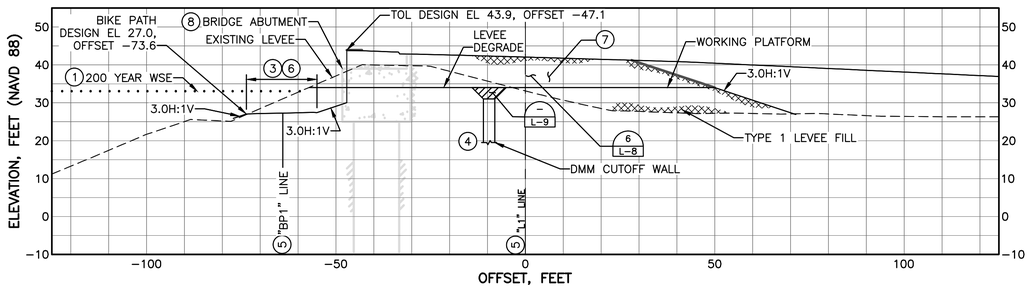
T15136000

SHEET 238 — OF — 648

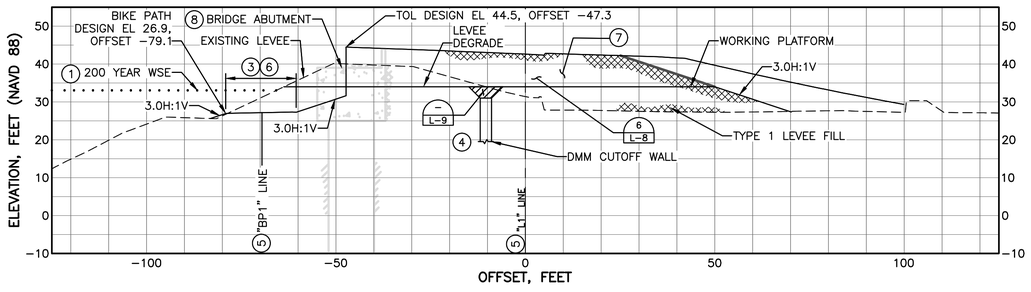
STA 4+00



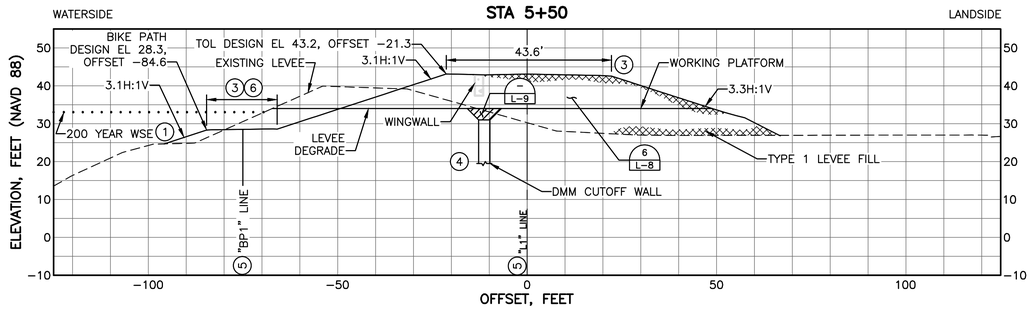
STA 4+50



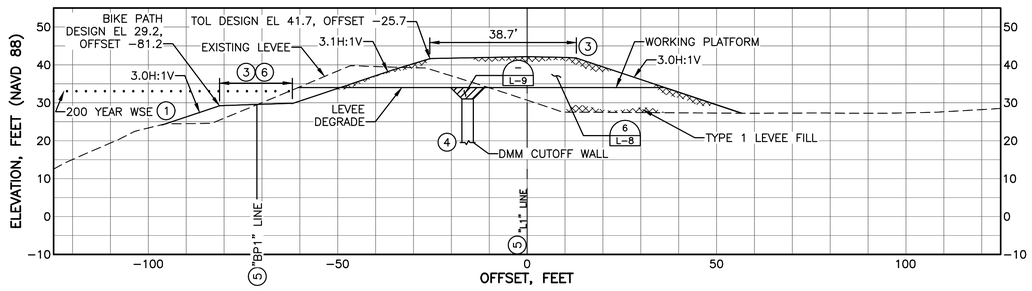
STA 5+00



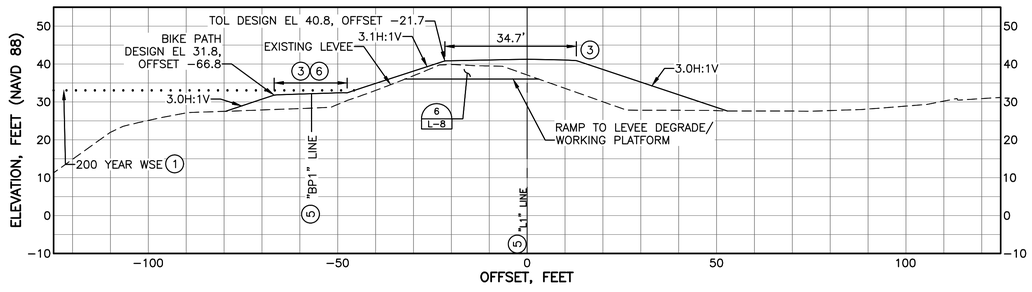
STA 5+50



STA 6+00



STA 6+50



CONSTRUCTION NOTES:

1. 200−YEAR WSE BASED ON 200−YEAR CVHS HYDROLOGY INCLUDING SYSTEM SACRAMENTO RIVER WATERSHED IMPROVEMENTS SUCH AS THE LOWER ELKHORN BASIN LEVEE SETBACK PROJECT AND THE SACRAMENTO WEIR EXPANSION PROJECT (MBK 2021).
2. SLOPES IDENTIFIED ARE APPROX AND BASED ON TOPOGRAPHIC INFORMATION AVAILABLE AT THE TIME OF DESIGN. SLOPES MAY VARY IN THE FIELD BUT MUST BE NO STEEPER THAN 3H:1V.
3. LEVEE CROWN AND BIKE PATH SURFACING NOT SHOWN. SEE TYPICAL SECTIONS FOR SURFACING DETAILS.
4. CUTOFF WALL TIP ELEVATION NOT SHOWN, SEE DWG L−3 FOR DETAILS.
5. FOR "L1" AND "BP1" LINE DETAILS SEE LAYOUT PLAN.
6. SEE DWG TYPICAL SECTIONS AND PROFILE FOR BIKE PATH "BP1" CONSTRUCTION DETAILS AND PROFILE.
7. BRIDGE RAMP AREA, SEE CONSTRUCTION DETAILS.
8. BRIDGE ABUTMENT AND FOUNDATION CONSTRUCTED PRIOR TO DMM CUTOFF WALL, SEE CONSTRUCTION DETAILS.

100% DESIGN L-6

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: H. VELASQUEZ
DATE 06/06/2025

DESIGNED BY: E. TICEN
R.C.E. C83475 DATE 06/06/2025

CHECKED BY: M. FREITAS
R.C.E. C36451 DATE 06/06/2025

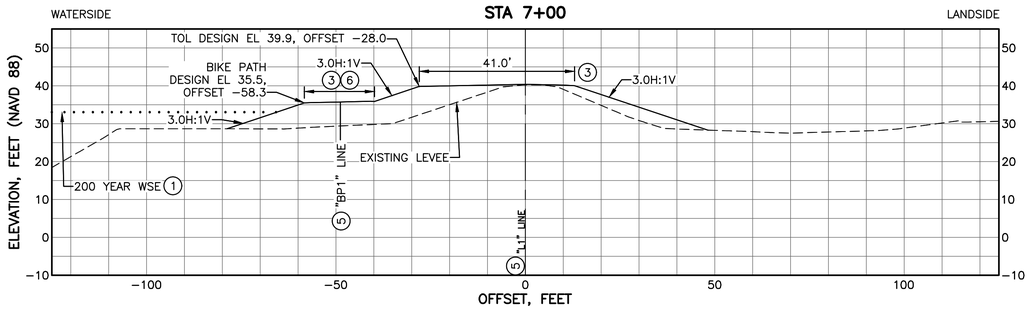
GEI Consultants
UNDER THE SUPERVISION OF: ELLIOTT TICEN
R.C.E. C83475
EXP. 03/31/27

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
LEVEE SECTIONS
"L1" LINE STA: 4+00 TO 6+50

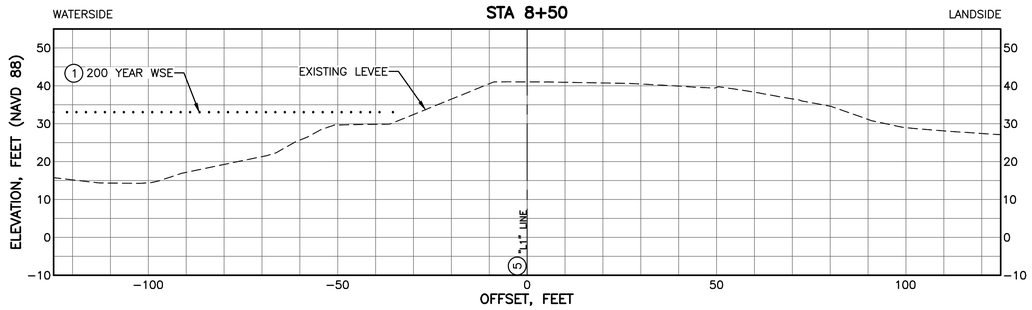
T15136000

SHEET 239 — OF — 648

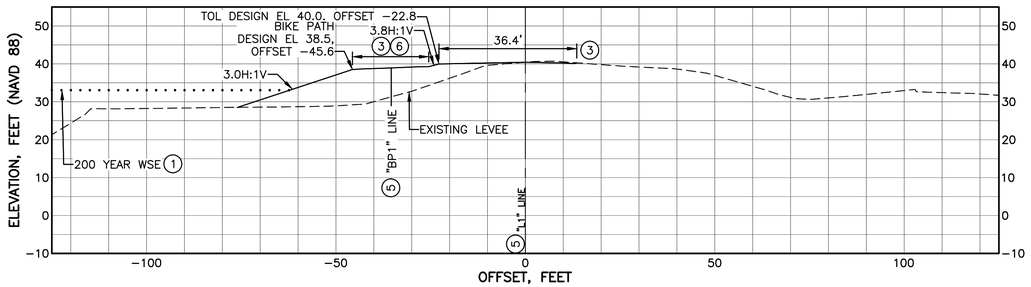
STA 7+00



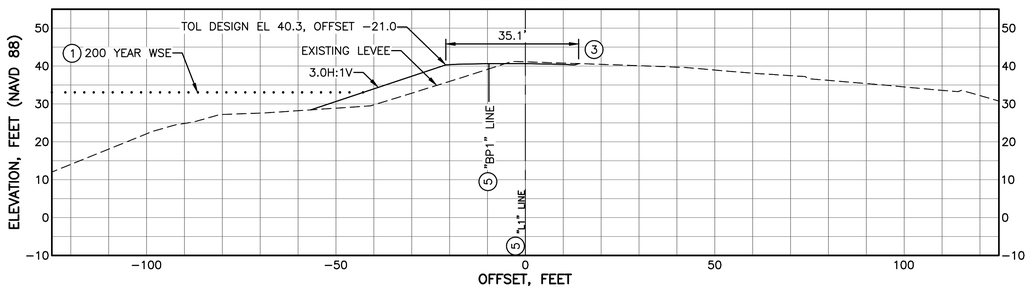
STA 8+50



STA 7+50



STA 8+00



CONSTRUCTION NOTES:

1. 200−YEAR WSE BASED ON 200−YEAR CVHS HYDROLOGY INCLUDING SYSTEM SACRAMENTO RIVER WATERSHED IMPROVEMENTS SUCH AS THE LOWER ELKHORN BASIN LEVEE SETBACK PROJECT AND THE SACRAMENTO WEIR EXPANSION PROJECT (MBK 2021).
2. SLOPES IDENTIFIED ARE APPROX AND BASED ON TOPOGRAPHIC INFORMATION AVAILABLE AT THE TIME OF DESIGN. SLOPES MAY VARY IN THE FIELD BUT MUST BE NO STEEPER THAN 3H:1V.
3. LEVEE CROWN AND BIKE PATH SURFACING NOT SHOWN. SEE TYPICAL SECTIONS FOR SURFACING DETAILS.
4. CUTOFF WALL TIP ELEVATION NOT SHOWN, SEE DWG L−3 FOR DETAILS.
5. FOR "L1" AND "BP1" LINE DETAILS SEE LAYOUT PLAN.
6. SEE TYPICAL SECTIONS AND PROFILE FOR BIKE PATH "BP1" CONSTRUCTION DETAILS AND PROFILE.

20 10 0 20 40

SCALE: 1"=20'

100% DESIGN L-7

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: H. VELASQUEZ
DATE 06/06/2025

DESIGNED BY: E. TICEN
R.C.E. C83475 DATE 06/06/2025

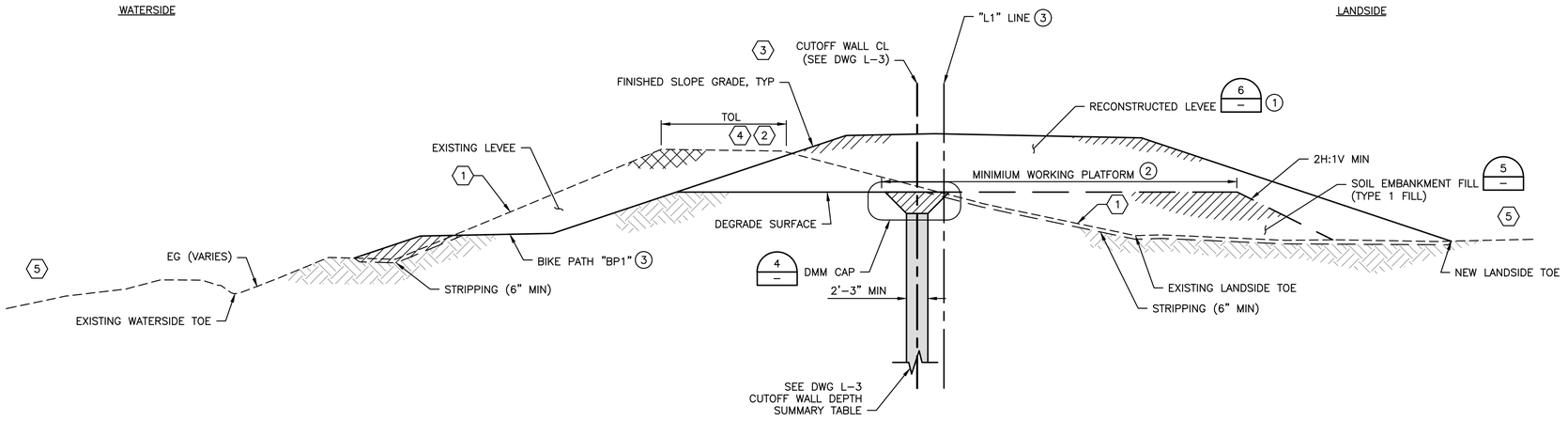
CHECKED BY: M. FREITAS
R.C.E. C36451 DATE 06/06/2025

GEI Consultants
UNDER THE SUPERVISION OF: ELLIOTT TICEN
R.C.E. C83475
EXP. 03/31/27

I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER
LEVEE SECTIONS
"L1" LINE STA: 7+00 TO 8+50

T15136000

SHEET 240 — OF — 648



DMM CUTOFF WALL TYPICAL SECTION

NTS

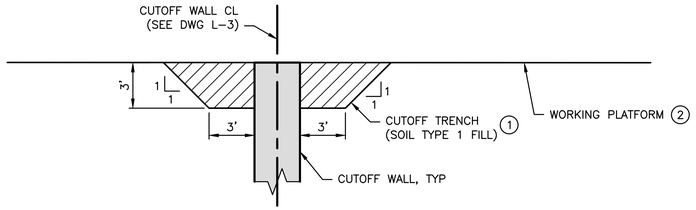
1
–

CONSTRUCTION NOTES:

1. CLEAR AND GRUB LANDSIDE SLOPE TO CONSTRUCTION LIMIT OR 5' BEYOND NEW LANDSIDE LEVEE TOE, WHICHEVER IS CLOSER TO THE LEVEE CREST. CLEAR AND GRUB WATERSIDE SLOPE TO CONSTRUCTION LIMIT OR 5 FEET BEYOND EDGE OF WATERSIDE FINISHED SLOPE GRADE, WHICHEVER IS CLOSER TO THE LEVEE CREST. EXISTING TREES WITHIN THE LIMITS OF CLEARING MUST NOT BE REMOVED UNLESS SHOWN TO BE REMOVED ON THE DRAWINGS.
2. CROWN SURFACING NOT SHOWN FOR CLARITY.
3. THE CUTOFF WALL OFFSET IS IDENTIFIED FROM THE "L1" LINE IN DWG L–3.
4. AGGREGATE CROWN SURFACING MUST BE STRIPPED IN ACCORDANCE WITH PROJECT SPECIFICATIONS. AGGREGATE CROWN SURFACING THICKNESS IS VARIABLE AND CAN RANGE FROM ABOUT 3 INCHES UP TO IN EXCESS OF 6 INCHES DEPENDING ON THE LOCATION.
5. CONTRACTOR MUST NOT DISTURB AREAS OUTSIDE OF THE APPROVED CONSTRUCTION LIMITS.
6. CONFIGURATION OF SPOILS TRENCH TO BE DETERMINED BY CONTRACTOR. REMOVE ALL SPOILS AND BACKFILL SPOILS TRENCH WITH TYPE 1 FILL.
7. OVERBUILD SLOPE AS NECESSARY TO MAINTAIN MINIMUM COMPACTION WIDTH AND TRIM SLOPE TO REQUIRED FINAL GRADE.
8. PLACE FILL IN HORIZONTAL LIFTS AGAINST VERTICAL FACES CUT INTO EXISTING LEVEE MATERIAL.

NOTES:

1. SEE DWG L–9 FOR CUTOFF WALL CONSTRUCTION SEQUENCING.
2. MINIMUM WORKING PLATFORM WIDTH IS 50 FT. MINIMUM WORKING PLATFORM LANDWARD OF THE DMM WALL CENTERLINE IS 45 FT. SEE DWG L–3 FOR LEVEE DEGRADE/WORKING PLATFORM ELEVATIONS.
3. FOR "L1" AND "BP1" LINE DETAILS SEE LAYOUT PLAN.
4. THE DESIGN TOL ELEVATION IS MEASURED TO THE BOTTOM OF THE CROWN SURFACING.
5. SEE DWG L–4 FOR RECONSTRUCTED LEVEE PROFILE EL.
6. SEE TABLE ON DWG L–4 FOR LEVEE RECONSTRUCTION DETAILS AND DIMENSIONS.



CUTOFF TRENCH DETAIL

NTS

DMM CUTOFF WALL

2
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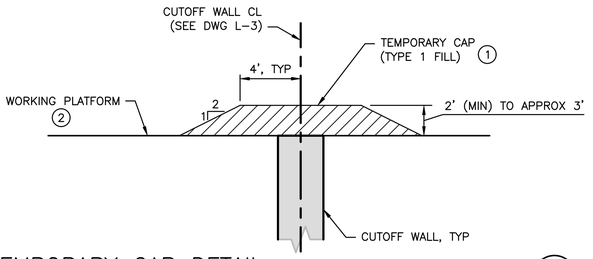

TEMPORARY CAP DETAIL

NTS

DMM CUTOFF WALL

3
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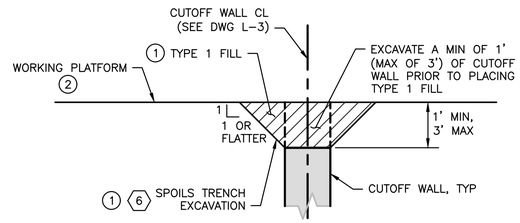

DMM CAP DETAIL

NTS

DMM CUTOFF WALL

4
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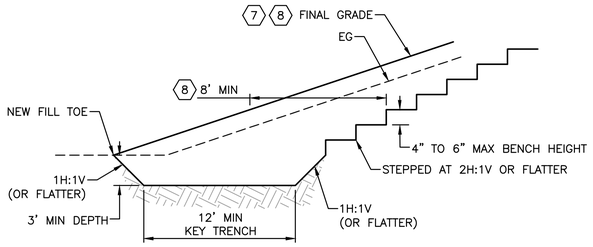

SLOPE BENCHING DETAIL, TYP

NTS

(LANDSIDE OR WATERSIDE)

5
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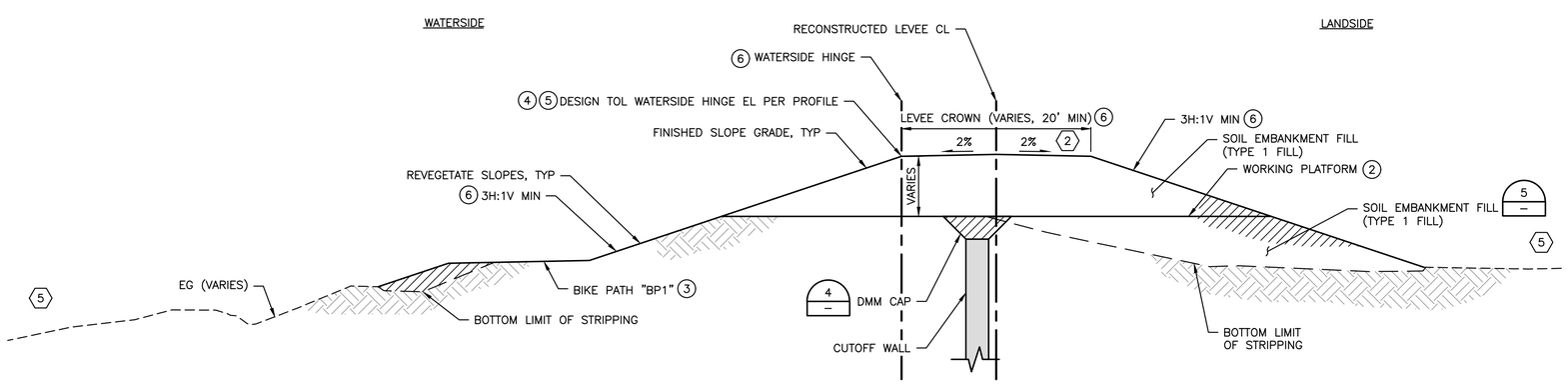


RECONSTRUCTED LEVEE SECTION

NTS

6
–

100% DESIGN L-8

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

SCALE
HORIZ. ____
VERT. ____

CITY OF SACRAMENTO
DEPARTMENT OF PUBLIC WORKS

DRAWN BY: H. VELASQUEZ
DATE 06/06/2025

DESIGNED BY: E. TICEN
R.C.E. C83475 DATE 06/06/2025

CHECKED BY: M. FREITAS
R.C.E. C36451 DATE 06/06/2025

GEI Consultants
UNDER THE SUPERVISION OF:
ELLIOTT TICEN
R.C.E. C83475
EXP. 03/31/27

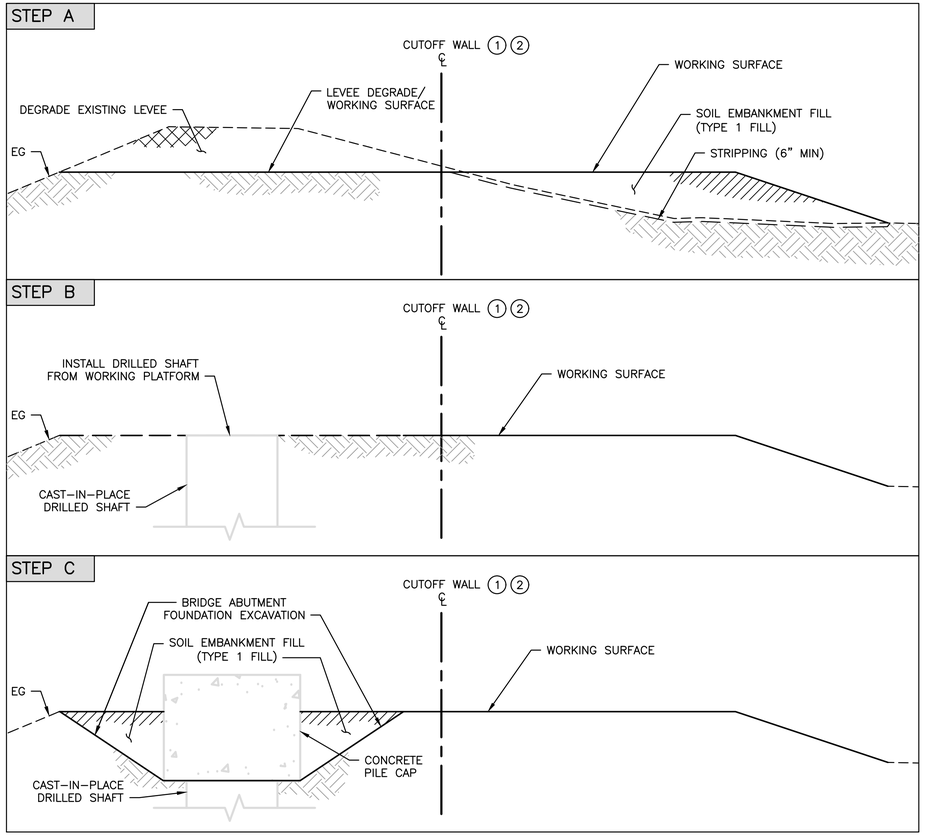
I STREET BRIDGE REPLACEMENT
OVER SACRAMENTO RIVER

TYPICAL SECTIONS AND DETAILS

T15136000

SHEET 241 — OF — 648

BRIDGE ABUTMENT FOUNDATION CONSTRUCTION SEQUENCE



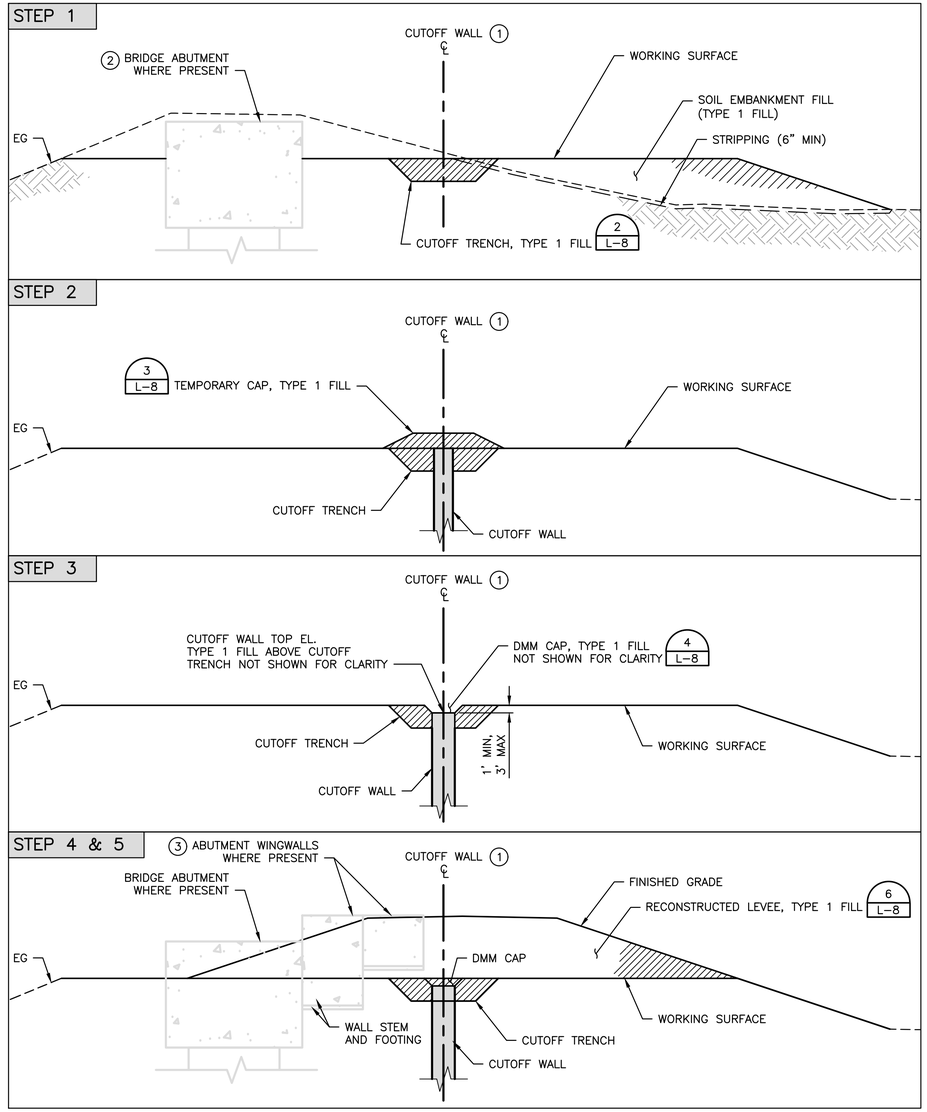
ABUTMENT CONSTRUCTION SEQUENCE:

STEP A:
- STRIP A MINIMUM OF 6" FROM AREAS THAT ARE TO RECEIVE FILL.
- PLACE LANDWARD FILL AS NECESSARY TO ESTABLISH WORKING SURFACE.
- DEGRADE EXISTING LEVEE AS NECESSARY TO ESTABLISH WORKING SURFACE.

STEP B:
- INSTALL DRILLED SHAFTS.

STEP C:
- EXCAVATE ABUTMENT TO BOTTOM OF PILE CAP.
- BUILD PILE CAP.
- BACKFILL ABUTMENT.

DMM CUTOFF WALL CONSTRUCTION SEQUENCE



CUTOFF WALL CONSTRUCTION SEQUENCE:

STEP 1:
- COMPLETE BRIDGE ABUTMENT FOUNDATION CONSTRUCTION SEQUENCE.
- STRIP A MINIMUM OF 6" FROM AREAS THAT ARE TO RECEIVE FILL.
- PLACE LANDWARD FILL AS NECESSARY TO ESTABLISH WORKING SURFACE.
- DEGRADE EXISTING LEVEE AS NECESSARY TO ESTABLISH WORKING SURFACE.
- EXCAVATE CUTOFF TRENCH.
- FILL WITH TYPE 1 SOIL.

STEP 2:
- CONSTRUCT CUTOFF WALL.
- PLACE TEMPORARY CAP.

STEP 3:
- REMOVE TEMPORARY CAP
- EXCAVATE CUTOFF WALL TO A DEPTH OF 1.0 FT MINIMUM (3.0 FT MAXIMUM) BELOW WORKING SURFACE.
- CONFIRM THAT EXCAVATION EXTENDS INTO ACCEPTABLE CUTOFF WALL MATERIAL.
- PLACE SOIL TYPE 1 FILL MATERIAL IN THE EXCAVATION IN ACCORDANCE WITH THE SPECIFICATIONS.

STEP 4:
- PLACE TYPE 1 FILL TO BOTTOM OF ABUTMENT WINGWALL FOOTINGS.
- CONSTRUCT ABUTMENT WINGWALLS.

STEP 5:
- BACKFILL ABUTMENT WINGWALLS AND RECONSTRUCT LEVEE EMBANKMENT WITH TYPE 1 FILL IN ACCORDANCE WITH THE SPECIFICATIONS.

NOTES:

1. SEE DWG L-3 FOR CUTOFF WALL ALIGNMENT DETAILS.
2. BRIDGE ABUTMENT FOUNDATION CONSTRUCTED PRIOR TO DMM CUTOFF WALL.
3. WINGWALLS FOR BRIDGE ABUTMENT CONSTRUCTED AFTER DMM CUTOFF WALL.
4. LEVEE DEGRADE, BRIDGE ABUTMENT, DMM WALL, RETAINING WALLS, AND LEVEE REBUILD MUST HAPPEN DURING ONE CONSTRUCTION SEASON BETWEEN APRIL 15TH AND NOVEMBER 1ST.

100% DESIGN

REVISIONS NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. _____

FIELD BOOK

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VERT. ____

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OVER SACRAMENTO RIVER

CUTOFF WALL CONSTRUCTION SEQUENCE

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SHEET 242 — OF — 648