

I Street Bridge Replacement Project

December 9, 2025

Contractor Outreach Meeting





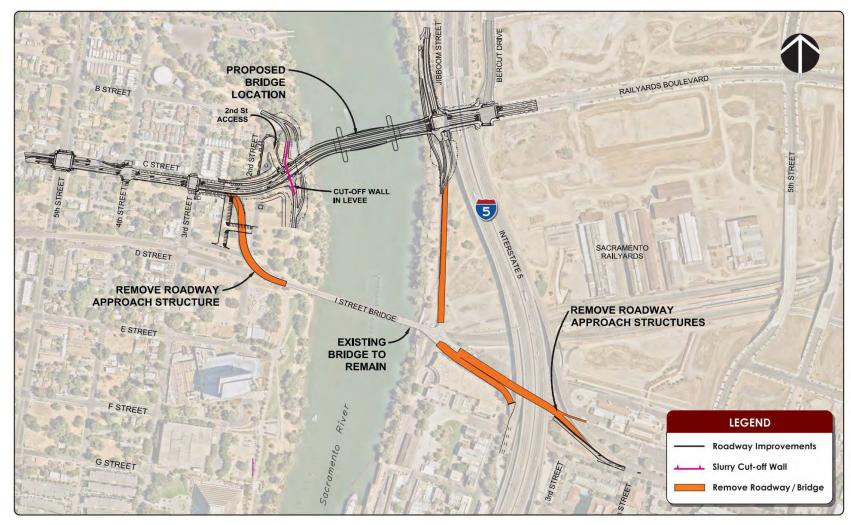
- Project Overview
- Bridge Design
- Design Details
- Drainage & Utilities
- Stage Construction
- Environmental Considerations
- Right of Way
- Project Schedule





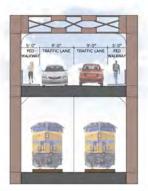


The Project

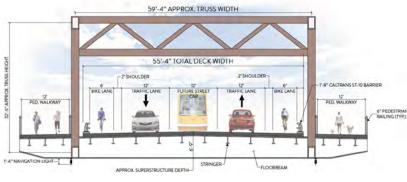


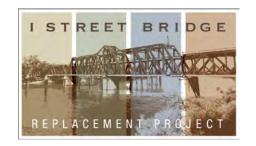
Cross Sections

Existing Bridge Cross Section



Proposed Bridge Cross Section







The Project

- Plans & Specifications
 - 2024 Caltrans Standard Plans and Specifications (with modifications)
 - Various NSSPs
 - Construction staking will be a contract bid item
 - Establish marine access
 - Potential City furnished materials for permanent steel casings
 - Specified limits on shop drawing submittals
 - Permit working window restriction for various species
 - City of Sacramento Standard Plans and Specifications
 - City of West Sacramento Standards





Bridge Design









Cross Section

- CIP Box Girder Approach Spans
- Network Tied Arch Lift Span
- 3 12ft Traffic Lanes
- 2 12ft Cantilevered Walkways
- 2 6ft Bike Lanes
- 2 10ft Bench Areas
- Out to Out 119 ft (max)







Main Span

- 308 ft Main Span
- 278 ft Navigable Channel
- 53 ft Lift Height
- 157 ft Towers





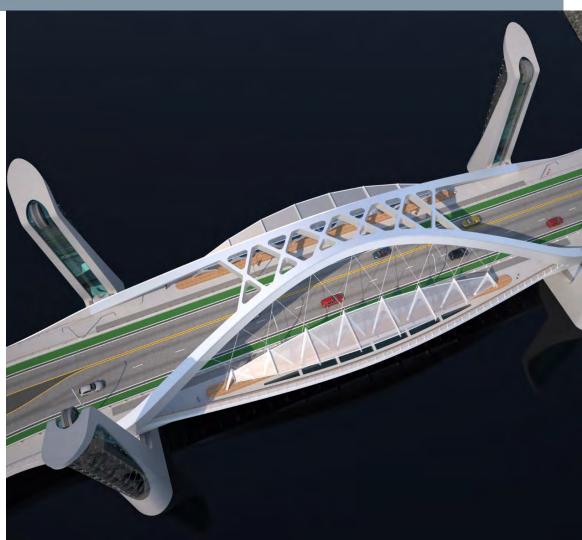




Steel

- Structural Steel 5.1M lbs
- Counterweight Steel 6.5M lbs
- ▶ Bar Reinforcing Steel 5.2M lbs
- Grand Total = 16.8M lbs of Steel

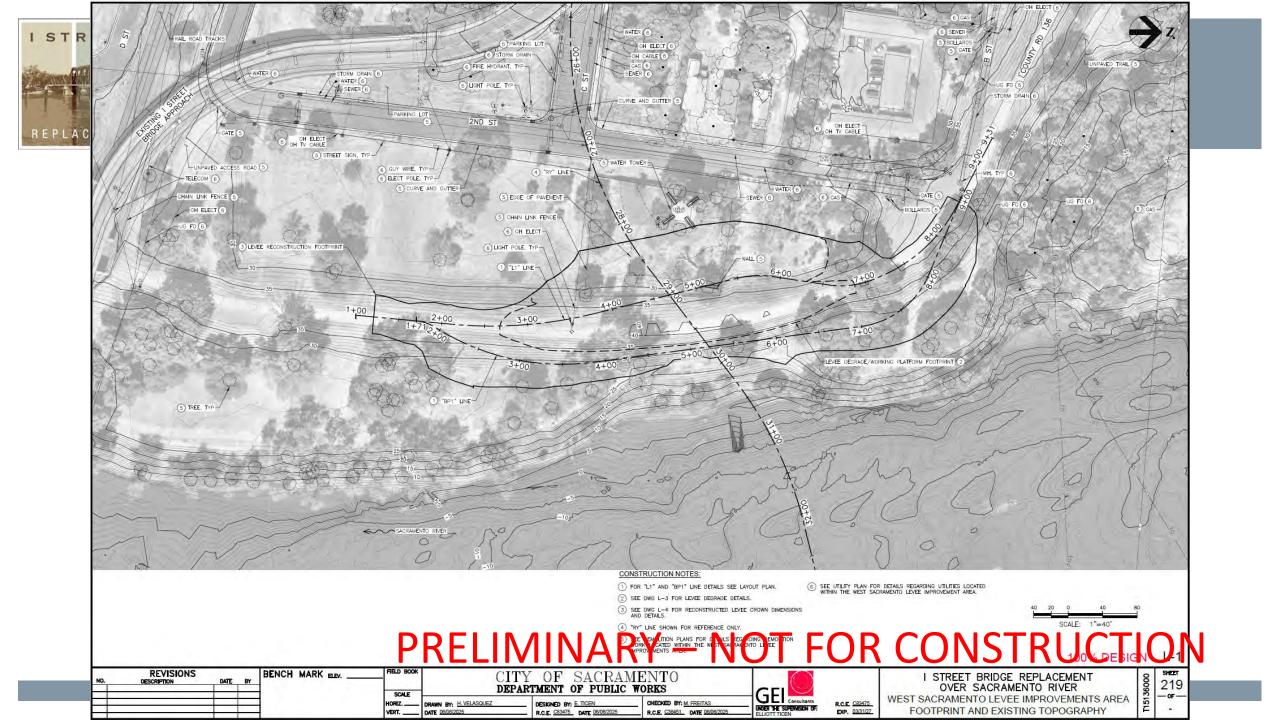
No waiver of Buy-America provisions are expected

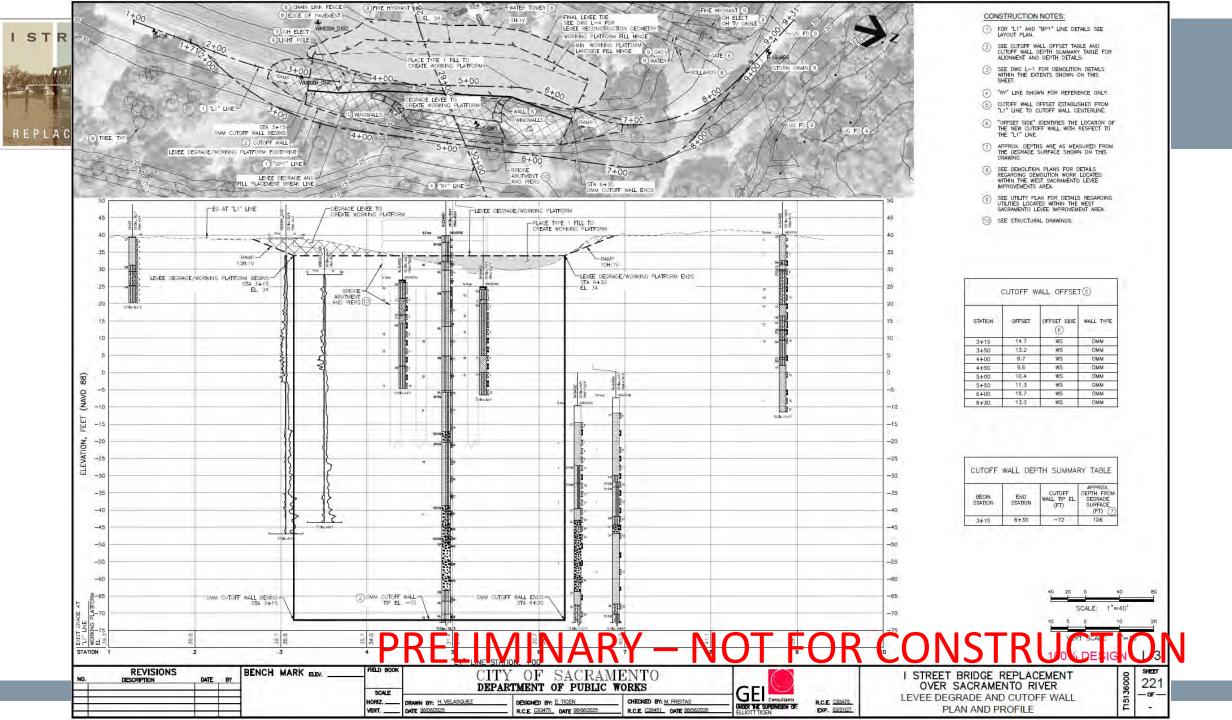


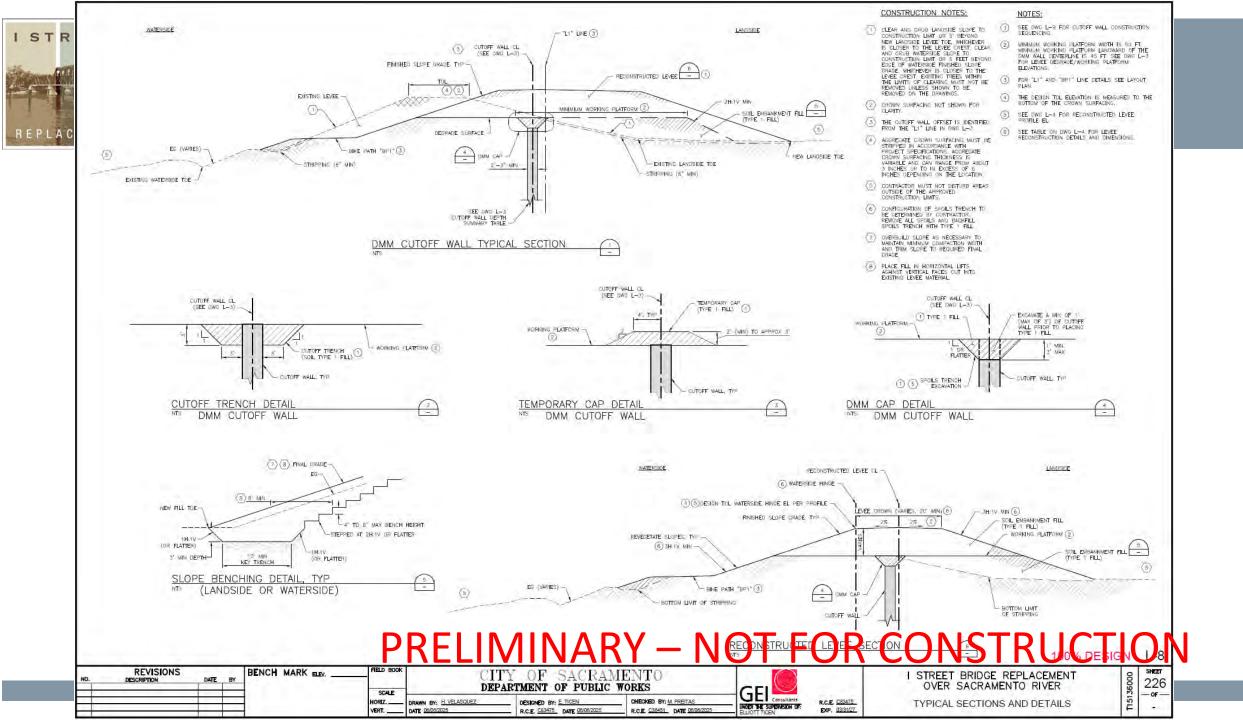


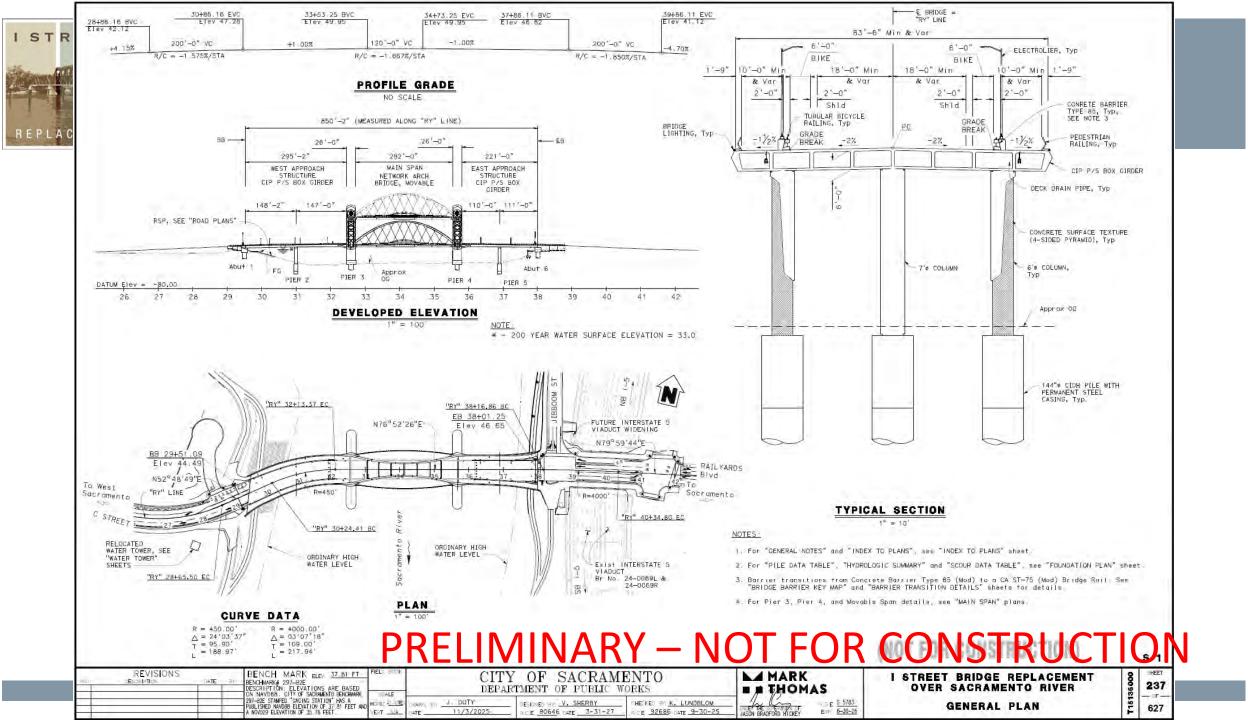


Design Details

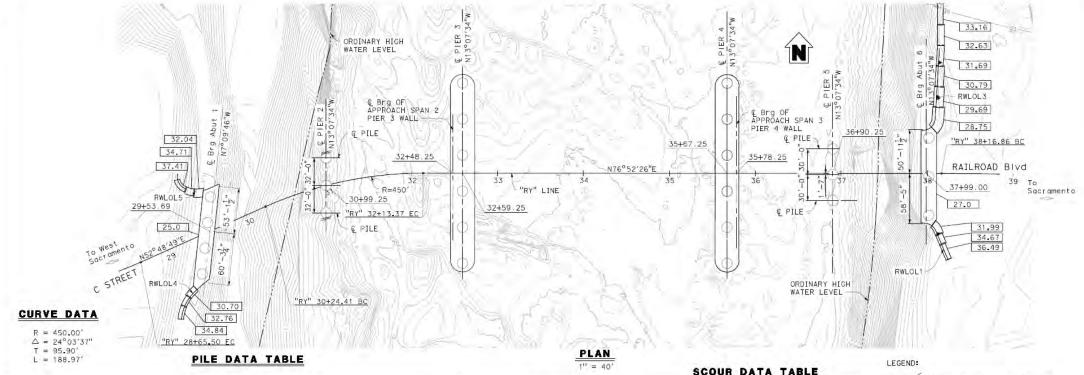












Location	As a few	Nominal Re (kip		Design Tip	Specified Tip Elevations	Cut-Off Elevation (ft)
	Pile Type	Compression	Tension	Elevations (ft)	(ff)	
Abut 1	144" CIDH	4,734	0	-96 (a), -66 (c), -125 (d)	-127	25.25
PIER 2	144" CIDH	5,976	0	-197 (a), -97 (d)	-199	-7.0
PIER 5	144" CIDH	5,976	0	-197 (a), -97 (d)	-199	-7.0
Abut 6	144" CIDH	5,148	0	-108 (a), -100 (c), -123 (d)	-125	27.25

- 1. Design tip elevations are controlled by (a) Compression, (b) Tension, (c) Settlement, (d) Lateral Load.
- 2. Do not raise specified tip elevation.
- 3. For pile data for Piers 3 and 4, see "MAIN SPAN" plans.

			В	ENCH	IMARK	AND D	ATUM						
MONUMENT	COORDINATES		ELEVATION	DESCRIPTION/LOCATION									
MOTOME)41	NORTH	EAST	LLLVAITON			DLJ	UNIT TION/LO	CATION					
297-B2E	1976613.9	6703175.1	37,81	U.S.	DEPT OF	INTERIOR	GEOLOGICAL	SURVEY	BRASS	CAP	STAMPED	"GAGING	STATION"

SCOUR DATA TABLE

Location	Long Term (Degradation and Contraction) Scour Elevation (ft)	Short Term (Local) Scour Depth (ft)
Abut 1	N/A	0
PIER 2	-13	12
PIER 5	-13	12
Abut 6	N/A	Ó

NOTE: For scour data for Piers 3 and 4, see "MAIN SPAN" plans.

HYDROLOGIC SUMMARY

Indicates Bottom of Footing

Indicates 144" Cast-in-drilled-hole

Elevation (feet)

Pile

Drainage Area: 23,500 Square Miles

Frequency (Years) 100 200 Discharge (Cubic Foot per Sec) 105,500 108,000 110,300 31.9 32.5 33.0 Water Surface (Elevation at Bridge)

Flood plain data is based upon information available when the plans were prepared and is shown to meet federal requirements. The accuracy of said

PRELIMINARY STRUCTURE

► MARK I I THOMAS

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

SHEET 253 627

JASON BRADFORD HICKEY

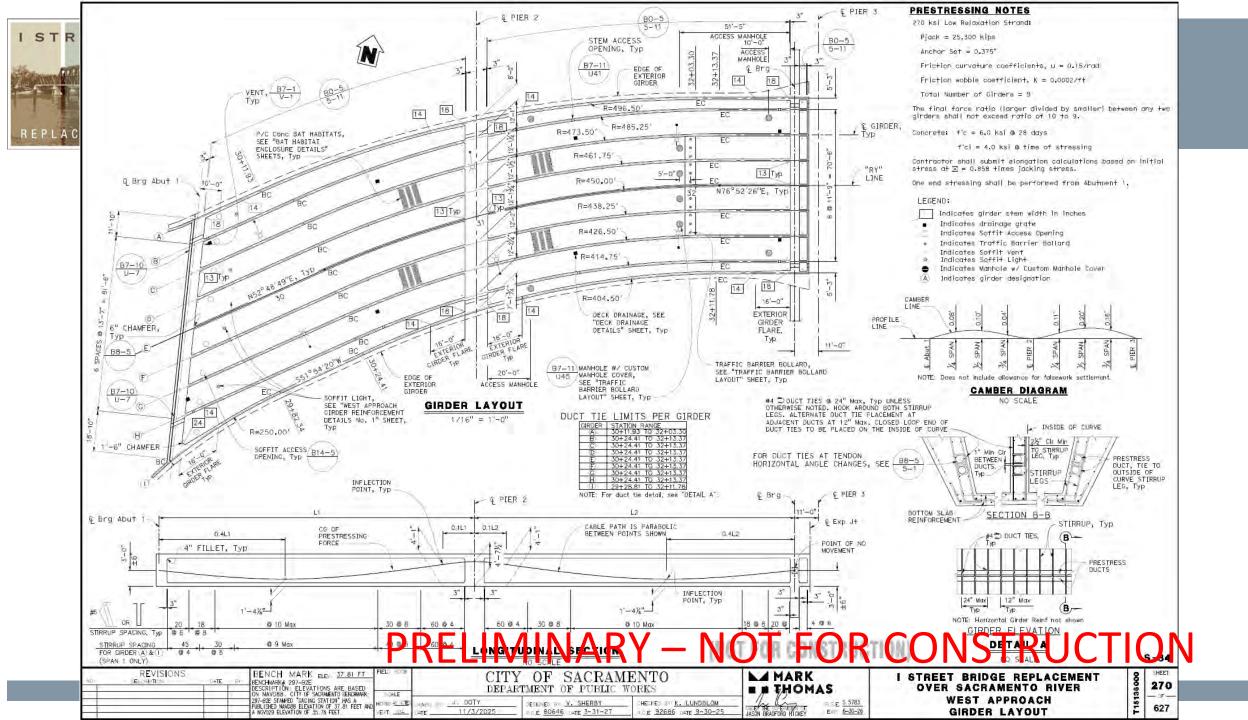
	REVISIONS	DATE	ВУ	BENCH MARK ELEV. 37.81 FT BENCHMARK# 297-B2E	FIELD BOOK	CIT	Y OF
1				DESCRIPTION: ELEVATIONS ARE BASED ON NAVD88. CITY OF SACRAMENTO BENCHMARK	SCALE	DEPA	RTMENT
				297-82E STAMPED "GAGING STATION" HAS A PUBLISHED NAVD8B ELEVATION OF 37.81 FEET AND A NGVD29 ELEVATION OF 35.78 FEET.	DESCRIPTION ASSESSED.	DATE 11/3/2025	DESIGNED BY:

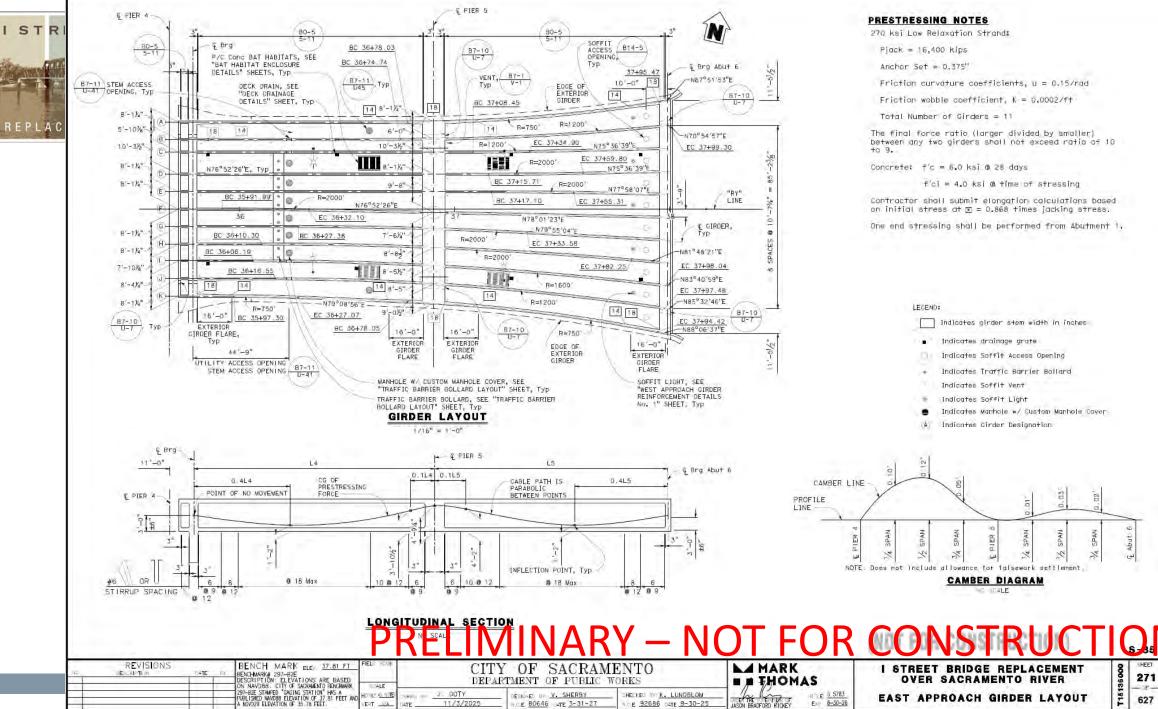
OF PUBLIC WORKS V. SHERBY CHECKED BY: K. LUNDBLOM 11/3/2025 R CE 92686 DATE 9-30-25 R.C.E. 80646 DATE 3-31-27

SACRAMENTO

Exp. 6-30-26

FOUNDATION PLAN





CHECKED BY K. LUNDBLOM

DE 92686 DATE 9-30-25

BESIGNED BY V. SHERBY

CE 80646 DATE 3-31-27

R 3 E S 5783

Ext 6-30-26

JASON BRADFORD HICKEY

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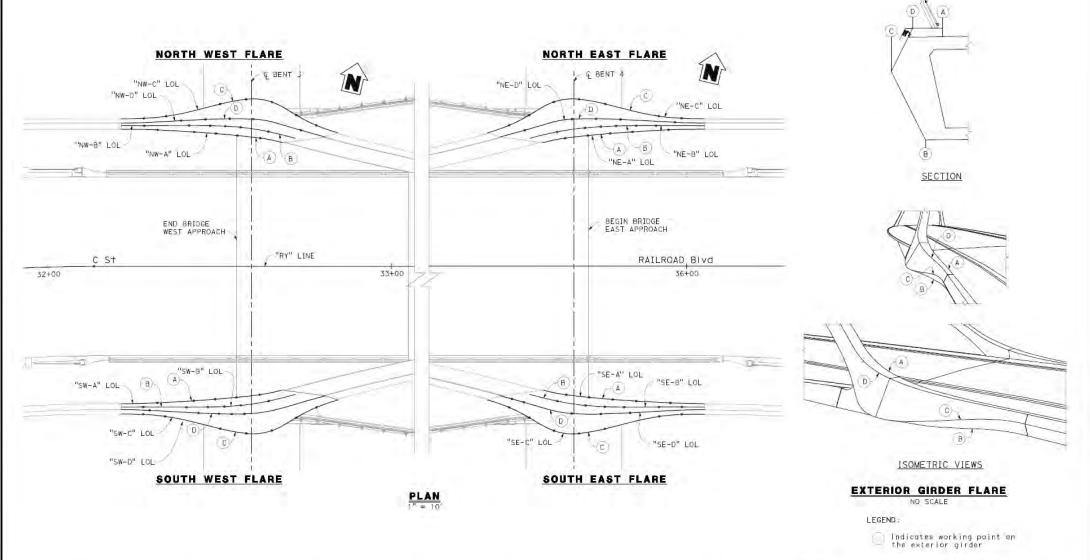
E-T JA

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EAST APPROACH GIRDER LAYOUT





CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS

BESIGNED BY V. SHERBY R.C.E. 80646 DATE 3-31-27

J. DOTY

11/3/2025

MARK

JASON BRADFORD HICKEY

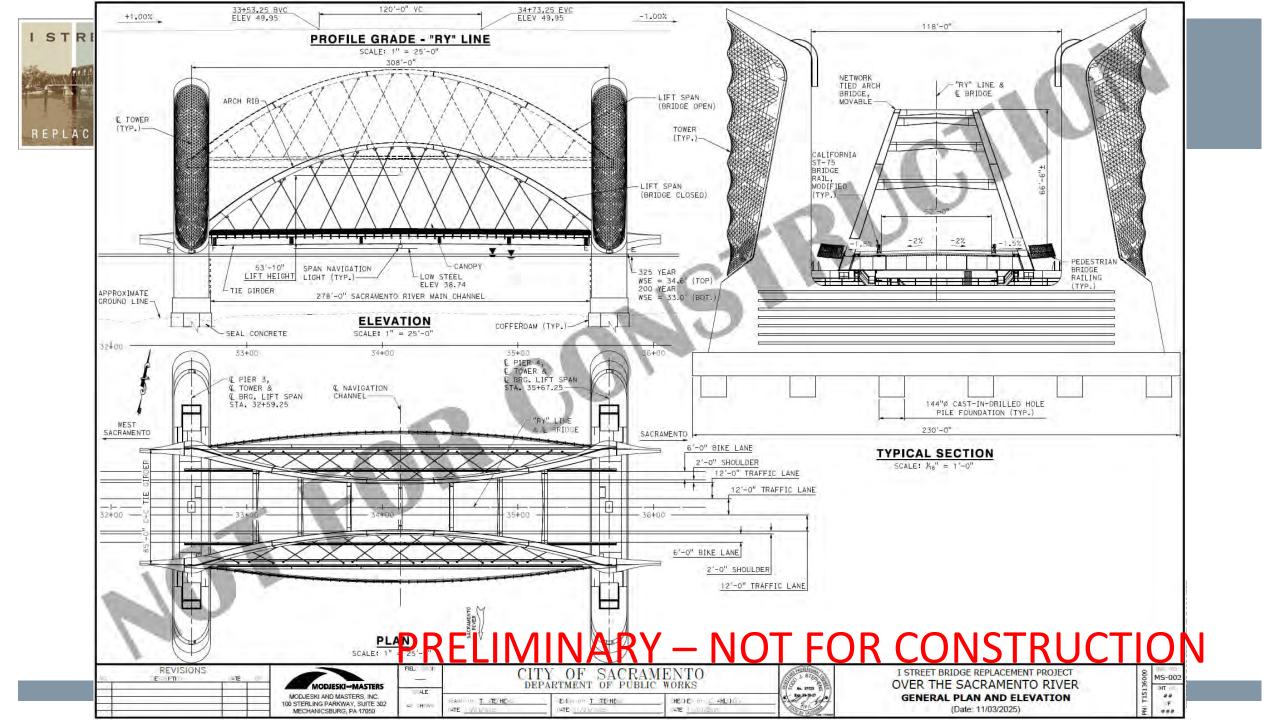
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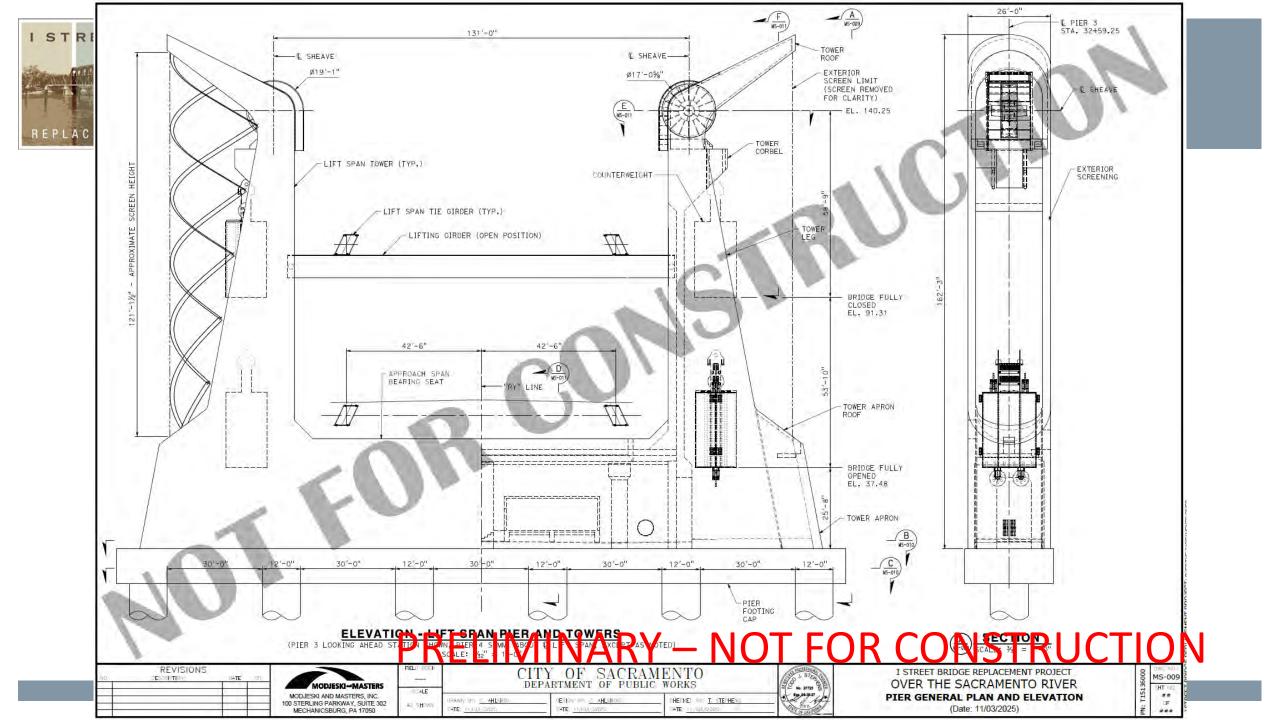
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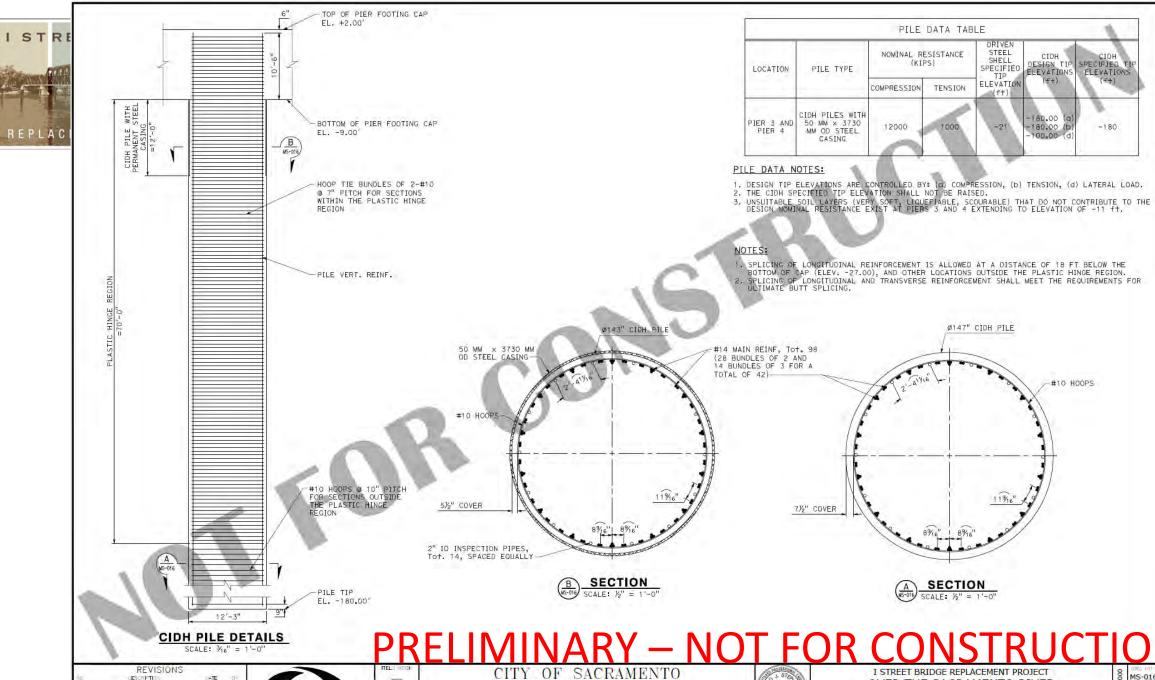
BENCH MARK ELEV 37,81 FT PELD SOON BENCHARK\$ 297-895 CONDESCRIPTION ELEVATIONS ARE BASED ON NAVIORS. CITY OF SAGNAKTIO RECHARK\$ 297-82 STARED CANDIDATION HIS A PUBLISHED NAVIORS ELEVATION OF 37 ST FEET AND A NOVIN ELEVATION OF 37 ST FEET AND VENT MARKET START OF 37 ST FEET AND VENT

REVISIONS DESCRIPTION

I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER EXTERIOR GIRDER ARCHITECTURAL FLARE LAYOUT 277 627







DEPARTMENT OF PUBLIC WORKS

ATE 1

MODJESKI-MASTERS

MODJESKI AND MASTERS, INC.

100 STERLING PARKWAY, SUITE 302

MECHANICSBURG, PA 17050

SCALE

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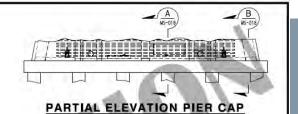
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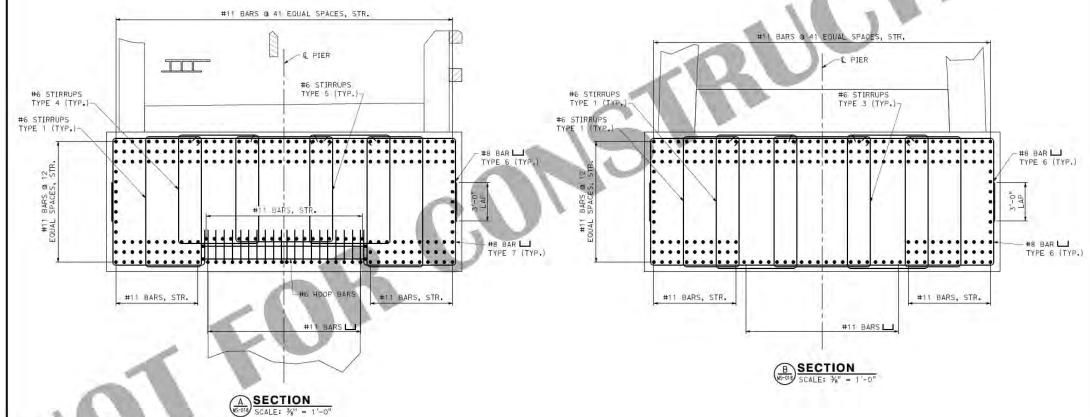
OVER THE SACRAMENTO RIVER

CIDH PILE DETAILS

(Date: 11/03/2025)







REVISIONS

MODJESKI-MASTERS MODJESKI AND MASTERS, INC. 100 STERLING PARKWAY, SUITE 302 MECHANICSBURG, PA 17050

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CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS

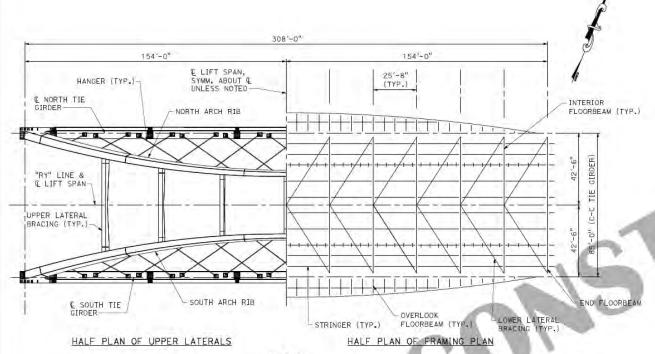
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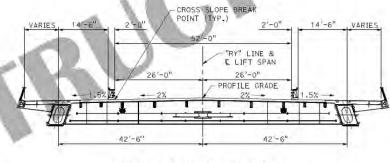
ATE II

I STREET BRIDGE REPLACEMENT PROJECT OVER THE SACRAMENTO RIVER PIER FOOTING CAP DETAILS - 2 (Date: 11/03/2025)

SHT NO. ##





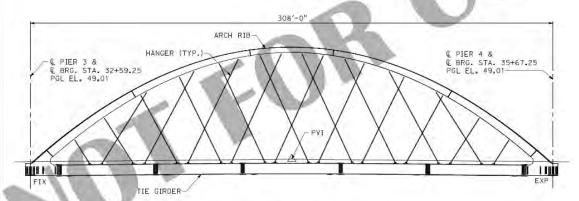


TYPICAL CROSS SECTION

SCALE: 1" = 10'-0" (HANGERS AND ARCH RIBS NOT SHOWN FOR CLARITY)

PLAN

SCALE: 1" = 20'-0"



VERTICAL CURVE DATA

P.V.I 34+13.25 EL. 50.55 120' V.C.

1.00% \$ 1.00%

NOTES:

- 1. FOR GENERAL NOTES, SEE DWG. NOS. MS-003 THRU MS-005.
- MS-003.
 2. FOR LIFT SPAN ARCH KEY ELEVATION, SEE DWG. NO. MS-080.
 3. FOR ARCH RIB, TIE GIRDER, FLOORBEAM, HANGER AND UPPER LATERAL BRACING GEOMETRY, SEE DWG. NOS. MS-081 AND MS-082.
- 4. FOR LIFT SPAN FRAMING PLAN, SEE DWG. NO. MS-123.

ELEVATION

REVISIONS

MODJESKI-MASTERS MODJESKI AND MASTERS, INC. 100 STERLING PARKWAY, SUITE 302 MECHANICSBURG, PA 17050

STALE

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OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS

RAWN BY: T. STEPHEN

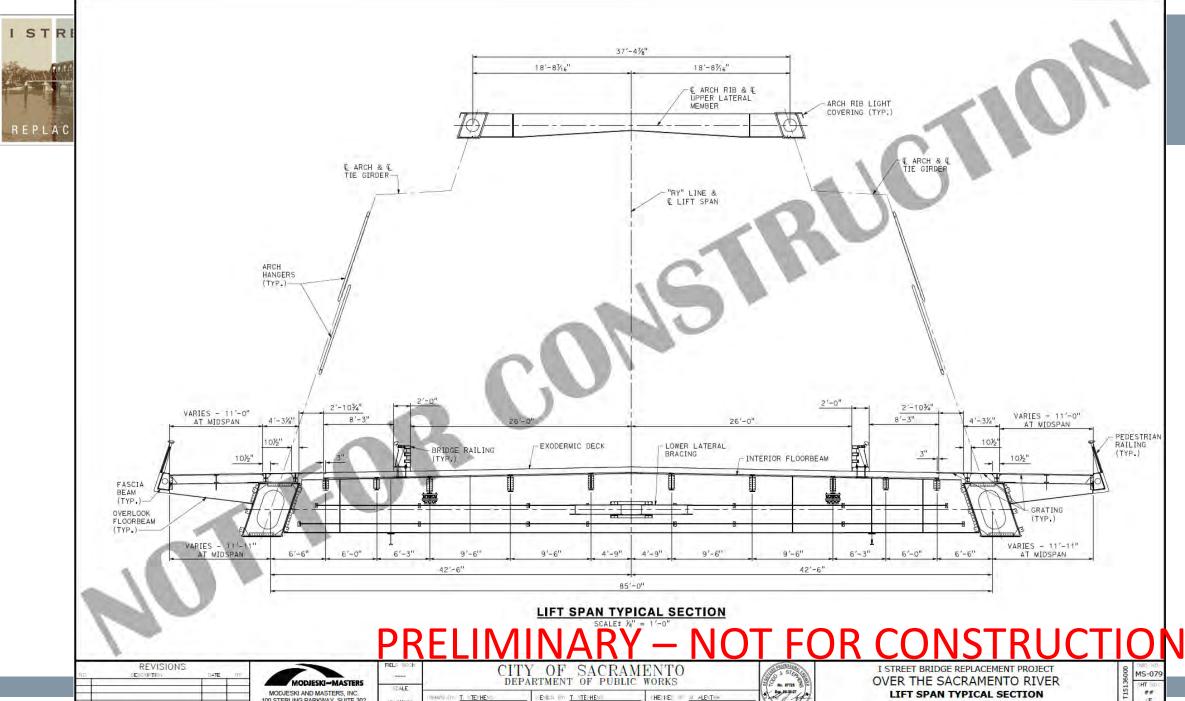
HE KE ALESTRA ATE 1



I STREET BRIDGE REPLACEMENT PROJECT OVER THE SACRAMENTO RIVER LIFT SPAN GENERAL PLAN AND ELEVATION

MS-078 SHT NO ## ###

(Date: 11/03/2025)



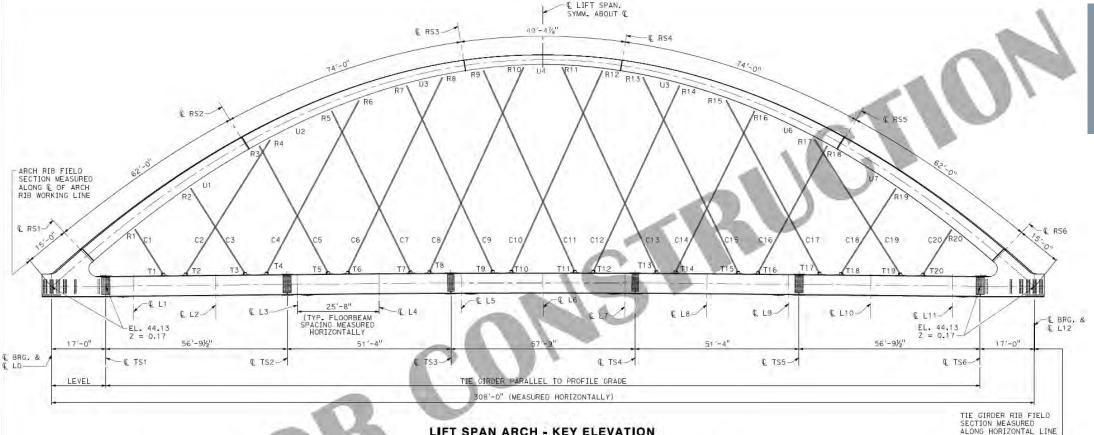
100 STERLING PARKWAY, SUITE 302 MECHANICSBURG, PA 17050

AS SHOWN

0F ***

(Date: 11/03/2025)





LIFT SPAN ARCH - KEY ELEVATION

SCALE: 3/32" = 1'-0"

LEGEND:

E(n) INDICATES HANGER MEMBER

FB(n) INDICATES FLOORBEAM MEMBER

L(n) INDICATES FLOORBEAM PANEL POINT ON TIE GIRDER WORKING LINE

LL(n) INDICATES LOWER LATERAL BRACING MEMBER

INDICATES HANGER PANEL POINT ON ARCH RIB WORKING LINE

RS(n) INDICATES ARCH RIB SPLICE ON ARCH RIB WORKING LINE

T(n) INDICATES HANGER PANEL POINT ON TIE GIRDER WORKING LINE

TS(h) INDICATES TIE GIRDER SPLICE ON TIE GIRDER WORKING LINE

U(n) INDICATES UPPER LATERAL BRACING PANEL POINT ON ARCH RIB WORKING LINE

NOTES:

- FOR GENERAL NOTES, SEE DWG. NOS. MS-003 THRU MS-005.
 FOR ARCH RIB, TIE GIRDER, HANGER AND UPPER LATERAL GEOMETRY, SEE DWG. NOS. MS-081 THRU MS-082.
- FOR KNUCKLE JOINT DETAILS, SEE DWG. NOS. MS-094 THRU MS-098.
- FOR ARCH RIB SEGMENT DETAILS, SEE DWG. NOS. MS-099 THRU MS-102.
- FOR ARCH RIB SPLICE DETAILS, SEE DWG. NOS. MS-103 THRU MS-104.
- FOR TIE GIRDER SEGMENT DETAILS, SEE DWG. NOS. MS-116 THRU MS-119. FOR TIE GIRDER SPLICE DETAILS, SEE DWG. NOS. MS-120 THRU MS-122.
- FOR HANGER CONNECTIONS AND DETAILS, SEE DWG. NOS. MS-112 THRU MS-115. FOR UPPER LATERAL CONNECTIONS AND DETAILS, SEE DWG. NOS. MS-107 THRU
- 10. FOR FLOORBEAM CONNECTIONS AND DETAILS, SEE DWG. NOS. MS-124 THRU MS-126.
 11. WORK POINT GEOMETRY IS SHOWN IN THE FINAL CAMBERED POSITION WITH FULL
- DEAD LOAD, INCLUDING FUTURE STREETCAR ADDITIONS AT THE DESIGN TEMPERATURE.

ARY – NOT FOR CONSTRUCT CITY OF SACRAMENTO

REVISIONS MODJESKI-MASTERS MODJESKI AND MASTERS, INC. 100 STERLING PARKWAY, SUITE 302 MECHANICSBURG PA 17050

SCALE

BANN BY: T. STEPHEN ATE I/

DEPARTMENT OF PUBLIC WORKS

ELIN ME T. TEPHEN ATE: 11/

No. 97725

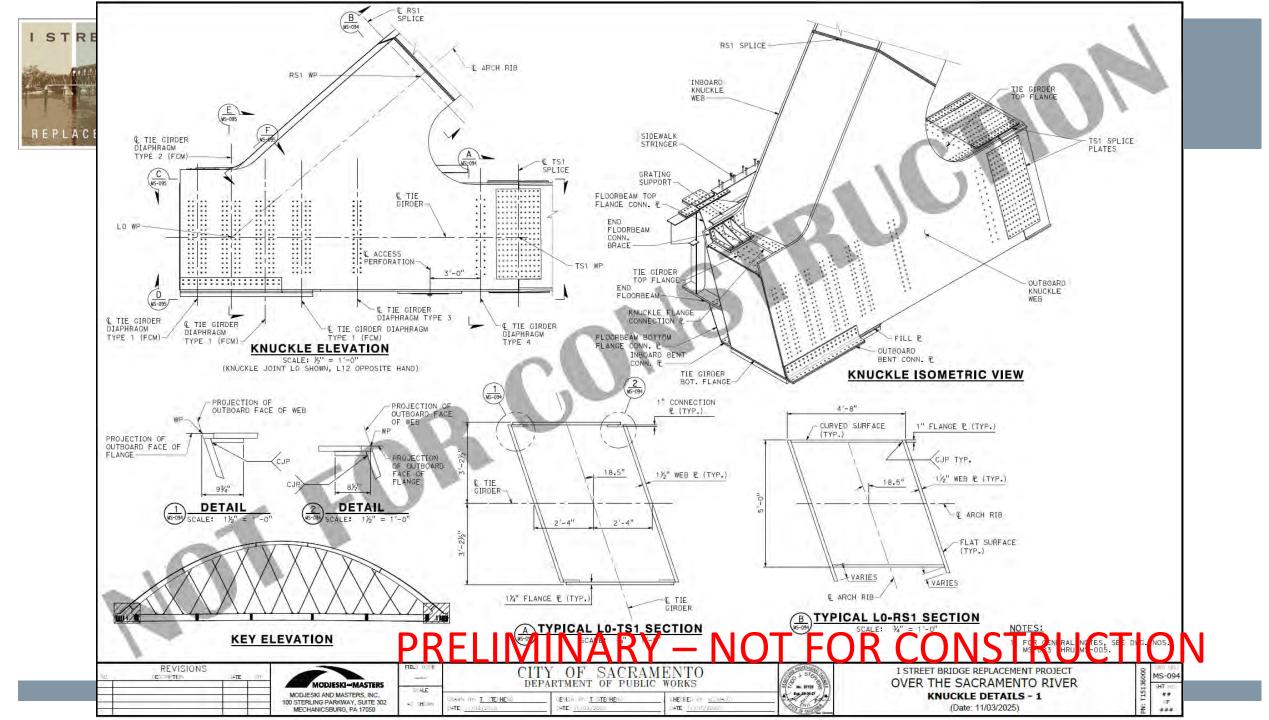
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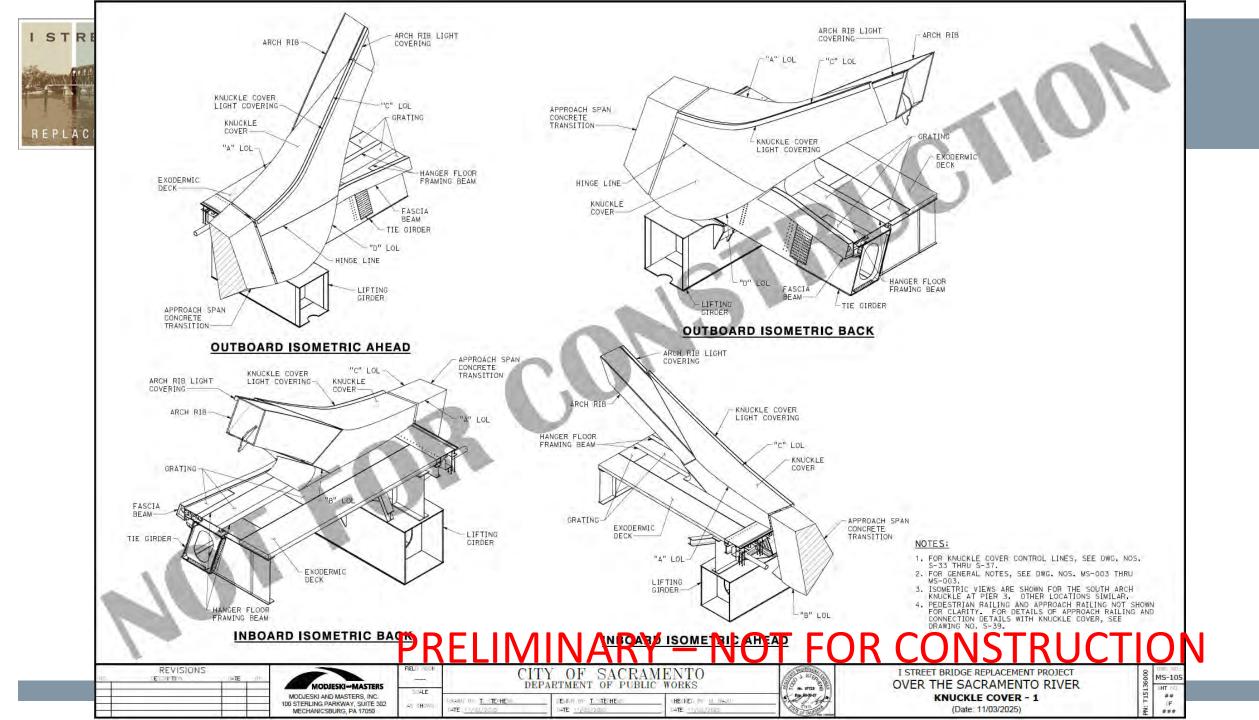
I STREET BRIDGE REPLACEMENT PROJECT OVER THE SACRAMENTO RIVER LIFT SPAN GEOMETRY - 1

CF

BETWEEN LO & L12-

(Date: 11/03/2025)

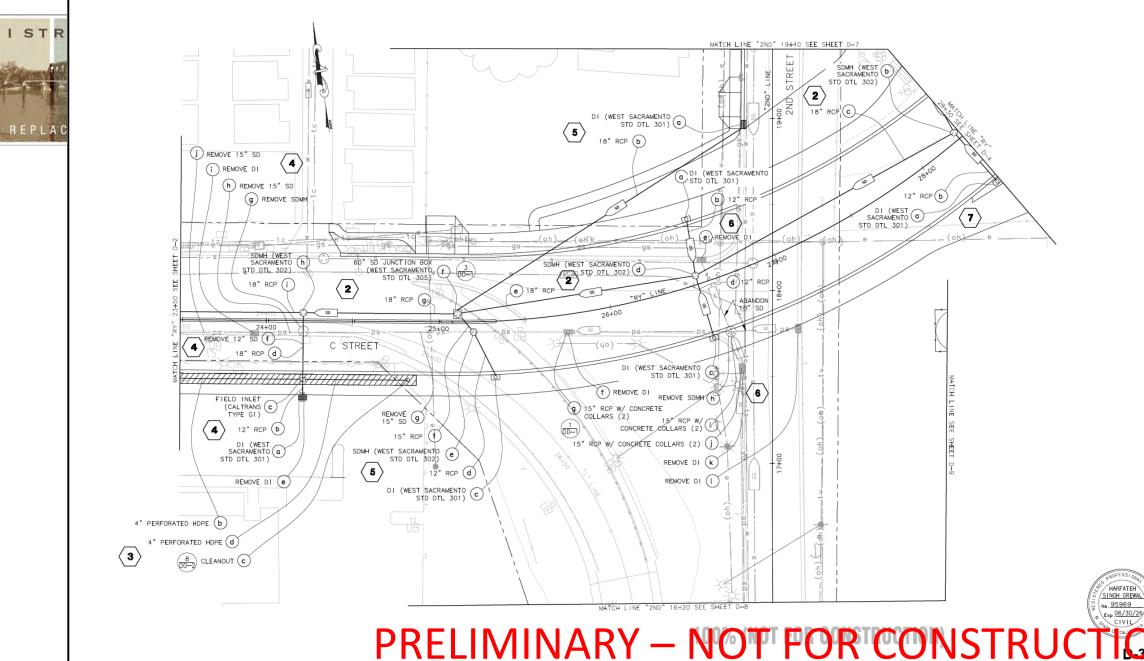








Drainage & Utilities



CITY OF SACRAMENTO **►** MARK

THOMAS

UNDER THE SUPERVISION OF: ZACH SIVIGUA

REVISIONS BENCH MARK ELEV. 37.81 FT DEINCHMARN ELEV. 37.01 FT.
BENCHMARKE 297-B2E
DESOR IPTIÖN: ELEVATIONS ARE BASED
ON NAVDBB. CITY OF SACRAKENTO BENCHMARK
297-B2E STAMFED "GACING STATION" HAS A
PUBLISHED MANOBE ELEVATION OF 37.81 FEET AND
A NGV029 ELEVATION OF 35.78 FEET. VERT.

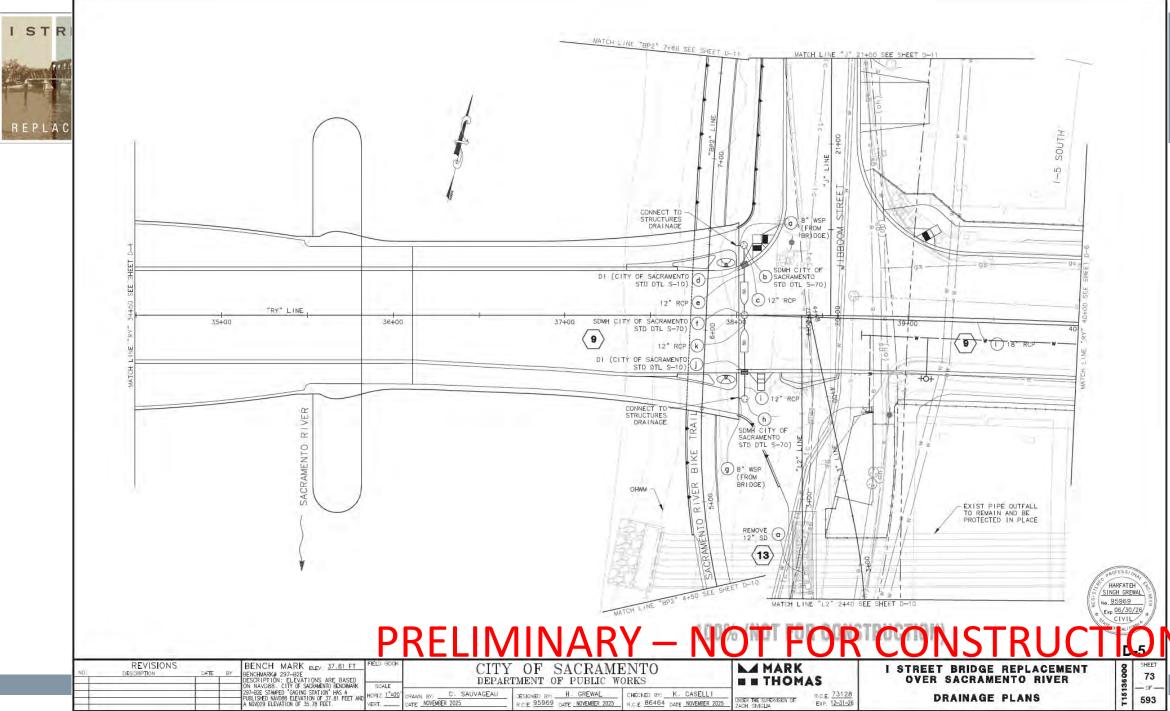
HORIZ. 1"=20" DRAWN BY: C. SAUVAGEAU DATE NOVEMBER 2025

DEPARTMENT OF PUBLIC WORKS DESIGNED BY: H. GREWAL

CHECKED BY: K. CASELLI R.C.E. 95969 DATE NOVEMBER 2025 R.C.E. 86464 DATE NOVEMBER 2025 R.C.E. 73128 EXP. 12-31-26 I STREET BRIDGE REPLACEMENT OVER SACRAMENTO RIVER

SHEET 71 - OF -593

DRAINAGE PLANS



SCALE

HORIZ 1"=20"

VERT.

CRAWN BY:

DATE MOVEMBER 2025

C. SAUVAGEAU

DESIGNED BY H - GREWAL

R.C.E. 95969 DATE NOVEMBER 2025

CHECKED BY: K - CASELLT

R.C.E. 86464 DATE NOVEMBER 2025

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

UNDER THE SUPERVISION OF ZACH SIVIGLIA

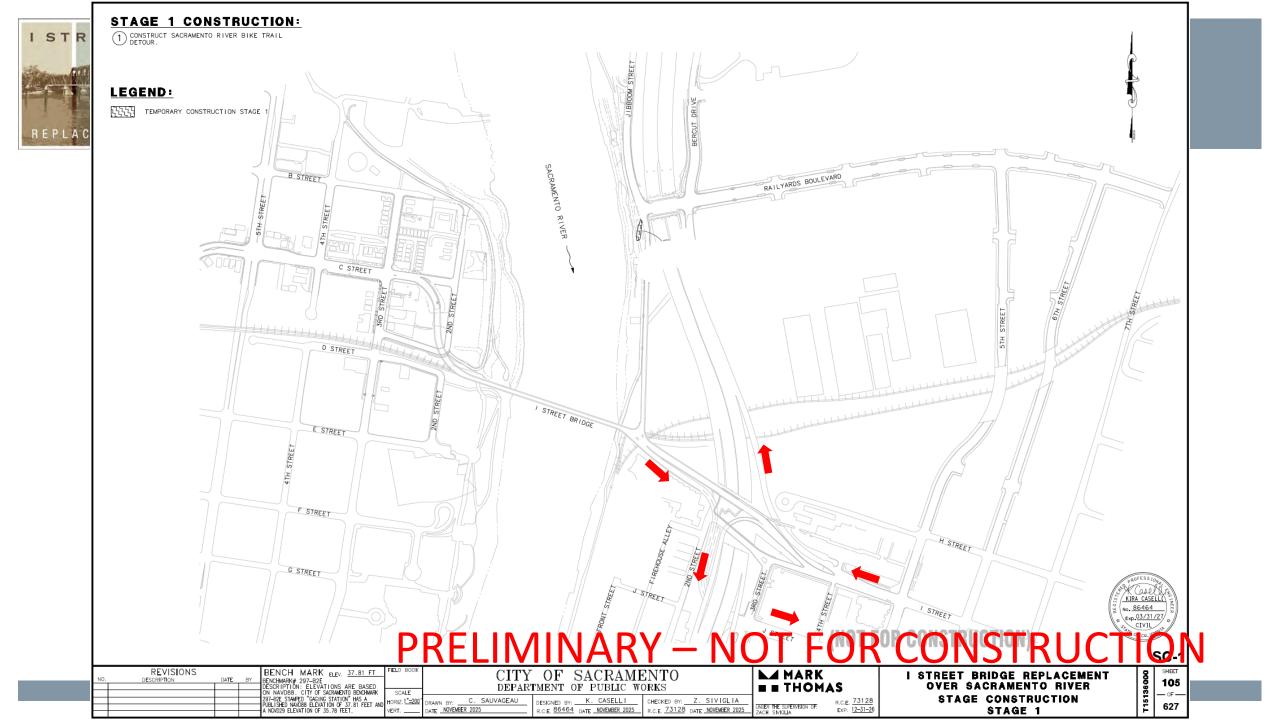
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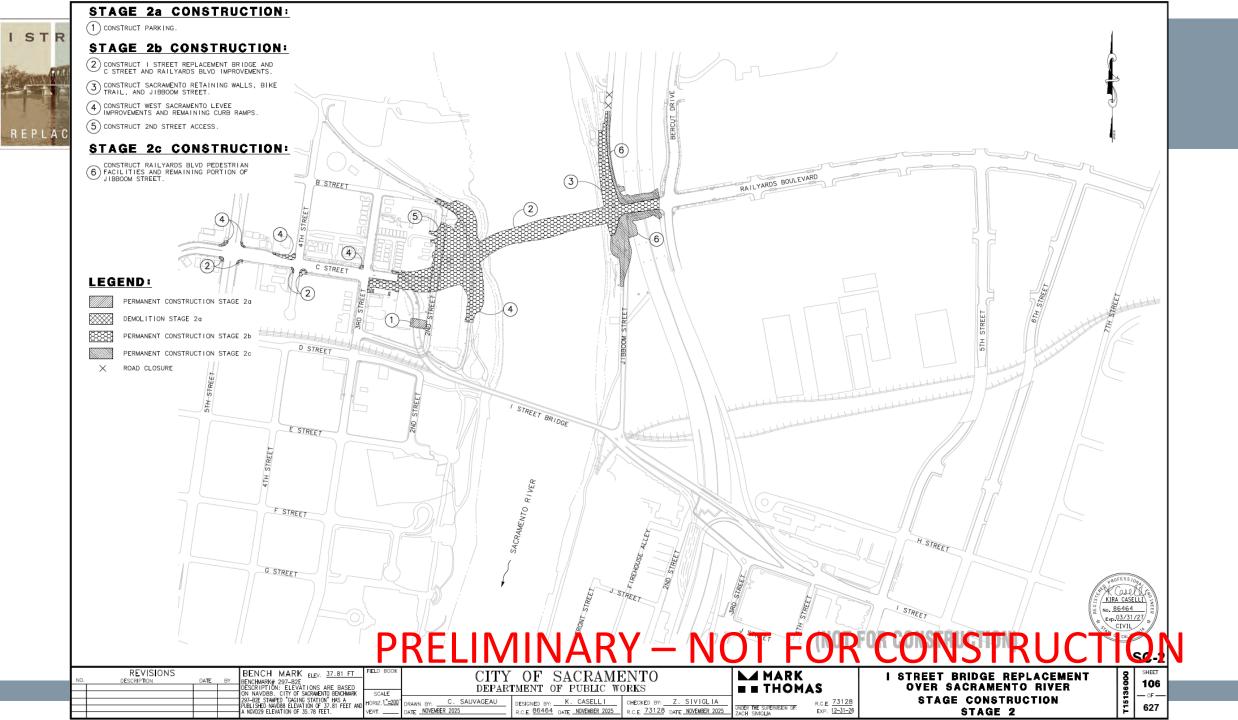
DRAINAGE PLANS

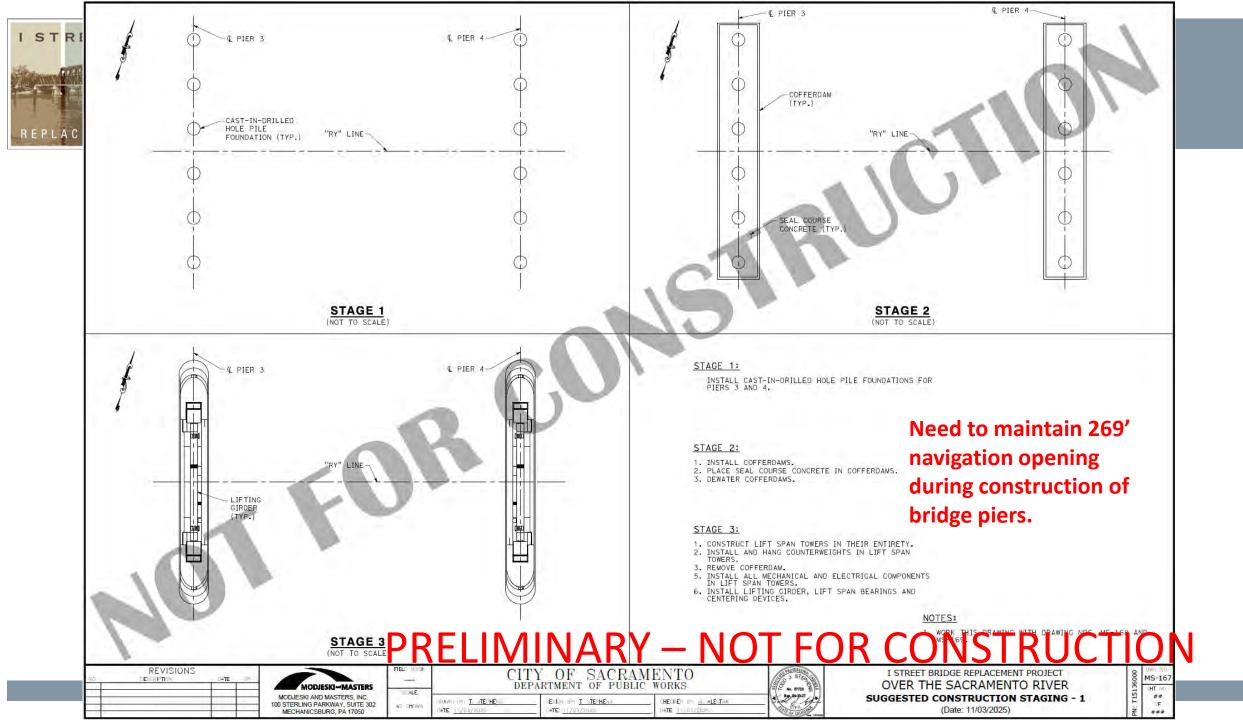


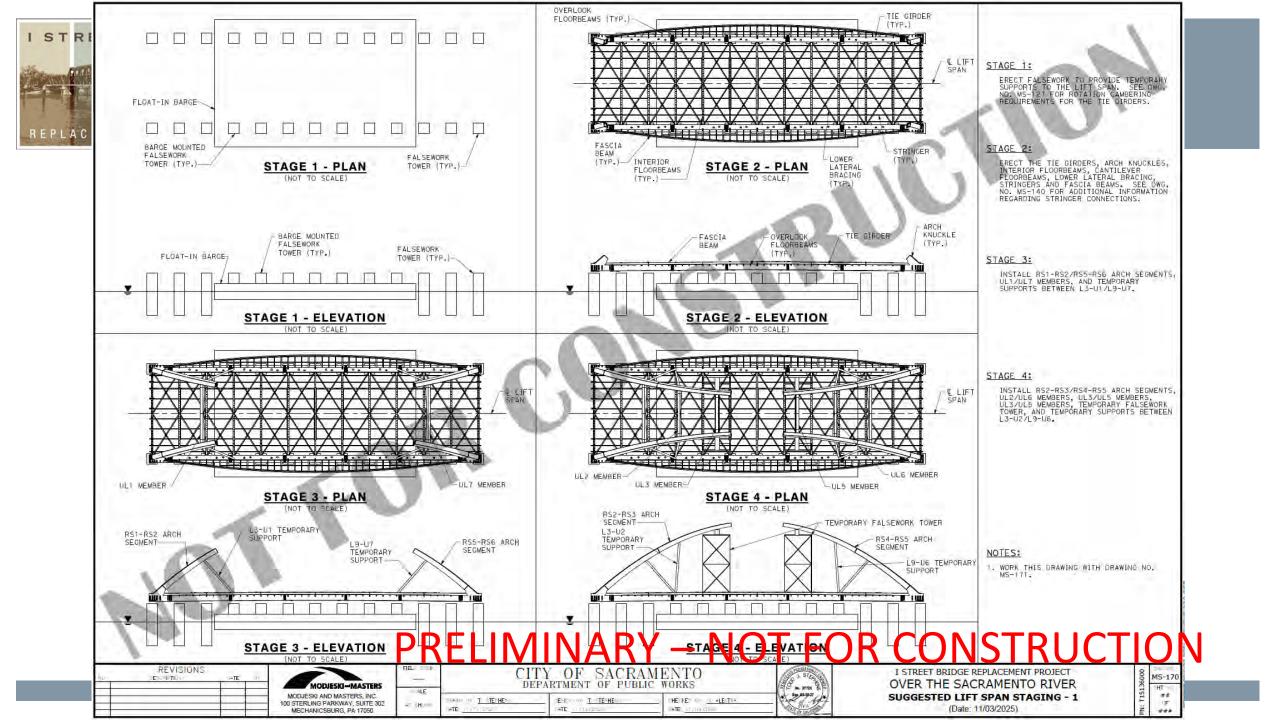


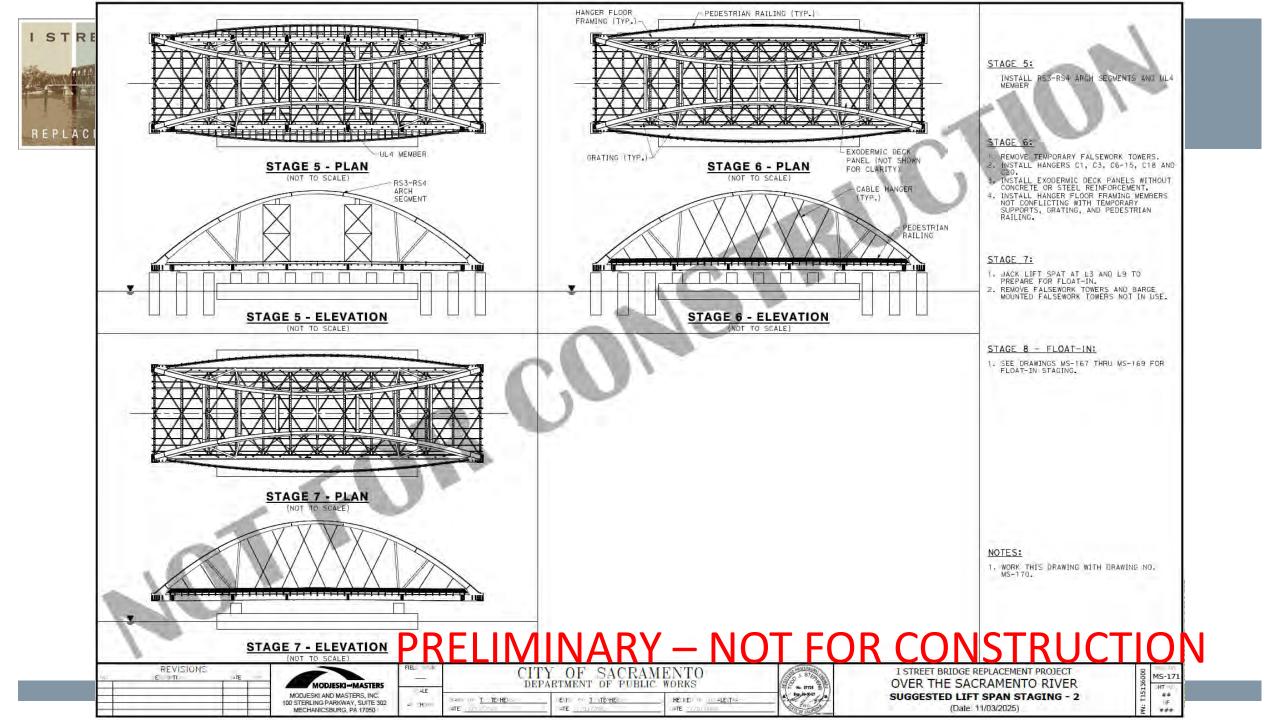
Stage Construction

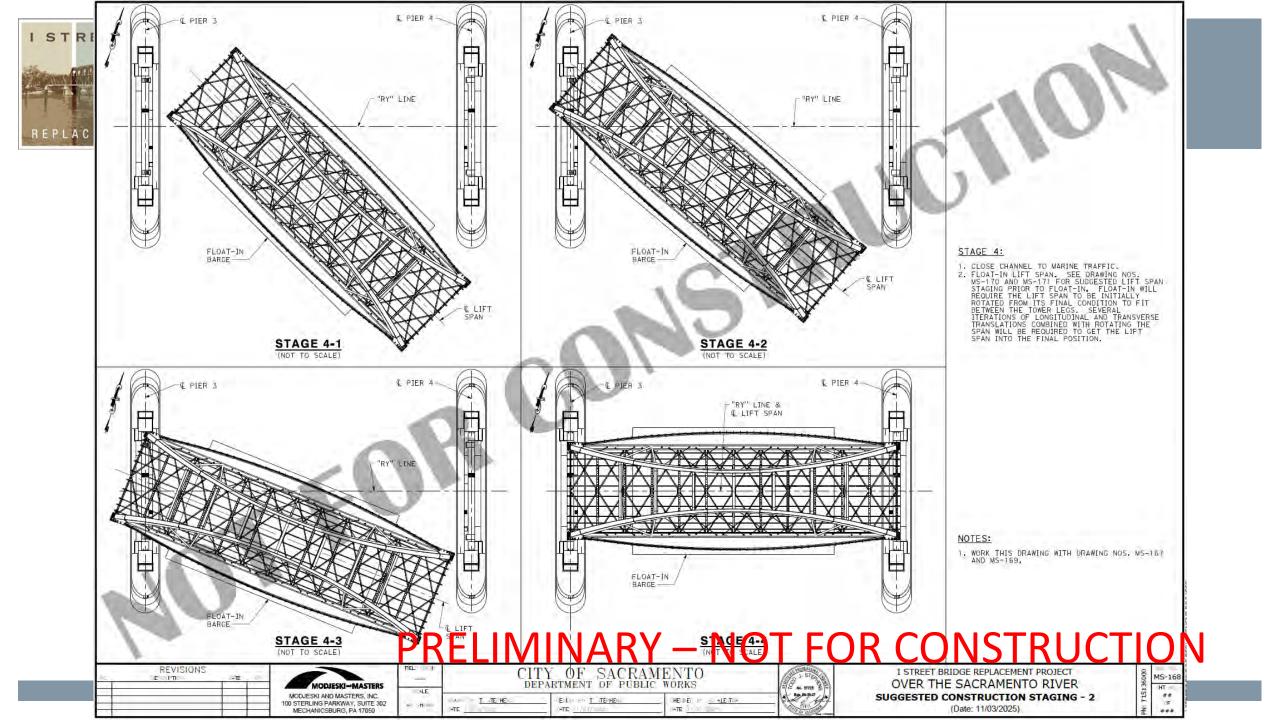




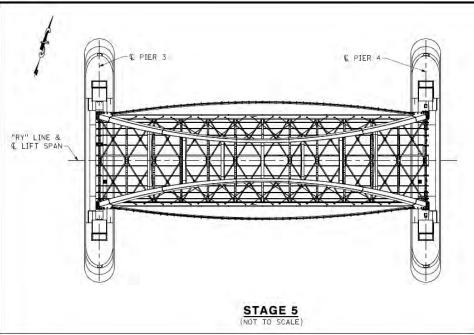


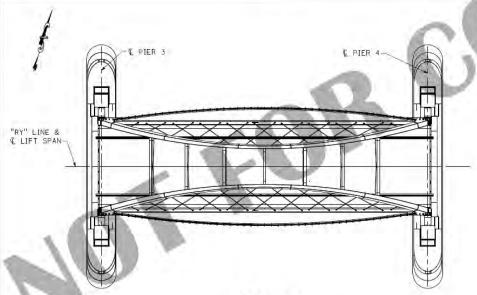












STAGE 5:

- 1. REMOVE FLOAT-IN BARGE.
- 2. REMOVE TEMPORARY SUPPORTS BETWEEN L3-U4/L9-U7 AND L3-U3/L9-U5. 3. INSTALL HANCERS C2-05 AND 016-C19

STAGE 6:

- INSTALL REMAINING HANGER FLOOR FRAMING MEMBERS AND GRATING.
- 2. POUR CONCRETE FOR EXODERMIC DECK.

STAGE 7:

- 1. TEST OPERATE BRIDGE AND COMPLETE SPAN BALANCE
- TESTING.

 2. COMPLETE SPAN BALANCE ADJUSTMENTS AND ADDITIONAL TESTING OPERATIONS.

 3. OPEN WATERWAY TO MARINE TRAFFIC.

NOTES:

WORK THIS DRAWING WITH DRAWING NOS. MS-167 AND MS-168.

STAGE 6

REVISIONS

MODJESKI-MASTERS MODJESKI AND MASTERS, INC. 100 STERLING PARKWAY, SUITE 302 MECHANICSBURG, PA 17050

SCALE

CITY OF SACRAMENTO DEPARTMENT OF PUBLIC WORKS

SAVA BY- T. STEPHEN

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I STREET BRIDGE REPLACEMENT PROJECT OVER THE SACRAMENTO RIVER SUGGESTED CONSTRUCTION STAGING - 3 (Date: 11/03/2025)

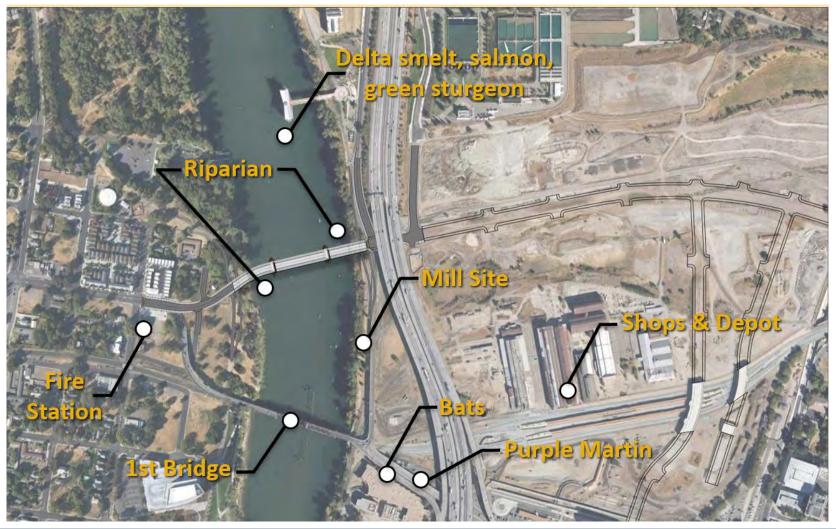
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Environmental

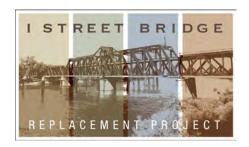






Permit Status

- USACE 408 (Clean Water Act, for alteration of levee) Under Final Review
- USACE 404 (Clean Water Act, for fill in waters of the US) Complete Pending 408
- CDFW 1602 (Streambed Alteration Agreement) Complete Pending Final Approval
- CDFW 2081 (Incidental Take Permit) Complete Pending Final Approval
- USCG Bridge Permit *Complete Pending 404 and 408*
- CA State Lands Commission Complete
- Central Valley Regional Water Quality Control Board 401 Complete



Purple Martins



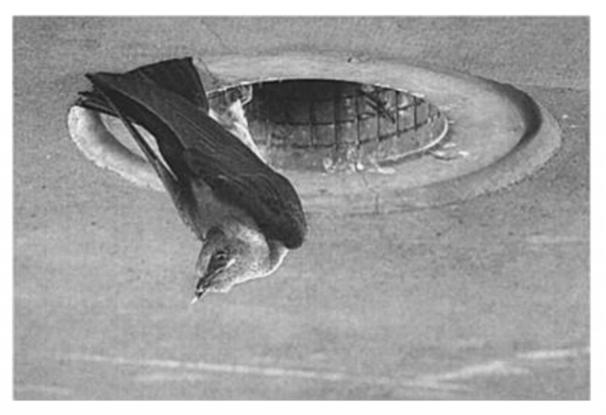


Figure 1. Female Purple Martin with food perching at a wire "nest guard" inserted into a weep hole beneath an elevated freeway in Sacramento, California.



Purple Martins



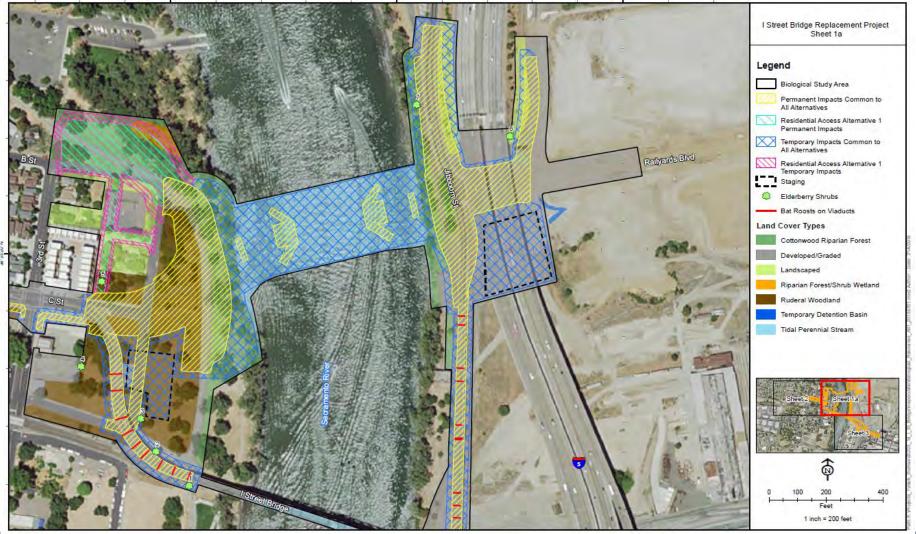


Purple Martins

- No construction activity that results in ground disturbance, modification of the I Street Bridge approach structure, loud noises, and/or vibrations will be conducted within 100 feet of the edge of the purple martin colony during the purple martin nesting season (March 15 to August 15). In addition, no construction-related vehicles or machinery shall be operated or stored beneath the colony during this period or until a qualified biologist determines that the purple martins have completed nesting and are no longer occupying the structure.
- Install and maintain throughout construction high-visibility fencing at 20 feet minimum from each elderberry shrub's dripline and install sign every 50 feet along the high-visibility fence. The sign will contain the following;
 - This area is habitat of the valley elderberry longhorn beetle, a threatened species, and must not be disturbed. This species is protected by the Endangered Species Act of 1973, as amended. Violators are subject to prosecution, fines, and imprisonment.
- 3. Establish and maintain a minimum non-disturbance buffer of 600 feet radious around the active Swainson's Hawl and White-Tailed Kite nests.
- 4. Stop work in the area when the Western Pond Turtle is found during project activities until the turtle is able to move out of work area on its own.

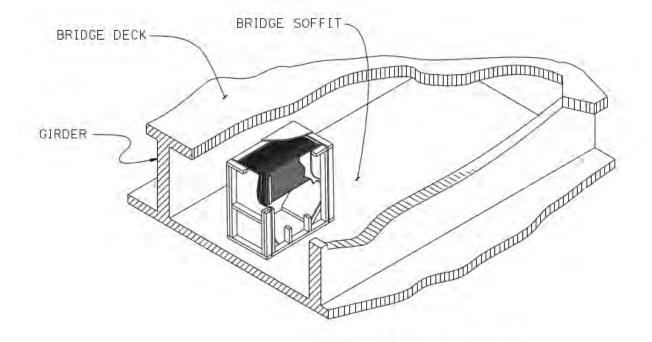


BATS

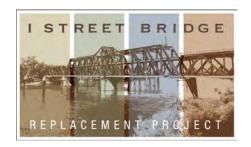




BATS



VIEW OF BAT HABITAT INSIDE BOX GIRDER BRIDGE

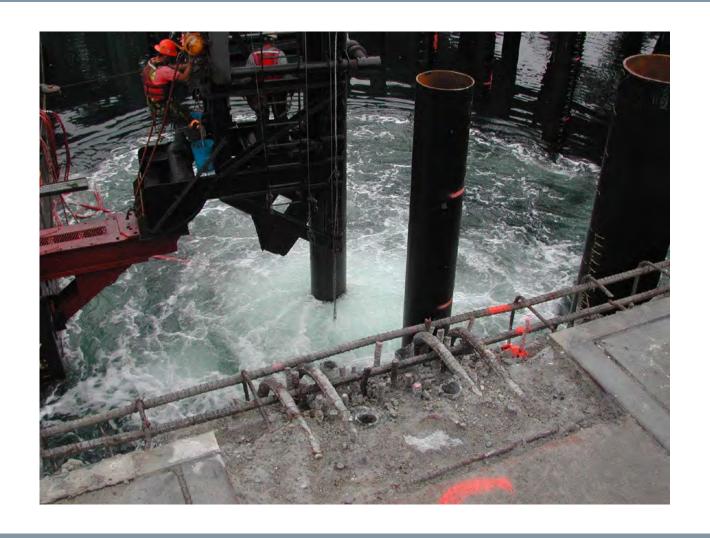


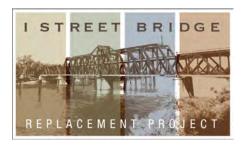
BATS

- 5. The removal of the approach structures associated with the I Street Bridge will take place outside of the breeding season for migratory birds and bats and will be conducted in the following manner to avoid and minimize direct harm and temporary disturbance to nesting birds and roosting bats.
- 6. Establish and maintain non-disturbance buffer around bat roots in cooperation with Designated Bat Biologist and CDFW during maternity season between April 15 and August 31 or hibernation season between October 15 and March 1.
- 7. Exclusion devices shall be installed either (1) between approximately March 1 (or when evening temperatures are above 45°F and rainfall less than ½-inch in 24 hours occurs) and April 15, prior to parturition of pups; or (2) between September 1 and October 15 (or prior to evening temperatures dropping below 45°F and onset of rainfall greater than ½-inch in 24 hours). Specific exclusion devices may include one-way doors, lights and fans, foam or steel wool, or other site-specific methods determined in coordination with CDFW. The Designated Bat Biologist shall monitor the roost prior to exclusion to confirm that it does not support a maternity colony. If a maternity colony is or may be present, the roost shall be avoided until it is no longer active, or until the Designated Bat Biologist can confirm that no maternity colony is present.
- 8. Remove or trim trees during the non-breeding season for tree-nesting migratory birds and raptors, and prior to periods when bats would be hibernating. If tree removal cannot be confined to this period, the project proponent will retain a qualified wildlife biologist with knowledge of the wildlife species that could occur in the project area to conduct the appropriate preconstruction surveys and establish no-disturbance buffers for sensitive wildlife species as described under measures for Swainson's hawk, nesting birds, and roosting bats.



FISH





FISH

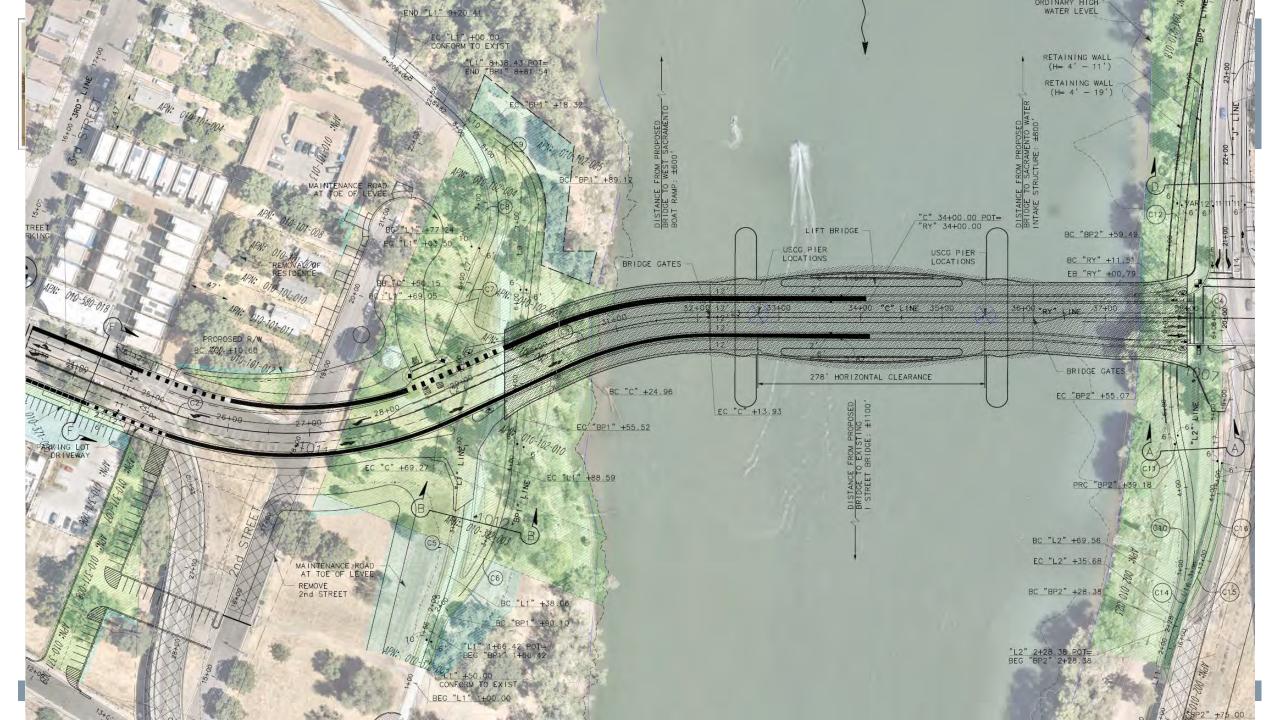
Environmental Considerations

- 10. the contractor will vibrate all piles to the maximum depth possible before using an impact hammer. No more than 20 piles will be driven per day, and pile driving with an impact hammer will occur on no more than 75 individual days total during construction. During impact driving, the contractor will limit the number of strikes per day to the minimum necessary to complete the work and will limit the total number of hammer strikes to 16,000 strikes per day (i.e., 800 hammer strikes per pile, per day) for piles for the bridge piers and temporary trestles, and 20,000 strikes per day (i.e., 1,000 hammer strikes per pile, per day) for the piles for the bridge fender system. The smallest pile driver and minimum force necessary will be used to complete the work. During impact driving, the project proponent will require the contractor to use a bubble curtain or similar device, if feasible, to minimize the extent to which the interim peak and cumulative SEL thresholds are exceeded. No pile driving activity will occur at night, thereby providing fish with an extended quiet period during nighttime hours on days pile driving is being conducted for feeding and unobstructed passage. Sheet piles used for cofferdams will be installed and removed using a vibratory pile driver.
- 11. Cofferdams will not be left in place over winter where they could be overtopped by winter/spring flows and when juveniles of listed species are most likely to be present in the construction area.
- 12. Cofferdam dewatering and fish rescue/relocation from within cofferdams will commence immediately following cofferdam closure. All pumps used during dewatering of cofferdams will be screened according to CDFW and NMFS guidelines.
- 13. Install bubble curtains around piles during impact driving and proofing operations to dampen underwater sound shockwaves.
- 14. Conduct several dry or dead blows with the hammer initially to frighten fish away from the pile before the pile is driven or proofed with an impact pile driver. Implementation of several dry or dead blows with the hammer to initially frighten fish away is being proposed because the use of a cushioning block or similar feature would result in more strikes being needed to drive the piles, thereby resulting in a greater chance of exceeding the cumulative sound exposure levels (SELs) without significantly reducing peak SELs.
- 15. Whenever there has been downtime of 30 minutes or more without pile driving, Permittee shall reinitiate the pile driving with ramp-up procedures. For impact driving, an initial set of three strikes shall be made by the hammer at 40% energy, followed by a 1-minute waiting period, then two subsequent three-strike sets at 40% energy, with 1-minute waiting periods, before initiating continuous pile driving.
- 16. Prior to departure of vessels from their place of origin and before in-water construction equipment is allowed to operate within the waters of the Sacramento River, thoroughly inspect and remove and dispose of all dirt, mud, plant matter, and animals from all surfaces that are submerged or may become submerged, or places where water can be held and transferred to the surrounding water.





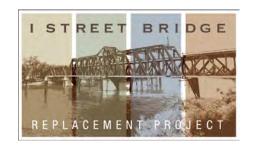
Right of Way







Project Schedule





- Right of Way <u>Complete</u>
- 100% PS&E Fall 2025 **Complete**
- Construction Authorization Fall 2025 Complete
- Regulatory Permits Fall 2025
- Advertisement Week of Dec 15th 2025 February 18th 2026
- Contract Award and Execute Agreement March 31st 2026
- Construction NTP By April 13th 2026
- Current Working Day Estimate <u>1,100</u>