

American River Flood Control District
Central Valley Flood Protection Board Permit Application
American River Bridge Widening (CalTrans)
Modification

Staff Report

Discussion:

The California Department of Transportation submitted an encroachment permit application to widen the existing Business 80 Bridge crossing of the American River that the Board endorsed in March 2021. The proposed work includes adding lanes to the east and west bound spans of the bridge and adding an additional pedestrian lane with access ramps to the levees.

The work includes modifications to existing bridge piers in the channel and to the abutments. The hydraulic analysis for the proposed modified channel conditions shows a negligible impact to the river hydraulics.

The original submittal included the addition of a pedestrian access ramp that required modification to the American River South Levee. The plan consisted of the addition of fill to create the ramp connection from the levee crown to the bridge deck.

Based on comments from the State Central Valley Flood Protection Board and the US Army Corps of Engineers, CalTrans worked to develop a plan that reduced the loading on the levee from the pedestrian access ramp. The new plan includes a hollow concrete box ramp that will span the 7-foot vertical distance from the Business 80 Bridge deck to the levee crown. Unfortunately, the box ramp will stretch nearly 200-feet along the levee crown and will take up the entire width of the crown. This will prevent any landside levee slope or toe access in that levee reach from the crown. Since there is no landside toe road at this location, there will be no access from either the crown or toe. This will prevent O&M access to the levee slope.

District staff requested that CalTrans include some means of O&M access to the landside slope or toe to perform maintenance or conduct flood fights and inspections. The CalTrans team first looked at providing an access corridor to the landside toe from the Business 80 Freeway but then settled on a plan to install a narrow landside access ramp angling down from the crown to the toe. The ramp will require a retaining wall due to the lack of real estate space to expand the levee outward for the ramp. CalTrans' plans are attached to this staff report.

The action requested today is to modify the Board's prior endorsement to include the concrete box ramp and landside O&M Access ramp.

Recommendation:

The General Manager recommends that the Board of Trustees endorse the modified permit application with the attached conditions.

Permit Conditions

Permit Application No.: (to be designated by the Central Valley Flood Protection Board)

Location(s): South Bank American River Levee at River Park and North Bank American River Levee at CalExpo, Sacramento CA

Applicant: California Department of Transportation (CalTrans)

Description: Business 80 Bridge Widening project with new bike and pedestrian access ramps tying into the adjacent levee crown(s).

CONDITIONS:

1. The endorsement of this application is predicated on CalTrans providing levee Operations and Maintenance access to the landside levee slope and toe as a result of removal of District access to the levee crown adjacent to the Business 80 Bridge.
2. Maintenance of all encroaching facilities under this permit shall remain the responsibility of permittee.
3. Permittee is notified that American River Flood Control District ("ARFCD" or "District") must periodically close the top of the levee(s) adjacent to the bridge for both routine and emergency maintenance and that any pedestrian thoroughfare would be obstructed during these times. It is the sole responsibility of the Permittee to notify the public of these periodic closures due to ongoing levee work.
4. Permittee is notified that endorsement of this permit in no way approves or authorizes any new recreational trails within the levee footprint. Any recreational trails contemplated to be connected to the pedestrian access ramps under this project must be submitted separately to ARFCD for their specific endorsement.
5. Permittee shall obtain all necessary permits and regulatory approvals for the proposed work.
6. Permittee may be required, at permittee's sole cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted work if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if encroaching facilities are damaged by any cause.

7. Work shall be done outside of the flood season of November 1 to April 15 unless otherwise approved by the District and Central Valley Flood Protection Board.
8. Permittee shall notify the District one week in advance of the start of construction.
9. Permittee shall allow access up to and under the bridge for ARFCD levee maintenance personnel and equipment during the construction period.
10. That temporary staging, material stockpiles, and equipment shall not be placed or allowed to remain in the floodway during the flood season from November 1 to April 15.
11. The District reserves the right to review all final plans and specifications and request modifications to the project during construction as field conditions warrant.
12. Permittee may not use the levee crown for staging construction or storing materials without specific approval by the District. If approved by the District, the levee crown shall be fully restored to its pre-project condition to the satisfaction of the District. In addition, if adverse weather conditions are forecast or other emergency condition arises, the Permittee shall immediately remove any equipment or materials stored on the levee and restore the levee surface for all-weather access to the satisfaction of the District.



**American River
South Levee -
Business 80 Bridge -
River Park**

**APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD
ENCROACHMENT PERMIT**

Application No. _____
(For Office Use Only)

1. Description of proposed work being specific to include all items that will be covered under the issued permit.

This project proposes to rehabilitate the American River Bridge (Br. No. 24-0003) by removing and replacing the existing concrete deck, removing and replacing the steel girder post-tensioning systems in spans 1 and 2, install sheet piling around piers for scour mitigation, construct concrete catcher blocks, and widen the bridge superstructure permanently to accommodate traffic during construction.

2. Project Location: Sacramento County, in Section Sacramento
(N) (E)
Township: T9N (S), Range: R5E (W), M. D. B. & M.
Latitude: 38° 35' 12.12" N Longitude: 121° 26' 52.04" W
Stream : American River (29.3 mil) , Levee : U04(10.86)&U03(2.86) Designated Floodway: 115000 cfs
APN: _____

3. Chris A Rockey / District 3 CVFPB liaison of 703 B St
Name of Applicant / Land Owner Address
Marysville California 95901 (530) 741-4517
City State Zip Code Telephone Number
chris.rockey@dot.ca.gov
E-mail

4. Jason Mcomber / District 3 CVFPB liaison of 703 B St
Name of Applicant's Representative Company
Marysville California 95901 (530) 741-4480
City State Zip Code Telephone Number
jason.mcomber@dot.ca.gov
E-mail

5. Endorsement of the proposed project from the Local Maintaining Agency (LMA):

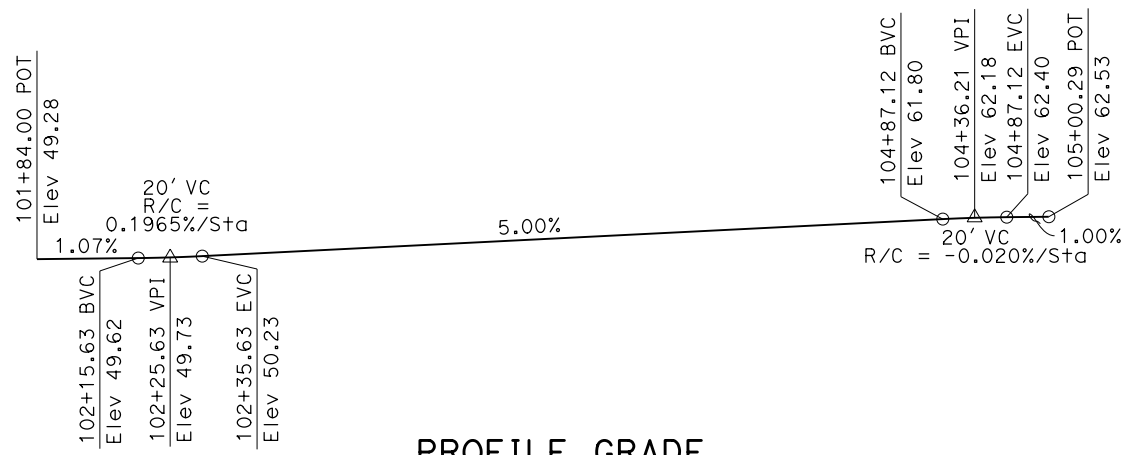
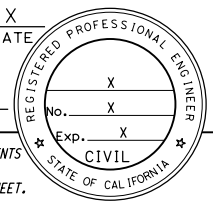
We, the Trustees of American River Flood Control District (NA0001) approve this plan, subject to the following conditions:
Name of LMA

Conditions listed on back of this form Conditions Attached No Conditions

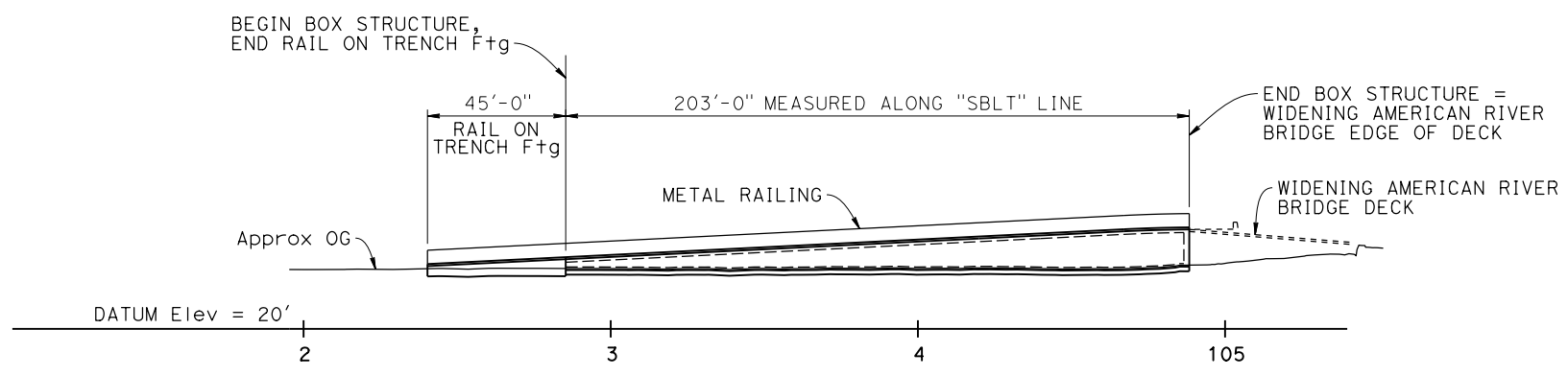
Trustee Date Trustee Date

Trustee Date Trustee Date

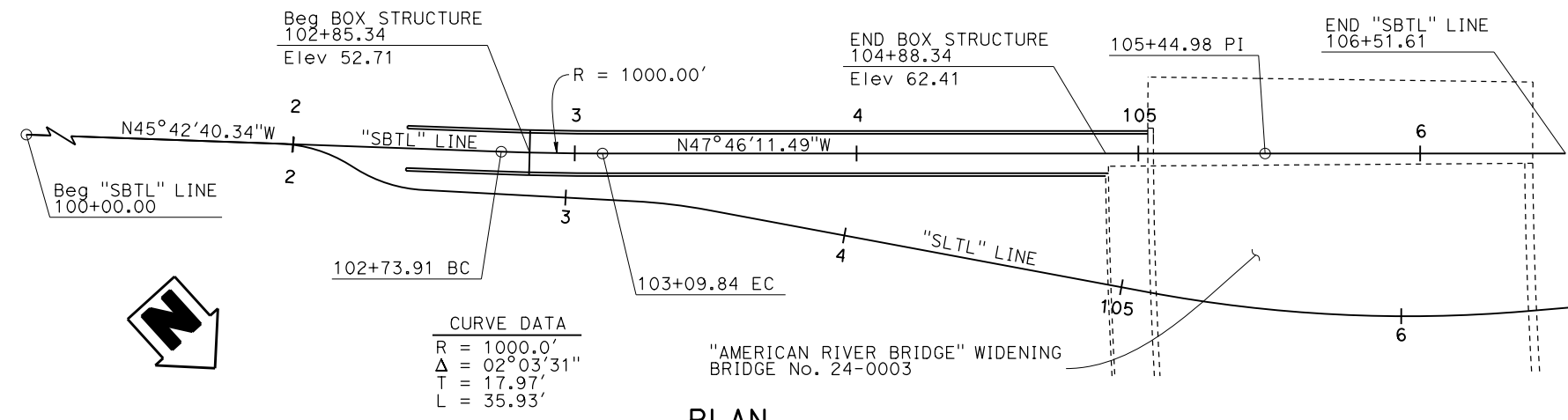
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
			Item 6		
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



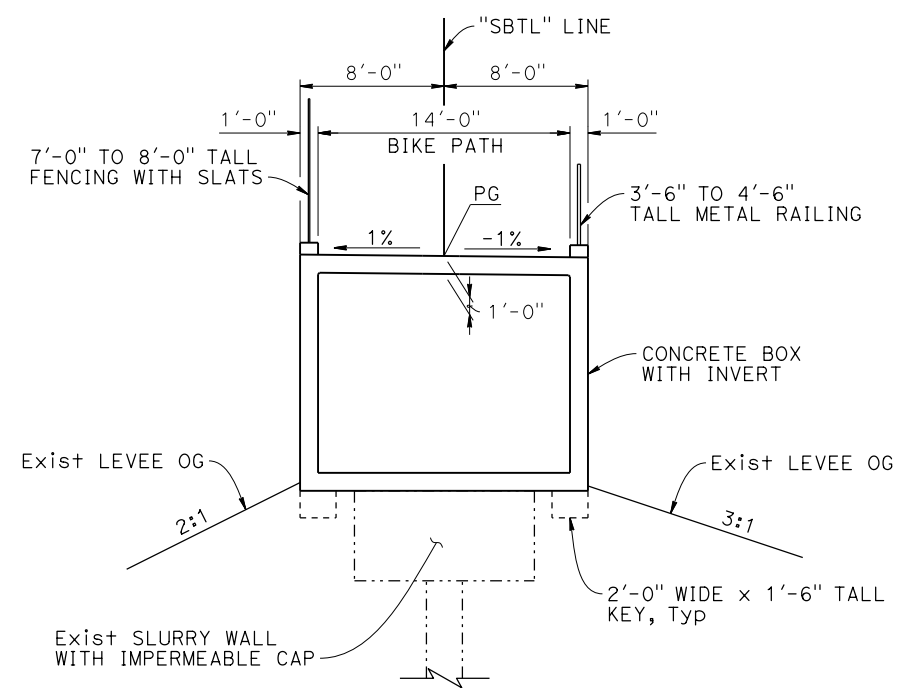
PROFILE GRADE
NO SCALE



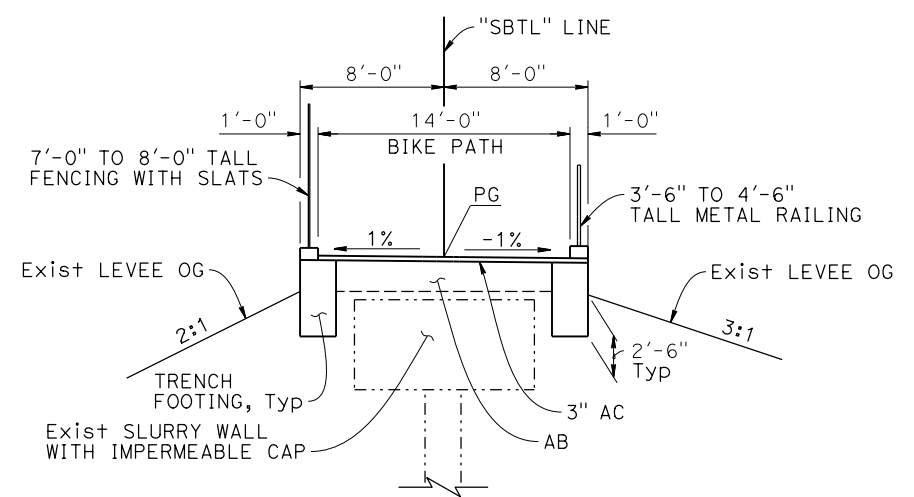
ELEVATION
1" = 30'



PLAN
1" = 30'



BOX STRUCTURE TYPICAL SECTION
3/16" = 1'-0"



TRENCH FOOTING TYPICAL SECTION
3/16" = 1'-0"


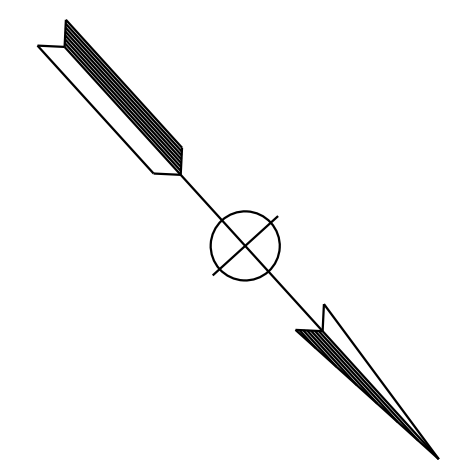
Randy Bains BRANCH CHIEF	DESIGN	BY Mark Okimura	CHECKED X	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES BRIDGE DESIGN BRANCH 11	BRIDGE No.	BIKE PATH GENERAL PLAN
	DETAILS	BY Pauline Tong	CHECKED X			XX-XXXX	
	QUANTITIES	BY X	CHECKED X	PLANS AND SPECS COMPARED X	POST MILE	X.X	
STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REVISION 3/10/2021)		DATE PLOTTED => 1-OCT-2021		TIME PLOTTED => 14:13		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	
		FILE => bikeramp-a-gp.dgn		USERNAME => s133973		UNIT: 3587	
						PROJECT NUMBER & PHASE: 03120000541	
						COUNTY/ROUTE: SAC/51	
						CONTRACT No.: 03-3F0704	
						DISREGARD PRINTS BEARING EARLIER REVISION DATES	
						REVISIONS	
						Page 7	
						SHEET OF	
						X X	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	51	2.0/3.2		

REGISTERED CIVIL ENGINEER DATE _____

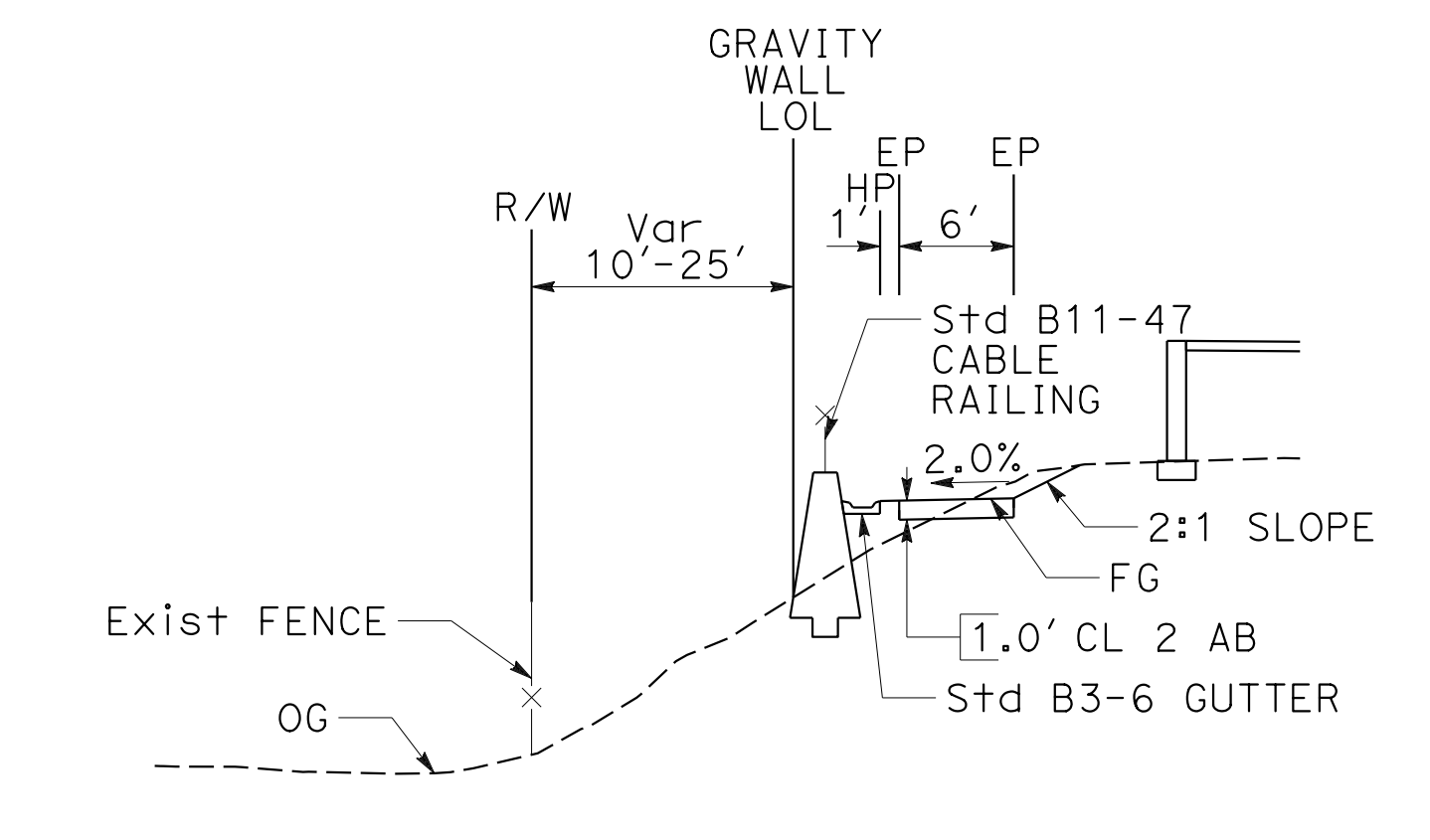
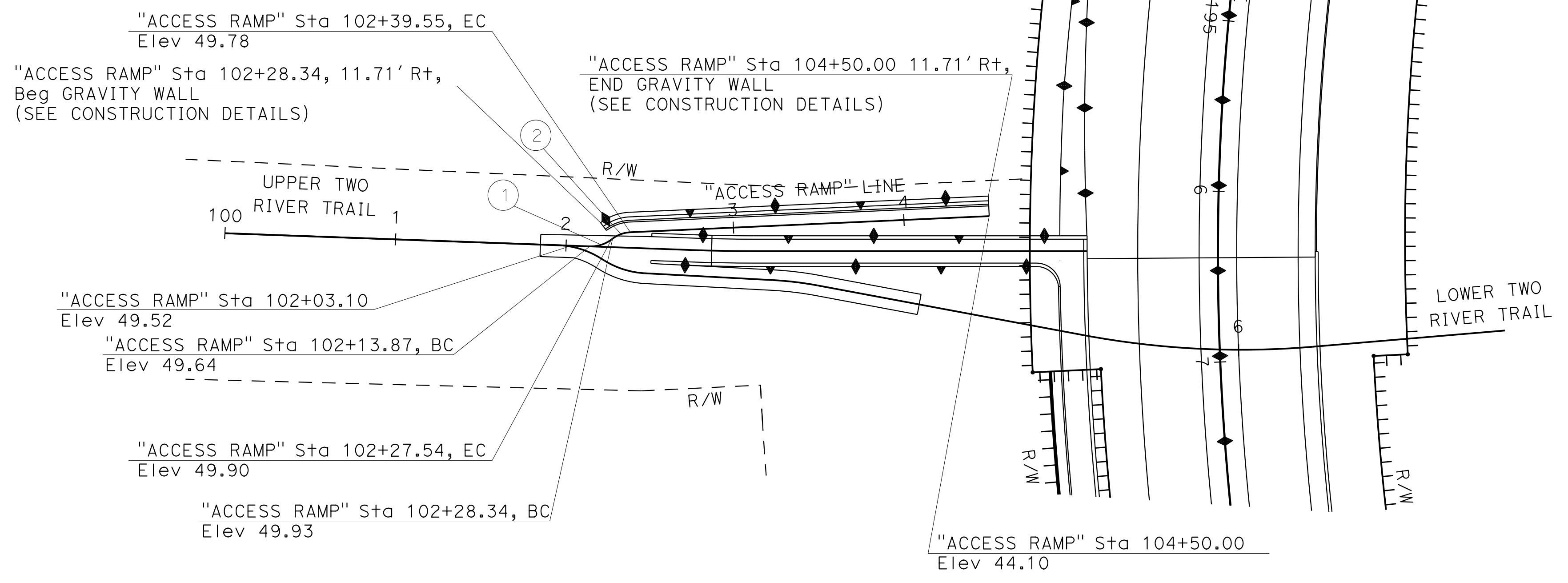
PLANS APPROVAL DATE _____

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

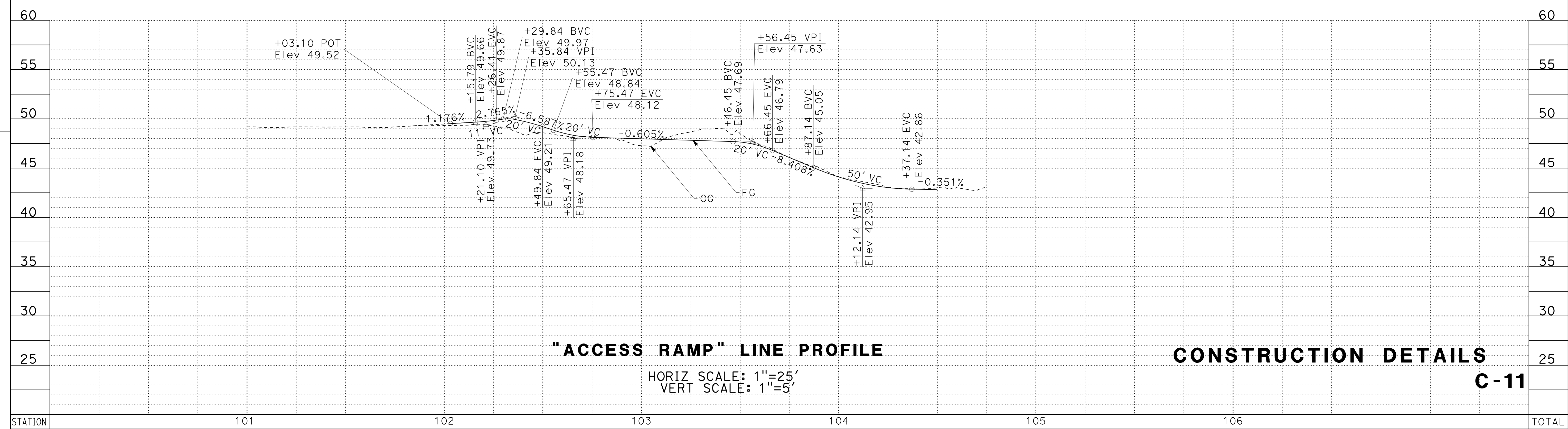



CURVE DATA

No.	⊕	R	Δ	T	L
1		20'	39°10'24"	7.12'	13.67'
2		18.59'	25°21'40"	4.18'	8.23'



"ACCESS RAMP" LINE PLAN
SCALE: 1"=50'



"ACCESS RAMP" LINE PROFILE
HORIZ SCALE: 1"=25'
VERT SCALE: 1"=5'

CONSTRUCTION DETAILS
C-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: JEFF RUD II
 REVISIONS: HAMED SALAH, ERIC POOLE, CALCULATED/DESIGNED BY, CHECKED BY, REVISED BY, DATE REVISED

STATION	101	102	103	104	105	106	TOTAL
Exc							
Emb							

LAST REVISION DATE PLOTTED => 4-NOV-2021 09:59
 TIME PLOTTED => 09:59



PROJECT DESCRIPTION

The American River Bridge (Widen and Deck Replacement) project proposes to remove and replace the existing concrete deck and steel girder strengthening post-tensioning systems on the American River Bridge (Br # 24-003) and widen the superstructure of the bridge to accommodate traffic during construction. It also proposes to construct the bridge substructure to accommodate the needed deck widening of State Route (SR) 51 and construct new multi-use facility to provide a levee to levee connection for bicyclists and pedestrians between the City of Sacramento bike network to the American River Bike Trail and the adjacent neighborhoods.

PROJECT SCHEDULE

Project Approval & Environmental Document	February 2021
Design Completed.....	December 2021
Advertise Project	December 2021
Begin Construction.....	January 2022
Complete Construction.....	December 2025

Milestone	Milestone Description	Milestone Date
M000	IDENTIFY NEED	08/05/2011
M010	APPROVE PID	06/29/2015
M015	PROGAM PROJECT	10/22/2015
M020	BEGIN ENVIRONMENTAL	09/01/2016
M040	BEGIN PROJECT	12/10/2015
M060	CIRC DPR & DED INTERNALLY	04/20/2020
M100	APPROVE DPR	10/12/2020
M120	CIRC DPR & DED EXTERNALLY	10/22/2020
M160	APPROVE FED	12/01/2020
M200	PA&ED	12/05/2020
M221	RECEIVE COMPLETE	01/23/2020
M224	R/W REQUESTS	02/27/2020
M225	REGULAR R/W	12/01/2020
M275	GENERAL PLANS	03/27/2020
M300	CIRCULATE PLANS IN DISTRICT	09/01/2021
M311	30% CONST REVIEW	12/01/2020
M313	60% CONST REVIEW	04/01/2021
M315	95% CONST REVIEW	09/17/2021
M377	PS&E TO DOE	12/01/2021
M378	DRAFT STRUCTURES PS&E	12/10/2021
M380	PROJ PS&E	12/14/2021
M410	R/W CERTIFICATION	11/02/2021
M430	DCR	12/15/2021
M460	READY TO LIST	12/16/2021
M470	FUND ALLOCATION	12/08/2021
M480	HQ ADVERTISE	12/17/2021
M490	BIDS OPEN	12/20/2021
M495	AWARD	12/28/2021
M500	APPROVE CONTRACT	12/30/2021
M600	CONTRACT ACCEPTANCE	12/01/2025
M700	FINAL REPORT	12/01/2026
M800	END PROJ	12/01/2027
M900	FINAL PROJ CLOSEOUT	12/01/2028