CTC-0001 (REV. 03/2023)

# ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017 PROJECT BASELINE AGREEMENT

SBD 40 REPLACE COLORADO RIVER BR (08-0R380)

Resolution SHOPP-P-2425-01B

(to be completed by CTC)

1.	FUNDING PROGRAM
	Active Transportation Program
	☐ Local Partnership Program (Competitive)
	Solutions for Congested Corridors Program
	State Highway Operation and Protection Program
	☐ Trade Corridor Enhancement Program
2.	PARTIES AND DATE
2.1	This Project Baseline Agreement (Agreement) effective on August 15, 2024 (will be completed by CTC), is made by and between the California Transportation Commission (Commission), the California Department of Transportation (Caltrans), the Project Applicant, CALTRANS, and the Implementing Agency, CALTRANS, sometimes collectively referred to as the "Parties".
3.	RECITAL
3.1	Whereas at its 3/22/2024 meeting the Commission approved the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and included in this program of projects the State Highway Operation and Protection Program and Included in this project the project the State Highway Operation and Protection Program and Included in this project the Project Program and Included in this pr
3.2	The undersigned Project Applicant certifies that the funding sources cited are committed and expected to be available; the estimated costs represent full project funding; and the scope and description of benefits is the best estimate possible.
4.	GENERAL PROVISIONS
	The Project Applicant, Implementing Agency, and Caltrans agree to abide by the following provisions:
4.1	To meet the requirements of the Road Repair and Accountability Act of 2017 (Senate Bill [SB] 1, Chapter 5, Statutes of 2017) which provides the first significant, stable, and on-going increase in state transportation funding in more than two decades.
4.2	To adhere, as applicable, to the provisions of the Commission:
	Resolution, "Adoption of Program of Projects for the Active Transportation Program", dated
	Resolution, "Adoption of Program of Projects for the Local Partnership Program", dated
	Resolution, "Adoption of Program of Projects for the Solutions for Congested Corridors Program", dated
	Resolution G-24-34 "Adoption of Program of Projects for the State Highway Operation and Protection Program", dated 3/22/2024
	Resolution, "Adoption of Program of Projects for the Trade Corridor Enhancement Program", dated

Project Baseline Agreement Page 1 of 3

4.3	All signatories agree to adhere to the Commission's Guidelines. Any conflict between the programs will be resolved at the discretion of the Commission.
4.4	All signatories agree to adhere to the Commission's SB 1 Accountability and Transparency Guidelines and policies, and program and project amendment processes.
4.5	Caltrans agrees to secure funds for any additional costs of the project.
4.6	Caltrans agrees to report to Caltrans on a quarterly basis; on the progress made toward the implementation of the project, including scope, cost, schedule, and anticipated benefits/performance metric outcomes.
4.7	Caltrans agrees to prepare program progress reports on a on a semi-annual basis and include information appropriate to assess the current state of the overall program and the current status of each project identified in the program report.
4.8	Caltrans agrees to submit a timely Completion Report and Final Delivery Report as specified in the Commission's SB 1 Accountability and Transparency Guidelines.
4.9	Caltrans agrees to submit a timely Project Performance Analysis as specified in the Commission's SB 1 Accountability and Transparency Guidelines.
4.10	All signatories agree to maintain and make available to the Commission and/or its designated representative, all work related documents, including without limitation engineering, financial and other data, and methodologies and assumptions used in the determination of project benefits and performance metric outcomes during the course of the project, and retain those records for six years from the date of the final closeout of the project. Financial records will be maintained in accordance with Generally Accepted Accounting Principles.
4.11	The Inspector General of the Independent Office of Audits and Investigations has the right to audit the project records, including technical and financial data, of the Department of Transportation, the Project Applicant, the Implementing Agency, and any consultant or sub-consultants at any time during the course of the project and for six years from the date of the final closeout of the project, therefore all project records shall be maintained and made available at the time of request. Audits will be conducted in accordance with Generally Accepted Government Auditing Standards.
5.	SPECIFIC PROVISIONS AND CONDITIONS
5.1	Project Schedule and Cost See Project Programming Request Form, attached as Exhibit A.
5.2	Project Scope See Project Report or equivalent, attached as Exhibit B. At a minimum, the attachment shall include the cover page, evidence of approval, executive summary, and a link to or electronic copy of the full document.
5.3	Performance Metrics See Performance Metrics Form, if applicable, attached as Exhibit C.
5.4	Additional Provisions and Conditions (Please attach an additional page if additional space is needed.)
Att	achments:
Exh	tibit A: Project Programming Request Form tibit B: Project Report tibit C: Performance Metrics Form (if applicable)

Project Baseline Agreement Page 2 of 3

#### SIGNATURE PAGE TO

#### PROJECT BASELINE AGREEMENT

Project Name

SBD 40 REPLACE COLORADO RIVER BR (54-0415)

Resolution

SHOPP-P-2425-01B

(to be completed by CTC)

	Date
Project Applicant	
	Date
Implementing Agency	
m n	06/21/2024
Catalino A. Pining III	Date
District Director	
California Department of Transportation	
Jum Jupan	
1412	07/29/2024
Tony Tavares	Date
Director	
California Department of Transportation	
-Tanta	10/31/2025
Tanisha Taylor	Date
Executive Director	
California Transportation Commission	

# August CTC SB1 SHOPP Baseline Agreement

Final Audit Report 2024-07-29

Created: 2024-07-23

By: Lauren Applegate (s147989@dot.ca.gov)

Status: Signed

Transaction ID: CBJCHBCAABAAI\_0SYj\_0LuOHY3egKDZ47BVNTT9bxs4c

# "August CTC SB1 SHOPP Baseline Agreement" History

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Document e-signed by Tony Tavares (tony.tavares@dot.ca.gov)

Signature Date: 2024-07-29 - 9:29:09 PM GMT - Time Source: server- IP address: 149.136.17.253

Agreement completed. 2024-07-29 - 9:29:09 PM GMT



Baseline agreement information was extracted from Caltrans' project data systems. Project description, funding and performance measures are from CTIPS. Project delivery milestones are from PRSM. All information is current and accurate.

#### STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

Total

76,489

BASELINE AGRE	EMENT							Dat	te:	06/11/2	24 01:08:56 PM		
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					PS&E				Calt	rans			
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					Construc	tion			Calt	rans			
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Assembly:		33	Sena	te:	16		Congression	onal:			08		
PERFORMANCE	MEASURES	3											
		Prim	nary Asset	Good	Fair	Poor	New	Tot	tal		Units		
Existing Cor	ndition	Brid	lge Health		87984			879	84	Square fe	eet of bridge ded		
Programmed (	Condition	Brio	lge Health	87984			20712	1086	696	Square fe	eet of bridge ded		
Project Mileston	e									Actual	Planned		
Project Approval a	and Environm	nental Do	cument Milestor	ne					0	2/21/24			
Right of Way Cert	ification Miles	stone									04/02/26		
Ready to List for A	Advertisemen	t Milestor	ne								04/15/26		
Begin Constructio	n Milestone (	(Approve	Contract)						_		01/21/27		
FUNDING (Alloca													
Component	Fiscal Ye		SHOPP								Total		
PA&ED	17/18		2,650								2,650		
PS&E	22/23		5,524								5,524		
RW Support	22/23		431								431		
Const Support	25/26		10,268								10,268		
RW Capital	25/26		8,000								8,000		
Const Capital	25/26		49,616								49,616		

76,489

### Memorandum

To: LYLE STOCKTON Date: July 3, 2024

SHOPP

**HQ Financial Programming** 

**File:** 08-0R380

0812000067 08-SBd-40-R153.9/R154.64

From: Bacson Quach, PE

Project Manager

District 8

Subject: PROJECT STATUS UPDATE

This memorandum is written to accompany the Baseline Agreement for the referenced project.

The Project was programmed into the 2018 SHOPP Program originally for FY 23/24 RTL delivery. District processed a PCR proposing to move RTL delivery from FY23/24 to FY24/25 due to delays experienced during execution of the cooperative agreement language between Arizona DOT and Caltrans. Additionally, the District processed a PCR proposing to move the RTL delivery from FY24/25 to 25/26 in order to perform the geotechnical study which required a higher-level environmental document in lieu of a CE/CE. Currently, a PCR is being processed for the October 2024 CTC amendment to correct the performance objective from 108,696 sq ft. to 109,788 sq ft. based on the most recent calculations. Also, note that the actual PM for the project is as stated in the CTIPS and AMT R153.9/R154.64, however, in the PR the end PM was rounded to be R154.7. The update to performance objective is the only difference between the Project Report versus what is shown in the Baseline Agreement as Baseline Agreement reflects current project status.

Below tables summarize the project schedule and the funding breakdowns as processed through various PCRs.

Current and Proposed Major Milestones (PAED was achieved 02/21/02024):

	RW Cert		AWARD	
	M410	RTL M460	M500	CCA M600
PPR	4/2/2026	4/15/2026	1/21/2027	2/1/2030
PRSM	4/2/2026	4/15/2026	1/21/2027	2/1/2030
Fact Sheet	4/2/2026	4/15/2026	1/21/2027	2/1/2030
PR/SPR	4/2/2026	4/15/2026	1/21/2027	2/1/2030

<sup>&</sup>quot;Provide a safe and reliable transportation network that serves all people and respects the environment"

#### Funding Summary (in x1000):

Component	Programmed	Allocated	PCR #1	PCR #2	PCR#3	0 Phase G-12	> 120 Request	CTIPS
PAED Support	\$2,650	\$3,115	\$2,650	\$2,650	\$2,650	\$3,115	_	\$2,650
PS&E Support	\$3,759	\$5,524	\$3,759	\$3,759	\$3,759	_	\$5,524	\$3,759
RW Support	\$431	\$431	\$431	\$431	\$431	_	_	\$431
Const. Support	\$10,268	\$10,268	\$8,332	\$8,332	\$10,268	_	_	\$10,268
RW Capital	\$8,000	\$8,000	\$169	\$169	\$8,000	_	_	\$8,000
Const. Capital	\$49,616	\$49,616	\$28,800	\$28,800	\$49,616	_	_	\$49,616

Note: Details of the funding changes and justifications can be found in the attached PCRs. The project funding is split 50/50 with Arizonia DOT and Caltrans for PAED Support, PSE Support, Construction Support, and Construction Capital.

Attachments: PCR #1, PCR #2, PCR#3, Draft PCR#4

C: Anthony Liao Martha Santana Martin Villanueva Md Shaheed

CA: 08-SBd-40-PM R153.9/R154.7

AZ: MO-40-0.0/0.6

EA: 0R380 - PN: 0812000067 - PPNO: 3001S 20.xx.201.110 - Bridge Replacement

February/2024

# **Project Report**

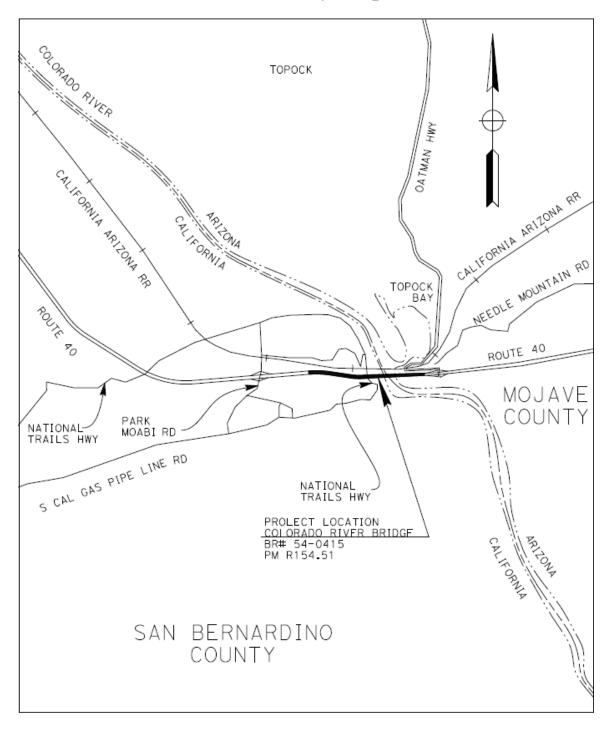
# for Project Approval

Interstate 40 (I-40)

On Route

		Between	Park Moabi Rd	
		And	Topock Rd	
		_	of way information contained in this repereto, and find the data to be complete,	
	cs -	Rebecca REBECCA G	A Guirado UIRADO, Deputy District Director, Rig	tht of Way
m S	13	AL RECOMM	sh	
<b>C</b> .			Deputy District Director, Environmental	Planning
A			eputy District Director, Environmental	
8.8	, <u> </u>			18
CQ	JESUS GA	ALVAN, Depu	y District Director, Design	
	PROJECT	APPROVED:	:	02/21/2024
	CATALIN	NO A. PINING	III, District 8 Director	Date

# Vicinity Map



In San Bernardino County on Route 40 near Needles between Park Moabi Road and Topock Road in Mojave County Arizona, at the Colorado River Bridge

This project report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

REFAAT EL SHERIF, REGISTERED CIVIL ENGINEER

1/26/2024

DATE



CONCURRED BY:

CAT QUACH, ACTING BRANCH CHIEF, DESIGN I

01/26/24

DATE

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CA: 08-SBd-40-PM R153.9/R154.7

AZ: MO-40-0.0/0.6

EA: 0R380 – PN: 0812000067 – PPNO: 3001S 20.xx.201.110 – Bridge Replacement

January/2024

#### 1. INTRODUCTION

#### **Project Description:**

Interstate 40 (I-40) is a major east-west transportation route within San Bernardino County that connects the states of California (CA) and Arizona (AZ) with the Colorado River Bridge (CA Br. No. 54-0415, AZ Br. No. 957) spanning the CA/AZ state line. To improve the bridge deck integrity and accommodate all permit vehicle traffic, the California Department of Transportation (Caltrans) District 8, in cooperation with the Arizona Department of Transportation (ADOT), is proposing a project to replace the Colorado River Bridge at existing alignment. The Colorado River Bridge is located at the Stateline near Needles in San Bernardino County, CA and Topock in Mojave County, AZ (Attachment A).

This project is classified as a Category 4B project (Attachment J) as defined in the Project Development Procedures Manual (7th Edition, Part 2, Chapter 8, and Section 5) because of its minimal economic, social, and environmental significance. The project category was approved by the Deputy District Director for Design on April 11<sup>th</sup>, 2023.

Project Limits	CA: 08-SBd-40-PM R153.9/R154.7						
		MO-40-0.0/0.6					
Number of Alternatives	1 Build, 4 Rejected, and 1 No Build						
	Current Cost	Escalated Cost					
	Estimate:	Estimate:					
Capital Outlay Support	\$ 38,265,000	\$ 38,265,000					
Capital Outlay Construction	\$ 83,117,934	\$ 99,231,788					
Capital Outlay Right-of-Way	\$ 7,999,975	\$ 7,999,975					
Funding Source	2022 SHOPP, 20.xx.201.110/ Contribution						
	from Arizona State						
Funding Year	2022 SHOPP						
Type of Facility	4 Lane Divided Fre	eeway					
Number of Structures	1						
SHOPP Project Output	1 Bridge						
Environmental Determination	Environmental Imp	act Report/Environmental					
or Document	Assessment (EIR/E	ZA)					
Legal Description	In San Bernardino	County Near Needles at					
	Colorado River Bridge (BR# 54-0415)						
Project Development	4B	<u> </u>					

#### 2. RECOMMENDATION

It is recommended that this Project Report be approved using the preferred alternative and authorization granted to proceed to the next phase of the project. The affected local agencies have been consulted with respect to the recommended plan, their views have been considered, and the local agencies are, in general, in accordance with the plan as presented.

#### 3. BACKGROUND

#### **Project History**

The Project Study Report-Project Development Support (PSR-PDS) was approved on December 19<sup>th</sup>, 2016. The PSR-PDS consists of five alternatives: Alternatives 1 and 2 proposes replacing the bridge deck and strengthening the steel girders to increase load capacity; Alternatives 3 and 4 propose full bridge replacement; and Alternative 5 is the no build alternative.

**Alternative 1 - Deck Replacement and Strengthening (non-standard shoulders)** 

**Alternative 2 - Deck Replacement and Strengthening (standard shoulders)** 

**Alternative 3 - Bridge Replacement (standard shoulders)** 

**Alternative 4 - Bridge Replacement and Realignment (standard shoulders)** 

**Alternative 5 - No Build** 

Alternative 1 has been rejected at the PSR-PDS stage due to the low probability of the design exception approval. Alternative 2 was rejected at the PA&ED phase by the PDT and ADOT, the partner agency, on September 21<sup>th</sup>, 2020 based on reduced cost-benefit ratio, long term maintenance issues, and difficulties with emergency lane closures. Alternative 3 is renamed to "Replace Bridge at Existing Alignment". Alternative 4 is split into two specific alternatives: replace bridge (realign to the north) and replace bridge (realign to the south) to analyze realignment impacts to both sides of the existing bridge. As a result, the above mentioned alternatives have evolved into the following alternatives considered for this project that are discussed in detail in section 5 of this report:

**Alternative 1: Replace Bridge at Existing Alignment (standard shoulders)** 

Alternative 2: Replace Bridge (Realign to the North) (standard shoulders)

Alternative 3: Replace Bridge (Realign to the South) (standard shoulders)

**Alternative 4: No-Build** 

Change in this nomenclature was presented and approved by PDT on September 21st, 2020.

#### Community Interaction

During the PA&ED phase, efforts have been made to engage and partner with local agencies. The County of San Bernardino, ADOT, California Trucking Association, Colorado River Board, California Agricultural Inspection Station, and San Bernardino County Transportation Authority were notified about the scope and location of the project via letters and emails on March 27<sup>th</sup>, 2023. There is no known opposition to the proposed project.

When Phase 1 commences, the local agencies will be asked to participate in the Project Development Team (PDT) meetings.

During the construction phase of the project, Caltrans's Public Information Officers in coordination with the Resident Engineer will arrange and facilitate outreach programs to inform and engage local residences, business, and agencies about the construction process and issues that may arise.

#### **Existing Facility**

The Colorado River Bridge at Topock was originally built in 1966. The bridge is a seven span structure comprised of continuous steel plate girders on reinforced concrete pier walls and reinforced concrete open-end seated abutments on steel "H" piles, with the exception of Pier 2 which is supported on a spread footing. The total length of the structure is 1,294 feet. The bridge deck is a cast in place (CIP) reinforced concrete deck. The bridge currently accommodates four 12-foot lanes of traffic (two in each direction) separated by a median barrier. The existing bridge has non-standard 2 foot inside shoulders and 4 foot outside shoulders with Type 2 bridge rails. Within this segment I-40 has a posted speed of 70 miles per hour (mph) and a design speed of 85 mph.

In 1963, an interagency agreement was finalized between the California Department of Public Works and the Arizona Highway Department regarding the planning, construction and maintenance of this structure. Article III, paragraph 4 states that both parties will equally and jointly assume responsibility for the maintenance, policing, repairing, replacing or reconstructing of this bridge. Paragraph 5 states that the division of costs for planning, construction, maintenance, policing, repairing, replacing or reconstructing of the bridge will be shared equally between both states without regard for the actual location of the interstate boundary line in the vicinity of the bridge. In 1987, a subsequent agreement was finalized between the CA and AZ Departments of Transportation. This agreement states in Section I, paragraph 4 that CA will assume one half of the costs of all maintenance and/or repair work for this structure. Section II, paragraph 1 states that AZ will reimburse CA for one half of the costs of maintenance or repair and any related engineering work performed.

#### 4. PURPOSE AND NEED

#### Purpose:

The purpose of this project is to improve the safety and integrity of this structure by addressing deck deterioration and strengthening the girders to increase the load rating. The safety of the traveling public will also be enhanced because standard lane and shoulder widths are proposed as well as upgrades to the bridge rail system.

#### Need:

The concrete deck of the Colorado River Bridge has begun to deteriorate. There are spalls and delaminations along the outside shoulders, and transverse cracks throughout the transverse top mat rebar. The top mat transverse rebars are exposed with inadequate concrete cover. If no rehabilitation is done, the existing deterioration will worsen and ultimately compromise the integrity and safety of the structure. In addition, the bridge has a permit vehicle rating of PPPGO (Purple permit rating for 5, 7 and 9-axle vehicles and reduced permit ratings of Green and Orange for 11 and 13 axle vehicles respectively).

#### 4A. Problem, Deficiencies, Justification

According to the Structure Replacement and Improvement Needs (STRAIN) Report, the bridge deck is deteriorating. There are several areas of spalls and delaminations along the outside shoulders, particularly in the westbound direction. There are transverse cracks across the bridge deck that are spaced within the transverse top mat rebar. Several of the top mat transverse rebars are exposed with inadequate concrete cover.

Currently, the bridge load rating for permit vehicles is PPPGO rated with no Asphalt Concrete on the deck. To maintain the existing deck would require adding a polyester concrete overlay to the deck, at a minimum. Such an overlay may degrade the load rating for permit vehicles further to an unacceptably low level.

Inside and outside shoulder widths on the Colorado River Bridge do not meet current Highway Design Manual (HDM) standards.

#### 4B. Regional and System Planning

The proposed project is consistent with CA, AZ, FHWA, regional, and local planning goals. I-40 is a major transcontinental transportation corridor linking Southern California with the East Coast, spanning eight southern states with a total of 2,554 miles; 154.7 miles are in Caltrans District 8 consisting of four-lane freeway with truck climbing lanes at major grades. Within CA, I-40 carries a high volume of truck traffic transporting goods across the nation and a significant volume of recreational trips to the Mojave Desert, the Colorado River, and states to the east.

I-40 is also a major east-west transportation route within San Bernardino County and connects the states of CA and AZ with the Colorado River Bridge, spanning the CA/AZ state line. The bridge is used for interstate travel and goods movement between CA and states to the east beginning with AZ.

#### 4C. Traffic

#### Current and Forecasted Traffic

A Traffic Analysis was conducted for the Colorado River Bridge on I-40. See Table 1 for traffic data.

Table 1 - Summary of Traffic Data I-40 PM R153.9 to PM R154.7

Traffic Data Information								
Year(s) Requested	2020	2031	2051					
Annual Average Daily Traffic (AADT)	14,900	21,500	30,900					
2-way Peak Hour Volume (PHV)	1,500	1,730	2,030					
One-way PHV	930	1,040	1,220					
Directional Split	60%	60%	60%					
Truck Percentage in AADT	60%	60%	60%					
Truck Percentage in DHV	30%	30%	30%					

#### Collision Data Analysis

During the three-year period from August 1, 2019 to July 31, 2022, the actual accident rates for I-40, within the project limits, during the three-year period were compared to the statewide average for similar types of facilities. This data was generated on March 3, 2023. A summary of the Caltrans Traffic Accident Surveillance and Analysis System (TSAS), Traffic Selective Accident Retrieval (TSAR), and Selective Accident Rate Calculation (Table B) for collision rates (Fatal, Fatal plus Injury, Total) for the proposed project depicting collision rates per Million Vehicle Miles (MVM) for segments greater or equal to 0.5 miles are shown in the tables below:

Table 2 - Summary of Collision Rates I-40 PM R153.9 to PM R154.7 From August 1, 2019 to July 31, 2022

Actual Rates and Average Rates										
Location I-40		l Accident lion Vehicl		Average Rates (per Million Vehicle Miles)						
	Fatal	Fat+Inj	Total <sup>1</sup>	Fatal	Fat+Inj	Total <sup>1</sup>				
I-40, PM R153.9- R154.7	0.00	0.16	1.05	0.015	0.21	0.57				

<sup>1.</sup> All reported crashes (includes Property Damage Only (PDO) Crashes)

Table 3 - Summary of Types of Collisions I-40 PM R153.9 to PM R154.7 From August 1, 2019 to July 31, 2022

	Type of Collision												
Head- On	Side- swipe	Rear- End	Broadside	Hit- Object	Overturn	Auto- Ped	Other	Not Stated					
0%	7.7%	0%	0%	61.5%	15.4%	0%	15.4%	0%					

The traffic collision data for I-40 from PM 153.9 to PM 154.7 show that the actual total accident rate is greater than the total average accident rate for similar facilities statewide and

the major types of collisions are Hit-object (61.5%) and Overturn (15.4%), with the primary collision factor being Other Than Driver, Other Violation, Improper Turn, and Speeding. The addition of standard outside shoulders to I-40 would allow drivers more room to return to the roadway and avoid hitting the barriers or guardrails.

#### 5. ALTERNATIVES

#### **5A.** Viable Alternatives

#### **Alternative 1: Replace Bridge at Existing Alignment (Preferred)**

This alternative proposes to construct a new bridge on the existing alignment. The new bridge deck will have standard shoulder and lane widths. With this alternative, the bridge (No. 54-0670) at the National Trails Hwy undercrossing does not need replacing (Attachment B), there will be less right of way and environmental impacts, and no nonstandard features when compared to alternatives 2 and 3. For these reasons, and more outlined in the sections below, this is the preferred alternative.

#### Proposed Engineering Features

The proposed bridge is a six-span Cast-In-Place/Pre-Stressed (CIP/PS) Box Girder structure, 1,294 ft in length (matching the existing bridge). Pier foundations will be on large diameter Cast-In-Drilled-Hole (CIDH) piles. The 84-foot wide deck will carry two 12-foot lanes, a 5-foot inside shoulder and a 10-foot outside shoulder in each direction. Other features include a Type 60M concrete barrier in the median and CA ST-75 bridge rails. The final structure type will be selected during the PS&E phase.

#### Staging Requirements

This alternative will require two major stages. Stage 1 will remove half of the existing bridge; then construct one half of the new bridge; allowing traffic on the remaining half of the existing bridge. During this time, traffic will be limited to one lane in each direction. The lanes will be 12 feet in each direction with two feet outside shoulders. Stage 2 will shift traffic to the newly constructed portion of the deck then remove the rest of existing bridge and build the second half of the new bridge. This traffic reduction will remain through the length of the construction zone and construction period.

#### Nonstandard Design Features

The proposed project is designed according to the current Caltrans highway design manual within the CA state limits and designed according to ADOT standards within the AZ State limits. There are no nonstandard features within the project limits.

#### <u>Utility and Other Owner Involvement</u>

This alternative will need coordination with Pacific Gas & Electric (PG&E) who has infrastructure on the CA side flood plain under the bridge. Potholing will be conducted during

phase 1 of the project to locate and note all utilities within the project limits. Design efforts will also be done to locate existing utilities and protect them throughout the construction phase.

#### Railroad involvement

The BNSF railroad bridge is a parallel bridge crossing the Colorado River at the same location. It is anticipated that the proposed improvement would not permanently impact the railroad with this alternative. However, a Temporary Construction Easement (TCE) may be necessary on the AZ side of the project.

#### **Erosion Control**

This project will use native vegetation to stabilize the soil while maintaining the visual character of the area.

#### Nonmotorized and Pedestrian Features

#### Pedestrian Facilities

I-40 is a controlled access facility and does not allow for pedestrian traffic.

#### Bicycle Facilities

Currently, there are no designated bicycle lanes or other bicycle infrastructure within the project limits. Bicyclists are allowed to travel on the shoulders of I-40 since there is no parallel bicycle facility. This alternative will widen the shoulder to standard width providing bicyclists with a large area to travel.

#### Cost Estimate

The current capital outlay cost, including construction and right of way, for this alternative is \$91,118,000 with a total project cost of \$129,383,000.

	Replace at existing alignment (CIP/PS BOX)
Roadway	\$25,502,570
Structures	\$57,615,364
Right of Way	\$7,999,975
Support	\$38,265,000
Total Cost	\$129,383,000

#### Right of Way

A temporary construction easement is required on the AZ side from multiple parcels including the BNSF Railroad. California State Lands Commission will require new lease agreement for this new bridge construction. Each State Agency will acquire their perspective right of way within their jurisdiction. The attached right of way data sheet (Attachment D) accounts for the CA right of way capital cost and the attached right of way project cost estimate (Attachment E) accounts for the AZ right of way capital cost.

#### **5B.** Rejected Alternatives

#### Alternatives 1 and 2: Deck Replacement and Strengthening

An alternative was considered to rehabilitate the bridge by deck replacement (standard shoulders) and strengthening structure as mentioned in the PSR-PDS under Alternative 2. This alternative proposes to replace the bridge deck including bridge rails; and strengthen the structure and foundation for permit vehicle traffic; and the bridge deck would be widened to accommodate current standards. This alternative was rejected by the PDT and ADOT on September 21<sup>st</sup>, 2020 based on reduced cost-benefit ratio, long term maintenance issues and difficulties with emergency lane closures.

#### **Alternative 2: Replace Bridge (Realign to the North)**

This alternative proposes realignment to the north of existing I-40 centerline allowing the construction of the new bridge to take place while the existing bridge remains fully operational. Staging will only be necessary for transitioning the new realigned bridge to the existing I-40 centerline alignment on both ends of the bridge. With this alternative, the bridge at the National Trails Hwy Undercrossing will also need to be replaced. Additionally, a minor realignment is proposed to the Oatman Hwy to accommodate the bridge realignment on the AZ side. For the above reasons along with the need for nonstandard design features and a greater environmental and right of way impact, this alternative was not chosen as the preferred alternative.

#### **Alternative 3: Replace Bridge (Realign to the South)**

This alternative will realign to the south of the existing I-40 centerline and this will allow the construction of the new bridge to take place while the existing bridge is still operational. Staging will be only necessary for transitioning the new realigned bridge to the existing I-40 centerline alignment on both ends of the bridge. The bridge at the National Trails Hwy Undercrossing will also need to be replaced with this alternative (Attachment B). For the above reason along with the need for nonstandard design features and a greater environmental and right of way impact, this alternative was not chosen as the preferred alternative.

#### **Alternative 4: No-Build**

Under the No-Build Alternative, the existing Colorado River Bridge would remain in place. No construction or modification of the bridge would occur. The No-Build Alternative includes only projects that are currently planned and programmed in the study area. This alternative represents the baseline against which impacts associated with alternative strategies for the bridge will be assessed. This alternative does not satisfy the purpose and need of the project.

#### 6. CONSIDERATIONS REQUIRING DISCUSSION

#### 6A. Hazardous Waste

An Initial Site Assessment Report was prepared by Stantec Consulting Services Inc., November 19th, 2021. An Initial Site Assessment (ISA) Checklist was updated January 11th, 2023. A Site Investigation Report was completed by Stantec Consulting Services, Inc., January 11th, 2023. The project risk for potentially hazardous waste involvement is medium. (Attachment G).

#### **6B.** Value Analysis

A Value Analysis (VA) study, sponsored by Caltrans, District 8, and ADOT was conducted for this project.

The VA study was conducted early in the PA&ED phase of the project and was approved on July 23<sup>rd</sup>,2021. Multiple alternatives were recommended during the VA study. The following are the three recommended alternatives:

- Construct a lightweight, cantilevered, multi-use bicycle and pedestrian path on one side of the bridge
- Extend work trestles in lieu of temporary retaining walls and earthwork
- Reduce number of piers for PA&ED Alternatives 2 & 3 (North and South Alignments)

The three alternatives were studied and ultimately rejected due to structural limitations and a lack of multimodal connectivity in the area.

#### **6C.** Resource Conservation

The project will require removal of asphalt concrete pavement, concrete and aggregate base. The removed materials will be stockpiled on-site and recycled for new construction uses where feasible. The non-recycled materials will be removed and properly disposed of off-site.

#### 6D. Environmental Compliance

The environmental review, consultation, and any other action required in accordance with applicable federal laws for this project is being, or has been, carried out by Caltrans for the Federal Highway Administration (FHWA), which is the NEPA-lead agency for this project. This project is excluded from Caltrans' NEPA assignment because the project crosses state boundaries. An Environmental Impact Report/Environmental Assessment was signed (Attachment H) and has been prepared in accordance with Caltrans' environmental procedures, as well as State CEQA guidelines and federal environmental regulations, and is the appropriate document for the proposed project. Senate Bill 147 was signed July 10, 2023 and is valid until December 31, 2033. The bill amended sections 395, 3511, 4700, 5050, and 5515 of the Fish and Game Code and added Section 2081.15. The bill authorizes the

California Department of Fish and Wildlife (CDFW) to issue a 2081 Incidental Take Permit for fully protected species using the permitting structure in CESA that would authorize the take of a fully protected species resulting from impacts attributable to the implementation of critical infrastructure projects if certain conditions are satisfied. Because razorback sucker, California black rail, and Yuma Ridgway's rail are CDFW fully protected species, Caltrans, in coordination with CDFW, may apply for a 2081 Incidental Take permit under California Endangered Species Act (CESA) for these species.

#### 6E. Air Quality Conformity

This project falls under the category of project type listed in 40 CFR 93.126 (Table 2). All projects listed under Table 1 or 40 CFR 93.126 (Table 2) are exempt from all emissions analyses. Hence, no Air Quality Study is needed for the project and further transportation air conformity requirements do not apply to the project.

#### **6F.** Title VI Considerations

Implementation of the viable alternative will not result in any disproportionately high or adverse impacts on minority or low-income neighborhoods or communities. Caltrans and FHWA policies demonstrate a commitment to Title VI of the Civil Rights Act, which provides that no person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of or be subjected to discrimination under any program or activity receiving federal financial assistance.

#### 6G. Noise Abatement Decision Report

This project falls under Type I project categories of 23 CFR 772.7 in the Traffic Noise Analysis Protocol: New construction or reconstruction projects. Per the Traffic Noise Analysis Protocol a Noise Abatement Decision Report was prepared and approved on May 26th, 2022. The report examined the inclusion of a soundwall on the eastbound edge of outside shoulder for all alternatives, but the wall was ultimately not included.

#### 6H. Life-Cycle Cost Analysis

A Life-Cycle Cost Analysis will be performed during the design phase.

#### **6I.** Reversible Lanes

This project does not qualify as a capacity increasing or a major street or highway realignment project and reversible lanes will not be considered.

#### 7. OTHER CONSIDERATIONS AS APPROPRIATE

#### 7A. Route Matters

A Supplemental Freeway Agreement dated April 11<sup>th</sup>, 1966, between Caltrans and the County of San Bernardino reflects existing County road connections to I-40 within the vicinity of this project. This project is not proposing new or major modifications to existing road connections, as such no superseding freeway agreement is required.

#### 7B. Transportation Management Plan

A Transportation Management Plan (TMP) has been prepared to identify traffic mitigation measures to be implemented during construction of proposed improvements (Attachment I). Public Information/Public Awareness Campaign, Traveler Information Strategies, and Incident Management are recommended TMP strategies for this project. During construction, continuous access for pedestrian and bicycle traffic will be maintained.

#### 7C. Public Hearing Process

Caltrans provided an opportunity for public review and comment on the Draft Environmental Impact Report/Environmental Assessment and a public hearing was conducted on June 29<sup>th</sup>, 2023. No comments were received during the public meeting. Local agencies sent in formal letters as comments to the draft environmental document. The agencies provided comments on various aspects of the project, such as the effects of construction staging on traffic during construction and discussion of impacts to environmental resources. All of the provided comments were considered in the discussion and selection of the preferred alternative. Local officials and agencies were notified by letter during the inception of the project.

#### 7D. Cooperative Agreements

A Cooperative Agreement which set forth the terms and conditions for ADOT and Caltrans, and outlines respective responsibilities, is in place. The agreement covers only the PA/ED phase of the project. Separate agreements are being processed for the PS&E and Right of Way acquisition phases of the project. An agreement for the construction phase of the project will be processed during the PS&E Phase.

#### 7E. Report on Feasibility of Providing Access to Navigable Rivers

Colorado River is a navigable waterway that is within the limits of this project. There will be coordination with the United States Coast Guard during the design phase. Public access and ability to navigate on the Colorado River will not be limited during construction.

#### 7F. Stage Construction

The proposed Stage Construction Plans will be required and will vary in complexity. A more specific stage construction will be developed during the design phase. The project will

consist of at least two major construction stages.

#### Temporary Trestles:

A system of trestles will be constructed along each side of the existing bridge and under the existing bridge. These trestles would be used as a work platform for foundation construction, material, hauling, falsework erection, and existing bridge removal. A 50-ft opening will be provided for navigation during construction. Therefore, access to these trestles will be required from the CA side and AZ side. Access roads that lead to the trestles from CA and AZ will also be required.

#### 7G. Accommodation of Oversize Loads

The proposed project will be designed to accommodate oversized loads. Construction activities are expected to affect the flow of oversized loads only during the construction period due to the construction staging, allowing for one lane in each direction. The oversized loads will be rerouted to State Route 62 to the South.

#### 7H. Graffiti Control

Graffiti control measures will be specified in accordance with approved Caltrans methods. Further consideration will be taken once the bridge and retaining wall types are determined.

#### 7I. Asset Management

Caltrans is responsible for developing projects that maintain the safety, condition, and operation of the State Highway System. Project needs are the result of inspections, analysis, and system planning conducted. The performance objective identified by the Headquarters (HQ) SHOPP Manager have been entered into the SHOPP tool. This project achieves the performance objectives which are consistent with the Transportation Asset Management Plan, Ten-Year SHOPP Plan, and Five-Year Maintenance Plan. See Attachment M for SHOPP Performance Measures.

#### 7J. Complete Streets

I-40 is not designated as a bicycle facility. Bicycles are allowed on the segment of I-40 that encompasses the project limits because there is not a parallel alternative route. Widening the shoulders to ten-foot width will provide shoulder continuity and access for bicycle travelers.

#### 7K. Climate Change Considerations

#### Greenhouse Gas Reduction Measures

There is no impact to Greenhouse Gas Reduction Measures (GHG) emissions and climate change. No further analysis is required. Caltrans continues to be involved on the Governor's Climate Action Team as the ARB works to implement EOs S-3-05 and S-01-07 and help achieve the targets set forth in AB 32. EO B-30-15, issued in April 2015, and SB 32, set an interim target to cut GHG emissions to 40 percent below 1990 levels by 2030. While some

GHG emissions during the construction period would be unavoidable, no increase in operational GHG emissions is expected.

#### 7L. Broadband and Advance Technologies

The proposed improvements will not impact the accommodation for wired broadband facilities, fueling opportunities for zero-emission vehicles, and provisions of infrastructure-to-vehicle communications for transitional or fully autonomous vehicles. Based on Operations (Traffic Management Support) recommendation, there will be no broadband in this project.

#### 7M. Alternative Delivery Method

To facilitate and enhance the PS&E delivery for this project the contract manager/general contractor (CMGC) process will be incorporated. A general contractor will be selected based on a request for proposal selection process and will be included as part of the PDT during the PS&E phase of the project.

#### 8. FUNDING, PROGRAMMING AND ESTIMATE

#### Funding

This project has been programmed in the 2022 SHOPP, 20.xx.201.110 with Contribution from Arizona State Pavement Rehabilitation Program for delivery in the 2025/2026 Fiscal Year. The current estimated construction cost is \$83,117,934 and the estimated right of way cost is \$7,999,975. It has been determined that this project is eligible for Federal-aid funding.

#### **Programming**

Fund Source		Fiscal Year Estimate							
20.XX.201.010	Current Estimate	21/22	23/24	25/26	Total Escalated Estimate	ADOT Share of Estimate	Caltrans Share of Estimate	Caltrans Programmed /Approved Amount*	Caltrans Estimate Difference from Programmed
Component		In thous	In thousands of dollars (\$1,000)						
PA&ED Support	\$6,230	\$6,230			\$6,230	\$3,115	\$3,115	\$3,115	\$0
PS&E Support*	\$11,048		\$11,048		\$11,048	\$5,524	\$5,524	\$3,759	\$1,765
Right of Way Support **	\$451		\$451		\$451	\$236	\$451	\$431	\$20
Construction Support	\$20,536			\$20,536	\$20,536	\$10,268	\$10,268	\$10,268	\$0
TotalSupport	\$38,265	\$6,230	\$11,499	\$20,536	\$38,265	\$19,143	\$19,358	\$17,573	\$1,785
Right of Way	\$8,000			\$8,000	\$8,000	\$69	\$8,000	\$8,000	\$0
Construction	\$83,118			\$99,232	\$99,232	\$49,616	\$49,616	\$49,616	\$0
TotalCapital	\$91,118			\$107,232	\$107,232	\$49,685	\$57,616	\$57,616	\$0
Grand Total	\$129,383	\$6,230	\$11,499	\$127,768	\$145,497	\$76,759	\$76,974	\$75,189	\$1,785
							Supj	port/Capital R	atio: 35.7%

<sup>\*</sup> The procurement for the final need is being negotiated with the functions. The increase in PS&E is due to the change in scope from bridge rehabilitation to bridge replacement and a change in the contractor selection process to CM/GC in lieu of lowest bidder. A PCR was not processed due to the funding for phase 1 being in the current fiscal year.

The support/capital ratio of 35.7% is within the statewide average of 37.7% for similar projects. ADOT and Caltrans will split the cost of the project 50/50, except for the right of way support and capital. Each agency will acquire all right of way required for the project within their respective jurisdiction and pay for 100% of their respective right of way capital and support costs needed to do so.

#### Estimate

The estimated current construction cost is \$83,117,934 and the estimated right of way cost is \$7,999,975. See the Preliminary Cost Estimate for a breakdown of construction cost (Attachment C), Right of Way Data Sheet (Attachment D) for the CA right of way cost, and Right of Way Project Cost Estimate (Attachment E) for the AZ right of way cost.

<sup>\*\*</sup> Adjustment for additional funds will be requested at the time of fund allocation.

#### 9. DELIVERY SCHEDULE

Project Milestones		Milestone Date (Month Day, Year)	Milestone Designation (Target/Actual)
Begin Environmental	M020	May 5 <sup>th</sup> , 2020	Actual
Circulation Of Draft Environmental Document	M120	June 14th, 2023	Actual
PA & ED	M200	January 31st, 2023	Target
PS&E TO DOE	M377	October 2 <sup>nd</sup> , 2025	Target
Structural PS&E	M378	September 2 <sup>nd</sup> , 2025	Target
Right Of Way Certification	M410	April 2 <sup>rd</sup> ,2026	Target
Ready To List	M460	April 15 <sup>th</sup> , 2026	Target
Construction Contract Package to DES-OE	M475	July 31st, 2026	Target
Headquarters Advertise	M480	November 1 <sup>st</sup> , 2026	Target
Award	M495	January 2 <sup>nd</sup> , 2027	Target
Approve Contract	M500	February 2st, 2027	Target
Contract Acceptance	M600	May 1st, 2030	Target
End Project Expenditures	M800	November 1st, 2031	Target
Final Project Closeout	M900	November 1st, 2032	Target

#### 10. RISKS

See the Risk Register in Attachment L for more details The following items are summarized from the risk register developed by the PDT:

- As a result of a permit required from the US. Coast Guard, the review process and approval may take longer than anticipated and delivery schedule may not allow time to process these permits. This may delay the project schedule and may increase the cost.
- As a result of not knowing the exact details of the preferred structure, utility conflict may occur which will impact the project cost and schedule.
- The project is located in the vicinity of several large well-known Historic Properties. If project plans subsequently encroach on the boundaries of these sites, then additional testing, consultation, and mitigation will be required. Thereby, the project cost may increase, and schedule may be delayed.
- Due to the multiple interstate agency coordination and the number of government agency jurisdictions requiring various permit and approval processes, if there is disagreement between agencies on protocols and findings, unforeseen mitigation, additional surveys/monitoring, and/or restrictive measures to satisfy environmental approvals may be needed. This may increase project cost and delay the schedule.
- There may be birds nesting under the bridge or in the trees and shrubs within the project area. If nesting birds are present during construction, this may delay the schedule and increase the cost.
- If BMP measures cannot be implemented prior to construction or prior to specified construction activities, then the construction schedule may be delayed.

- As a result of anticipating a long-term onsite plant establishment period per the CDFW 1600 permit, and offsite restoration work per the CDFW 2081 permit, a Child Project is needed to address these costs. Because the design is anticipated in Phase 1, permits are not yet acquired, and anticipated costs and support may exceed the current estimate. There is a risk that there may not be enough funds allocated and programmed into the Child Project to cover all costs. This may impact project schedule and cost.
- Since Pacific gas and Electric company (PG&E) habitat restoration is anticipated to be completed by the time this Project begins construction, habitat restoration may improve habitat suitability for some listed species under The Federal Endangered Species Act (FESA) and the California Endangered Species Act (CESA) that was previously analyzed as not suitable. Based on habitat suitability and/or positive detections, this may require a reevaluation, additional technical studies, USFWS section 7 Consultation, CDFW 2081 permit, and/or associated avoidance, minimization, and mitigation measures. This may impact project cost and schedule.
- The Cooperative Agreement between CT and ADOT for PSE phase has not yet been finalized. Any delay in executing this Agreement may result in schedule delay and impact the project cost.
- If we don't receive the geotechnical permits for three locations within body of waters in time to complete geotechnical borings in the late fall/winter 2024/2025, then due to the fully protected species/restricted work windows, (February 01 to September 30) we will not be able to proceed with geotechnical boring in that season. This may delay the schedule and impact cost.
- Geotech will be outsourcing the the work to consultant. it is not certain that consultant will have time to start the work in time to prepare the reports. This may result in schedule delay.
- The foundation design is based on Structure preliminary geotechnical report (SPGR). Any discrepancy/change in geotechnical information may cause to redesign the foundation. This may result in cost increase and schedule delay.
- In order to minimize the environmental impact, Long span bridge type is preferred, which poses the significant challenges for structure design. The complex structure may result in a higher cost.
- As a result of bridge replacement, traffic handling/detours will be required. The following items may be required: Community Impact Analysis; Public Awareness Campaign; Utilities, Public Services, or Emergency Services Assessments. This may increase the project capital cost and delay the construction schedule.
- Due to Potential soil liquefaction lateral spreading need to be further investigated. Ground improvements, or deep foundations, may be used to reduce or even eliminate lateral spreading hazards. This would impact the project cost and schedule.
- As a result of Pacific Gas and Electric Company's (PG&E's), environmental remediation activities, conducted by DTSC at Topock Compressor Station close to the project site, PG&E activities and/or assets may be potentially affected by Caltrans' I-40 Colorado River Bridge Replacement Project. If the bridge replacement activities intercept, obstruct or hinder PG&E's groundwater and contaminated soil removal plans or remediation infrastructures (wells, pipelines, communication lines and power lines), this could potentially lead to shut down of the project which would lead to massive delays and losses.

- As a result of DTSC's implementation of revegetation mitigation directly below the current I-40 bridge, all proposed bridge-replacement alternatives may impact the vegetation that has been replanted. Any "take" of vegetation from the revegetation program due to impacts from the bridge replacement project would impact the long-term success and establishment of native vegetation and may ultimately lead to shut down of the project which would lead to massive delays and losses.
- If the Project construction exceeds Dec 31, 2033, whereby species impacts may occur, then SB 147 is no longer valid, and the Project cannot have "take" to CDFW Fully Protected Species (Yuma Ridgeway's rail, black rail, and razorback sucker), which may result in a stop work order on the Project permanently or until legislation can be pursued. This will adversely impact the project cost and schedule.
- As a result of differing site conditions, difficult drilling/caving conditions/groundwater impact may occur during the foundation construction, which will lead to impacts on cost and schedule.
- New permit for bridge is being sought from State Lands Commission. The project will require Caltrans to submit a lease application through the Commission's OSCAR portal. The application will also require Caltrans to submit an Approximate Expense Deposit (\$3,000.00) to cover reimbursable staff costs for processing, and a filing fee (nominal, \$25). The deposit into the State Parks fund is cited in Streets & Highways Code section 101.5 and is not a State Lands Commission requirement. The SLC doesn't specify the amount nor verify the deposit, this amount is usually determined by an appraisal.
- If phase 1 opening is delayed beyond Feb 2024, the project schedule would be impacted.
- If the Child EA does not created by early design and is not adequately funded, Caltrans will be unable to meet all CDFW 1600 and/or 2081 permit requirements and this will impact the project cost and schedule.

#### 11. EXTERNAL AGENCY COORDINATION

#### Federal Highway Administration (FHWA)

This Project Report has been reviewed by Caltrans' FHWA Liaison, Sergio Avila, on September 26<sup>th</sup>, 2023 and this project is eligible for federal aid funding. Per the current Joint Stewardship and Oversight Agreement (Agreement) between the Caltrans and Federal Highway Administration (FHWA), dated May 28<sup>th</sup>, 2015, this project is considered to be a Delegated Project. However, should any future situation/circumstance that will potentially classify the project for Risk-based Project Involvement (RBPI) occur, Caltrans shall notify FHWA. FHWA will reassess this project to determine if the project is selected for RBPI and identify the specific FHWA involvement.

#### Calif. Department of Fish & Game

1602 Streambed Alteration Agreement 2081 Incidental Take Permit

#### U.S. Army Corp. of Engineers

404 Permit (Streams/Floodplain)

#### Colorado River Regional Water Quality Control Board

401 Water Quality Certification

#### County Flood Control Department

Flood Control Channel, Work Permit

#### U.S. Coast Guard

Project Concurrence and Permit

#### United States Fish and Wildlife Service

Section 7 Consultation Biological Opinion

#### Arizona Department of Environmental Quality/Environmental Protection Agency

401 Water Quality Certification

#### State Lands Commission

New Bridge Lease required for Colorado River Bridge

#### State Legislature

Project Exemption from California Fish and Game Code

#### Havasu National Wildlife Refuge

Additional Right of Way will be required for Alternatives 2 and 3

#### 12. PROJECT REVIEWS

Mike Ristic	_Date_	9/26/23
dinator Paul Gennaro	_Date_	9/24/23
Elaheh Hadipour	_Date_	9/19/23
Sergio Avila	_Date_	10/11/23
Kevin Chen	_Date_	9/23/23
Ihab Boulos	_Date_	9/20/23
	rdinator Paul Gennaro Elaheh Hadipour Sergio Avila Kevin Chen	rdinator Paul Gennaro Date  Elaheh Hadipour Date  Sergio Avila Date  Kevin Chen Date

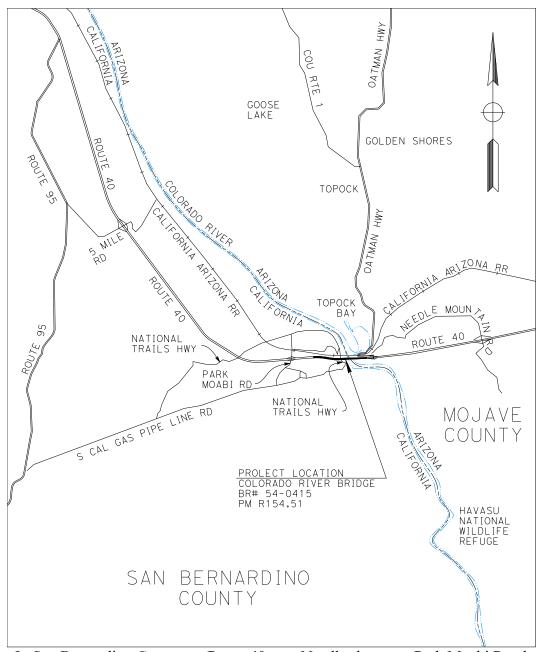
#### 13. PROJECT PERSONNEL

Name	Title & Branch	Phone Number
Cat Quach	Office Chief, Design I	(909) 501-9333
Refaat El Sherif	Project Engineer, Design I	(909) 806-3204
Bac Son Quach	Project Manager, Project Management	(951) 830-6017
Siva	Office Chief, Traffic Operations COS	(909) 383-4065
Sivakkolunthar	Office Chief, Traffic Operations COS	(909) 363-4003
Gabrielle Duff	Branch Chief, Environmental Studies B	(909) 501-5142
Julie Scrivner	Associate Environmental Planner	(909) 260-8265
Christine Senteno	Office Chief, Right of Way	(909) 693-9087

#### 14. ATTACHMENTS (Number of Pages)

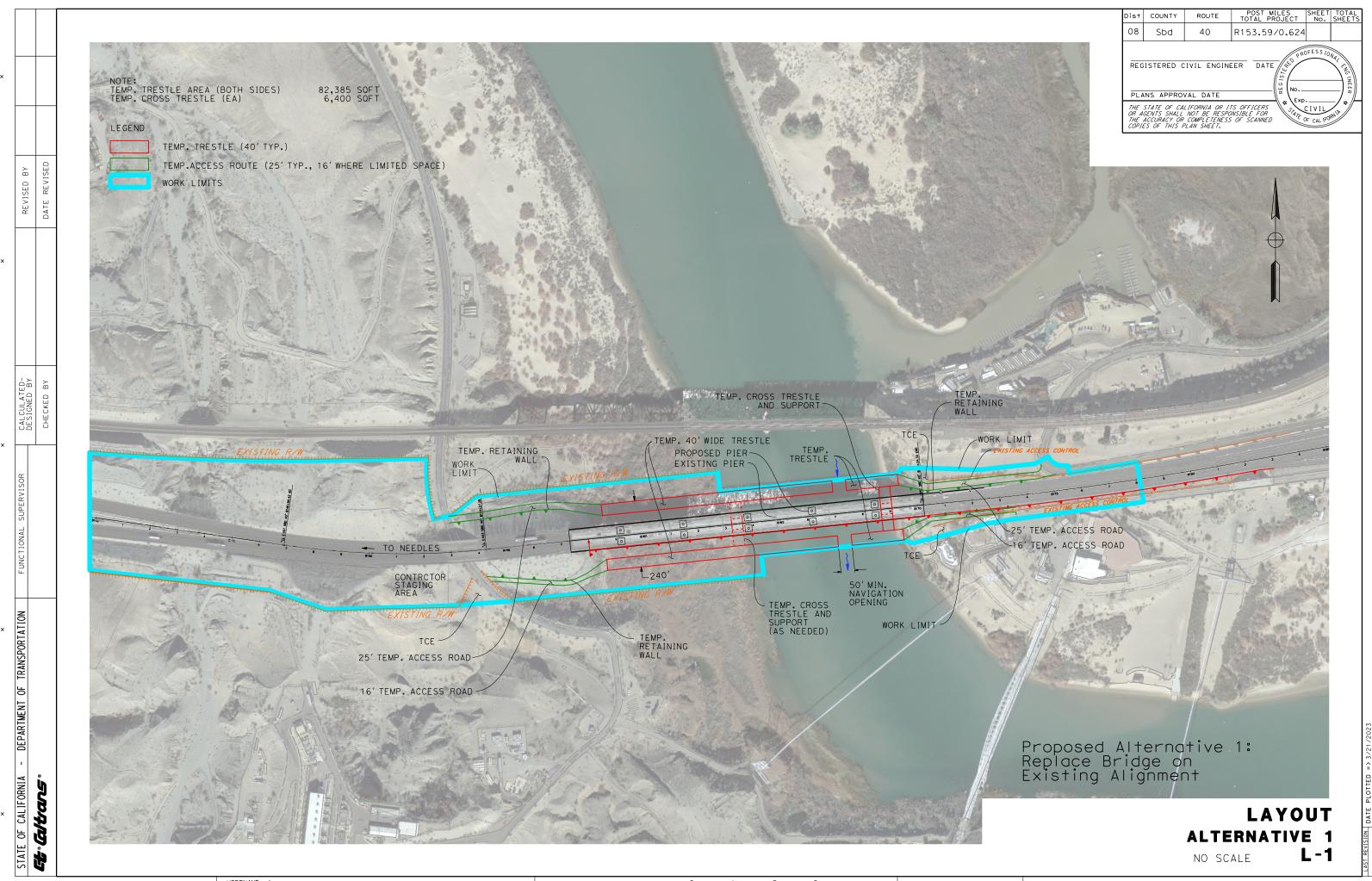
- A. Location map (1)
- B. Typical Layouts and Cross Sections (10)
- C. Preliminary Cost Estimate (10)
- D. Right of Way Data Sheet (11)
- E. Right of Way Project Cost Estimate (1)
- F. Storm Water Data Report-signed cover sheet (1)
- G. Initial Site Assessment Checklist (2)
- H. Environmental Document (7)
- I. Transportation Management Plan (5)
- J. Project Category Assignment (2)
- K. Project Study Report Project Development Support (1)
- L. Risk Register (8)
- M. SHOPP Performance Measures (1)
- N. Field Review Sign-In Sheet (2)

# Attachment A Location Map



In San Bernardino County on Route 40 near Needles between Park Moabi Road and Topock Road in Mojave County Arizona, at the Colorado River Bridge

# Attachment B Typical Layouts and Cross Sections



BORDER LAST REVISED 7/2/2010

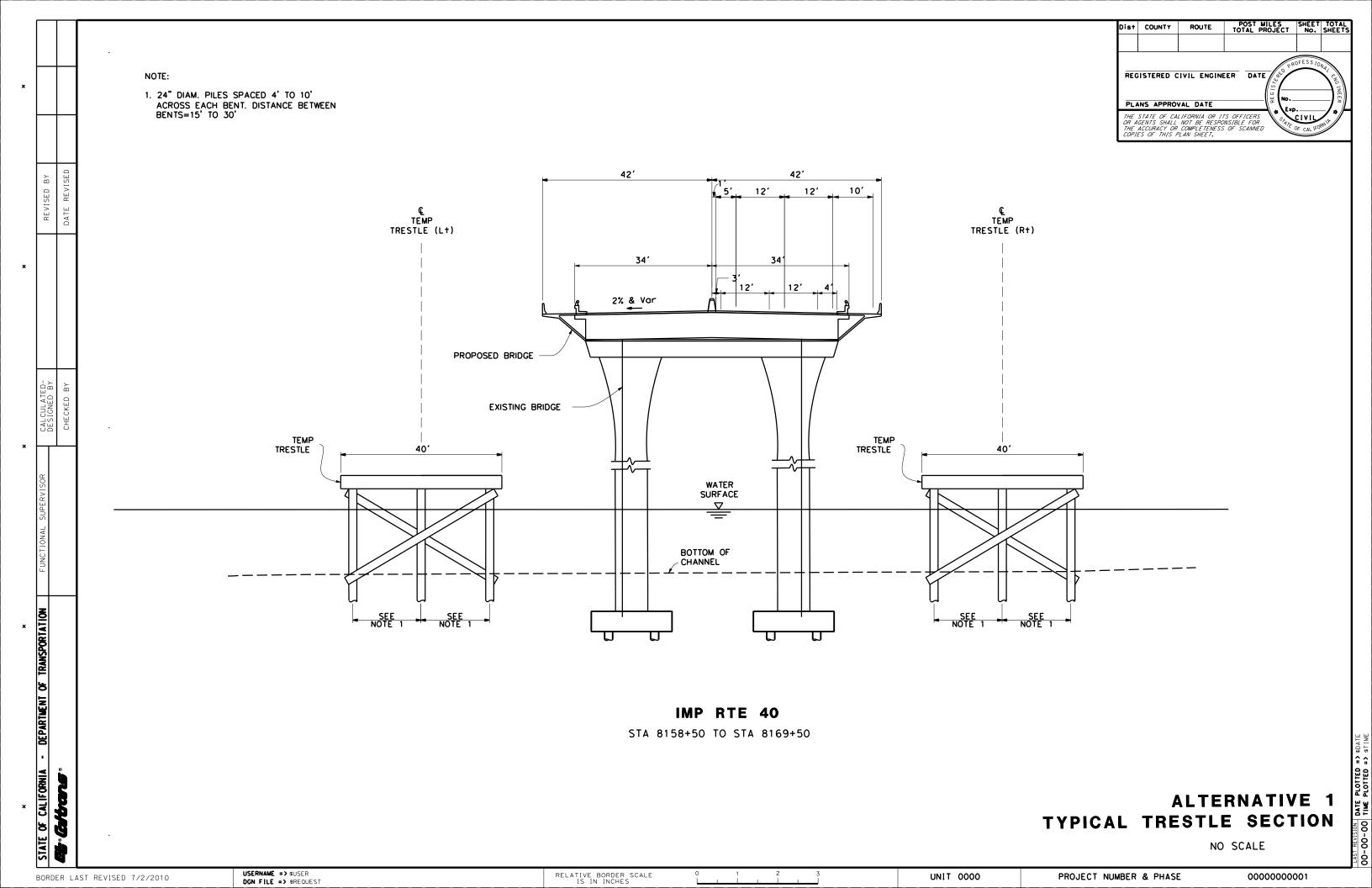
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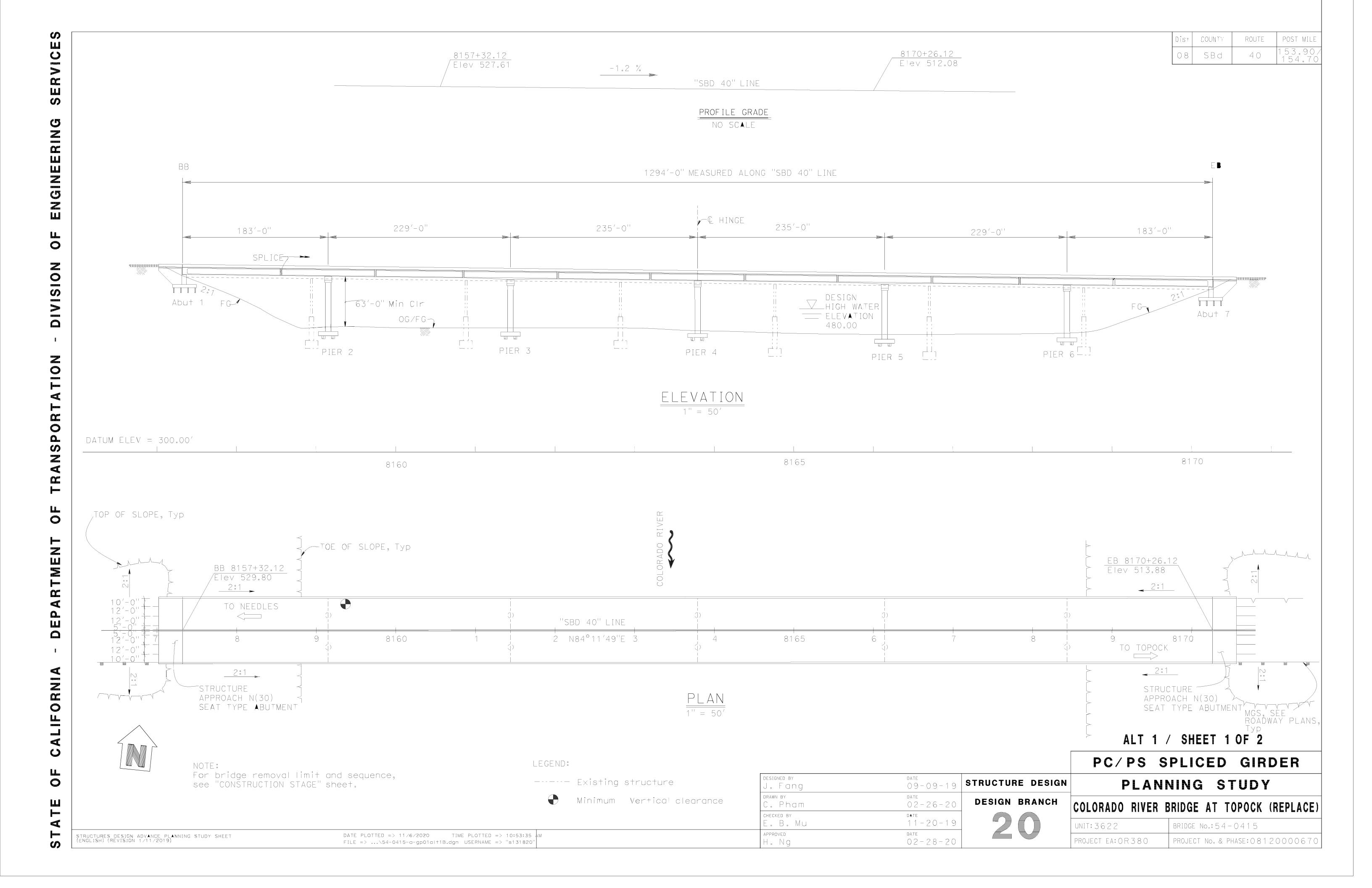
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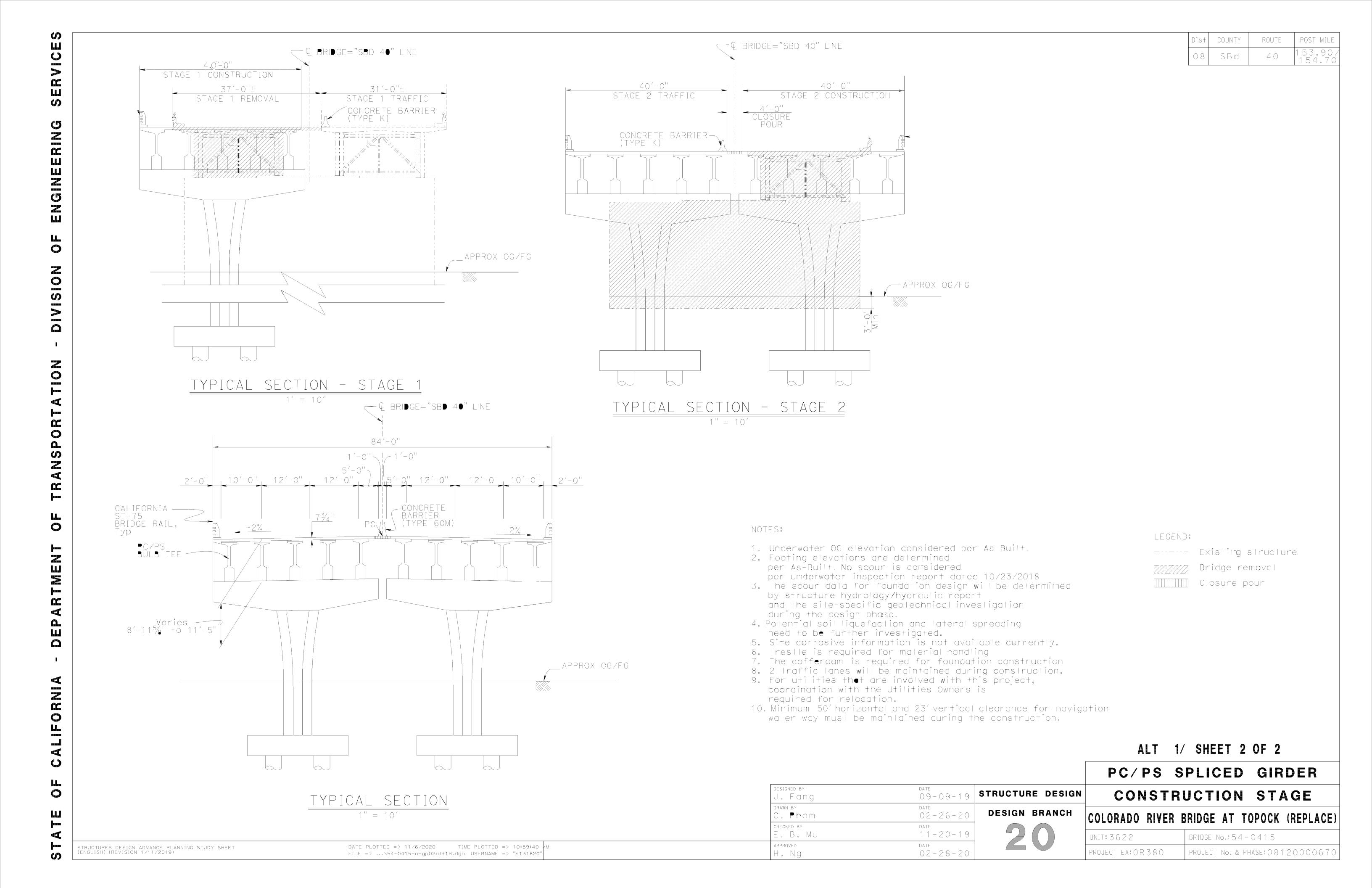
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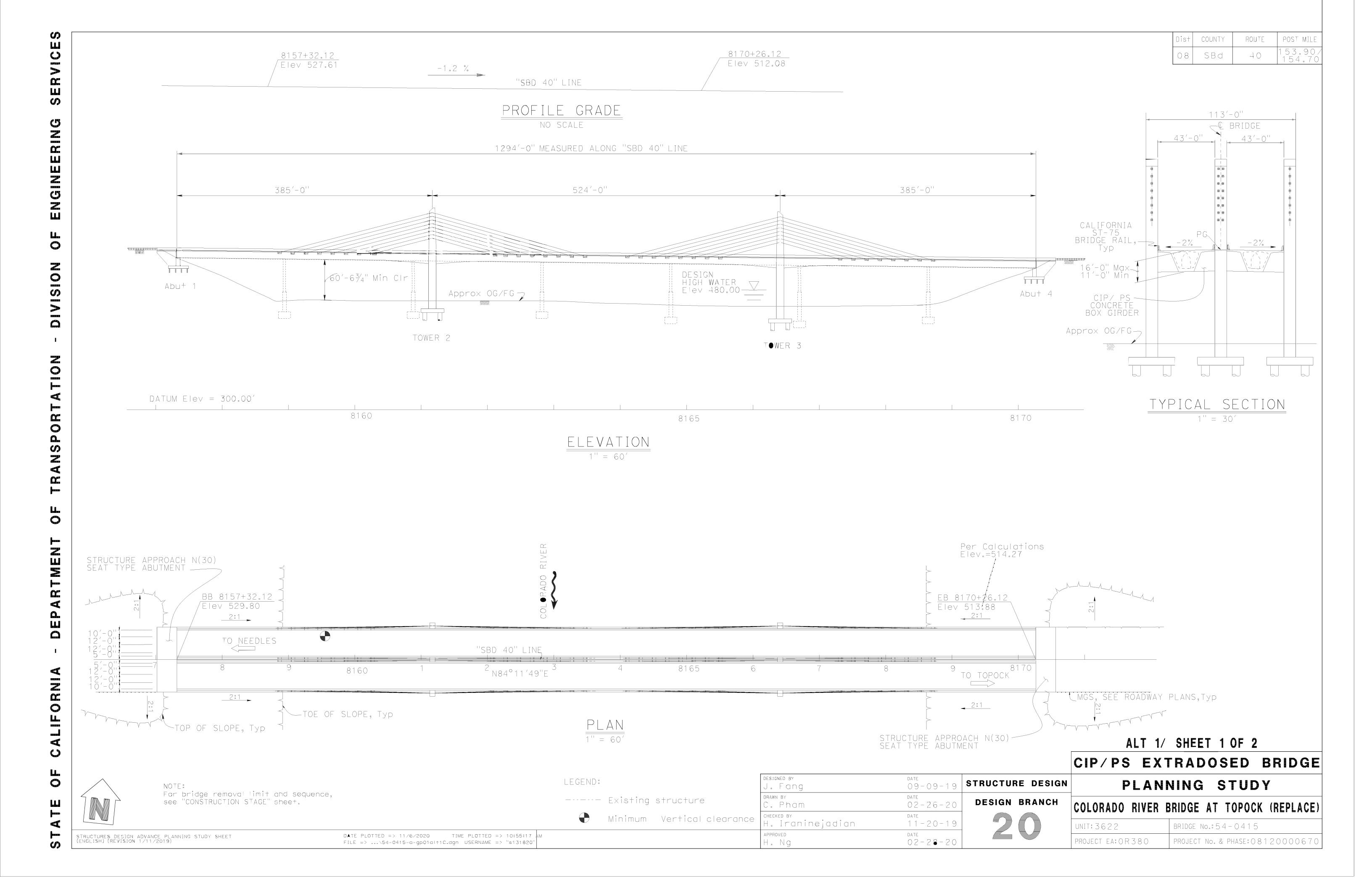
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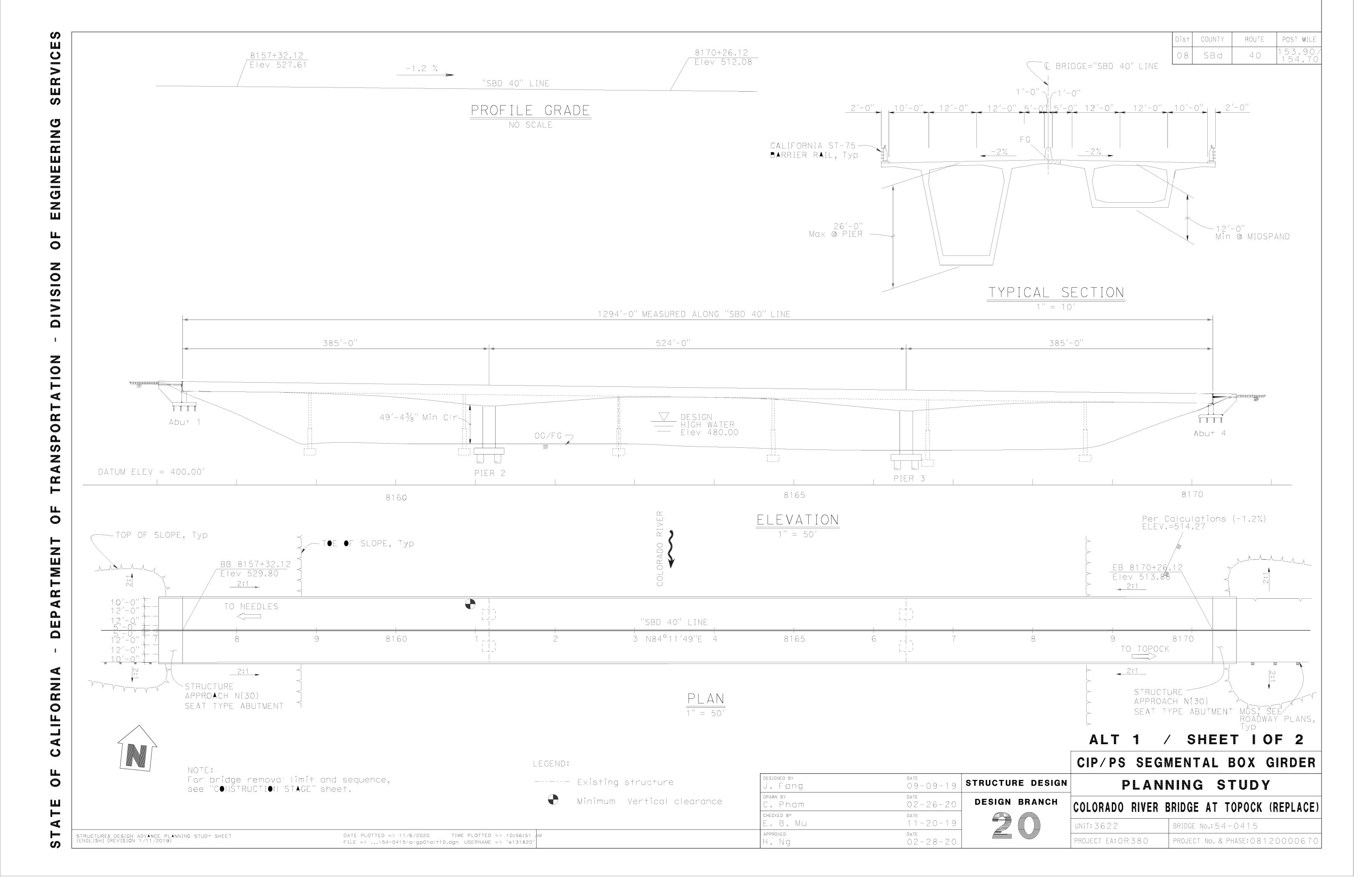
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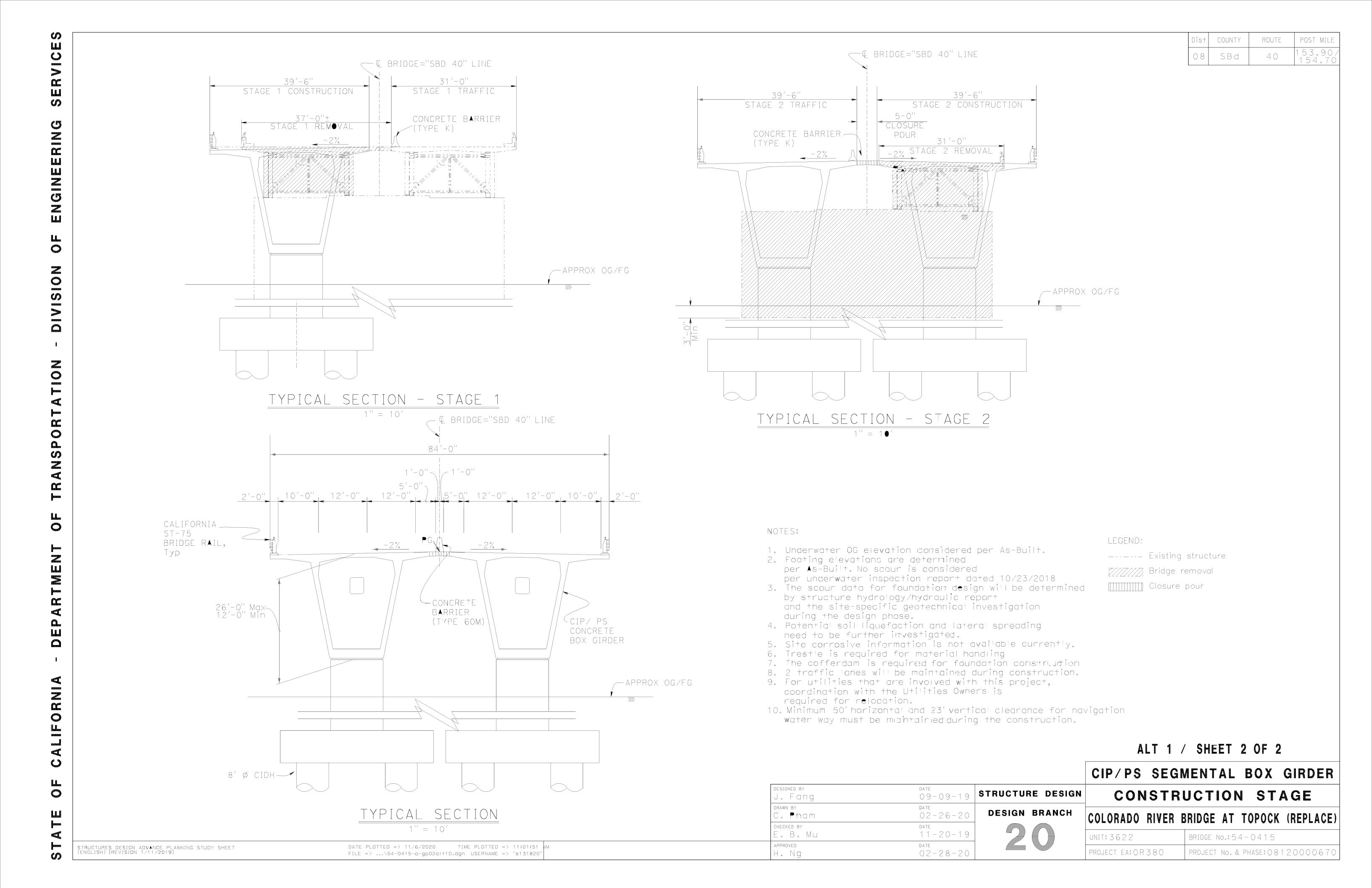












# Attachment C Preliminary Cost Estimates

### PRELIMINARY PROJECT COST ESTIMATE

# Project Report Cost Estimate

**Project ID: 0818000040** 

Type of Estimate : Project Report

Program Code: 0R380

Project Limits: PM 153.59 TO 0.624 Into Arizona

**Description:** 

**Scope:** Rehab/Replace Colorado River Bridge

Alternative: ALT 1. Replace Colorado River BR. On existing I-40 Alignment

			Current Cost	E	scalated Cost				
	ROADWAY ITEMS	\$	25,502,570	\$	30,446,686				
	STRUCTURE ITEMS	\$	57,615,364	\$	68,785,102				
SU	BTOTAL CONSTRUCTION COST	\$	83,117,934	\$	99,231,788				
	RIGHT OF WAY	\$	7,999,975	\$	7,999,975				
ТОТА	L CAPITAL OUTLAY COST	\$	91,118,000	\$	107,232,000				
	PA/ED SUPPORT	\$	6,230,000	\$	6,230,000				
	PS&E SUPPORT	\$	11,048,000	\$	11,048,000				
	RIGHT OF WAY SUPPORT	\$	451,000	\$	451,000				
	CONSTRUCTION SUPPORT	\$	20,536,000	\$	20,536,000				
TOTAL CAPITAL	OUTLAY SUPPORT COST*	\$	38,265,000	\$	38,265,000				
то	TAL PROJECT COST	\$	129,383,000	\$	145,497,000				
	If Project has been programn	ned e	enter Programmed Amount	nt \$ 75,					
		Date	of Estimate (Month/Year)	Month / Year 4 / 2023					
	Estimated Date of 0	Const	ruction Start (Month/Year)		1 / 2027				
			Number of Working Days	60	9 9				
	Estimated Mid-Poir	nt of	Construction (Month/Year)	Month 1	n / Year 0 2027				
	Numl	ber o	f Plant Establishment Days		Days				
	Estimated Project S	chec	lule						
	PID Approval		December-16						
	PA/ED Approval		November-23						
	PS&E		July-25						
	RTL		March-26						
	Begin Construction		January-27						
Approved by Project Manager	Dject Elaheh Hadipour 2/14/2023 (909) 665-								
			Date	ı	Phone				

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### I. ROADWAY ITEMS SUMMARY

	Section	Cost
1	Earthwork	\$ 2,416,500
2	Pavement Structural Section	\$ 1,311,200
3	Drainage	\$ 2,000,000
4	Specialty Items	\$ 5,152,500
5	Environmental	\$ 6,048,700
6	Traffic Items	\$ 1,193,300
7	Detours	\$ 700,000
8	Minor Items	\$ 635,500
9	Roadway Mobilization	\$ 1,334,380
10	Supplemental Work	\$ 696,200
11	State Furnished	\$ 753,400
12	Contingencies	\$2,096,300
13	Overhead	\$ 1,164,590
	TOTAL ROADWAY ITEMS	\$ 25,502,570

Estimate Prepared By		2/13/2023	(909) 501-9183
	Josh Medina, Transportation Engineer	Date	Phone
Estimate Reviewed By		2/13/2023	(213) 317-0002
	Refaat El Sherif, Project Engineer	Date	Phone

By signing this estimate you are attesting that you have discussed your project with all functional units and have incorporated all their comments or have discussed with them why they will not be incorporated.

### **SECTION 1: EARTHWORK**

Item code		Unit	Quantity		Unit Price (\$)		Cost
160101	Clearing & Grubbing	LS	1	Х	10,000.00	=	\$ 10,000
170101	Develop Water Supply	LS	1	Х	150,000.00	=	\$ 150,000
190101	Roadway Excavation	CY	10,000	Х	60.00	=	\$ 600,000
190103	Roadway Excavation (Temporary Access	CY	3,000	Х	32.00	=	\$ 96,000
192037	Structure Excavation (Retaining Wall)	CY	11,500	Х	31.00	=	\$ 356,500
193013	Structure Backfill (Retaining Wall)	CY	10,000	Х	99.00	=	\$ 990,000
193031	Pervious Backfill Material (Retaining Wall)	CY	2,000	Х	107.00	=	\$ 214,000
194001	Ditch Excavation	CY		Х		=	\$ -
198001	Imported Borrow	CY		Х		=	\$ -
198007	Imported Material (Shoulder Backing)	TON		Х		=	\$ -
XXXXXX	Some Item			Х		=	\$ -

TOTAL EARTHWORK SECTION ITEMS \$ 2,416,500

### **SECTION 2: PAVEMENT STRUCTURAL SECTION**

Item code		Unit	Quantity		Unit Price (\$)		Cost
150771	Remove Asphalt Concrete Dike	LF		Х	(,,	=	\$ _
	Remove Base and Surfacing	CY		Х		=	\$ -
153103	Cold Plane Asphalt Concrete Pavement	SQYD		Х		=	\$ -
	Remove Concrete ( Curb and Gutter )	CY		Х		=	\$ -
250201	Class 2 Aggregate Subbase	CY	124	Х	109.00	=	\$ 13,516
	Class 4 Aggregate Subbase	CY		Х		=	\$ -
260203	Class 2 Aggregate Base	CY	1,262	Х	166.00	=	\$ 209,492
280000	Lean Concrete Base	CY	89	Х	433.00	=	\$ 38,537
290201	Asphalt Treated Permeable Base	CY		Х		=	\$ -
360200	Base Bond Breaker	SQYD	53	Х	3.00	=	\$ 159
365001	Sand Cover	TON		Х		=	\$ -
374002	Asphaltic Emulsion (Fog Seal Coat)	TON		Х		=	\$ -
	Asphaltic Emulsion (Polymer Modified)	TON		Х		=	\$ -
3750XX	Screenings (Type XX)	TON		Х		=	\$ -
	Slurry Seal	TON		Х		=	\$ -
390095	Replace Asphalt Concrete Surfacing	CY		Х		=	\$ -
390132	Hot Mix Asphalt (Type A)	TON	2,784	Х	143.00	=	\$ 398,112
390136	Minor Hot Mix Asphalt	TON		Х		=	\$ -
390137	Rubberized Hot Mix Asphalt (Gap Graded)	TON		Х		=	\$ -
393003	Geosynthetic Pavement Interlayer	SQYD		Х		=	\$ -
39405X	Shoulder Rumber Strip (HMA, Type XX Inde	r STA		Х		=	\$ -
394071	Place Hot Mix Asphalt Dike	LF		Х		=	\$ -
394074	Place Hot Mix Asphalt Dike (Type C)	LF	924	Х	565.00	=	\$ 522,060
394076	Place Hot Mix Asphalt Dike (Type E)	LF		Х		=	\$ -
394090	Place Hot Mix Asphalt (Misc. Area)	SQYD		Х		=	\$ -
397005	Tack Coat	TON	4	Х	2,625.00	=	\$ 10,500
401000	Concrete Pavement (Ramp Termini)	CY		Х		=	\$ -
401050	Jointed Plain Concrete Pavement	CY	204	Х	582.00	=	\$ 118,728
401108	Replace Concrete Pavement (Rapid Strengt	th CY		Х		=	\$ -
404092	Seal Pavement Joint	LF		Х		=	\$ -
404094	Seal Longitudinal Isolation Joint	LF		Х		=	\$ -
413112A	Repair Spalled Joints (Polyester Grout)	SQYD		Х		=	\$ -
413115	Seal Existing Concrete Pavement Joint	LF		Х		=	\$ -
420102	Groove Existing Concrete Pavement	SQYD		Х		=	\$ -
	Grind Existing Concrete Pavement	SQYD		Χ		=	\$ -
731502	Minor Concrete (Misc. Const)	CY		Χ		=	\$ -
731530	Minor Concrete (Textured Paving)	SQFT		Χ		=	\$ -
XXXXXX	Some Item			X		=	\$ -

TOTAL STRUCTURAL SECTION ITEMS \$ 1,311,200

### **SECTION 3: DRAINAGE**

Item code	Unit	Quantity	ı	Unit Price (\$)		Cost
150206 Abandon Culvert	LF	_	X	. ,	=	\$ -
150805 Remove Culvert	LF	)	X		=	\$ -
150820 Modify Inlet	EA	)	X		=	\$ -
152430 Adjust Inlet	LF	)	X		=	\$ -
155003 Cap Inlet	EA	>	X		=	\$ -
193114 Sand Backfill	CY	>	X		=	\$ -
510502 Minor Concrete (Minor Structure)	CY	>	Χ		=	\$ -
510512 Minor Concrete (Box Culvert)	CY	>	Χ		=	\$ -
62XXXX XXX" APC Pipe	LF	>	X		=	\$ -
64XXXX XXX" Plastic Pipe	LF	>	Χ		=	\$ -
65XXXX XXX" RCP Pipe	LF	)	X		=	\$ -
66XXXX XXX" CSP Pipe	LF	>	Χ		=	\$ -
68XXXX Edge Drain	LF	)	X		=	\$ -
69XXXX XXX" Pipe Downdrain	LF	)	X		=	\$ -
70XXXX XXX" Pipe Inlet	LF	)	X		=	\$ -
70XXXX XXX" Pipe Riser	LF	)	X		=	\$ -
70XXXX XXX" Flared End Section	EA	)	X		=	\$ -
703233 Grated Line Drain	LF	)	X		=	\$ -
72XXXX Rock Slope Protection (Type and Method)	CY	)	X		=	\$ -
721420 Concrete (Ditch Lining)	CY	)	X		=	\$ -
721430 Concrete (Channel Lining)	CY	)	X		=	\$ -
729010 Rock Slope Protection Fabric	SQYD	)	X		=	\$ -
750001 Miscellaneous Iron and Steel	LB	)	X		=	\$ -
XXXXXX Additional Drainage	LS	1 >	X	2000000	=	\$ 2,000,000
XXXXXX Some Item		)	X		=	\$ -

### **SECTION 4: SPECIALTY ITEMS**

Item code		Unit	Quantity		Unit Price (\$)		Cost
070012	Progress Schedule (Critical Path Method)	LS		Х		=	\$ -
141120	Treated Wood Waste	LB	13,127	Χ	0.72	=	\$ 9,451
150662	Remove Metal Beam Guard Railing	LF		Х		=	\$ -
150668	Remove End treatment for double thrie beam barri-			Х		=	\$ -
25525	Remove Double Thrie beam barrier	LF		Χ		=	\$ -
153250	Remove Sound Wall	SQFT		Х		=	\$ -
141120	Treated Wood Waste	LB		Х		=	\$ -
49XXXX	CIDH Concrete Piling (Insert Diameter)	LF		Х		=	\$ -
510060	Structural Concrete (Retaining Wall)	CY	2,500	Х	832.00	=	\$ 2,080,000
510133	Class 2 Concrete (Retaining Wall)	CY		Х		=	\$ -
510524	Minor Concrete (Sound Wall)	CY		Х		=	\$ -
5110XX	Architectural Treatment (Insert Type)	SQFT		Х		=	\$ -
511048	Apply Anti-Graffiti Coating	SQFT		Х		=	\$ -
5136XX	Reinforced Concrete Crib Wall (Insert Type)	SQFT		Х		=	\$ -
	Sound Wall (Masonry Block)	SQFT		Χ		=	\$ -
520103	Bar Reinf. Steel (Retaining Wall)	LB	1700000	Х	1.50	=	\$ 2,550,000
80XXXX	Fence (Insert Type)	LF		Х		=	\$ -
832005	Midwest Guardrail System	LF		Χ		=	\$ -
832007	Midwest Guardrail System (Wood Post)	LF	874	Х	37.00	=	\$ 32,338
839310	Double Thrie Beam Barrier	LF		Х		=	\$ -
	End Anchor Assembly SFT	EA		Х		=	\$ -
839543	Transition Railing (Type WB-31)	EA	2	Χ	5,080.00	=	\$ 10,160
	Terminal System (Type CAT)	EA		Х		=	\$ -
	Alternative Flared Terminal System	EA		Χ		=	\$ -
	End Cap (Type A)	EA	3	Χ	420.00	=	\$ 1,260
	Rail Tensioning Assembly	EA		Χ		=	\$ -
	Concrete Barrier (Type 60M)	LF	1,206	Χ	110.00	=	\$ 132,660
	Concrete Barrier (Type 60MA)	LF	1,291	Χ	175.00	=	\$ 225,925
	Concrete Barrier (Type 732B-Modified)	LF		Χ		=	\$ -
	Concrete Barrier (Type 60)	LF		Χ		=	\$ -
	Remove Guardrail	LF	833	Χ	10.00	=	\$ 8,330
	Remove Concrete Barrier	LF	2,496	Х	41.00	=	\$ 102,336
839584A	Crash Cushion	EA		Χ		=	\$ -

TOTAL SPECIALTY ITEMS \$ 5,152,500

TOTAL DRAINAGE ITEMS \$ 2,000,000

### **SECTION 5: ENVIRONMENTAL**

5Δ -	ΔΥΩΙΙ	DANCE	MΕΔ	SURES
3A -	AVUII	JANGE	IVIEA	SURES

Item code	Unit	Quantity		Unit Price (\$)		Cost
160110 ESA Fencing	LF	1,000	Χ	30.50	=	\$ 30,500
146002 Monitoring	LS	1	Χ	2,407,800.00	=	\$ 2,407,800
803210 DT Fence	LF	1,000	Χ	15.00	=	\$ 15,000
800360 Exclusionary Fence	LF	1,000	Χ	60.00	=	\$ 60,000
146003 Bat Panels/NRPP	LS	1	Χ	363,100.00	=	\$ 363,100
140003 Asbestos Compliance Plan	LS	1	Χ	25,000.00	=	\$ 25,000

Subtotal Environmental \$ 2,901,400

### **5B - LANDSCAPE AND IRRIGATION**

Item code		Unit	Quantity		Unit Price (\$)		Cost
66898	Additional Plant Establishment Work (1 year)	LS	1	Х	125,000.00	=	\$ 125,000
160110	Temporary High-Visibility Fence	LF	3,500	Х	4.50	=	\$ 15,750
200052	Prune Existing Plants	LS		Х		=	\$ -
202039	Slow Release Fertilizer	LB		Χ		=	\$ -
204008	Plant (Group H)	EA	1,585	Χ	3.50	=	\$ 5,548
	` ' '	EA		Χ		=	\$ -
	Plant (Group A)	EA	435	Χ	12.00	=	\$ 5,220
	Plant (Group B)	EA		Χ		=	\$ -
	Plant Establishment Work 90 Days	LS		Χ		=	\$ -
	Gravel Mulch	SQFT	•	Χ	3.50	=	\$ 10,500
	Wood Mulch	CY	8	Χ	250.00	=	\$ 2,000
	Check And Test Existing Irrigation Facilities	LS		Χ		=	\$ -
	Remove Irrigation Facilities	LS		Χ		=	\$ -
208448	Riser Sprinkler Assembly	EA		Χ		=	\$ -
208594	3/4" Plastic Pipe Schedule 40 Supply Line	LF		X		=	\$ -
208739	10" Corrugated High Density Polyethylene Pipe	LF		Х		=	\$ -
209801	Maintenance Vehicle Pullout	EA		Х		=	\$ -
210010	Move-in/Move-out	EA	4	Χ	2,500.00	=	\$ 10,000
210121	Duff (Acre)	ACRE	14	Х	5,250.00	=	\$ 73,500
210252	Bonded Fiber Matrix (Sqft)	SQFT	619,000	Х	0.20	=	\$ 123,800
210430	Hydroseed	SQFT					
780400	Architechtural Treatment (Veneer)	LS	1	Χ	1,728,460.92	=	\$ 1,728,461

Subtotal Landscape and Irrigation \$ 2,099,778

### 5C - NPDES

Item code		Unit	Quantity		Unit Price (\$)		Cost
130100	Job Site Management	LS	1	Χ	150,000.00	=	\$ 150,000
130300	Prepare Stormwater Pollution Prevention Plan (SWPF	LS	1	Χ	6,000.00	=	\$ 6,000
130330	Stormwater Annual Report	EA	4	Χ	2,000.00	=	\$ 8,000
130505	Move In/Move Out	EA	8	Χ	2,000.00	=	\$ 16,000
130560	Temporary Soil Binder	SQYD	30,500	Χ	0.50	=	\$ 15,250
130560	Temporary Fence (Type ESA)	LF	8,000	Χ	35.00	=	\$ 280,000
130570	Temporary Cover	SQYD	2,000	Χ	7.00	=	\$ 14,000
130620	Temporary Drainage Inlet Protection	EA	5	Χ	450.00	=	\$ 2,250
130640	Temporary Fiber Roll	LF	15,000	Χ	8.00	=	\$ 120,000
130680	Temporary Silt Fence	LF	9,000	Χ	6.00	=	\$ 54,000
130900	Temporary Concrete Washout	LS	1	Χ	20,000.00	=	\$ 20,000
130710	Temporary Construction Entrance/Exit	EA	8	Χ	4,000.00	=	\$ 32,000
130730	Street Sweeping	LS	1	Χ	80,000.00	=	\$ 80,000
131201	Temporary Creek Diversion	LS	1	Χ	50,000.00	=	\$ 50,000
XXXXXX	Permanent Treatment BMPS*	LS	1	Х	200,000.00	=	\$ 200,000
XXXXXX	Some Item						

### **Supplemental Work for NPDES**

(These costs are not accounted in total here but under Supplemental Work on sheet 7 of 11).								
066595 Water Pollution Control Maintenance Sharing*	LS	1	Х	6,000.00	=	\$	6,000	
066596 Additional Water Pollution Control**	LS	1	X	12,000.00	=	\$	12,000	
066597 Storm Water Sampling and Analysis***	LS		X		=	\$	-	
066916 Annual Construction General Permit Fees	EA	4	X	860.00	=	\$	3,440	
XXXXXX Some Item								

Subtotal NPDES (Without Supplemental Work) \$ 1,047,500

TOTAL ENVIRONMENTAL \$ 6,048,700

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<sup>\*</sup>Applies to all SWPPPs and those WPCPs with sediment control or soil stabilization BMPs.

<sup>\*\*</sup>Applies to both SWPPPs and WPCP projects.

<sup>\*\*\*</sup> Applies only to project with SWPPPs.

### **SECTION 6: TRAFFIC ITEMS**

6Δ	_ T	raff	ic	FI	ectr	ical

6A - Traffic Electrical									
Item code	Unit	Quantity		Unit Price (\$)			Cost		
066861 Maintain Existing and Temporary Electric	EA	1	Х	1,000.00	=	\$	1,000		
150760 Remove Sign Structure	EΑ		Х		=	\$	-		
151581 Reconstruct Sign Structure	EA		Χ		=	\$	-		
152641 Modify Sign Structure	EA		Χ		=	\$	-		
5602XX Furnish Sign Structure	LB		Χ		=	\$	-		
5602XX Install Sign Structure	LB		X		=	\$	-		
56XXXX XXX" CIDHC Pile (Sign Foundation) 860090 Maintain Existing Traffic Management	LF LS	1	X X	1,000.00	=	\$ \$	1,000		
860810 Inductive Loop Detectors	EA	ı	X	1,000.00	=	\$	1,000		
86055X Lighting & Sign Illumination	LS		Х		=	\$	_		
8607XX Interconnection Facilities	LS		Х		=	\$	-		
8609XX Traffic Monitoring Stations	LS		Χ		=	\$	-		
860XXX Signals & Lighting	LS	1	Χ		=	\$	-		
8611XX Ramp Metering System (Location X)	LS		Χ		=	\$	-		
8611XX Ramp Metering System (Location X)	LS		Χ		=	\$	-		
86XXXX Fiber Optic Conduit System	LS	4	X	F0 000 00	=	\$	-		
872135 Modifying Traffic Monitoring Stations XXXXX Some Item	LS	1	Χ	50,000.00	=	\$	50,000		
AAAAA Some item									
				Subtota	al T	raffic	c Electrical	\$	52,000
6B - Traffic Signing and Striping									
Item code	Unit	Quantity		Unit Price (\$)			Cost		
070030 Lead Compliance Plan	LS	1	Х	2,000.00	=	\$	2,000		
120090 Construction Area Signs	LS	1	Χ	27,000.00	=	\$	27,000		
150701 Remove Yellow Painted Traffic Stripe	LF	20,000	Χ	3.50	=	\$	70,000		
150710 Remove Traffic Stripe	LF	40,000	Χ	0.55	=	\$	22,000		
150713 Remove Pavement Marking	SQFT		Χ	450.00	=	\$	-		
150742 Remove Roadside Sign	EΑ	6	Х	150.00	=	\$	900		
152320 Reset Roadside Sign 152390 Relocate Roadside Sign	EA EA	2	Х	720.00	=	\$	1,440		
150722 Remove Pavement Marker	EA	420	X	3.20	=	\$	1,344		
850111 Payment Marker (Retroreflective)	EA	420	^	7.00		\$	2,940		
560XXX Furnish Sign Panels	SQFT			35.00		\$	1,855		
840504 4" Thermoplatic traffic stripe (Sprayable)	LF	60,000		1.00		\$	60,000		
820107 Delineator (Class 1)	EΑ	12		70.00		\$	840		
024146 Remove Thermoplastic Traffic Stripe	LF	1,129		2.30		\$	2,597		
			_				or al Otalia in a	•	100.010
			Su	btotal Traffic Si	griii	ng ai	na Striping	\$	192,916
6C - Stage Construction and Traffic Handling									
Item code	11:4	O		Unit Duine (6)			04		
120100 Traffic Control System	Unit LS	<b>Quantity</b>		<b>Unit Price (\$)</b> 10,000.00	=	¢	<b>Cost</b> 10,000		
120100 Traille Control System  120120 Type III Barricade	EA	ı	X X	10,000.00	=	\$ \$	10,000		
120143 Temporary Pavement Delineation	LF		X		=	\$	-		
12016X Channelizer	EA	200	Х	30.00	=	\$	6,000		
128650 Portable Changeable Message Signs	EΑ	6	Х	2,500.00	=	\$	15,000		
129000 Temporary Railing (Type K)	LF	5,000	Х	50.00	=	\$	250,000		
129100 Temp. Crash Cushion Module	EΑ	84	Х	230.00	=	\$	19,320		
129099A Traffic Plastic Drum	EA	100	Х	40.00	=	\$	4,000		
839603A Temporary Crash Cushion (ADIEM)	EA								
820130 Object marker	EA		Χ	0.00		\$	-		
XXXXXX Traffic Management Plan	LS	1	Х	644,000.00		\$	644,000		
	S	ubtotal Sta	ge	Construction an	d T	raffi	c Handling	\$	948,320

**TOTAL TRAFFIC ITEMS** 

1,193,300

\$

### PRELIMINARY PROJECT COST ESTIMATE

### **SECTION 7: DETOURS**

Include constructing, maintaining, and removal						
Item code	Unit	Quantity		Unit Price (\$)		Cost
0713XX Temporary Fence (Type X)	LF	•	Х	. ,	=	\$ -
07XXXX Temporary Drainage	LS	1	Х		=	\$ -
120143 Temporary Pavement Delineation	LF		Χ		=	\$ -
1286XX Temporary Signals	EA		Χ		=	\$ -
129000 Temporary Railing (Type K)	LF		Χ		=	\$ -
190101 Roadway Excavation	CY		Χ		=	\$ -
198001 Imported Borrow	CY		Χ		=	\$ -
198050 Embankment	CY		Χ		=	\$ -
250401 Class 4 Aggregate Subbase	CY		Χ		=	\$ -
260201 Class 2 Aggregate Base	CY		Χ		=	\$ -
390132 Hot Mix Asphalt (Type A)	TON		Χ		=	\$ -
XXXXXX Some Item	LS	1	Х	700,000.00	=	\$ 700,000

TOTAL DETOURS \$ 700,000

SUBTOTAL SECTIONS 1-7 \$ 12,708,300

### **SECTION 8: MINOR ITEMS**

8A - Americans with Disabilities Act Items						
ADA Items	LS			0.0%	\$	-
8B - Bike Path Items						
Bike Path Items				0.5%	\$	63,542
8C - Other Minor Items						
Other Minor Items				0.0%	\$	-
Total of Section 1-7	\$	12,708,300	X	5.0%	= \$	635,415

TOTAL MINOR ITEMS \$ 635,500

### **SECTIONS 9: MOBILIZATION**

Item

Total Section 1-8 13,343,800 x 10% = \$ 1,334,380 999990

TOTAL MOBILIZATION \$ 1,334,380

### **SECTION 10: SUPPLEMENTAL WORK**

Item code		Unit	Quantity	ι	Jnit Price (\$)		Cost
066015	Federal Trainee Program	LS	-	Χ	. ,	=	\$ -
066063	Traffic Management Plan - Public Informati	LS	0	Х	0.00	=	\$ -
066090	Maintain Traffic	LS	1	Χ	5,000.00	=	\$ 5,000
066094	Value Analysis	LS		Χ		=	\$ -
066204	Remove Rock & Debris	LS		Χ		=	\$ -
066222	Locate Existing Cross-Over	LS		Χ		=	\$ -
066670	Payment Adjustments For Price Index Fluc	LS		Х		=	\$ -
066700	Partnering	LS	0	Х	0.00	=	\$ -
066866	Operation of Existing Traffic Management 5	LS		Χ		=	\$ -
066920	Dispute Review Board	LS		Χ		=	\$ -
66860	Maintain existing electrical systems during construction	LS	1	X	5,000.00	=	\$ 5,000
66670	Compensation adjustment for price index for fluctuations of paving asphalt	LS	1		1,000.00		\$ 1,000
	Cost of NPDES Supp	<u>lementa</u>	al Work speci	fied ii	n Section 5C	Ξ	\$ 18,000

**Total Section 1-8** 13,343,800 5% = \$ 667,190

> TOTAL SUPPLEMENTAL WORK \$ 696,200

# PRELIMINARY PROJECT COST ESTIMATE

### **SECTION 11: STATE FURNISHED MATERIALS AND EXPENSES**

Item code		Unit	Quantity		Unit Price (\$	)		Cost	
066063	Public Information	LS	1	Х	3,000.00	=		\$3,000	
066105	RE Office	LS	1	Х	51,200.00	=		\$51,200	
066803	Padlocks	LS		Х		=		\$0	
066838	Reflective Numbers and Edge Sealer	LS		Χ		=		\$0	
066901	Water Expenses	LS		Χ		=		\$0	
066062A	COZEEP Expenses	LS	1	Х	32,000.00	=		\$32,000	
06684X	Ramp Meter Controller Assembly	LS		Х		=		\$0	
06684X	TMS Controller Assembly	LS		Х		=		\$0	
06684X	Traffic Signal Controller Assembly	LS		Χ		=		\$0	
066915	Board of Equalization treated wood waste generation	LS		X		=		\$0	
	Total Section 1-8	\$	13,343,800		5%	=	\$	667,190	
					TOTAL S	TATE	E FU	JRNISHED	\$75

### **SECTION 12: TIME-RELATED OVERHEAD**

Estiamted Time-Releated Overhead (TRO) Percentage (0% to 10%) = 10%

Item code	Unit	Quantity	Unit Price (\$)	Cost	
070018 Time-Related Overhead	wday	600	X 1940.98333 =	\$1,164,590	
		T	OTAL TIME-RELATED	OVERHEAD	\$1,164,590

### **SECTION 13: CONTINGENCY**

(Pre-PSR 30%-50%, PSR 25%, Draft PR 20%, PR 15%, after PR approval 10%, Final PS&E 5%)

Total Section 1-11  $$13975080 \times 15\% = $2,096,262$ 

TOTAL CONTINGENCY \$2,096,300

# **II. STRUCTURE ITEMS**

Name Bridge Number	57-XXX	57-XXX	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
Structure Type Vidth (Feet) [out to out]	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
otal Length (Feet)	0.00 LF	0.00 LF	0.00 LF
otal Area (Square Feet)	0 SQFT	0.00 SQFT	0.0 SQFT
` .			
` .			
Structure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
- , ,			
- , , ,			
ooting Type (pile or spread)	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxx
Cost Per Square Foot	\$0.00	\$0.00	\$0.00
ooting Type (pile or spread)	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxx
- , , , ,			
- , ,			
ructure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
\			
\			
otal Area (Square Feet)	0 SQFT	0.00 SQFT	0.0 SQFT
• ,			
otal Length (Feet)	0.00 LF	0.00 LF	0.00 LF
, , =			
, , =			
idth (Feet) [out to out]	0.00 LF	0.00 LF	0.00 LF
idth (Feet) [out to out]	0.00 LE	0.00 LE	0.00 LE
7.			
7.	xxxxxxxxxxxxxxxx		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ructure Type	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
_			
_	57-XXX	57-XXX	57-XXX
idae Number			
ame	xxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
ATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
	00/00/00	00/00/00	00/00/00
1	1	1	1 1
	ı	I	I I
STRUCTURE	<b>433,223,304.00</b>	ψ0.00	\$2,532,666.66
COST OF EACH	\$55,223,364.00	\$0.00	\$2,392,000.00
ost Per Square Foot	\$503.00	\$0.00	\$26.00
ost Per Square Foot	\$503.00	\$0.00	\$26.00
ooting Type (pile or spread)	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxx
tructure Depth (Feet)	0.00 LF	0.00 LF	0.00 LF
otal Area (Square Feet)	109788 SQFT	0 SQFT	92000 SQFT
otal Bridge Length (Feet)	1307.00 LF	LF	1150.00 LF
, , =			
idth (Feet) [out to out]	84.00 LF	LF	80.00 LF
tructure Type	Cast-in-place/Pre-stressed Box Girder	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxx
ridge Number	54-415		54-XXX
ridge Name			Temporary Trestle
	Colorado River BR.	00,00,00	
ATE OF ESTIMATE	00/00/00	00/00/00	00/00/00
			Bridge 3

<sup>1</sup>Structure's Estimate includes Overhead and Mobilization. Add more sheets if needed. Call them 9a, 9b, 9c, ..., etc

> 9 of 11 1/24/2024 3:29 PM

### PRELIMINARY PROJECT COST ESTIMATE

## **III. RIGHT OF WAY**

Fill in all of the available information from the Right of Way data sheet.

A)	A1) A2) A3)	Acquisition, including Exces Railroad Federal Lands - Special Us	es Land Purchases, Damages & Good	dwill, \$ \$ \$	55425.00 20000.00
B)	Acquisiti	on of Offsite Mitigation		\$	7067000.00
C)	C1) C2)	Utility Relocation (State Sha Potholing (Design Phase)	are)	\$ \$	0.00 9400.00
D)	Railroad	Acquisition		\$	0.00
E)	Clearand	ce / Demolition		\$	0.00
F)	Relocati	on Assistance (RAP and/or La	\$	0.00	
G)	Title and	Escrow		\$	1500.00
H)	Project F	Permit Fees		\$	164622.25
I)		nation Settlements G & H applied to items A + B	<u>0%</u> )	\$	17077.00
J)	Design A	Appreciation Factor	0%	\$	0.00
K)	Utility Re	elocation (Construction Cost)		\$	0.00
L)	ADOT Rigi	ht of Way Cost		\$	69000.00
M)		ī	OTAL RIGHT OF WAY E	STIMATE	\$7,404,024
	(Exclud	ding Item #8 - Hazardous Wa	ste)		
N)			TOTAL R/W ESTIMATE:	Escalated	\$7,404,024

0)	Right of Way Support	\$ 10,000

Support Cost	Marissa Cofer	(909) 518-4119	
Estimate Prepared By	Project Coordinator <sup>1</sup>	Phone	
Utility Estimate	Randy Davis	(909) 371-9112	
Prepared By	Utiliy Coordinator <sup>2</sup>	Phone	
R/W Acquistion	Stephen Hensley	(909) 518-4355	
Estimate Prepared By	Right of Way Estimator <sup>3</sup>	Phone	

 $<sup>^{\</sup>rm 1}$  When estimate has Support Costs only  $^{\rm 2}$  When estimate has Utility Relocation

<sup>&</sup>lt;sup>3</sup> When R/W Acquisition is required

# Attachment D Right of Way Data Sheet

Date:

### **DEPARTMENT OF TRANSPORTATION**

### MEMORANDUM

To: RAFAAT EL SHERIF

September 27, 2023 - Update 08-SBd 40 PM - R153.9/R154.7 Design I File:

Bridge Rehabilitation and/or Project:

Replacement

**EVNT RW** COST RW1 - 6

TEXT TI

SCAN

CLASS

AGRE TPRC

From: **CHRISTINE SENTENO** E.A./P.N.: OR3800 / 0812000067

**RW Project Coordination** 

We have completed an estimate of the right of way costs for the above-referenced project based on the request received on **September 8**, **2023**, and the following assumptions and limiting conditions:

Mapping received did not provide sufficient detail to determine the limits of the right of way requirements and/or to determine damages to the remainder parcels impacted by the project.

|X|Additional right of way requirements may be anticipated but are not defined due to the preliminary nature of the early design requirements.

We have determined that there are no right of way functional involvements in the proposed project at this time as currently designed.

X Due to the preliminary nature of the project scope/mapping, utility estimate was provided without the benefit of As-Built maps or potholing.

X Other: Please see remarks in federal as well as railroad portions of RWDS.

Right of Way Engineering will require a minimum of 0 months after receiving final Right of Way Requirements to deliver Right of Way Appraisal mapping (M224).

Right of Way will require a minimum of 24 months prior to certification of the subject project after receiving final Right of Way Appraisal maps, necessary environmental clearances, and approved freeway agreements (M225).

Shorter lead times may lead to additional Right of Way resources, an increased number of eminent domain actions and possibly result in missing the certification date. Any of these actions may reflect adversely on the District's other programs or the Department's and/or District's public image.

\*NOTE: THE WORKPLAN WILL BE SENT SEPARATELY AND ARE BASED ON THE INFORMATION PROVIDED WITH THE DATA SHEET REQUEST. IF THERE IS A CHANGE IN SCOPE, A REVISED DATA SHEET AND WORKPLAN WILL BE PROVIDED.

#### Attachments:

[XX] Right of Way Data Sheet

Utility Information Sheet [XX]

Railroad Information Sheet [XX]

[XX] Government Lands Information Sheet

[XX] M.C.C.E.

08-SBd 40 PM – R153.9/R154.7 Bridge Rehabilitation and/or Replacement 0R3800 / 0812000067

(Form #)

			Current 9-Phase Programmin	ng: \$ <u>16</u>	9,000.00
1.	Righ	nt of Way Cost Estimate:		\/alla	
	Α.	Acquisition, including Excess Lands, Do Major Rehabilitation, and Permits to Er Railroad Federal Lands – Lease Application/Co	nter	Value \$ \$ \$	0.00 0.00 30,025.00
	В.	Acquisition of Offsite Mitigation.		\$ 7,0	87,450.00
	C.	Utility - Relocation (State share) - Potholing (20 Potholes @ \$500.0	0)	•	50,000.00 10,000.00
	D.	RAP		\$	0.00
	E.	Clearance/Demolition		\$	0.00
	F.	Title and Escrow Fees		\$	0.00
	G.	Project Permit Fees		\$ 12	22,500.00
	Н.	Condemnation Costs		\$	0.00
		Total R/W Estimate:		\$ 7,99	99,975.00
2.	Anti	cipated Date of Right of Way Certificati	on <u><b>February 3, 2026</b></u>		
3.	Type X A B C D	U4-1 	C&M Svc ( 2 OE C Clau LIC/F	ROE	<u></u> <u></u>
Tot	al Pa	-9 <u>-</u>		eral Lands ber of Parce	Yes els
Exc		Right of Way: S.F S.F ess Land Parcels:	RAP Clea Cons Cons	. R/W Work Displaceme ar/Demo st Permits demnation hits to Enter-B	

08-SBd 40 PM – R153.9/R154.7 Bridge Rehabilitation and/or Replacement 0R3800 / 0812000067

(Form #)

4.	Are there major items of Construction Contract Work?  Yes No _X_ (If yes, explain.)
5.	Provide a general description of the right of way and excess lands required (zoning, use, major improvements, critical or sensitive parcels, etc.).
	Type and Number of Parcels: Total Number of Larger Parcels0
	Fee Easements
6.	Is there an effect on assessed valuation?  Yes Not Significant _ No _X_ (If yes, explain.)
7.	Are utility facilities or rights of way affected?  Yes No _X (See attached Utility Information Sheet
	The following checked items may seriously impact lead time for utility relocation:  Longitudinal policy conflict(s).  Environmental concerns impacting acquisition of potential easements.  Power lines operating in excess of 50 KV and substations.
8.	Are railroad facilities or rights of way affected? Yes <u>X</u> No <u></u> (See attached Railroad Information Sheet)
9.	Were any previously unidentified sites with hazardous waste and/or material found? Yes None EvidentX (If yes, attach memorandum per R/W Manual, Chapter 4, Section 4.01.10.00.)
10.	Are State or Federal rights of way affected?  YesX No (See attached Government Lands Information Sheet)  Agencies Involved: Buruaeu of Land Management, US Fish & Wildfile and State Land Commission Rights/Permissions Required: Cooperative Work Agreement
11.	Are RAP displacements required? Yes No _X_ No. of single family No. of business/nonprofit No. of multi-family No. of farms Based on Draft/Final Relocation Impact Statement/Study dated, it is anticipated that sufficient replacement housing (will/will not) be available without Last Resort Housing.
12.	Are there material borrow and/or disposal sites required?  Yes No _X (If yes, explain.)
13.	Are there potential relinquishments and/or abandonments?  Yes No _X (If yes, explain.)
14	Are there existing and/or potential Airspace sites?  Yes No _ X _ (If yes, explain.)

08-SBd 40 PM – R153.9/R154.7 Bridge Rehabilitation and/or Replacement 0R3800 / 0812000067

(Form	#)
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15. Is it anticipated that all Right of Way Yes X No (If no, discuss.)	work will be performed by CALTRANS staff?
Evaluations prepared by:	
Right of Way Estimator:	STEPHEN HENSLEY, Associate Right of Way Agent
Railroad Coordinator:	LYNDSAY CAMPANELLA, Associate Right of Way Agent
Utility Coordinator	JAMES DAVIS, Associate Right of Way Agent
Federal Lands:	KRISTINE FLINT, Associate Right of Way Agent
Right of Way Engineering:	KEVIN WINGATE, Transportation Land Surveyor
Reviewed By:	Reviewed By:
Gustavo Gutierrez GUSTAVO GUTIERREZ Project Coordinator District 8, Right of Way Date: 09/28/2023	Christine Senteno CHRISTINE SENTENO Senior-RW Agent, Project Coordination District 8, Right of Way  Date: 09/28/2023
the probable Highest and Best Use, estim	Vay Data Sheet and all supporting information. I certify that nated values, escalation rates, and assumptions are niting conditions set forth, and I find this Data Sheet complete
Susan Esparza SUSAN ESPÁRZA Project Delivery Manager District 8, Right of Way	Rebecca Guirado  REBECCA GUIRADO, Deputy District Director District 8, Right of Way and Land Survey
Date: 10/03/2023	Date: <u>10/03/2023</u>

REVI	SIONS	APPROVAL		
No.	Date	Reason for Revision	Project Coordinator	Sr. RW
			Coordinator	Agent

08-SBd 40 PM – R153.9/R154.7 Bridge Rehabilitation and/or Replacement 0R3800 / 0812000067

(Form #)

This utility estimate was prepared using "project specific" data and unit values. This information is not to be utilized for the updating or preparation of this, or any other Right of Way Cost Report or Utility Information Sheet.

UTILITY INFORMATION SHEET

1. List of utility companies in the project area:

Mojave Pipeline Operating Company, Terradex Inc., SoCal Gas-transmission, PG&E Gas-transmission, c/o Needles, Route 66 Broadband LLC., Transwestern Pipeline Company, Frontier

2. Type and name of utilities in conflict and agreements required:

Underground gas, electric.

Notice to Owners and Utility Agreements may be expected.

3. Is any facility a longitudinal encroachment in existing or proposed access controlled right of way? Explain

Disposition of longitudinal encroachment(s):
None
Relocation required.
Exception to policy needed.
Other. Explain

4. Additional information concerning utility involvement on this project. Is there any special circumstances/facilities requiring additional lead time?

#### None.

5. Potholing costs: \$10,000 (20PH x \$500)

Total estimated cost of State's obligation for utility relocation on this project: (Phase 9 funding) \$750,000

Facility Owner	Type of Relocation	Quantity (i.e, LF of waterline,	Cost of Each relocation	Total Cost of relocations	Estimated Grand Total
	(facility)	# of manholes,			including
		# poles, etc.)			contingency
SoCal Gas	12" gas	300LF	\$1,500LF	450,000	562,500
PG&E Electric	12kv electric	300LF	\$500LF	150,000	187,500
Total					\$750,000

Utility	Involvemen	t
---------	------------	---

U4-1	total number	ot avnactad	owner expense invol	Wamanto
U <del>4</del> -1		OI CAPCCICA	OWING CAPCING INVO	

- -2\_\_\_\_ total number of expected State expense involvements-conventional highway, no Federal aid
- -3\_2\_ total number of expected State expense involvements-freeway, no Federal aid

08-SBd 40 PM – R153.9/R154.7 Bridge Rehabilitation and/or Replacement 0R3800 / 0812000067

(Form #)

-4 total n Federa	number of expected State expense involve	ements-conventional or freeway, with
U5-7 total r	number of expected utility verifications, who will be supported utility verifications, 50 to 10	hich will not result in involvements % which will result in involvements, and 50%
-9 <u>2</u> total n	number of expected utility verifications, wh	nich will result in involvements
Prepared By:	James Davis	Date: <u>9/27/23</u>
Rigl	ht of Way Utility Estimator	
VI	Vincent Lundblad INCENT LUNDBLAD enior Right of Way Agent, Utilities	Date: <u>9/27/23</u>

08-SBd 40 PM – R153.9/R154.7 Bridge Rehabilitation and/or Replacement 0R3800 / 0812000067

(Form #)

Reviewed By:

Senior Right of Way Agent, Acquisitions

### RAILROAD INFORMATION SHEET

	IN VIEWOND HAI ONWY (HOTA SHEET
1.	Describe railroad facilities or rights of way affected.  Per the previous data sheet completed in 2022 this project is in coordination with Arizona Dept. of Transportation (ADOT). The scope of Alternative 1- build for this project includes replacing the SBd-40 Colorado River (54-0415) bridge between California and Arizona on its existing alignment. BNSF-owned railroad tracks on its own bridge are north of the project and run parallel to the Colorado Bridge. The railroad bridge will not be affected by the project.  A review of map layouts and a summary page submitted by Design indicates railroad involvement is limited to attaining a 18,705 sq. ft. TCE from BNSF from parcel 210-48-009 on the Arizona side of the Colorado River bridge. In regard to the railroad, all work on the California side will be done within the CT right of way and outside of 25' of any railroad tracks, therefore, no railroad involvement is anticipated on the California side of the project under the current scope of work for this alternative build.
2.	When branch lines or spurs are affected, would acquisition and/or payment of damages to businesses and/or industries served by the railroad facility be more cost effective than construction of a facility to perpetuate the rail service? Yes NoX (If yes, explain.)
3.	Discuss types of agreements and rights required from the railroads. Are grade crossings requiring service contracts, or grade separations requiring construction and maintenance agreements involved?  As per the previous data sheet completed in 2022 an environmental permit to enter has already been attained. No other agreements/rights are needed.
4.	Remarks (non-operating railroad right of way involved?):  Since railroad tracks are near the project's scope, a railroad clearance memo with a 5-1.20c clause may be needed at the time of the project's certification. If the scope of work changes and/or the railroad tracks become effected, the railroad portion of the data sheet will need to be revised to reflect railroad involvement, which may affect lead time and increased costs.
5.	4-Phase Cost: <b>\$</b> Explanation: (Flagging)
6.	9-Phase Cost: \$ 0 (Since environmental permit has already been completed)  Explanation: (ROE, Svc Contract)  PMCS Input Information  PR Involvement - Vec (A TCE will be needed within Arizons boundary by ADOT)
	RR Involvement C&M Agreement SVC Contract OE Clearances/ Clauses LIC/ROE  Yes (A TCE will be needed within Arizona boundary by ADOT)  LIC/ROE  Yes (A TCE will be needed within Arizona boundary by ADOT)  LIC/ROE
An	ticipated Lead time: No additional lead time is anticipated.
Pre	epared By: Lyndsay Campanella Date: 09/26/2023 LYNDSAY CAMPANELLA Right of Way Railroad Coordinator

Date: <u>9/26/2022</u>

08-SBd 40 PM – R153.9/R154.7 Bridge Rehabilitation and/or Replacement 0R3800 / 0812000067

(Form #)

### FEDERAL LANDS INFORMATION SHEET

Are Federal	Lands involved?		
Yes 🗸	No ☐ (If "Yes," provide the	following information.)	
Agencies Inv	olved:		
X	Army Corps of Engineers  BIA  BLM  Dept. of Parks &  Recreation	National Parks	US Postal Service Veterans Administration Other State Lands Commission Other
Rights/Permis	sions Required:		
9-Phase Cost Explanation: Remarks: State Lands Commi \$5,025.00 for staff land Highways Code	Agreement Cost Recovery Courtesy Letter Easement Highway Easement  Anticipated (if any)  ssion will require new lease agreement for Colorace abor costs. A reasonable value of Right of Way, de Section 101.5.	Mineral Agreement Perfection of Title Right of Entry  do River Bridge, PRC572. Lease applicative etermined by an appraisal will be deposite	Right of Way Grant Special Use Permit Timber Sale Transfer of Jurisdiction Other  On will require an Approximate Expense Depost of ed into the State Parks and Recreation Fund per Streets
APN: 065016109. B Once confirmed right	Inited States Fish and Wildlife (USFW), Havasu Na LM, temporary construction and permanent easem its required, permanent or temporary, Federal Lan- greement for \$25,000.00 may be requested	nents will be required. ds Coordinator work with HNWR and BLN	If to start acquisition process.
Anticipated L	ead time: 24 Months		
Prepared By:	Kristine Flint KRISTINE FLINT Right of Way Federal Lands Cod		Date: September 25, 2023
Reviewed By	AIDEE ARPON		Date: <u>9/25/2023</u>

Senior Right of Way Agent, Acquisitions



### **Mitigation and Compliance Cost Estimate (MCCE)**

### **PART 1 - PROJECT INFORMATION**

**DIST-CO-RTE**: 08 - SBD - 040 **PM/PM**: 153.900/154.700

**EA/Project Number:** 08-0R380 / 0812000067

Project Name: SBD 40 COLORADO RIVER BR REHAB

Form Completed by: SH; AM, AC, KR, EL

Project Manager: HADIPOUR, ELAHEH Phone:

**Date:** 9/26/2023

MCCE Phase prepared for: DED

### PART 2 - ENVIRONMENTAL COMMITMENTS FOR PERMANENT IMPACTS

### **Environmental Commitments for Alternative:**

Commitment	Design \$	FY	Ac/Crd	ROW \$ Planned	FY	ROW \$ Actual	Pd	Construction \$	FY
Archaeological									
Monitoring								\$625,300	26/27
ESA Fencing								\$10,500	26/27
Biological			•						
DT Fence (803210)								\$15,000	26/27
Exclusionary Fence (800360)								\$60,000	26/27
NRPP (146003)								\$10,000	26/27
Bat panels (146003)								\$353,100	26/27
TO JD update	\$50,000	23/24							
TO BMMP update	\$20,000	24/25							
Mitigation - CDFW bank credits			1	\$117,000	25/26				
Mitigation - 401/404/BO ILF			33	\$1,450,000	25/26				
Mitigation - off-site restoration	\$2,000,000		16	\$5,000,000	25/26				
Monitoring (146002) onsite	\$250,000			\$500,000	33/34				
Annual 401 Fee				\$2,763	27/28				
Annual 401 Fee				\$2,984	28/29				
Annual 401 Fee				\$3,223	29/30				
Annual 401 Fee				\$3,481	30/31				
Annual 401 Fee				\$3,759	31/32				
Annual 401 Fee				\$4,060	32/33				
Monitoring (146002)								\$1,782,500	26/27
ESA Fencing (160110)								\$20,000	26/27

### PART 3 - PERMITS AND AGREEMENTS

Revised June 2020 Page 1

**EA/Project ID:** 08-0R380\_/0812000067

Permit/Agreement		ROW \$ Planned	FY	ROW \$ Actual	Pd	FY	
CEQA Review							
1600	\$15,152.4	25/26					
1600 Geotech		\$3,860.25	23/24				
2081 - Incidental Take Pe	\$60,509.97	25/26					
401		\$20,262.7	25/26				
401 Pre-Certified		\$2,610.36	23/24				
TOTAL	\$2,320,000	\$7,189,665.68			-	\$2,876,400	

pproved by: racey D'Aoust Roberts for GABRIELLE DUFF		
	MESONO	9/28/2023
Environmental Branch Chief (Print Name)	Signature	Date
If Right of Way Capital is needed:		
Christine Senteno	Christine Senteno	09/28/2023
Right-of-Way Office Chief (Print Name)	Signature	Date
If cultural and biology mitigation t	otals more than \$500,000:	0/00/0000
Tracey D'Aoust Roberts	MUSSINO	9/28/2023
Environmental Office Chief (Print Name)	Signature	Date
	Submitted to PM of	on: Initial_

### Comments (explanation and risk management plan attached)

**Biological Resources:** 

RW Summary: Acquisition of Offsite Mitigation (various) = \$7,067,000; Project Permit Fees = \$164,622.25; estimated WD = 600

- --Bio Monitoring of bridge work (based on 600 WD, 2FT/1PT monitor, permitted biologists).
- --BEEs: high visibility ESA Fencing (4,000 LF x \$5/LF = \$20,000); temp DT fencing (1,000 LF x \$15/LF = \$15,000); exclusionary chain link fence (2,000 LF x \$30/LF = \$60,000); Natural Resources Protection Plan (NRPP) complex project assume \$10,000 LS; bat panels [(535ft of joint) x (2 joints) x (0.5 bat utilization) x (60% alt habitat requirement) x (\$3,300/panel)/3LF = \$353,100] or 107 bat panels).

Mitigation bank credits estimated at \$117,000/ac; ILF credits estimated at \$1/sq-ft; off-site 2081-related restoration estimated based on past Child EA costs. Long-term Monitoring of on-site restoration work estimated based on initial costs.

- -Permits: 1600, 2081, and 401 permit fees based on 2023 fee schedules, assumed annual increases, and assumed amendments needed.
- -- Child EA(s) needed for ITP funding security and anticipated long-term on-site restoration work required by the 1600 permit; split to occur at 1 Phase allocation, total of \$7.75 million is \$5.5M capital/

**EA/Project ID:** 08-0R380\_/0812000067

\$2.25M support. Assuming high costs to reduce risk, given that the design is anticipated in Phase 1 and the preferred alternative is not yet selected, permits are not yet acquired. All estimates are subject to change as the project advances and additional information is acquired.

### Cultural - Capital Funds:

Arch and tribal monitoring Phase 1 Task Order – (38 Geotech days, WBS 280.50) 38 days x 8 hours = 304 hours x \$200.00 = \$60,800.00

Other direct costs Phase 1 Task Order - (Lodging, meals, mileage, incidentals WBS 280.50) - \$250.00 per diem. 38 x 250 = \$9,500.00

Arch and tribal monitoring Phase 3 Task Order – (600 construction days, 300 requiring monitoring WBS 280.50)

300 days x 8 hours = 2400 hrs x \$200.00 = \$480,000.00

Other direct costs Phase 3 Task Order – (Lodging, meals, mileage, incidentals WBS 280.50) – \$250.00 per diem.  $300 \times $250 = $75,000$ 

Total: \$625,300.00

Phase 1 Task order: \$70,300.00 Phase 3 Task order: \$555,000.00 Attachment E
Right of Way
Project Cost
Estimate

### RIGHT OF WAY PROJECT COST ESTIMATE STATEWIDE (ALTERNATIVE 1)

TRACS NUMBER: F0080 - Alternative 1
HIGHWAY: TOPOCK - KINGMAN HWY
SECTION: TOPOCK T.I.

**FEDERAL NUMBER:** 

ESTIMATED TOTAL PARCELS:

ESTIMATED TOTAL ACRES:

See attached

R/W COORDINATOR:

Matt Tolman

DATE: 07/31/20

DATE:		07/31/20				
		Staff Charges	Outside Consultants			
STAFF / CONSULTANTS	RIGHT OF WAY COORDINATOR	\$40,000.00				
	RIGHT OF WAY APPRAISALS	\$15,000.00	\$42,000.00			
	RIGHT OF WAY TITLES	\$30,000.00				
	RIGHT OF WAY PLANS					
	(See bottom of Cost Estimating Form for Final R/W Monumentation					
	Estimate) Preliminary Engineering Only	\$15,000.00				
2	RIGHT OF WAY ACQUISTION / RELOCATION	\$44,000.00				
lt.	TRIBAL COORDINATION	\$0.00				
₹	R/W PROPERTY MANAGEMENT	\$0.00				
ဟ	OPERATIONS	\$10,000.00				
	Subtotal	\$154,000.00	\$42,000.00			
	Total	\$196,0	000.00			
STN	Estimated Property Acquisition Cost WITHOUT Government Agency Land Cost	\$46,000.00				
<u> </u>	Government Agency Land Cost					
Ē	Estimated Condemnation and Settlement Factor					
LAND AND IMPROVEMENTS COST	(Estimated Condemnation and Settlement factor are calculated at 50% of the Acquisition Cost Estimate for risk of Administrative Settlements and Condemnation Settlements. DO NOT INCLUDE GOVERNMENT AGENCY LAND.)	\$23,000.00				
N A C	Estimated Property Acquisition cost <u>NOT</u> subject to Condemnation					
Ž	Estimated Relocation Cost	\$0.00				
4	Land & Relocation Total	\$69,000.00				
	DNSULTANTS with LAND AND IMPROVEMENTS COST es not include ICAP. ICAP is added to Total Project Estimate by PM.)	\$265,000.00				
	O1C	Staff Charges	Outside Consultants			
	of Way Monumentation (Estimate may need to be revised at 60% e PM & C&S need to include this amount as a BELOW THE LINE in item.)					
	Total	\$0.00				
	11C	Staff Charges	Outside Consultants			
Demolition	(Including abandonment of Wells)	<u> </u>				
	Total	\$0.00				
TOTAL LA	AND IMPROVEMENT COST	\$69,0	00.00			
ESCALAT	ED STAFF/CONSULTANT TOTAL (20% ESCALATION RATE)	\$235,200.00				
GRAND T	OTAL	\$304,2	200.00			

# Attachment F Storm Water Data Report

	Dist-County-Route: 08-580-40							
	Post Mile Limits: R153.9/R154.6							
	Type of Work: Bridge Rehabilitation and/or Replacement							
	Project ID (EA): <u>0812000067 (EA 0R3800)</u>							
Caltrans*	Program Identification: 2022 SHOPP; 201.110/F	HA21						
	Phase: ☐ PID ☐ PA/ED ☐ PS&E							
Regional Water Quality Control	Board(s): Colorado River (Region 7)							
Total Disturbed Soil Area: 7.0 a	acres PCTA: <u>4.77 acres</u>							
Alternative Compliance (acres):	O acres ATA 2 (50% Rule)? Ye	es □ No ⊠						
	1/13/2026 Estimated Const.Completion Date							
Risk Level: RL 1 $oxtimes$								
Is MWELO applicable? Yes								
	tershed? Yes □ No ☒							
TMDL Compliance Units								
·		s □ No ⊠						
Trash Compliance Units								
·	, provide date): Yes ☐ Date:	No 🖂						
	l under the direction of the following Licensed Perso technical information contained herein and the dat							
recommendations, conclusions	s, and decisions are based. Professional Engineer of	-						
Architect stamp is required at I	PS&E only.							
Behzad Sedighi		4/27/2023						
Behzad Sedighi, Registered Pro	ject Engineer	Date						
I have reviewed the stormwate	r quality design issues and find this report to be con	nplete, current,						
and accurate:								
	Claheh Hadipour	04/27/2023						
	Elaheh Hadipour, Project Manager	Date						
	Michel Zonho	4/27/2023						
	Michael Lemke, Maintenance Representative	Date						
	At Maria	4/27/2023						
	Steven Magalfanes, Landscape Architect	Date						
	Representative							
[Stamp Required at PS&E only]	Gregory Clark	05/02/2022						
[Starrip Neguried at PS&E Offiy]	Greg Cark, District SW Coordinator	Date						

PPDG July 2017 1 of 11

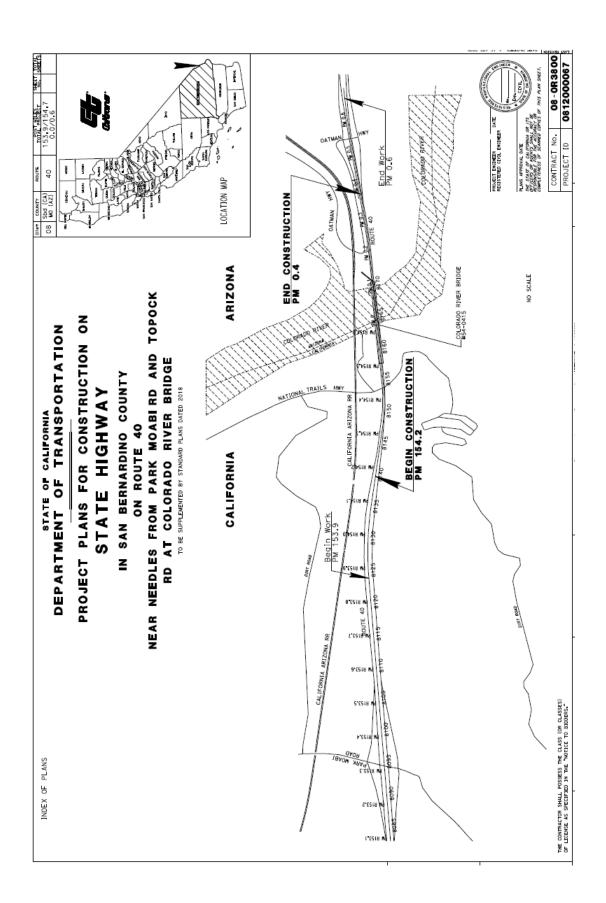
# Attachment G Initial Site Assessment

# INITIAL SITE ASSESSMENT (ISA) CHECKLIST - Update

DAT	E: <b>01/24/2</b> 0	023										
PROJ	JECT INFORI	MATION:										
Distri	ct <b>08</b> Cou	nty SI	<b>Bd</b> F	Route	40	Postmile	153.9/154.7 AZ/MO/0.00/0.60	EA <b>0R</b>	<b>380</b> P	N <b>0</b> 8	3120000	)67
Replace							the following four al				(D 1;	- 4- 41-
south); state. It vehicle will inc	Alternative 4: Un proposed conductraffic; standard	nder the No-B cting 13 rotary lane and shou ent, road wide	Build Alterna y core borin ulder widths ening, detou	ative. ESR R gs; repair de are propose irs, construc	ev. #2 add eck deterio ed, a stand t access r	ded geotechnic oration and stre dard median ba oads, disposal/	dge (Realign to the ral investigations and investigations and ingthen the girders to rier and a standard borrow sites, equips	d revised the increase the bridge railing	postmile lir load rating system will	nits of th to accom be imple	e project i modate all mented; th	in each I permit ne work
Project	t Engineer		F	Refaat El SI	nerif		Telephone:	(909) 383	3-6891			
Enviro	nmental Coordin	ator	J	lulie Scrivn	er		Telephone:	(909) 806	3969			
DATE	ISA NEEDED		2	2/03/2023								
	the project loc lous waste sites Project Featu Structure De Project Settir Current Lar	s. ures: New R molition/Mod ng: Rura	/W? YES lification? Y I - YES	Excava <b>′ES</b> Urban - <b>NO</b>	ation? <b>YE</b> Utility		v the location of p Involvement? YES YES	-	V and all k	nown a	nd/or pot	ential
	Adjacent La					mmercial, Re	sidential					
<ul><li>3.</li><li>4.</li><li>5.</li></ul>	hazardous w	vaste site is i dditional shed SITES LIST	d local envi in or near thets as need ED ON CC	ironmental ane project and ded to provide DRTESE LIS	and health rea. If a l de all info ST?	h regulatory ag known site is ic ormation availa IF YES, DE	iculture, residentia gency records as no dentified, show its I ble pertinent to the SCRIBE SITE:	ecessary to so ocation on the proposed pro	e attached	map ROJECT	- - (25/2022	
Sto	orage Structure	s/Pipelines	:		Contam	ination: (spills,	leaks, illegal dumpi	ng, etc.)	Hazardo (asbesto			
US	STs	NO			Surface	e Staining	NO		Buildings	3	NO	
Su	rface tanks	NO			Oil She	en	NO		Sprayed		TBD	
Su	mps <b>NO</b>	Por	nds <b>N</b> (	)	Odors		NO		Fireproo Pipe Wra		TBD	
	ums NO	Bas				tion damage	NO		Friable T	•	NO	
Tra	ansformers	NO			Other		N/A		Acoustic	al	NO	
	1611	NO							Plaster		NO	
	ndfill	NO N/A							Serpenti Paint		NO	NI/A
Oti	her	N/A							Pami	TBD	Other	N/A
Colorad Two BN This ISA 2023. So Add the SSP 6-1 SSP 7-1 SSP 14-	SF 'cleanup prod A Checklist updated oil may be re-used following Standard 1.03B: Condition 1.02K(6)(j)(iii): e-9.02: Asbestos	s the Colorac gram sites' w te includes t ed or dispose ard Special F s for use of I arth material NESHAP no	do River an vere identifithe updates ed as unreç Provisions to local material containing tification.	ied south of s in ESR #2 gulated mat to the PS&E ial from non g lead; requi	the project as well a cerial in acceptance commer res a lead	ect, in addition as the informa ccordance with e: cial source. d compliance p	California and Ariz to one Leaking Unition from the soil in conditions of the April olan (LCP) and itenstos compliance pl	derground Stonvestigation of ADL Agreeme	orage Tank conducted nt (2016a) _CP,	(LUST) for the p	site. roject in J	
		_			•	•	<b>SP 14-11.14</b> Treat	, ,		03 IOI A	Ю,	
•	•				•	•	er red paint) which			workers	during ro	moval
scraping to protec Title 8 C	g, cutting or torch	ning leaded p ne public fror 32.1.	paint compe m exposure	onents. The to leaded r	contract naterials.	or is responsit	ble for implementing for protecting work	g a monitorin	g program	and prot	tective me	easures
Does the lf there is	TERMINATION: te project have is known or pote estigation? NO	ntial hazardo	ous waste i	nvolvement	, is additi		MEDIUM RISK needed before tasl required:	k orders can b	oe prepare	d for the	Prelimina	ıry
ISA	CONDUC	TED BY				A 33U	DATE	E:0	1/24/20	023		
						AL ENGINEER WASTE (909)						

1 | 2

District **08** County **SBd** Route **40** Postmile **153.9/154.7** EA **0R380** PN **081200006** 



### Attachment H Environmental Document

## I-40 Colorado River Bridge Replacement Project

SAN BERNARDINO COUNTY, CALIFORNIA
MOHAVE COUNTY, ARIZONA
District 8-SBD-40 PM 153.9/154.7 (CA); PM 0.0/0.6 (AZ)
08-0R380, Project 0812000067, Federal Aid Number HAD-CA FHWA 2022\_0818\_001

#### Final Environmental Impact Report /

## Environmental Assessment and Final Section 4(f) Evaluation with Finding of No Significant Impact



Prepared by the State of California, Department of Transportation



December 2023

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#### **General Information About This Document**

The California Department of Transportation (Caltrans), in coordination with the Federal Highway Administration (FHWA), has prepared this Environmental Impact Report/Environmental Assessment (EIR/EA) with Finding of No Significant Impact for the project located on I-40 in San Bernardino County, California and in Mohave County, Arizona along postmile (PM) 153.9 and PM 154.7 in California and PM 0.0 and 0.6 in Arizona, between National Trails Highway and Oatman Highway. Caltrans is the lead agency under the California Environmental Quality Act (CEQA) and the Federal Highway Administration (FHWA) is the lead agency under the National Environmental Policy Act (NEPA). The document tells you why the project is being proposed, what alternatives have been considered for the project, how the existing environment could be affected by the project, the potential impacts of each of the alternatives, and the proposed avoidance, minimization, and/or mitigation measures. The Draft EIR/EA circulated to the public for 45 days between June 14, 2023 and July 28, 2023. An extension was granted on July 28, 2023 to allow the public to review and comment until August 11, 2023. A partial recirculated Draft EIR was circulated to the public for 45 days between August 18, 2023, and October 2, 2023 to provide additional information and clarification on the potential effects of the project on cultural and tribal resources. Comments received during this period are included in Chapter 4. Changes to the document made since the draft document circulation are shown with change bars in the left margin and track changes. Minor editorial changes and clarifications are not shown. Additional copies of this document and the related technical studies are available for review at the Caltrans District 8 Office (464 W 4th Street, San Bernardino, 92401) on weekdays from 8am to 4pm.

#### **Alternative Formats:**

For individuals with sensory disabilities, this document can be made available in Braille, in large print, on audiocassette, or on computer disk. To obtain a copy in one of these alternate formats, please call or write to Caltrans District 8, Attn: Gabrielle Duff, Branch Chief, Environmental Studies 'B' 464 West 4<sup>th</sup> Street, MS-829, San Bernardino, CA 92401-1400; 909-501-5142 (Voice), or use the California Relay Service 1 (800) 735-2929 (TTY to Voice), 1 (800) 735-2922 (Voice to TTY), 1 (800) 855-3000 (Spanish TTY to Voice and Voice to TTY), 1-800-854-7784 (Spanish and English Speech-to-Speech) or 711.

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SCH# 2020110050 CA: 08-Sbd-40-153.9/154.7 AZ: MO-40-00/0.60 08-0R380 0812000067

Replace the Colorado River Bridge (California Bridge No. 54-0415, Arizona Bridge No. 957) spanning the California/Arizona state line on Interstate 40, near Topock, Arizona.

#### FINAL ENVIRONMENTAL IMPACT REPORT/ENVIRONMENTAL ASSESSMENT and Final Section 4(f) Evaluation with Finding of No Significant Impact

Submitted Pursuant to: (State) Division 13, California Public Resources Code (Federal) 42 USC 4332(2)(C); 49 USC 303, and/or 23 USC 138

THE STATE OF CALIFORNIA
Department of Transportation
And
Federal Highway Administration

Cooperating Agencies:
Arizona Department of Transportation
US Army Corps of Engineers
US Coast Guard

Responsible Agencies: California State Lands Commission

Digitally signed by Flissa K

	Konove Date: 2024.02.13 15:01:49 -08'00'
Date	Elissa Konove, FHWA Acting Division Administrator (HDA-CA) Federal Highway Administration NEPA Lead Agency Approval for NEPA purposes only
2/20/2024	KARLA SNYDER PETTY Digitally signed by KARLA SNYDER PETTY Date: 2024.02.20 16.22:53-07007  Karla S. Petty FHWA
Date	Division Administrator (HDA-AZ) Federal Highway Administration NEPA Lead Agency Approval for NEPA purposes only
1/5/2024 Date	Catalino A. Pining III Caltrans District 8 Director California Department of Transportation CEQA Lead Agency

The following persons may be contacted for more information about this document:

Federal Highway Administration, California Division Shawn Oliver, Senior Environmental Specialist 650 Capitol Mall, Suite 4-100 Sacramento, CA 95814 (916) 498-5001

Federal Highway Administration, Arizona Division Greta Halle, Environment and Equity Specialist 4000 N. Central Ave., Ste. 1500 Phoenix, AZ 85012 (602)-382-8974

California Department of Transportation Gabrielle Duff, Senior Environmental Planner 464 West 4<sup>th</sup> Street, 8th Floor San Bernardino, CA 92401-1400 (909) 501-5142

#### FEDERAL HIGHWAY ADMINISTRATION FINDING OF NO SIGNIFICANT IMPACT (FONSI)

FOR

#### Colorado River Bridge Replacement Project

The Federal Highway Administration (FHWA) and The California Department of Transportation (Caltrans) have determined that Alternative 1 (replace bridge on existing alignment) will have no significant impact on the human and natural environment. This FONSI is based on the attached NEPA/CEQA document which was determined to be an Environmental Assessment (EA)/Environmental Impact Report (EIR) which has been evaluated by FHWA and determined to adequately and accurately discuss the need, environmental issues, and impacts of the proposed project and appropriate mitigation measures. The attached EA/EIR provides sufficient evidence and analysis for determining that an Environmental Impact Statement is not required per 23 CFR 771.119. FHWA takes full responsibility for the accuracy, scope, and content of the attached EA.

KARLA SNYDER PETTY	Digitally signed by KARLA SNYDER PETTY Date: 2024.02.20 16:24:41 -07'00'		
FHWA Division Admi	nistrator (HDA-AZ)	Date	
Elissa K. Konov	e Digitally signed by Elissa K. Konove Date: 2024.02.13 15:13:16 -08'00'		
FHWA Acting Divisio	n Administrator (HDA-CA)	Date	

## Attachment I Transportation Management Plan

_									
For DTN	1 use		Ca	Itrans Dis	trict 8 (Rivers	ide & San Berna	ardino)		
Developer	Saleh			T	MP Data Sheet	(Ver. Jul. 2021)			
Transportation	n <mark>M</mark> anageme	ent Plan (TMP)	Data She			S&E considering DT iated LRCs expires	M's requirements. The valid	dity of thi	s TMP expires
		The T	TMP Data S	heet includes	background & sig	nature, TMP element	s & TMP estimate		
			Requ	uester: Con	nplete section (A	) & (B) of this pag	e only		
	Requeste	er: Submit sepa	arate reque	st for each ro	adway (Type the i	nformation in the ce	lls below with yellow backgroun	d ONLY)	
					TMP receiver:	Please note that			
		Project sha	all not be c	ertified with	out the approval & the TMP by	•	irement Charts (LRCs)		
(A) Requeste	er's info.								
1 - Date of reques	st		7/:	19/2022		2 - Department			Design
3 - Full name				at El Sherif		4 - Phone No.	909 806	3205	
5 - email address				erif@.dot.ca.d	<u>vor</u>				
6 - Project Manag				raf Habbak	****				
<b>7 -</b> Project Manag	jer's email		asnrar.nap	bak@dot.ca.g	<u>JOV</u>				
(D) Duois et in		1				0020	. / 00 1300 0067		
(B) Project in	formation				<b>1-</b> EA#/ID#		0 / 08 1200 0067	<u> </u>	
2-County/Route 4-Post mile (From	Tol		Si	BD / 40	R15390 - :	3-phase/sub object	0/160		
5-Short descriptio		Penlacer	ment of Col	orado River F			Arizona Dept. of transportaion.	See sectio	n H helow
	action period pe		Therit or cor	orado River L	oriage by bist. on	ir coordination with P	anzona Dept. of transportation.	Jee Jectio	IT IT DEIOW
6-Estimated start	<u> </u>	05/01/25	8-# of work	king davs	600	1			
<b>7-</b> Estimated end			9-Estimated		\$ 74,300,000				
					om of the page, to a	dd any other information	on that helps developing the TMP		
11- Documents	to send			Reques	ter: Please attach t	the location map in jpe	eg/pdf format to your E-mail		
12- If hard copies	s are requested	l, Send or bring t	hem to the D	TM office locat	ted on the south side	e of 11th. Floor, Attn: A	Al Afaneh.	Questions	: call 383-6262
				<b>13-</b> E-ma	il the request to: al_	_afaneh@dot.ca.gov			
Following i	s for DTM (	use >>>>>	·>>>>	Developer: Fi	ll info in green cells	only		_	
C) BACKGROUN	D INFORMATI	ON		Date re	quest received	07/19/22	Job assigned to	Sale	h Yadegari
# of working days	;	600						ļ.	
Estimated Project	cost (\$)	74,300,000	Per E-mail o	dated	07/19/22				
TMP estimate(\$)		\$644,000	Equal to	0.87%	Of the project cost				
	T	1		_	D (D :- (	'			
D) IMPACT	High	Medium	Low	N/A	Developer: (Brief	ly, explain the high i	mpact/mitigation):		
State Hwy. Local road		X		· ·					
Ramp/connector				X	1				
μ, σου σου									
E) Developer: Co	omplete the in	nfo							
Developed by		Saleh Yadegari		Origin	al signed by:	S	aleh Yadegari	Date	7/19/2022
Title	Trans	sportation Engir	neer		,		3		, -, -
E-mail	saleh.	yadegari@dot.ca	a.gov						
Phone/Fax		909 806 3905							
	•								
F) Approved by				Origin	al signed by:		Al Afaneh	Date	07/19/22
Name:	Al Afaneh	-							
Title	District Traf			4					
E-mail	al.afaneh@d			1					
Phone/Fax	909-383-626	52							
C) District 11-1		1				1			
G) District's i			7						
Department of T	ransportation	1							
District:	8			00.404.440	•				
Address:		th St., San Berr	nardino, Ca.	., 92401-140	U	-			
Operations, DTM,	MS >>>	711							
	Tan					•	k turn left. MS: 711		
H) Remarks	Alternative #	🟿: The bridge h	nas 2 lanes	ın each direc	tion. Divert the tra	iffic of one direction	to the other side. Traffic on eac	n direction	n using one
_	lane Demeli	ch and half of H	ha bridas -	nd robuild. Ti	on move the treff	ic to the other direct	ion and do the came		
	lane. Demoli	sh one half of tl	he bridge a	nd rebuild. Th	nen move the traff	ic to the other direct	ion and do the same.		
	lane. Demoli	sh one half of tl	he bridge a	nd rebuild. Tl	nen move the traff	ic to the other direct	ion and do the same.		

	TMP Elements	EA #/ID#	0R380 / 08	1200 0067	Date	7/19	9/2022
	Note: A checkmark in the box means yo	ou need to inc	lude this in the p	roject unless sta	aging, material, or w	ork hour	changes
	eliminate the need for the item. A ? in		=	=			_
	item is not needed at this time based or		•	Picase circ	and in it blank	20% IIICUI	.5
	Public Affairs officer's 1st. & last name			one number			
	Public Alfairs officer's 1st. & last flame		PII	one number			
	Public Information/Public Awarene						
1	Developer: Remember to obtain the esti contacting Terri Kasinga. Procedure is in t					Estima	ated Cost
	contacting rem natingar recedure to in e	The time direct 5	Trii matters				
	BEES 066063 (Traffic Management Plan-Publ					\$	20,000
	reduced by Public Affairs (PA) and Constructi under <b>State Furnished</b> as the <b>total</b> of PA+0		only. Show				
	under State Furnished as the total of FATC						
1.1	Traduda Didashara information in DA/Cl. no	odaak waakawial k					
1.1	Include Rideshare information in PA/CL pr vehicles reduction in work area	oject materiai t	o encourage				
1.2	☑ Brochures and Mailers						
1.3	Media Releases (& minority media sources	5)					
1.4	Paid Advertising						
1.5	Public Meetings/PAC Mtgs./Speakers Bure	au (show cost a	also for room				
	rental)						
1.6	Hand deliver notices to vicinity						
1.7 1.8	☐ Broadcast fax service☐ Telephone Hotline OR						
1.9	1-800-COMMUTE (The telephone number	is shown on CS	-Info signs) -				
			, ,				
1.10	Visual Information (videos, slide shows, e	tc.)	•				
1.11	Local cable TV and News						
1.12	Traveler Information System (Internet)						
1.13	Internet, E-mail, Social Media						
1.14	Notification to targeted groups:  Revised Transit Schedules/maps						
	Rideshare organizations						
	schools						
	organizations representing people with	disabilities					
	bicycle organizations						
1.15	Include PA/CL/Consultant resources in WF						
1.16	Commercial traffic reporters/feeds - e.g. b	orief Traffic Info	rmation people				
1.17	(TIP) group  Insert SSP's						
1.17							
	"A representative of the Contractor, at Su and authorized to commit the Contractor,						
	all Public Awareness Campaign meetings.						
	meeting(s) varies from two to four hours						
1.18	Other						
1.10					Section 1 Total	\$	20,000
					3000.0 2		
2	Motorist Information Strategies						
	Project team needs to coordinate wi						
2.1	Lack Existing Overhead Changeable Message S	igns (Stationary	/)				
	N 7 1 11 11 12 15 15 15 15 15 15 15 15 15 15 15 15 15		E MESSAGE				
	New Installation (Stationary) - BEES 8605	32 CHANGEABI	LE MESSAGE				
2.2	Portable Changeable Message Signs (PCM	IS) - BEES 066!	578				
	This strategy is in addition to Traffic Designation	ın's PCMS for re	agular traffic handlir	na within the proj	act limits and is used	7	
	for advising motorists to divert at <u>remote</u>					3	
	for advanced motorist information - e.g. a	week ahead.	Their placement ma	y need to be clea	red <b>environmentally</b>		
	Placement should be of sufficient distance	prior to decision	n points as determi	ined by the Reside	ent Engineer.		
						<del>-</del>	
	# of PCMS 4	nit cost/month	\$ 1,000.00	Months needed	36	\$	144,000
2.3	Lane Closure System Website	LITNI					
2.4	Caltrans Highway Information Network (C Radar Speed Message Sign (Specter sign)		annrov EA @ #20	000)			
2.5 2.6	Bicycle and pedestrian information, e.g. D		(appiox. EA @ \$30,	000)			
2.0	Automated Workzone Information System		120105				
2.7	- consult with TMP Developer prior to upd	• •					
	- refer to Section 12-3.35, page 156 to 15	_					

		TMP E	Elem	ents	EA #/ID#	0R380 /	08 1200 0	0067	Date		7/19/2022
2.8	∐ Ot	ther						Ī	Section 2 Total	¢	144,000
								[	Section 2 Total	\$	144,000
3	_	dent Manage								ľ	
3.1				Maintenance Zone Agency furnished" i			ı – COZEEI	or MAZEE	P. BEES 066062 -		
	<u> </u>	Make sure to	consi	der the LC hours a	nd add CHP driv	ring time to/from	their offic	е		1	
		Day COZEEP:	To p	otect active closur	es.						
			ТОР	hours/day	CHP vehicles	# of officers.	Rat	e/Hr.			
		600		8	1	1	\$	100		\$	480,000
		Night COZEEI	P: To	protect active closu	ıres						
		# of nights		hours/night	CHP vehicles	# of officers. Nights need 2	Rat	e/Hr.			
			ı		_	per car	_	•	ı		
		0		0	0	2	\$	100		\$	-
3.2				rol (FSP) for Cor				/truck	\$55		
				inder "State or Age				f enhancem	nent of program FSP		
				e into the lower lor			ly races. I	r ermancen	ient of program (3)		
				,, c		" C.I					
	A Fo	or service wit	hin th	# of trucks ne regular FSP ho	ours	# of days	Hours	per day			
				3	]						\$0
	Fo	or service <b>o</b> ut	side	the regular FSP h	nours						
		tended Peak h			-						
											\$0
	C Su	upport during n	ight c	losures							
											\$0
	D w	eekend suppor	t								
					]						\$0
	Lo	cal agency (SA	ιFF) ς	upport	8%						\$0
		8% of truck of		арроге	070						40
	C	SP CHP suppor	r <del>t</del>		5%						\$0
	Ci			nly if <mark>within</mark> regular							φU
	_										
	Ec	uipment/Supp % of truck co		ess more detail av	10% ailable						<b>\$</b> 0
				•					outhern Riverside		
		rs or area.	tne	method which	іѕ ассеріавіє	e for the b,C,i	D that a	e outside	e the regular FSP		
Me	ethod				200/						+0
	Cr	SP/CHP suppo 20% of truck		or	20%						\$0
	CF	FSP Dispatcher # of days	@	# of nights	hours	# of FSP	R	ate	# of FSP vehicles		
		# Of days		# Of Hights	0	# 01131	\$	45.00	" of 1 of	\$	_
					0						
	CF	SP CHP Officer	s (Se	e Cozeep rate)							
		# of days	`	# of nights	hours	# of officers		ate	# of CHP vehicles	Ŧ	
		0		0	0	2	\$	45.00 0	0	\$ \$	-
				Ü		2		O .	U	Ψ	
			Agreei	ment or Task Orde	r with SAFE	\$0					
		for Task Order w	ith CH	IP (State-wide Mas	ster Agreement	•					
		for	_			\$0					
		Contact Distri Service Contr		Coordinator for to	ask orders.						
		Local Agency	will a	rrange CFSP with S							
		Local Agency	will a	rrange CFSP admir	nistration with C	CHP					

2

	TMP Elements	EA #/ID#	OR380 / 08 1200 0067	Date	7/19	9/2022
	3.2 Total	\$0				
3.3	Other					
				Section 3 Total	\$	480,000
					,	,
4	Construction Strategies					
	Contact DTM, at 909-383-6262, to get Delay					
	list. Inform DTM of any concerns/commitme					
	restrictions; if work may be affected by snow					
	operations lane openings which may increas			; etc. If traffic volumes		
	vary significantly between seasons, consider	2 sets of LRCs	to avoid CCOs.			
	<u> </u>				İ	
4.4	This TMP presumes that work is planned as I	oelow. If differe	nt, TMP needs to be revised. The Pr	oject Engineer shall		
4.1	ensure all appropriate lane requirement char	ts are included.				
	Off peak				Į.	
	Night					
	☐ Weekend					
4.2	<del>_</del>					
4.2	Expected facility closures and requirements					
	☐ Flagging					
	Shoulder					
	∠ Lane					
	Street					
	Ramp					
	☐ Connector*		*Consult with TMP developer and th	e DTM regarding		
	Extended Weekend Closures*		COZEEP & other costs. Provide prop			
	☐ Total Facility Closures*		diversion plans for review.			
	rotal racinty closures				i	
					Ī	
	CAUTION: If the Lane Requirement Chart (LI	RC) for full main	line closures, of one or both directio	ns on a highway or		
	freeway, does not show the maximum numb	er of allowable	closures, the PS&E shall not be certif	ied by DTM/TMP.		
4.2	Coordinate with adiabant angular and als		an musicate also an determ veritor		ļ	
4.3	Coordinate with adjacent ongoing and pla	innea constructi	on projects - also on detour routes.			
4.4	BEES 066008 Incentives					
4.5	Strictly enforce construction CPM schedul	e				
4.6	10-Min. Delay Contact DTM at 90	9-838-6262 for	10 Min. Delay Penalty Calculations.			
	Penalty					
4.7	Other					
				Section 4 Total	\$	_
	_					
5	Demand Management (DM)					
	Project team needs to coordinate with RCTC,	SANBAG/CVAG				
	Traffic diversion may increase available work	k hours.				
5.1	A co-op will be executed - mentioned in F					
3.1	☐ Instead of a co-op, 15% is added to the co		ants since the navment to the local a	gangy will be routed	ĺ	
	through the contractor.	ost of DM eleffic	ents since the payment to the local a	gency will be routed	l	
		and the state of the state of	I DOTO CANDAGO		1	
	Instead of a co-op, the local agency will r	nake their own i		\	Į	
	DA (C)				[	
2	PA/CL or local agency need to inform com					
5.2	☐ HOV Lanes/Ramps (New or Convert)					
5.2 5.3	HOV Lanes/Ramps (New or Convert) Park-and-Ride Lots	nmuters through	n RCTC/SANBAG. Funds part of PA/C			
	☐ HOV Lanes/Ramps (New or Convert)	nmuters through	n RCTC/SANBAG. Funds part of PA/C		l	
5.3	HOV Lanes/Ramps (New or Convert) Park-and-Ride Lots	nmuters through	n RCTC/SANBAG. Funds part of PA/C		l	
5.3 5.4	<ul><li>☐ HOV Lanes/Ramps (New or Convert)</li><li>☐ Park-and-Ride Lots</li><li>☐ Parking Management/Pricing (Coordination</li></ul>	nmuters through	n RCTC/SANBAG. Funds part of PA/C		l	
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TMP Estimate										
Developed by	Saleh Yadegari	EA#/ID#	OR380 / 08 1200 0067	Date	7/19/2022					
TMP develo	oper: Amounts under the cos	st column will autor	natically be copied from t	he TMP	elements					
TMP Elements				[	Cost					
1. Public Information					\$20,000					
2. Motorist Information	on Strategies				\$144,000					
3. Incident Managem	nent				\$480,000					
4. Construction Strat	regies				\$0					
5. Demand Managem	nent (DM)				\$0					
6. Alternate Route St	crategies				\$0					
Total TMP Estimate				[	\$ 644,000					

## Attachment J Project Category Assignment

#### Memorandum

To: MAHMUDA AKHTER

ACTING DEPUTY DISTRICT DIRECTOR

**DESIGN** 

Date: April 11, 2023

File: 08-SBd-40

PM R153.9/R154.6

MO 0/0.6

At Colorado River

Bridge

Bridge rehabilitation &/or replacement

EA 0R380

PN:0812000067 201.110 HA21

From: BEN AMIRI
Office Chief

Design I

#### **Subject: REQUEST FOR PROJECT DEVELOPMENT CATEGORY APPROVAL**

In accordance with Chapter 8, Section 5 of the Project Development Procedures Manual, your approval is requested to assign the above-mentioned project to Category 4B.

Design I is preparing the Project Report (PR) for the above-referenced project. Caltrans District 8 in Coordination with Arizona Department of Transportation (ADOT) are proposing to replace the Colorado River Bridge (California Br. No. 54-0415, Arizona Bridge no.957) on I-40 to improve the bridge integrity and accommodate all permit vehicle traffic.

Currently there are three viable alternatives under consideration:

- Replace bridge on existing alignment (Alt. 1)
- Replace bridge by realigning to North (Alt. 2)
- Replace bridge by realigning to South (Alt. 3)

The Category 4B is recommended based on the following project considerations:

- 1. The project will not require additional right of way.
- 2. The project will not increase highway traffic capacity.
- 3. The project is of minimal economic, social, and environmental significance.

MAHMUDA AKHTER April 11, 2023 Page 2 of 2

If you have any questions or need additional information, please contact Project Engineer, Joshua Medina at (909) 501-9183, or me at (909) 501-9388.

Date:

Approved:

Mahruda Alihler 04/11/2023

Mahmuda Akhter Acting Deputy District Director Design

c: CQuach, Design Manager EHadipour, Project Manager

JMedina/CM

# Attachment K Project Study Report – Project Development Support (PSR-PDS)

CA:08-Sbd-40- 153.90/154.64 AZ:MO-40-00/0.60 Project No. 0812000067 EA 0R380K October/2016

## PROJECT STUDY REPORT-PROJECT DEVELOPMENT SUPPORT (PSR-PDS)

To

#### Request Approval to Proceed with Formal Studies for Long Lead 2016 SHOPP Project

On Interstate 40

Between Park Moabi Road

And Topock Road

APPROVAL RECOMMENDED Mohn & Mollazadeh, PROJECT MANAGER

APPROVED:

JOHN BULINSKI, DISTRICT DIRECTOR

DATE

## Attachment L Risk Register



EA	OR38	0.	hase:				040 PM: R 153.9/ R 154.6 040 PM: 0.0/ 0.6	PM: Elaheh Hadipour	Const Capital Estimate:		1,729K E	Project Des BRIDGE REH REPLACEME	ABILITATI	: ION AND/OR	ł	Project Location: IN SBD CO NR NEEDLES BETWEEN PA MOABI RD AND TOPOCK RD AT COLO	
201.1	10, 400.	.100 /		arget:				ARM: Julia Eigenbrod	R/W Capital Estimate:	1 . 1	68,000K	Impact		chedule	gy	RIVER BRIDGE (BR #54-0415)	
Risk No.	Status	Date of Origi		Updated	0	Title	Risk Statement		ns/Comments/Triggers	Probability	Ph Impact	Ph Imp		Impact Impact	Response Strategy	Response Actions	Risk
		5/8/2	2019	8		J.S. Coast Guard JSCG) Permits	As a result of a permit required from the US Coast Guard, the review process and approval may take longer than anticipated and delivery schedule may not allow time to process this permit. This may delay the project schedule and may increase the	As a result of location and nature of wo permits, which will need to be in place. These permits include Coast guard per -1 prior to RTL. The process may take application.	prior to advertising the project. mits, which is only required in phase		) Very Low	,	0	Low		Early in phase 1 Design will submit the necessary plans to US Coast Guard so that there is sufficient time to process this permit. PM, Design, Structure and Environmental will coordinate, as early as possible and will work	
1	Active	<u> </u>		10/19/2023 Design			cost.			Very Low	1		1		Mitigate	with US Coast Guard on getting the permits in time. PM may adjust the schedule if needed.	Amiri
	¥   ‡	Rafa sh		10/19 De						Ver	2	9	2		M		Ben
											3	4	3	Very Low			
		5/0.4/	2040		U	Itilities Conflict	As a result of not knowing the exact structure detail of the preferred alternative, utility conflict may occur which will impact the project cost and schedule.	It has been identified that are transmiss communication and power poles within it is unknown if such utilities will be imp	the footprint of the project. Currently		0		0			UEW and ADOT will evaluate the footprint of the proposed bridge early in the PS&E phase to avoid any major impact on existing utilities	
	e t	ชี   5/24/	2019	.023				bridge.			Low		1	Low	ate	such as power poles, gas lines, data and communication cables etc. Potholing will be done early during design phase to avoid any	buna
6	Active			10/19/2023 Utilities						Low	Low 2	9 Lo	N 2	Low	Mitigate	utility impacts to help Structural Design with the final plans. If any utility impact is identified, UEW will work closely with R/W Utilities early in	lax Auy
		Auye	eung								3	Lo 4	w 3	Low		PSE phase and will coordinate with utility owners as well. Any utility relocation will be planned prior to contract approval. PM may have to adjust project cost and schedule based on future findings.	2
		0/40/	2000		Н	listoric Properties	The project is located in the vicinity of several large well-known Historic Properties. If during design the project footprint is found to encroach on the	The environmental footprint was identifical alternatives. Due to ongoing technical experience with these types of projects	studies and based on past , additional work and change in		0		0			In case of change to identified footprint, Environmental will work with design to avoid impacts to the historical properties. If impacts	
23	ive	6/12/ B	2020	2023 mental			boundaries of these sites then additional testing, consultation, and mitigation will be required.  Thereby, the project cost may increase, and schedule may be delayed.	scope in previously unidentified area m	ay need to be done.	Low	Low		1	Very Low	piq	can not be avoided and this risk materializes, coordination with regulatory agencies may be needed. PM may adjust cost and schedule as necessary.	Holm
23	Active	Ste		10/12/202 Environmen						ery	Very Low	y 9 Very	Low 2	Very Low	Avoid		Steven
				Ш							Low	Lo	м 3	Very Low			
		6/12/	2020		E <sub>1</sub>	Inforeseen invironmental costs and Delays	Due to the multiple interstate agency coordination and the number of government agency jurisdictions requiring various permit and approval processes, if there is disagreement between agencies on	Agency Coordination includes: USFWS MSCP, USBR, SLC, BLM, FHWA, EPA CASHPO, ASM, ACHP, (other state an	A, USACE, RWQCB, AZSHPO,		0		0			Environmental will coordinate with Design early in the design phase and continue to coordinate with resource agencies. Design may provide layouts in lieu of 95% PS&E to show impacts to	
26	Active			10/19/2023 Environmental	M A	s a Result of Iultiple Resource gencies	protocols and findings, unforeseen mitigation, additional surveys/monitoring, and/or restrictive measures to satisfy environmental approvals may	the project progresses).  Approvals: USFWS BO, MSCP, Section 404, 1602 & 2081) are required for this USFWS Havasu Wildlife Refuge and go	project prior to construction.	Moderate	1 Low		1	Low	Mitigate	jurisdictional areas to expedite some of the permits processes. PM will coordinate this effort.	Duff
	Aci	- Ju Scri		10/19 Environ			be needed. This may increase project cost and delay the schedule.	may also be needed.		Mode	2	9 Mode	rate 2		Miti		Gabrielle
											3 Low	4 Lo	3	Low			

1



EA Progra		380			SBD MO	040 PM: R 153.9/ R 154.6 040 PM: 0.0/ 0.6	PM: Elaheh Hadipour	Const Capital Estimate:		,729K <sub>E</sub>	Project Desc BRIDGE REHA REPLACEMEN	BILITATION AND/	OR	Project Location: IN SBD CO NR NEEDLES BETWEEN PARTICLE TO AT COLO	
201.1			M200	Target: 1	12/15/2		ARM: Julia Eigenbrod	R/W Capital Estimate:	T . T	,000K				RIVER BRIDGE (BR #54-0415)	
Risk No.	Status	Туре	Date of Origin Originator	Updated	Title	Risk Statement		ancy/Current ons/Comments/Triggers	Probability	Cost	Impact Ph Impa	Schedule Impact	Response Strategy	Response Actions	Risk Owner
			6/12/2020		Nesting Birds	There may be birds nesting under the bridge or in the trees and shrubs within the project area. If nesting birds are present during construction, this may delay the schedule and increase the cost.	Potential nesting bird habitat exists on vegetation that may be removed prior surveys conducted by Caltrans consulmarsh bird surveys have identified sev	to construction. Special status bird ltants, PGE Reports, and USFWS	0			0		Bio will provide DOE SSPs (SSP 14-6.03A, 14 -6.03B, 14-6.03D(1), 14-6.03D(3)). Contractor-supplied Biologist (CSB) will perform preconstruction nesting surveys. Monitoring and/or	
29	Active	Threat		9/12/2023 Environmental		,,	migratory birds.	g	High			1	Mitigate	work buffers may be established if a positive active nest is identified. Work may continue in other locations. It is recommended to perform	Wentworth
	Ac	Th	Alisha Curtis	9/12/ Enviror					豆 2		9	2	Miti	tree and or vegetation removal outside the nesting season, in which the nesting season is regarded as Feb 1 to Sept 30. It may be possible to exclude birds from the bridge prior to	Craig
									3	Low	4 Low	3 Low		nesting season to avoid work windows restrictions. PM may adjust the cost and schedule if needed.	
			6/12/2020		Roosting Bats	If Bat Management and Mitigation Plan (BMMP) measures cannot be implemented prior to construction or prior to specified construction	Bat surveys conducted during PA&ED Wash culvert and I-40 CO River Bridge however, we will need to be refined in	e. A draft BMMP was developed; the design phase to coincide with the	0		·	0		Biology will work closely with Design, Resource Agencies, and a qualified bat biologist to identify and determine feasible measures such as work	у
20	se.	eat	6/12/2020	2023 mental		activities, then the construction schedule may be delayed.	appropriate construction schedule inclined roosting habitat structures. A BMMP w					1	late	windows, exclusion, lighting, etc. PM may need to adjust the cost and schedule if needed.	Wentworth
30	Active	Threat	Alisha Curtis	10/19/2023 Environmental					Moderate 5		9 Low	2	Mitigate		Craig We
									3	Low	4 Low	3 Low			
			0/00/0000		Child Projects Resources	As a result of anticipating a long-term onsite plant establishment period per the CDFW 1600 permit, and offsite restoration work per the CDFW 2081	Per correspondence and previous exponsite plant establishment is anticipate CDFW 1600 permit. Additionally, the Market National Programme Programm	ed to address impacts triggering the Master Funding Agreement between	0			0		D8 Biology is working with D8 Landscape and the Project Manager to create the Child Projects based on current assumptions and estimated	3
0.4	, ve	eat	8/29/2022	2023 mental		permit, a Child Project is needed to address these costs. Because the design is anticipated in Phase 1, permits are not yet acquired, and anticipated costs and support may exceed the current estimate.	Caltrans and CDFW requires that a Ch Caltrans Project requiring a 2081 perm is set aside in an account separate fro Caltrans Biology is planning to pursue	nit, which assures mitigation funding m the main transportation Project.	1	Low		1 Low	ate	costs. D8 Biology has begun and will continue early coordination with CDFW. The cost of these mitigation is currently escalated to capture the future cost increase.	Compton
34	Active	Threat	Elmer Llamas	10/19/202 Environmer		There is a risk that there may not be enough funds allocated and programmed into the Child Project to cover all costs. This may impact project schedule	exemption is achieved regarding fully properties on time permit to Caltrans, this preventing constants	protected species for this project. If a e, CDFW will not provide a 2081 struction from occurring, affecting	%2		9 Low	2	Mitigate	captare the ratale cost mercaes.	Adam Cc
						and cost.	schedule. If the Child project is not add unable to meet all CDFW 1600 and/or		3		4 Low	3 Low			
					New Biological Resources due to PG&E Habitat	Since Pacific gas and Electric company (PG&E) habitat restoration is anticipated to be completed by the time this Project begins construction, habitat	Based on email coordination 9/27/23, by Oct 2026. "The entire mitigation pla planted last year with the required amount of the planted last year with the required amount of the planted last year with the required amount of the planted last year with the required amount of the planted last year with the required amount of the planted last year with the required amount of the planted last year.	anting (restoration area) site was	0			0		Biology is in close coordination with resource agencies as well as PG&E to identify as early as possible if any additional reevaluation may	
	\ e	at	9/22/2022	2023 nental	Restoration.	restoration may improve habitat suitability for some listed species under The Federal Endangered Species Act (FESA) and the California Endangered Species Act (CESA) that was previously analyzed	will continue once every 3 weeks throu reduced if we continue to have succes mitigation plantings/ restoration is 75% year monitoring period. The final plants	ugh October 2026. That might be ss. The success criteria for the 6 success rate at the end of the 5-	1	Low		1 Low	ate	be needed. PM may need to adjust the cost and schedule as necessary.	Wentworth
35	Active	Threat	Alisha Curtis	10/19/2023 Environmental		as not suitable. Based on habitat suitability and/or positive detections, this may require a reevaluation, additional technical studies, USFWS section 7	do not anticipate having to replant as v		%2		9 Low	2	Mitigate		Craig Wer
						Consultation, CDFW 2081 permit, and/or associated avoidance, minimization, and mitigation measures.  This may impact project cost and schedule.			3	Low	4 Low	Moderat	e		



Progra	<b>0R380</b> am Code:	M200	: <b>0</b> Target: 1	МО	040 PM: R 153.9/ R 154.6 040 PM: 0.0/ 0.6	PM: Elaheh Hadipour ARM: Julia Eigenbrod	Const Capital Estimate:  R/W Capital Estimate:	\$41,729K Project Desc BRIDGE REHAI REPLACEMEN	BILITATION AND/OR	Project Location: IN SBD CO NR NEEDLES BETWEEN PA MOABI RD AND TOPOCK RD AT COLO RIVER BRIDGE (BR #54-0415)	
Risk No.	Status	Date of Origin	_   >	Title	Risk Statement	Releva	ancy/Current ons/Comments/Triggers	Cost Impact Ph Impact Ph Impact	Schedule Impact Ph Impact	Response Actions	Risk
36	Active	9/28/2022 ADOT	10/19/2023 Utilities	ADOT Utilities	This risk is the same as Risk # 6 above but applies to ADOT.	This risk is the same as Risk # 6 above	e but applies to ADOT.	0 Low 2 Low 9 Low 3 4	0 Low 2 Low 3	This risk is the same as Risk # 6 above but applies to ADOT.	ADOT
37	Active	9/28/2022 Elaheh Hadipour	10/19/2023 Project Mgmt	Delays in Cooperative Agreement	The Cooperative Agreement between CT and ADOT for PSE phase has not yet been finalized. If there is delay in execution of the COOP between CT and ADOT for the PS&E and RW phase, the project schedule might be impacted	Since the COOP is between two state identifies each sates roles and finical take longer than usual. The COOP has and legal in both ADOT and CT. Legal with COOP terms and changes. The legon their availability	responsibilities, the review process s been reviewed by Design, RW in both AZ and CA need to concur	0 1 Low 2 Low 9 3 4	0 Low pioAY	The COOP has been reviewed by Design, RW and legal in both ADOT and CT. Legal in both AZ and CA need to concur with COOP terms and changes. The continues coordination's between all these reviewers are needed to COOP execution. PM will elevate to higher management if the review takes longer than expected.	Elaheh Hadipour
39	Active	2/1/2023 Elmer Llamas	10/19/2023 Environmental	Permits for Geotech Borings	If we don't receive jurisdictional permits required for three geotechnical work locations within jurisdictional waters in time to complete geotechnical borings in fall/winter 2024/2025 (October 1 to January 31), then due to the fully protected species/restricted work windows (February 01 to September 30), we will not be able to proceed with geotechnical boring until fall/winter 2025/2026. This may delay the schedule and impact cost.	The project will require 1602, 401, and project has confirmed detections of fed fully protected species. Legislation to allow "take" under CDFW 2081 has pastarted after FED and PR approved.	derally-listed, state-listed, and state exempt fully protected species and	0 Moderate 2 9 Low 3 4	0 Moderate 2 Moderate 3	The PDT and Environmental will continue to coordinate closely to ensure that information is received quickly and efficiently. Bio Permitting will coordinate early with agency partners and prioritize these permits. Bio will prioritize locations with no permits or restrictions. Regulatory Agencies may decide to take the whole 120 days to process the permits. Structures needs preliminary geotechnical report at least 15 months prior to July 2nd 2025. PM may need to adjust the schedule if needed.	Adam Compton
40	Active	5/8/2023 James Majors	10/19/2023 Geotechnical	Consultant Availability	Geotech will be outsourcing the work to consultant. If there is any change to the boring schedule agreed on the TO then it is not certain that consultant will have time to do the job and prepare the reports. This may result in schedule delay.	If drilling/boring done by end of Feb-20 -2024 Str PSE M378 target 7/2/25	024, PFR could be ready by June	0 Moderate 9 9 3 4	0 Moderate 1 Pook 2 Low 3	Geotech will work on task order to make sure it is ready as soon as they have permits for borings. They will communicate and work with consultant to make sure they can start work after receiving the task order. PM needs to coordinate any changes to the boring schedule early with geotech.	James Majors



EA		<b>R380</b> Code:				SBD MO	040 PM: R 153.9/ R 154.6 040 PM: 0.0/ 0.6	PM: Elaheh Hadipour	Const Capital Estimate:		729K BR	RIĎGE I	Descript REHABILI EMENT	tion: TATION AND/OI	₹	Project Location: IN SBD CO NR NEEDLES BETWEEN PARTICLE AND TOPOCK RD AT COLO	
_		400.10	M200	Target: 1	2/15/2			ARM: Julia Eigenbrod	R/W Capital Estimate:		000K					RIVER BRIDGE (BR #54-0415)	
Risk No.	Status	Type	Date of Origin Originator	Updated Category	Title		Risk Statement		ncy/Current ns/Comments/Triggers	Probability 4	Cost I			Schedule Impact Ph Impact	Response Strategy	Response Actions	Risk Owner
			5/22/2023		Bridge Found Design	dation	The foundation design is based on Structure preliminary geotechnical report (SPGR).  Any discrepancy/change in geotechnical information may cause to redesign the foundation. This may	Currently, SPGR is available. All geote historical records. Final geotechnical re 2024.		0				0		Structure Design will request geotechnical report, and will provide confirmation of foundation Type/system. Cost estimate will be revised based on the selected foundation type.	
41	Active	Threat		10/19/2023 Str Design			result in cost increase and schedule delay.			Moderate 2	Low			1 Low	Mitigate	PM may need to adjust the cost and schedule as necessary.	Fang
71	Act	, T	Jason Fang	10/19, Str D						poW 2		9		2	Mitię		Jason
										3		4	Low	3 Low	-		
					Long Span E Type	Bridge	In order to minimize the environmental impact, Long span bridge type is preferred, which poses the significant challenges for structure design. Also, for	The bridge design should use as few in The width of the piers, perpendicular to in excess of what is necessary for safe	the direction of flow, should not be	0				0		Structure will optimize the design to lower the cost, more sophisticated and detail analysis will be pursued at early stages of the structure	
	   	at	5/22/2023	19/2023 Design			a long span bridge, structure depth may reach 26' at pier, which will reduce vertical navigation clearance in vicinity of pier. The complex structure may result	The shape of the bridge pier and the all to be investigated as well.	ngle of its placement in the flow need	1				1	ate	design. Specialized software's may be required to use, such as CSiBridge and Midas civil, they allow for quick and easy design and retrofitting	Fang
42	Active	Threat	Jason Fang	10/19/2023 Str Design			in a higher cost.	Minimum vertical/horizontal navigation Design and bridge design will take what depth (if the measures taken don't affer meeting the clearance requirement.	atever measures to reduce structure	%2		9		2	Mitigate	of steel and concrete bridges.  DES will notify the PM early of any cost increase. PM may have to adjust cost during Fund Allocation Request.	Jason F
			ŭ							3		4	High	3 Low			
					Traffic handl	ing	As a result of bridge replacement, traffic handling/detours will be required. The following items may be required: Community Impact Analysis;	More study and traffic analysis of the tr COZEEP will need to be present and ir will need to be available during high co	n addition, Freeway Service Patrol	0				0		District traffic design will propose a detail traffic handling plan. Traffic handling/detour Plans will be developed and TMP costs (i.e. Public	
40	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	eat	5/22/2023	/2023 Design			Public Awareness Campaign; Utilities, Public Services, or Emergency Services Assessments. If the cost associated with these activities exceed the amount in the current estimate, then this may	vehicles. During PS&E, detail traffic ha staging will be prepared. Based on this COZEEP involvement is needed and a needed etc.	information, we will know how much	1				1	ate	Information, Community Outreach, etc.) will be included in the Project cost estimate. PM may need to adjust cost and schedule accordingly.	Alejandre
43	Active	Threat	Oscar Alejandre	10/19/202 Traffic Desi			increase the project capital cost and delay the construction schedule.			% Z		9		2	Mitigate		Oscar Ale
										3		4	Low	3 Very Low			
			5/00/0000		Soil Liquefac	tion	Due to Potential soil liquefaction lateral spreading need to be further investigated. Ground improvements, or deep foundations, may be used to	According to preliminary studies, liquef	raction may occur in some locations.	0				0		Structure design will work closely with geotechnical to minimize the impact. Performing subsurface investigation and testing	
44	\\ e	eat	5/22/2023	/3/2023 Design			reduce or even eliminate lateral spreading hazards. This would impact the project cost and schedule.				Very Low			1 Low	late	the material at the project location in PSE phase will provide enough information to mitigate the issue by selecting adequate construction methodology. Additional cost will be included in	Fang
44	Active	Threat	Jason Fang	10/3/2023 Str Design						Moderate 5		9		2	Mitigate	the cost estimate. PM may need to adjust the project cost and schedule.	Jason
										3		4 N	loderate	3 Low			



Progra	<b>0R380</b> Im Code:	M200 -	0 Target: 1	SBD MO 2/15/2	040 PM: R 153.9/ R 154.6 040 PM: 0.0/ 0.6	PM: Elaheh Hadipour ARM: Julia Eigenbrod	Const Capital Estimate:  R/W Capital Estimate:	\$41,729 \$8,000	9K BRIDG REPLA	ct Descript E REHABILI CEMENT	ion: TATION AND/OR		Project Location: IN SBD CO NR NEEDLES BETWEEN PA MOABI RD AND TOPOCK RD AT COLOF RIVER BRIDGE (BR #54-0415)	
Risk No.	Status	Date of Origin Originator	-   >	Title	Risk Statement	Releva	ncy/Current ns/Comments/Triggers	bability	Cost Impa		Schedule Impact	Response Strategy	Response Actions	Risk
46	Active	8/24/2023 Neil Azzu	10/19/2023 Environmental	Hazardous Waste - PG&E Environmental Remediation Activities.	As a result of Pacific Gas and Electric Company's (PG&E's), environmental remediation activities, conducted by DTSC at Topock Compressor Station close to the project site, PG&E activities and/or assets may be potentially affected by Caltrans' I-40 Colorado River Bridge Replacement Project. If the bridge replacement activities intercept, obstruct or hinder PG&E's groundwater and contaminated soil removal plans or remediation infrastructures (wells, pipelines, communication lines and power lines), this could potentially lead to shut down of the project which would lead to massive delays and losses.	Pacific Gas and Electric Company's (P is located south of I-40 on the Californi 145453 National Trails Highway. PG&t compresses natural gas so it can be training to a coordinated effort in 2011, DOI an groundwater remedy to address chrom Compressor Station.  Two of the fourteen contaminated area one area along the west bound lane of Bat Cave Wash.	a side of the Colorado River, at E's Topock Compressor Station ansported through pipelines to a lateral California.  d DTSC selected the final lium in groundwater near the Topock as are located within Caltrans' ROW,	Moderate 2	2-ow 9 2-ow 4	Very Low Low	0 Moderate 1 Low 2 Moderate 3	Mitigate/Accept	Environmental will work closely with DTSC and PG&E, conduct periodic meetings to provide project updates, and share information. Construction should proceed with care to protect workers. Environmental Engineering conducted soil investigation for the part of the project footprint on land and applied proper SSPs. Further soil investigations for deep excavations/pile drilling will be conducted during construction to determine proper disposal of excess soil. PM may have to adjust for possible mitigation costs.	Paul Phan
47	Active	8/24/2023 Neil Azzu	10/19/2023 Environmental	Vegetation Protection	As a result of DTSC's implementation of revegetation mitigation directly below the current I -40 bridge, all proposed bridge-replacement alternatives may impact the vegetation that has been replanted. Any "take" of vegetation from the revegetation program due to impacts from the bridge replacement project would impact the long-term success and establishment of native vegetation and may ultimately lead to shut down of the project which would lead to massive delays and losses.	The location of the revegetation project between DTSC, PG&E and the U.S. Firecommendation for the preferred build comparison of the proposed alignment infrastructures and gas pipeline alignment. Alternative 1 - existing alignment will heremedy infrastructure and is the prefer perspective. The second preferred alter the southern alignment would impact the existing gas pipeline and sensitive hab the northern alignment.	sh and Wildlife Service. DTSC's d alternative is based on a s with the existing remedy ents around the site. The proposed ave the least impact to DTSC's red alternative from DTSC's ernative would be Alternative 3 - as ess DTSC infrastructures, but also	Woderate 2	y Low 9	Very Low Low	0 Low 1 Very Low 2 Very Low 3	Avoid	Environmental will work closely with DTSC and PG&E, conduct periodic meetings to provide project updates, and share information. Construction should proceed with care to protect workers.	Craig Wentworth
48	Active	8/30/2023 Edison Jaffery	10/19/2023 Environmental	Air Quality	If the project is not exempt, then an air quality study will be required for this project. However, the air quality study cannot be conducted unless traffic analysis / study is finalized. Additional time (5-6 months) may be required to conduct air quality study which may increase support cost and delay the schedule.	Traffic study data could be used to dev Colorado bridge project has 3 build altr not yet identified. Each alternative requand select the best alternative. Before the PDT should decide on preferred	ernatives, the preferred alternative is suires a separate study to compare final decision to perform air study,	0 Very 2 3	y Low 9		0 Low 1 2 3	Avoid	Environmental Engineering will perform air quality study for each build alternative to determine the preferred alternative. PM will evaluate any potential cost increase or schedule delay.	Paul Phan
49	Active	9/8/2023 Alisha Curtis	10/19/2023 Environmental	CDFW Take	If the Project construction exceeds Dec 31, 2033, whereby species impacts may occur, then SB 147 is no longer valid, and the Project cannot have "take" to CDFW Fully Protected Species (Yuma Ridgeway's rail, black rail, and razorback sucker), which may result in a stop work order on the Project permanently or until legislation can be pursued. This will adversely impact the project cost and schedule.	SB 147, enacted into law on July 10, 2 authorizes CDFW to issue a permit usi that would authorize the take of a fully impacts attributable to the implemental certain conditions are satisfied, which to the bill relating to Reconciling the Fu California Endangered Species Act sui intends to pursue CDFW 2081 permits	ng the permitting structure in CESA protected species resulting from tion of critical infrastructure projects if this Project qualifies. The provisions ally Protected Species with the enset at the end of 2033. The Project	Nery Low	9 High 4	High	0	Mitigate	Caltrans intends to pursue CDFW 2081 for take of FP Species (Yuma Ridgeway's rail, black rail, and razorback sucker) utilizing SB 147. PDT and Environmental will coordinate in future if construction is anticipated past Dec 31, 2033.	Craig Wentworth



	<b>0R380</b> am Code:			SBD MO	040 PM: R 153.9/ R 154.6 040 PM: 0.0/ 0.6	PM: Elaheh Hadipour	Const Capital Estimate:	\$41,729K Project Description BRIDGE REHABIL REPLACEMENT	otion: ITATION AND/OR	Project Location: IN SBD CO NR NEEDLES BETWEEN PARTICLE MOABI RD AND TOPOCK RD AT COLO RIVER BRIDGE (BR #54-0415)	
	Status Type	Date of Origin	Target: 1	Title	Risk Statement		R/W Capital Estimate:  ancy/Current ons/Comments/Triggers	\$8,000K  Cost Impact Ph Impact Ph Impact	Schedule Impact Schedule	· · ·	Risk Owner
50	Active Threat	9/11/2023 James Majors	10/19/2023 Geotechnical	Differing Site Conditions	As a result of differing site conditions, difficult drilling/caving conditions/groundwater impact may occur during the foundation construction, which will lead to impacts on cost and schedule.	Existing borings are available from the borings provide some subsurface infor classifications/lithology, groundwater to laboratory testing are not current and/or contractor may claim differing site comprovided due to inadequate information construction equipment, necessity of (wet spec) construction, and/or other construction.	mation; however, the soil able elevations, in-situ testing, or up to current standards. The ditions if current borings are not in to determine the size/provide drilling) casing, necessity of slurry	0	0 1 2 Low 3	Geotechnical design will perform borings at each bridge support location during the project design phase. If this risk materializes the PM may need to adjust cost and schedule as necessary.	James Majors
51	Active Threat	9/12/2023  Krisitne Flint	10/19/2023 Right of Way	New Permit from Lands Commission	The cost of the New permit for bridge is being sought from State Lands Commission. The project will require Caltrans to submit a lease application through the Commission's OSCAR portal. The application will also require Caltrans to submit an Approximate Expense Deposit (\$3,000.00) to cover reimbursable staff costs for processing, and a filing fee (nominal, \$25).  The deposit into the State Parks fund is cited in Streets & Highways Code section 101.5 and is not a State Lands Commission requirement. The SLC doesn't specify the amount nor verify the deposit, this amount is usually determined by an appraisal. Continued -	Continued Staff references the deporeport considered by the Commission, to Caltrans and State Parks and occur This may increase cost and possible references.  Relevancy: SLC has provided new lease example within SLC lease area will require an abe deposited in a state parks fund. Extrequired. 24 months should be adequated. Certification. Cost is unknown and can complete.	but otherwise the details are left up toutside the SLC application process. esources for project.  s. It appears an appraisal of bridge appraisal. Appraisal amount needs to tensive coordination with SLC will be ate for completion to achieve RW	0 Very Low 2 9 Very Low 3 4	0 1 gate	FLC will be in constant communication with SLC during process to address all questions and comments. Cost Recovery Agreement is required in the amount of \$3,000 plus \$25 processing fee. SLC portion of bridge lease requires appraisal and an amount. PM may need to adjust cost as needed.	Kristine Flint
52	Active Threat	9/14/2023 Elaheh Hadipour	10/19/2023 Project Mgmt	Survey work and Bridge Site Data Submittal (BSDS) preparation	If phase 1 opening is delayed beyond Feb 2024, this will result in delaying the survey work needed for design, therefore the project schedule might be impacted.	With the current PA&ED schedule, the mid-Feb. 2024, after CTC voting in Jar their work as soon as phase 1 opens of Structure design can start their design been shortened by 8 months due to Pz 2023 to Nov. 2023 as a result of environment of the property o	nuary 2024. Survey needs to start so the BSDS could be prepared and work. The PS&E phase has already A&ED date extension from March promental constrains. Structure design	0 1 Very Low 2 9 3 4	0 Moderate 1 2 Low 3	PM will making sure the PA&ED is on schedule, COOP executed and funding request submitted on time to CTC in January 2024. If this risk could not be prevented and materializes, then the district might need to change the funding year for this project.	
53	Active	9/20/2023 Eelaheh Hadipour	10/19/2023 Project Mgmt	Child EA Creation	If the Child EA is not created by early design and is not adequately funded, Caltrans will be unable to meet all CDFW 1600 and/or 2081 permit requirements and this will impact the project cost and schedule.	As a result of anticipating a long-term the CDFW 1600 permit, and offsite resipermit, a Child Project is needed to adcompleted.  This risk is connected to Risk #34.	toration work per the CDFW 2081	0 1 2 Low 9 Low 3 4	0 Low pioAY	PM will coordinate with D8 Biology and D8 Landscape to make sure the updated MCCE reflects the fund needed for the child EA. A PCR will be necessary to allocate the funds needed for the mitigation requirement.	Elaheh Hadipour



													UNSOU QUALITATI	E MON NEOLO LEN											
E	Α (	R3	80	Phase:	0			SBD MO	040 040	PM: PM:	R 153.9/R1		PM: Elaheh Hadipour	Const Capital Estimate:	\$	41,	729K∣ <sub>в</sub>	Project RIDGE I	Descript REHABILI	tion: TATIC	ON AND/OF	2	Project Location: IN SBD CO NR NEEDLES BETWEEN PARK MOABI RD AND TOPOCK RD AT COLORAD		
Program Code: 201.110, 400.100 /		M200 Target: 12/		//200 Target: 12/15/2		IVIO	040	FIVI.	0.07	.0	ARM: Julia Eigenbrod	R/W Capital Estimate:		\$8,000		ILFLACI					RIVER BRIDGE (BR #54-0415)				
	Risk	Status	Da	te of Origin	Updated	Category	Ti	itle		F	Risk Statement			ncy/Current	Probability		Cost	Impac	t		hedule mpact	sponse	Response Actions	vner	
	No. S	Ste		Originator 5		inator Da		Cate Upd Lot					Status/Assumptions/Comments/Triggers		Prob	Ph	Impact	ct Ph Impact		Ph	Impact	Res		Risk	
			11	1/21/2023			Support C Increase	Cost	cost due	alternative delivery method may affect project		will be added to phase 1 resources thro This amount is shared between ADOT	Two percent of the current capital cost associated with having CM on board will be added to phase 1 resources through a Supplemental fund request. This amount is shared between ADOT and CT and would need to be		0				0			PM will work with Programming to submit the Supplemental fund request for PSE support at the March '24 CTC. PM is in the process of			
	E4	, se		1/2 1/2025	1/28/2023	Project Mgmt			schedule.				approved prior to procurement. Any delay in the approval of this increase may effect the timely use of CM and affect the project schedule and phase opening. Current plan is to apply for the Supplemental funds at March '24 CTC. ADOT already agreed with the increased support cost.		Mo	1				1	Low	ept	adding the additional support cost language in the Co-op.		
	54	Active		Elaheh Hadipour	our 11/28/										2		9		2		Accept				
																3		4		3					
		Active	Opportunity 11		1/21/2023			CM Role		needs to may be	o be manaç able to aid	board is an opportunity ged and utilized proper in coordinating with va	ly. CM rious	If the CM on board is not used properly justified. Design and DES who request benefit from the CM the most, if they m	ed the CM to be on board could		0				0			To maximize and enhance the use of CM, coordination between PM, DES, Design and the rest of team is needed. PM will coordinate and	
	55						1/2 1/2020	1/28/2023	Project Mgmt			agencies and provide innovative/alternative methods of construction with less impact to traffic etc. This may bring some cost and/or schedule saving.	CM.		Moderate	1						Enhance	make sure the project stays on schedule and within cost. Design and DES also need to prioritize and manage the work order that is needed to be done by CM. Any changes		
		Act	'	Elaheh Hadipour,	11/28/	Project									Mode	2		9		2		Enh	affecting the project delivery need to be communicated between the parties and ADOT expeditiously.		
					Ben Amiri, loward Ng	,											3	Very Low	4	Low	3	Low			

### STATE OF CALIFORNIA · DEPARTMENT OF TRANSPORTATION RISK REGISTER CERTIFICATION (ACCOUNTABILITY CHECKPOINTS) FORM PPM-0001 (REV 07/2013)

The risk register is to be approved and signed-off by the District Deputies\* listed below for all scalability levels. By

signing this form, you are certifying that you have reviewed the risks documented in the register and agree that they have been managed to the extent possible by the PDT. <u>Project Information</u> O Capital Project Major Maintenance Project (Check One) \$41,729,000 **Total Estimated Const Cost:** Project ID/District-EA 0R380 0812000067 **Project Description** BRIDGE REHABILITATION AND/OR REPLACEMENT Project Manager (PM) Bacson Quach Risk Management Coordinator Md Shaheed No Risk Register Certification Required -- Check box if project is less than \$1 million in total cost and risk register not prepared. Sign below and submit this form with PID, PA&ED, PS&E submittals, and RE Handoff Files (as applicable). Project Manager Signature PID (Recommended for Capital Projects Only excluding Minor Projects) Project Manager Date: Deputy District Director, Planning Date: Deputy District Director, Design Date: Deputy District Director, Construction Date: Deputy District Director, Right of Way Date: Deputy District Director, Environmental Date: Deputy District Director, Project Management Date: PA&ED (Required for Capital Projects Only) Project Manager Electronically signed by Elaheh Hadipour Date: November 8, 2023 Sian Sign Electronically signed by Mahmuda Akhter Deputy District Director, Design Date: December 5, 2023 Deputy District Director, Construction Sign Electronically signed by Christy Connors Date: November 28, 2023 Deputy District Director, Right of Way Sign Electronically signed by Rebecca Guirado Date: November 13, 2023 Sign Electronically signed by Kurt R Heidelberg Deputy District Director, Environmental Date: November 9, 2023 Electronically signed by Anthony Liao Deputy District Director, Project Management Sign Date: November 8, 2023 Prior to PS&E (Required for Capital Projects and Major Maintenance Projects) Project Manager Date: Deputy District Director, Design Date: Deputy District Director, Construction Date: Deputy District Director, Right of Way Date: Deputy District Director, Environmental Date: Deputy District Director, Project Management Date: RE File Hand-off (Recommended for Capital Projects and Major Maintenance Projects) Project Manager Date: Deputy District Director, Construction Date:

# Attachment M SHOPP Performance Measures

	SHOPP Project - Accomplishment - Performance Measures - Benefits  istrict: 08 Tool ID: 11280 Project ID: 0812000067 EA: 0R380 Co-Rte-PM: SBD-040-R153.9/R154.643 (Primary Location)																
		t: 08 Tool ID: 11280 Project ID: 0812000067 E D WP: 10/23/13 Project Manager: Ashraf Habbak	EA: 0R380 Co-Rte-PM: SBD-04	0-R153 <b>.</b> 9/R	154.643	(Primary I	_ocation)									<b>⊠</b> Sa\	ve to Excel
٧	Brid	lge Pavement Drainage Facilities	Safety, Signs Mobility F & Lighting	Roadside	Comple	ete Streets		ainability e Change	Adv /Mitiga	vance Mitiga ation		Major Da & Betterm		een-house	Gases	Relinqui	ishment
	Performance & Accomplishments (PRG)																
	Actic	Activity Detail	Performance Objective	Unit of Measuremen	Quantity	Pre-Good	Pre-Fair	Pre-Poor	New	Post-Good	Post-Fair	Post-Poor	HQ Program Review - Agree with District?	HQ Comment	Review Date	Performance Change Date After Review	Comment
1	A02		Bridge and Tunnel Health		108688.0		87984.000		-20704.0	87984.000							
2	A02	Bridge Replacement/New Construction (201.110, .111, .113, .322)	Bridge Scour Mitigation	Square Feet		87984.000				87984.000							
3	A02	-bridge Replacement/New Construction (201.110, .111, .113, .322)	Bridge Seismic Restoration			87984.000				87984.000							
4	A02	1	Bridge Goods Movement Upgrades	]			87984.000			87984.000							
5	A03	Bridge Rail (201.112)	Bridge Rail Replacement and Upgrade	Linear Feet	4038.0	1346.000	2692.000			4038.000							
6	A07	Fish Passage	No Performance Objective in the SHSMP	Yes/No	No												No
7	A08	Number of Bridges	No Performance Objective in the SHSMP	Each	1.0												
8	E07	Guard Rail (201.010, .015)	No Performance Objective in the SHSMP	Linear Feet	200.0	200.000				200.000							
9	E20	Widen Shoulders (201.010, .015)	No Performance Objective in the SHSMP	Linear Feet	2750.0	2750.000				2750.000							
10	H07	Class III Bike Routes	No Performance Objective in the SHSMP	Linear Feet	2587.0				2587.0								
11	H09	Bike Lane Gap Closure	No Performance Objective in the SHSMP	Each	0.25				0.25								TBD
12	101	Total Maximum Daily Load Mitigation (Stormwater Mitigation) (201.335	Storm Water Mitigation	Acres													yes
13	102	Roadway Adapted to Address Climate Change Threats/Vulnerability	No Performance Objective in the SHSMP	Centerline Miles	0.25		0.250			0.250							yes
14	108	Install Led Lighting (Not Counted Above)	No Performance Objective in the SHSMP	Each	1.0				1.0								TBD

## Attachment N Field Review Signin Sheet



#### 0R380 - Sign-in Sheet

#### 08-SBD-040- PM 153.9/154.7

#### Bridge Rehabilitation and Replacement

Date:

January 14, 2020

Time:

11AM-1PM

California / Arizona

Subject:

Joint Field Review Meeting

Location:

Border

,				Unit			
Name	Division	Function	Telephone	Number	Initials		
Ashraf Habbak	PPM	Project Manager	909 806-3259	4392	AH		
Ben Amiri	Design	Branch Chief	909 383 6872	2242	BA		
Darcy Davis	Const	RE	760 326 4684				
Gabrielle Duff	Environmental Planning	Senior Env. Planner	X 6933	2217	80		
Omar Galvan Haissam Yahya	Traffic Operations		909 - 383 - 5322 909 383 4065	2279	as		
Howard Ng	DES / Structures Design	Structures Design	909 598 6367	3622	HAY		
Janet Lipscomb	Construction	Constructability	(909) 888 2141	2311	1 mg		
Jason Fang	DES / Structures Design	Project Engineer	909 595 4035	3622	pa		
Jeff Buck		, planear		vovstán I			
Joanna Lopez	Maintenance		(760) 856-2282				
Julie Scrivner	Environmental Planning	Planner	909 806 3969	2217	JAS		
Karen Riesz	Environmental Planning	Regulatory Permits / Biology	(909) 383-6386	2210	144		
Manuel Zapata	construction	Juspetions	957 2373556	4176	MZ		
Marissa Cofer	ROW	Project Coordina	. (909)383- 700 2870	2304	M6		
Mina Pezeshpour	DES / Structures Design	Structure Design	99.992.9983	3588	mp		
Navaphan Viboolmate	Arizona DOT		6027128478	1 12	NAV		
Pe-Shen Yang	Arizona DOT	Assistant State Bridge Engineer	6027128606		P59		
Refaat El Sherif	Design	Project Engineer	909 383 6891	2242	RE		
Salvador Castaneda	Maintenanse	Supervisor	909 877-379	7 2365	50		
TIM STUZBER	CAUTRANS D8 BRIDGE CREW	CHML	426 482 -1925	2365			
W. Hawara							

## Caltrans.

#### **0R380 - Sign-in Sheet** 08-SBD-040- PM 153.9/154.7

#### Bridge Rehabilitation and Replacement

Date:

January 14, 2020

Time:

11AM-1PM

California / Arizona

Subject:

Joint Field Review Meeting

Location:

Border

Subject.	Joint Field Review Meeti	116	Location.	border	
Name	Division	Function	Telephone	Unit Number	Initials
Tricia Lewis	ADOT-NW Districe Development	t perelipment	928-326- 1062-		TML
Eric stanford	ADOT.				Phono
mast Tolman	10,10				phone
TORRES	CONSTRUCTION	CONSTRUCTION ANSPECTION	(909) 609-1380	4176	4
MALISA LIENG	D° ENV. PLANNING		(909)383- 6442	2202	ML
Toold Steinberger Jeff	ADOT NW Dist.	Support Asst. DE	928-681-6039	4510	TS
Jeff Baumeister	ANOT	Supervisor	928.814-9950	5321	rs
Vi lin	DOT	EIT	64-40-755		Sh
Chris Duffield	ADOT I DO	Tech IV	928-914.9951	532)	al
Brandon Nguye	ADOT EP	Ensometel plane	607-112-		Bn
	- 1150 - 1240 - 1240				