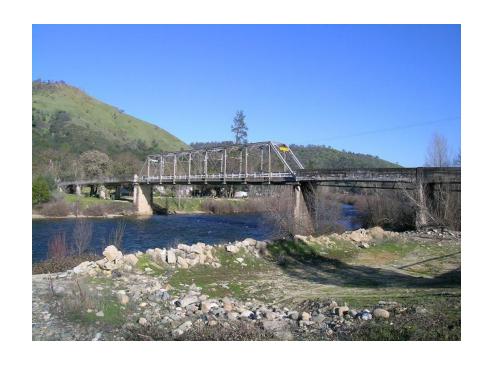


Mt. Murphy Road Bridge At the South Fork of the American River

FINAL ENVIRONMENTAL IMPACT REPORT (FEIR)



Board of Supervisors Meeting

May 17, 2022



AGENDA

BACKGROUND

Background, Alternatives,Proposed Project

EIR HIGHLIGHTS

Mitigation Measures, PublicComments

CONCLUSION

Project "Look Ahead" & Concluding Remarks





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O TIFORNIA

Background:

- Sufficiency Rating (SR) = 0.00
 (2011), 13.5 (2014), 2.0 (2016), 20.6
 (2018), one of the Lowest Rating of ALL County Maintained Bridges
- Structurally Deficient (has Fracture Critical Members, FC inspections by Caltrans annually)
- Extensive Maintenance & Repairs (including multiple emergency closures)



Courtesy of Vickie Longo

O ADO COULT

Background:

- Ongoing Maintenance
- → Emergency Repair(s)
 - **→** 2007
 - **→** 2021



Sept. 2007



July 2018



Fall 2021 22-0243 E 5 of 26

Background:

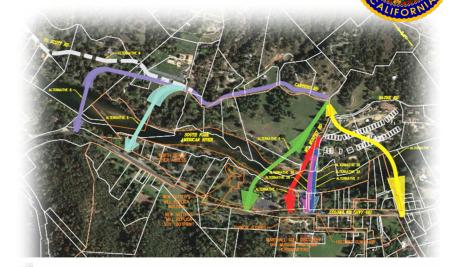
Emergency Repair (2021)

- → Accident Sept. 2021
 - Structural Damage to Truss
- → Immediate Closure
- → Testing of Truss Members
- Unique Challenges & Unique Repair
- Reduced Load Rating Limit
- → Importance of Bridge Replacement Project



Alternatives:

- Purpose & Need:
 - → To provide safe and reliable passage to the traveling public across Mt. Murphy Bridge
- Structural Analysis and Rehabilitation
 Feasibility Study (2014)
 - Concluded Rehabilitation Infeasible
- → Alternatives Report (2015)
 - → Included three SAC & PDT meetings (2014)
 - → Identified nine (9) Alternatives
 - Recommended three (3) Alternatives for Environmental Evaluation
- Alternatives Feasibility Study (2016)
 - ➡ Evaluated three (3) Alternatives
- Recommended On-Alignment Alternative



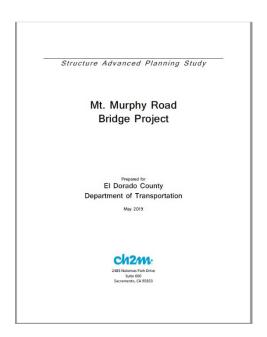


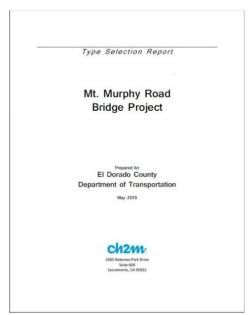


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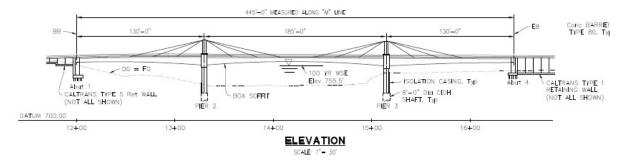
Proposed Project

- **→** Technical & Engineering Studies
- Structure Advanced Planning Study (APS)
- → Type Selection Report (TSR)
- Geotechnical Study
 - → Vibration Considerations



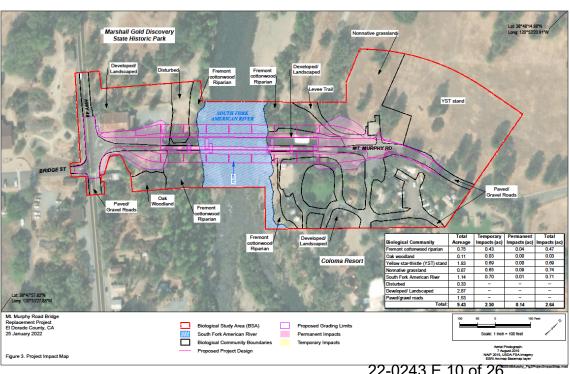


- Noise Study
- Traffic Study



Proposed Project

- Alternative 1 (Corridor 1) "On Alignment"
- → Avoidance & Minimizing Impacts
 - → Cultural & Historic Resources
 - **Biological Resources**
 - Visual Impacts, etc.

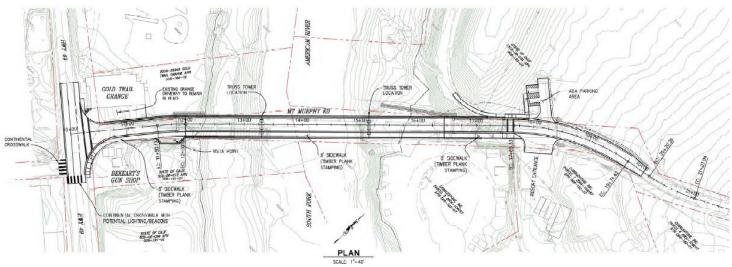


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Proposed Project

Alternative 1 (Corridor 1) – "On Alignment"





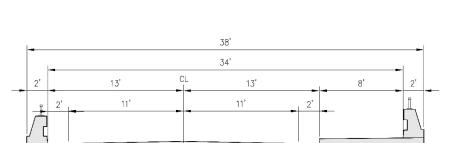


PRELIMINARY CONCEPT

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Proposed Project

Alternative 1 (Corridor 1) – "On Alignment"

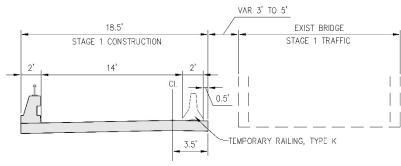


BRIDGE DECK TYPICAL SECTION NTS

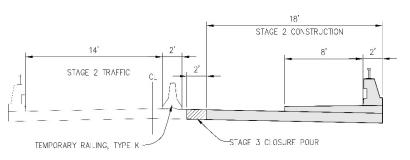


PRELIMINARY CONCEPT





STAGE 1 TYPICAL SECTION NTS



STAGE 2 TYPICAL SECTION

NTS

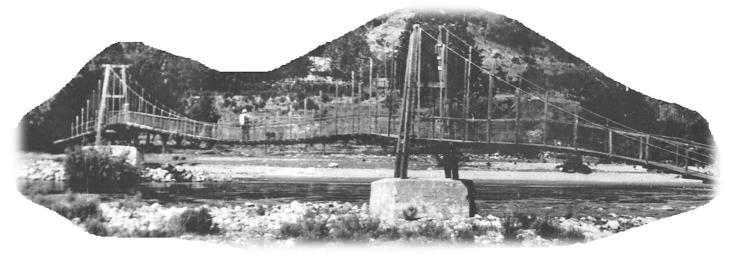
22-0243 E 12 of 26

→ Integrating the Past

Continuity

Minimize Impacts





Proposed Project

"Truss Tower Portals" with Cables





PRELIMINARY CONCEPT

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→ Alternative 1
(Corridor 1) – "On Alignment"

Table 3-1. Bridge Design Elements Compared Against Historic Bridge Elements

Feature	Historic Bridge Reference Image	Proposed Bridge Detail Simulation
Truss crossbars		
Cables		22-0243 E 15 of 26

PRELIMINARY CONCEPT

→ Alternative 1 (Corridor 1) – "On Alignment"

Table 3-1. Bridge Design Elements Compared Against Historic Bridge Elements

Feature	Historic Bridge Reference Image	Proposed Bridge Detail Simulation
Box relief and arched curves in concrete girders		
Mono slab pier walls with flared pedestals and trim accents		
		22-0243 E 16 of 26

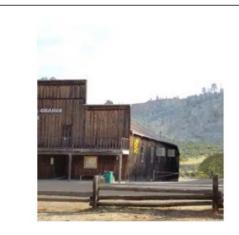
PRELIMINARY CONCEPT

→ Alternative 1 (Corridor 1) – "On Alignment"



Table 3-1. Bridge Design Elements Compared Against Historic Bridge Elements

Wood texture and color tones







PRELIMINARY CONCEPT



AGENDA

BACKGROUND

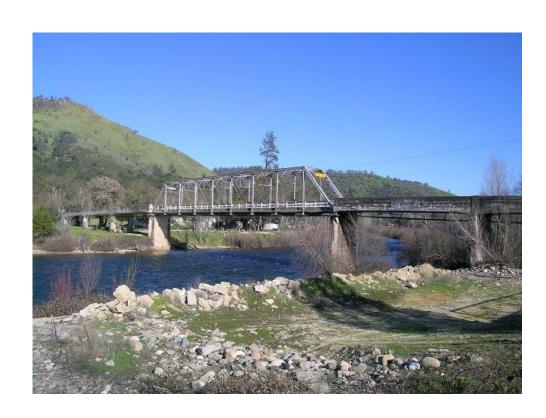
Background, Alternatives,Proposed Project

EIR HIGHLIGHTS

Mitigation Measures, PublicComments

CONCLUSION

Project "Look Ahead" &Concluding Remarks





EIR Highlights:

- Comments on Draft EIR
 - Notice of Availability (NOA) & Public Meeting (1/26/22)
 - → Public Review Period: 1/10/22 - 2/25/22
- Draft EIR Highlights
 - Summary of MitigationMeasures

Mt. Murphy Bridge Replacement Project



Draft Environmental Impact Report

SCH#: 2015012056

Prepared For: El Dorado County Department of Transportation 2850 Fairlane Court. Placerville CA 95667

Contact: Attn: Bridge Project Coordinator

Phone: 530-621-5900

Prepared By: SWCA Environmental Consultants

6355 Riverside Blvd, Suite C, Sacramento CA 95831

Contact: Jeffery Little

Phone: 916-427-0703

January 2022



EIR Highlights:

Table 5-1: Summary of Significant Impacts and Mitigation Measures

<u>Impact:</u> Mitigation Measures:

→ Aesthetics: BIO-5 (Riparian), BIO-6 (Oak Trees), BIO-7 (SF

American River)

→ Air Quality: HAZ-2 (Lead)

➡ Biological Resources: BIO-1 (FYLF), BIO-2 (Migratory Birds), BIO-3

(Bats), BIO-4 (Balsamroot, Sedge), BIO-5 (Riparian), BIO-6 (Oak

Trees), BIO-7 (SF American River)

Geology & Soils: NOI-1 (Vibration)

→ Hazardous Materials: HAZ-1 (Arsenic), HAZ-2 (Lead), HAZ-3 (Treated Wood), WILD-1.

(Fire Protection)

→ WQ & Water Resources: Bio-1 (FYLF), Bio-7 (SF American River)

→ Noise: NOI-1 (Vibration)

→ Recreation:
REC-1 (Relocate Park Uses), REC-2 (Whitewater Boaters), REC-3

(SR-49 & Mt Murphy Park Character), REC-4 (Traffic Delays)

→ Wildfire: WILD-1 (Fire Protection)

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EIR Highlights:

Table 5-1: Summary of Significant Impacts and Mitigation Measures

<u>Impact:</u> <u>Mitigation Measures:</u>

→ *Cultural Resources:
CULT-1 (Design Features), CULT-2 (HAER), CULT-3

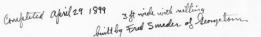
(Interpretive Exhibits), CULT-4 (Revised National

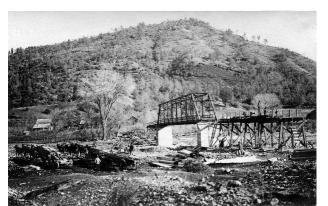
Register Nomination), CULT-5 (Reporting), CULT-6

(Post Review Plan), CULT-7 (ESA Action Plan)

Tribal Cultural Resources: CULT-8 (Native American Monitoring)









EIR Highlights

Coordinated Efforts



→ Extensive Coordination Efforts

County Of El Dorado, State
 Parks, Caltrans, FHWA, Tribes,
 OHP, Public, etc.

Design Features

➡ Evolution of Proposed Project

→ Interpretive Exhibits

→ Integrating Efforts & Uses





Public Comments

- Need for Road Improvements
- Impacts associated with neighboring activities
- Proposed Bridge Design Features

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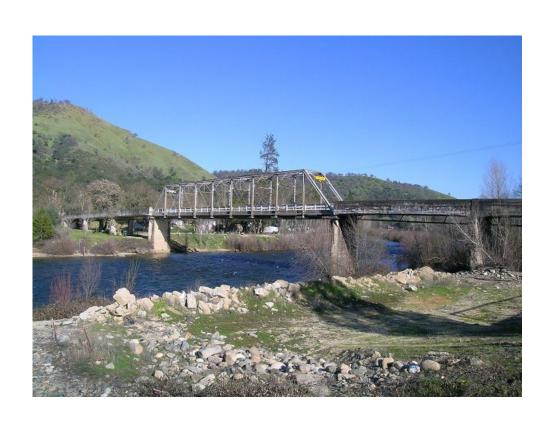
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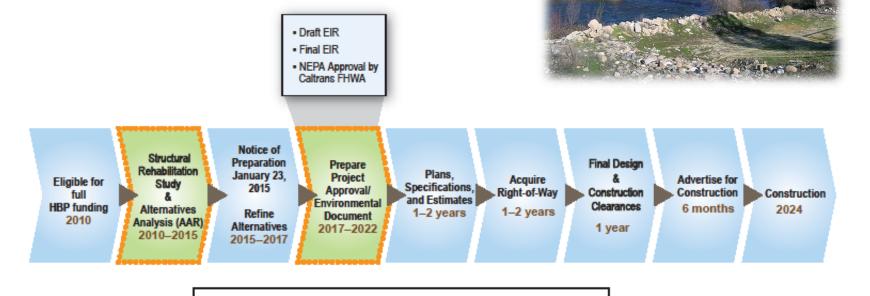
Project "Look Ahead" & Concluding Remarks



Project "Look Ahead"

Anticipated Schedule & Development Process

Current Phase



Opportunity for public comment

Concluding Remarks

O TIFORNIA

- Project best meets all Project Objectives
- → Extensive collaboration & coordination efforts
- → DOT recommends BOS to:
 - → 1) Certify EIR
 - 2) Adopt Findings of Fact and MMRP
 - → 3) Approve Mt Murphy Bridge Project





