



**COUNTY OF EL DORADO
DEPARTMENT OF TRANSPORTATION**

Mt. Murphy Road Bridge

At the South Fork of the American River

**PROJECT UPDATE
&
DRAFT ENVIRONMENTAL IMPACT
REPORT (EIR)**



Virtual Public Meeting

January 26, 2022



AGENDA

→ Welcome / Introductions

WHERE WE'VE BEEN

→ Project Update

WHERE WE ARE

→ Public Review of Draft
Environmental Impact Report
(EIR)

WHERE WE'RE GOING

→ Project "Look Ahead"
→ Open Discussion





AGENDA

↳ Welcome / Introductions

WHERE WE'VE BEEN

↳ Project Update

WHERE WE ARE

↳ Public Review of Draft
Environmental Impact Report
(EIR)

WHERE WE'RE GOING

↳ Project "Look Ahead"
↳ Open Discussion





AGENDA

↳ Welcome / Introductions

WHERE WE'VE BEEN

↳ Project Update

WHERE WE ARE

↳ Public Review of Draft
Environmental Impact Report
(EIR)

WHERE WE'RE GOING

↳ Project "Look Ahead"
↳ Open Discussion





Project Update

Why We are Here...

- ➔ Project Progress & Update
- ➔ Comments on Draft EIR
 - ➔ Public Review Period:
1/10/22 – 2/25/22
 - ➔ Email or Mail
- ➔ Project “Look Ahead”

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





Purpose & Need:

- 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



Purpose & Need:

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



Sept. 2007



July 2018



Fall 2021



Purpose & Need:

Emergency Repair (2021)

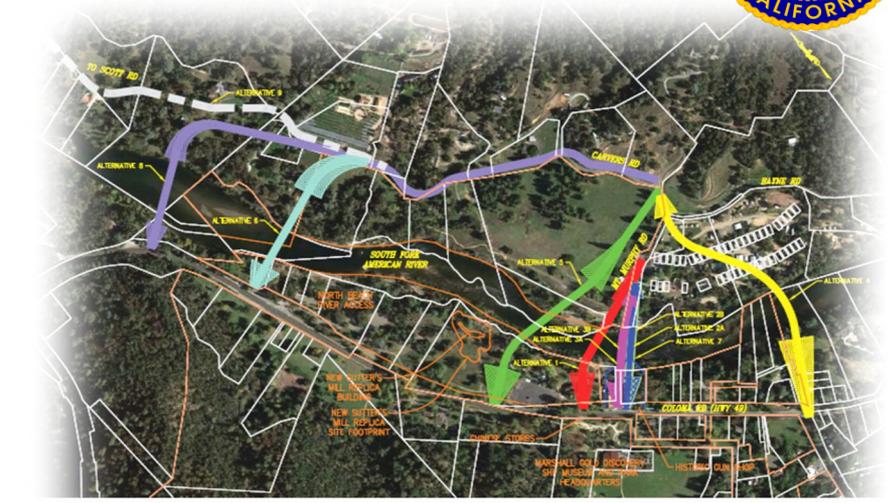
- Accident Sept. 2021
 - Structural Damage to Truss
- Immediate Closure
- Testing of Truss Members
- Unique Challenges & Unique Repair
- Reduced Load Rating Limit
- Importance of Bridge Replacement Project





Project Progression:

- **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**

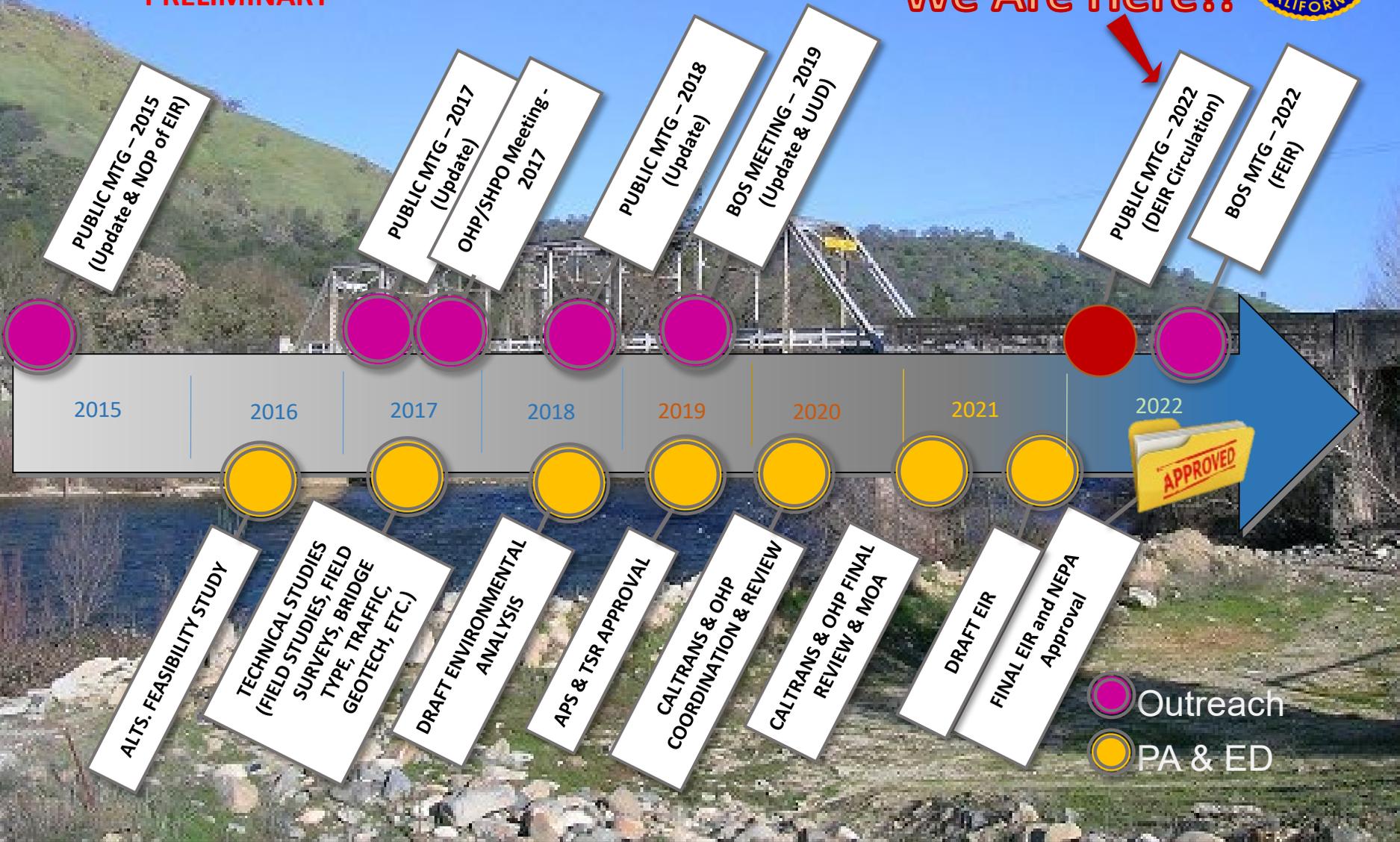




Environmental Schedule

PRELIMINARY

We Are Here!!





Proposed Project

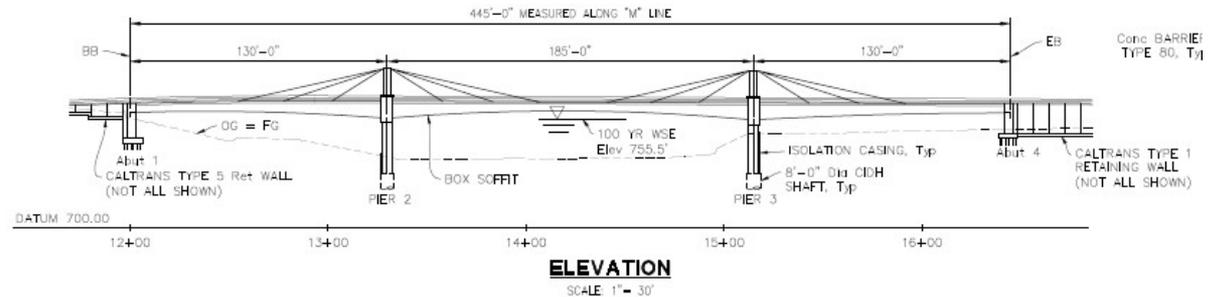
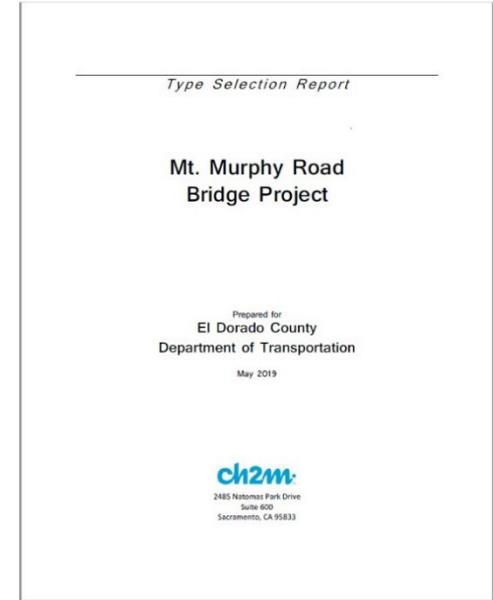
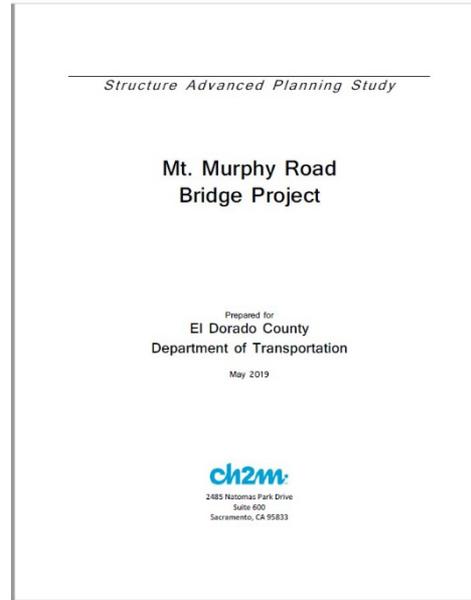
➔ Technical & Engineering Studies

➔ Structure Advanced Planning Study (APS)

➔ Type Selection Report (TSR)

➔ Geotechnical Study

➔ Vibration Considerations



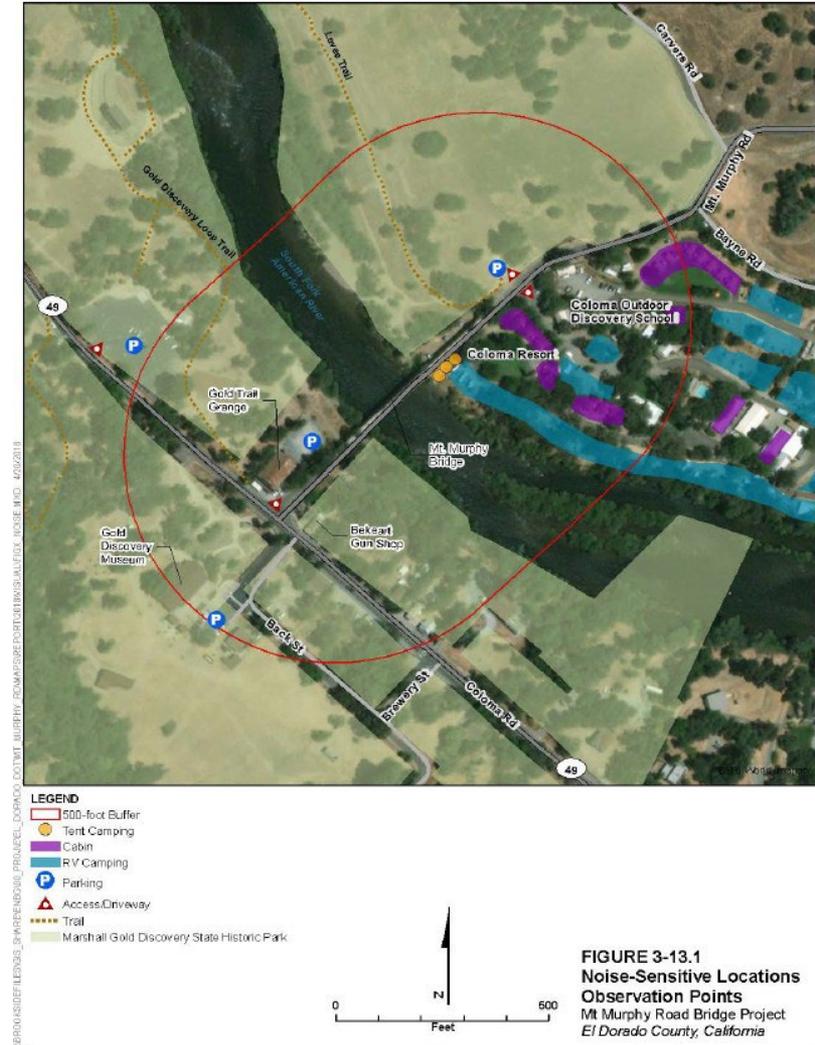


Proposed Project

↳ Technical & Engineering Studies

↳ Traffic Study

↳ Noise Study





Proposed Project

Alternative 1 (Corridor 1) – “On Alignment”

- Avoidance & Minimizing Impacts
 - Cultural & Historic Resources
 - Biological Resources
 - Visual Impacts, etc.

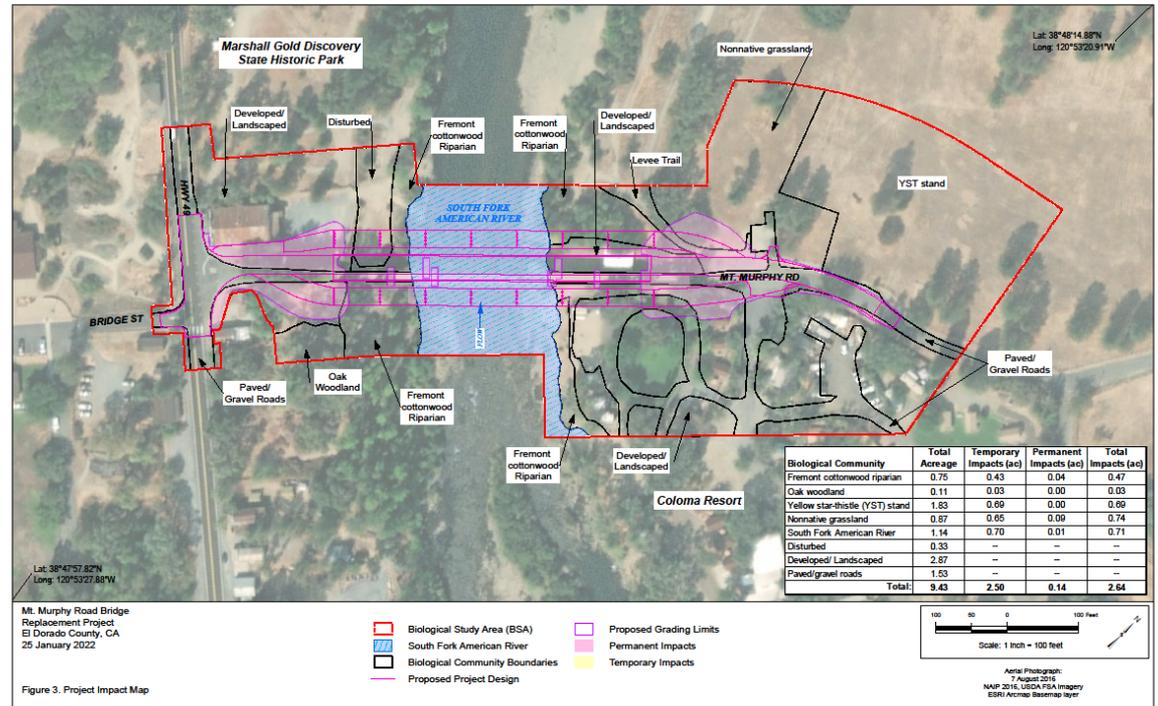
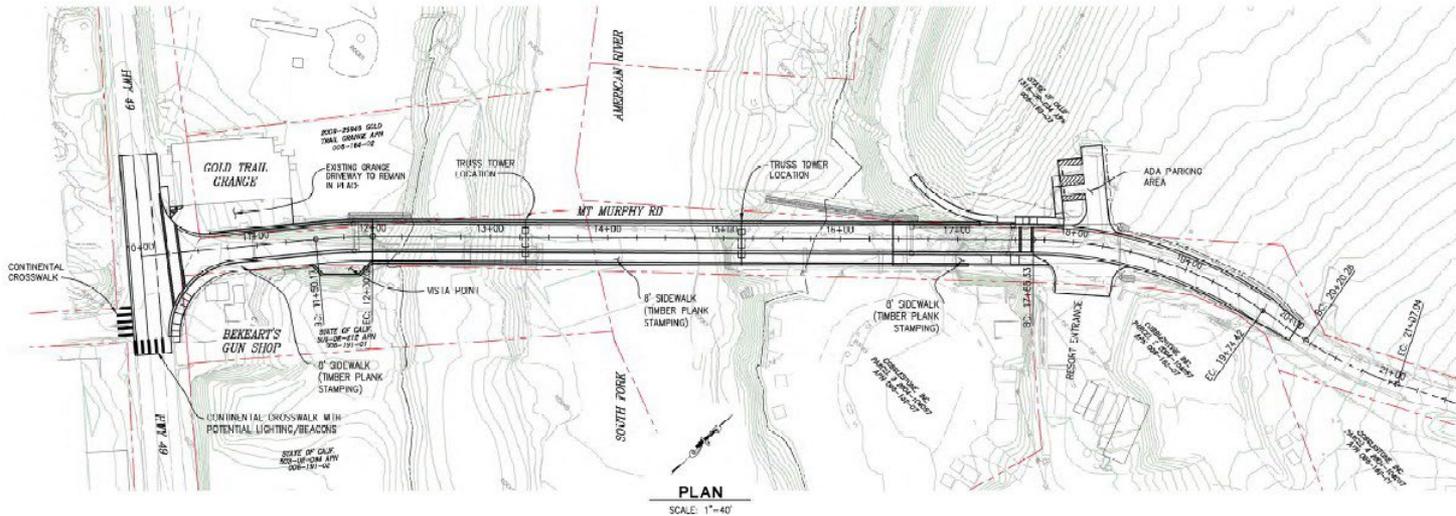


Figure 3. Project Impact Map



Proposed Project

Alternative 1 (Corridor 1) – “On Alignment”

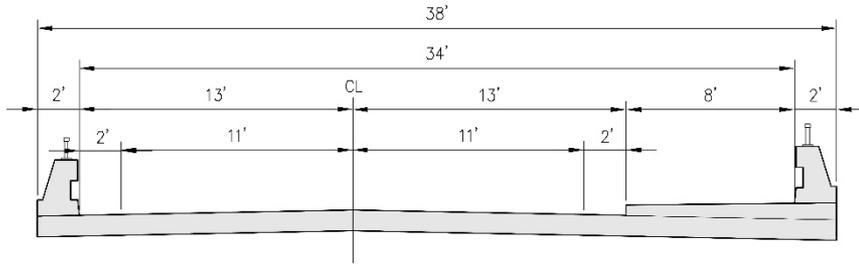


PRELIMINARY CONCEPT

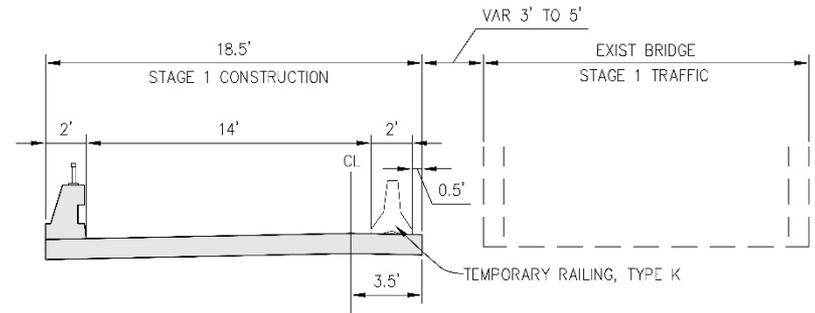


Proposed Project

Alternative 1 (Corridor 1) – “On Alignment”



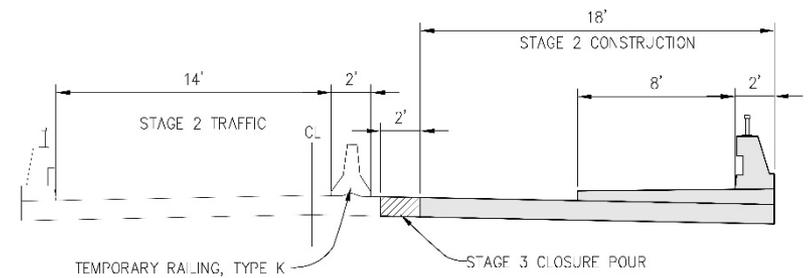
BRIDGE DECK TYPICAL SECTION
NTS



STAGE 1 TYPICAL SECTION
NTS



PRELIMINARY CONCEPT

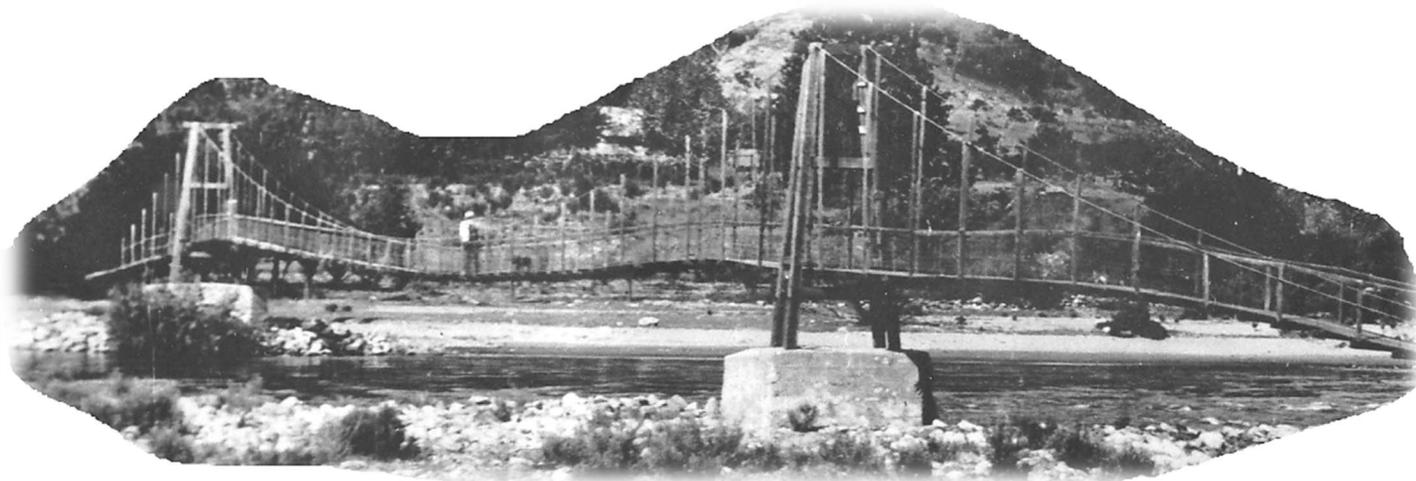


STAGE 2 TYPICAL SECTION
NTS



Proposed Project

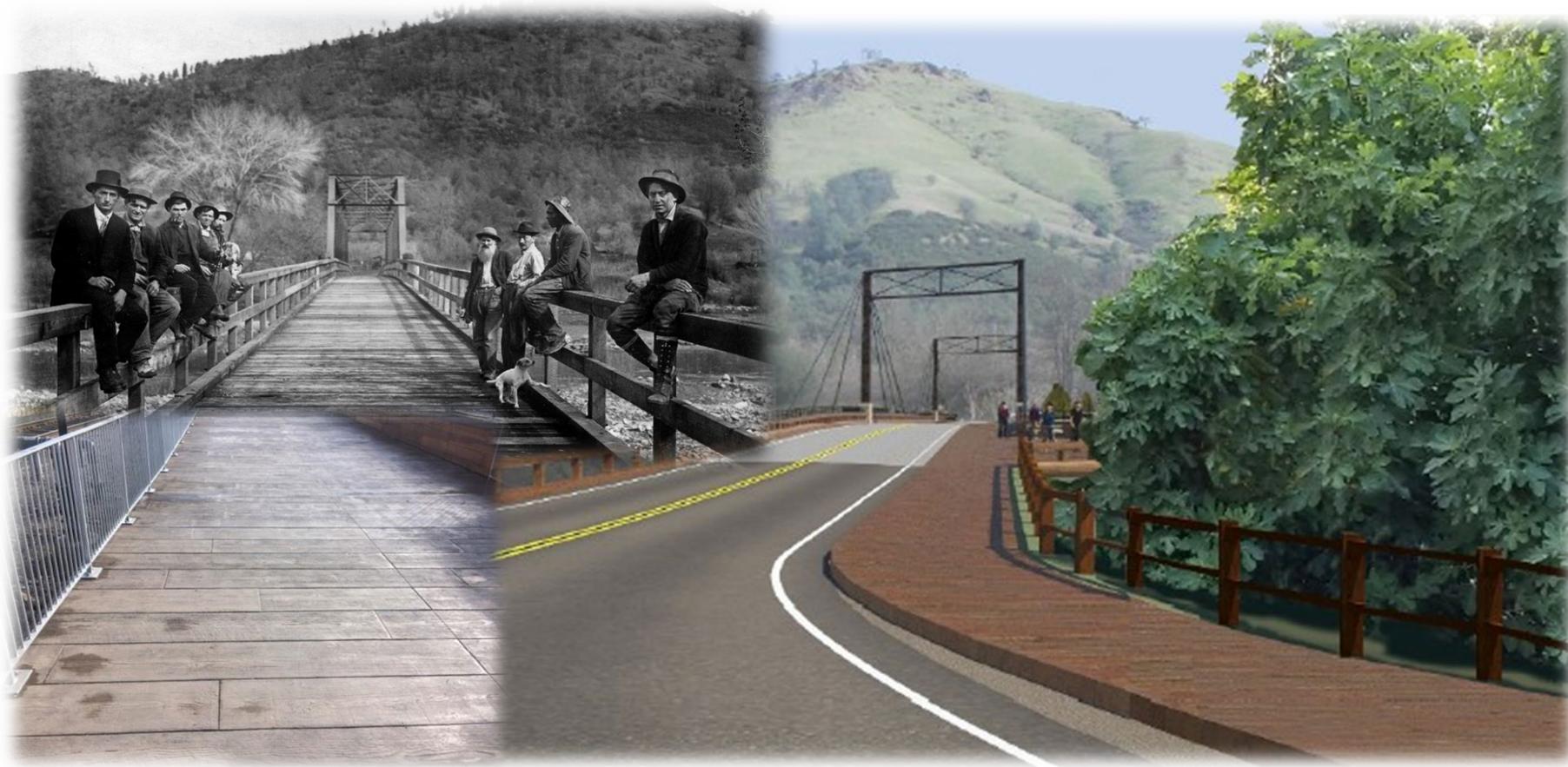
- Integrating the Past
- Continuity
- Minimize Impacts



PRELIMINARY CONCEPT



Proposed Project



PRELIMINARY CONCEPT



Proposed Project

↳ “Truss Tower Portals” with Cables



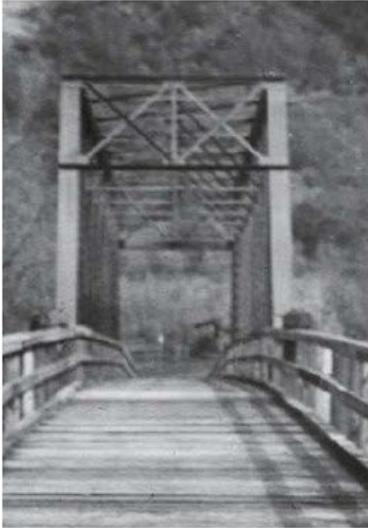
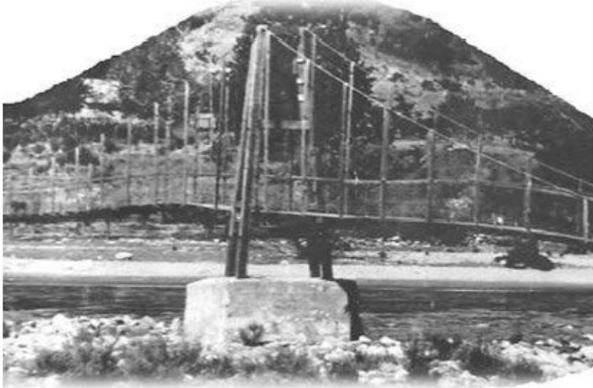
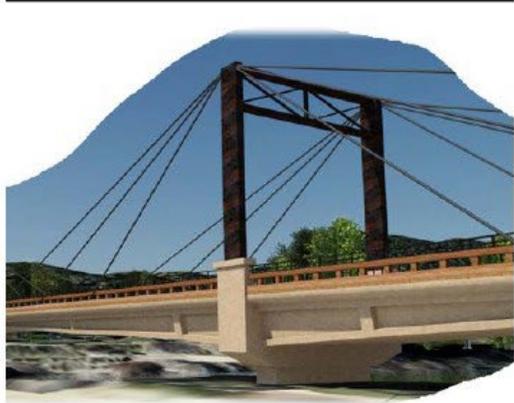
PRELIMINARY CONCEPT



Proposed Project

→ **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		

PRELIMINARY CONCEPT



Proposed Project

→ 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		

PRELIMINARY CONCEPT



Proposed Project

→ Alternative 1
(Corridor 1) – “On
Alignment”

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

<p>Wood texture and color tones</p>		
-------------------------------------	--	---



PRELIMINARY CONCEPT



Proposed Project

- ➔ Alternative 1 (Corridor 1) –
“On Alignment”



PRELIMINARY CONCEPT



AGENDA

↳ Welcome / Introductions

WHERE WE'VE BEEN

↳ Project Update

WHERE WE ARE

↳ **Public Review of Draft
Environmental Impact Report
(EIR)**

WHERE WE'RE GOING

↳ Project "Look Ahead"

↳ Open Discussion





Public Review – Draft EIR

- ↳ Comments on Draft EIR
 - ↳ Public Review Period:
1/10/22 – 2/25/22
 - ↳ Email or Mail

- ↳ Draft EIR Highlights
 - ↳ Summary of Mitigation Measures

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





Public Review – Draft EIR

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

Impact:

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) |



Public Review – Draft EIR

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

Impact:

Mitigation Measures:

→ *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)



Completed April 29 1899 3 ft wide with melting
built by Fred Smeder of Georgetown





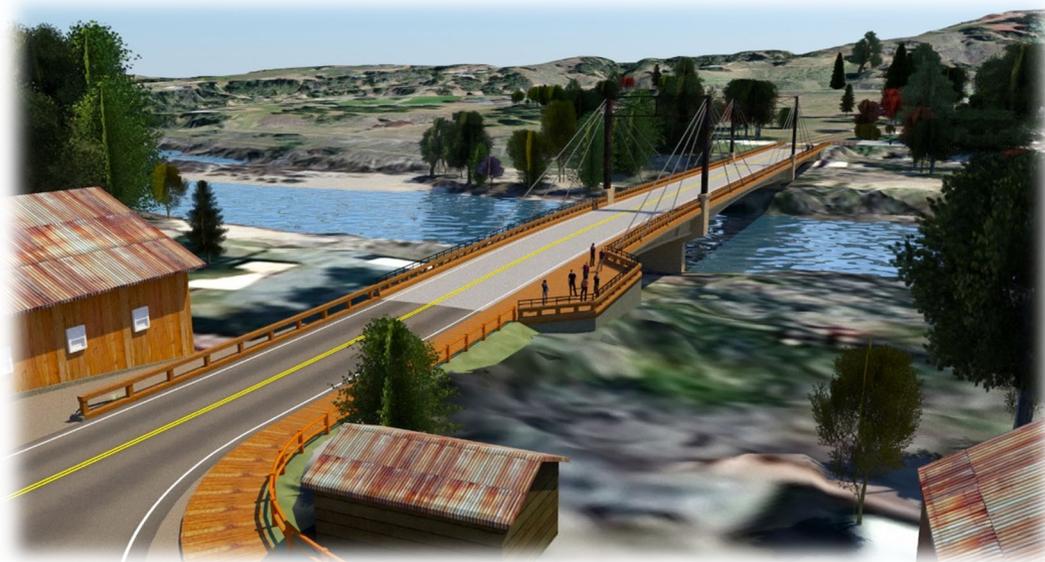
Public Review – Draft EIR

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



PRELIMINARY CONCEPT



AGENDA

↳ Welcome / Introductions

WHERE WE'VE BEEN

↳ Project Update

WHERE WE ARE

↳ Public Review of Draft
Environmental Impact Report
(EIR)

WHERE WE'RE GOING

↳ Project "Look Ahead"
↳ Open Discussion





Project “Look Ahead”

↳ Environmental “Next Steps”

- ↳ **Draft EIR Public Review Period:**
 - ↳ **1/10/22 – 2/25/22**
- ↳ Response to Comments
- ↳ Final EIR (includes Response to Comments, Errata, etc.)
- ↳ **BOS Meeting (Final EIR Approval) – 2022**
- ↳ Caltrans & OHP Approvals (parallel process)
- ↳ **NEPA Approval - 2022**





Project “Look Ahead”

↳ Anticipated Schedule & Development Process



- Draft EIR
- Final EIR
- NEPA Approval by Caltrans FHWA

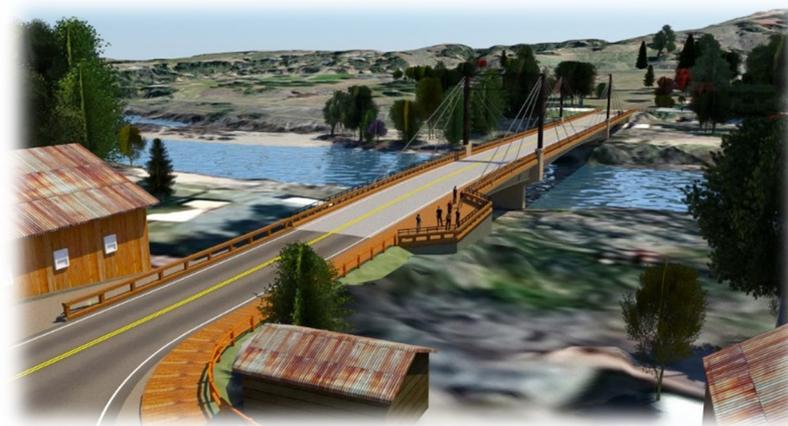


PRELIMINARY

**Opportunities for Overlap (ROW, Design, PS&E)*



CONCLUDING REMARKS



PRELIMINARY CONCEPT



OPEN DISCUSSION

We Want to Hear from You!

- Draft EIR available at project website or hard copy at the El Dorado County Library (Placerville)

EIR Comments – What to Do

- Submit Comments (email or mail) to the County by Feb. 25, 2022
- Email: mtmurphybridge@edcgov.us
- Mail: El Dorado County Department of Transportation
Attn: Bridge Project Coordinator
2850 Fairlane Court
Placerville, CA 95667
Phone: (530) 621-5900

Questions



<http://www.edcgov.us/MtMurphyBridge/>