

ESA ACTION PLAN

**Bucks Bar Road at North Fork Cosumnes River
Bridge (25C0003) Replacement Project
El Dorado County**

Federal Project Number: BRLS-5925(051)

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1. SUMMARY OF ACTION PLAN

The County of El Dorado, in conjunction with the California Department of Transportation (Caltrans) is proposing to replace Bridge 25C0003, located on Bucks Bar Road over the North Fork of the Cosumnes River in El Dorado County, California.

The *Area of Potential Effects* (APE) was defined to encompass the area within which direct or indirect effects associated with the proposed road project could cause alterations in the character or use of any historic property. The APE was defined following Attachment 3 of the First Amended *Programmatic Agreement Among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and the California Department of Transportation Regarding Compliance with Section 106 of the National Historic Preservation Act, as it Pertains to the Administration of the Federally-Aided Highway Program in California* (PA), effective on January 1, 2014.

The Project's work limits are within the boundaries of CA-ELD-49. An Environmentally Sensitive Area (ESA) will be established as a protective measure minimizing potential for inadvertent damage to the site during construction. Portions of the ESA will be protected by the installation of temporary plastic fencing and physical barriers, which will be erected prior to any construction activities and removed at the conclusion of construction.

2. PROJECT DESCRIPTION

1) *General scope of the proposed work, specifying project components relevant to the ESA action plan*

The El Dorado County Community Development Agency, Transportation Division (Transportation) proposes to replace the existing Bucks Bar Road Bridge over the North Fork Cosumnes River. The existing bridge is located along Bucks Bar Road approximately 1.2 miles north of Mount Aukum Road. Transportation will use Highway Bridge Program (HBP) funds to replace the existing structure to improve roadway safety and comply with the American Association of State Highway and Transportation Officials (AASHTO) design guidelines and El Dorado County standards.

The existing one lane reinforced concrete deck slab bridge supported by a reinforced concrete spandrel arch, spans approximately 70 (feet) ft with a width of approximately 18.5 ft. was built in 1941. The current width only accommodates a single lane which forces southbound vehicles to yield to northbound travelers until the bridge is clear.

The proposed replacement bridge will be an approximately 210 ft long single span, cast-in-place (CIP) prestressed (PS) box girder bridge. The superstructure would be supported on seat type abutments. The north abutment would be a cantilever abutment founded on a spread footing embedded into the underlying rock. The south abutment would be a seat type abutment founded on two large diameter CIDH piles with rock sockets. The bridge alignment is offset north, or upstream, of the existing alignment. The offset alignment allows the bridge to remain open

during construction satisfying one of the major public concerns identified during community outreach.

The road will remain open during construction except for minor delays to traffic during the installation of the shoring and during construction of the roadway conforms. It is anticipated that construction of the Project will occur in 2017/2018. The new bridge and road work would be constructed in a single season. The removal of the existing bridge would likely occur in the following construction season.

2) *Description of the regulatory context for which the plan was prepared*

The ESA Action Plan was prepared consistent with the Section 106 Programmatic Agreement.

3) *List of archaeological sites or other historic properties to be protected within the project area, including a description of their locations relative to project activities*

The CA-ELD-49 site includes [REDACTED], [REDACTED]
[REDACTED]. CA-ELD-49 includes the [REDACTED]. An
Extended Phase I (XPI) subsurface testing was conducted to determine if buried cultural resources are present. Based on the XPI, no buried cultural resources were found.

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

4) Citation of all pertinent maps or figures (Project Location, ESA boundaries, Project Area limits, construction plans, etc.)

The Project Location map, APE, ESA and project general plans are located in Attachment A. The construction plans will be attached once they are prepared.

3. METHODS

An ESA Action Plan has been developed to ensure that provisions for protection of CA-ELD-49 will be carried out and are documented in accordance with Stipulation X.B.1a of the PA.

Prior to the start of construction, the County will arrange for cultural awareness training for contractor personnel and County personnel.

Native American monitors will be allowed on site during construction. The County's Resident Engineer will provide 48 hours notice to the Native American monitors prior to start of construction.

The ESA fencing and physical barriers will be established to protect the majority of the features of CA-ELD-49. The exact location of fencing will be determined by the Project Archaeologist in conjunction with the Resident Engineer. The physical barriers may include crane mat covers, trench plate, sand/gravel bags, soil cover, etc. They will be identified on the construction plans. Native American monitors may be present during the installation of the ESA fencing and the physical barriers.

No construction activity or related ground disturbance will take place within the fenced ESA. Prior to the installation of the ESA fence, two or three multi-stemmed oaks on the north side of F-12 will be pruned or removed. The trunks of these multi-stemmed oaks lean towards or over the proposed bridge and conflict with the new bridge, its falsework, or the new roadway. Tree removal within the ESA will be as directed by the County's project manager or resident engineer. All tree removal within the fenced ESA will be performed in a manner that limits impacts (to the extent practicable) to the ESA. Tree removal within the fenced ESA shall be performed such that the tree trunks are removed to as close to the ground as possible, and the stumps left in the ground. Construction staging and storing of materials is not allowed within the fenced ESA. The Resident Engineer will regularly inspect the construction area to ensure that no ground disturbance is occurring within the fenced ESA. The Resident Engineer will notify the Project Archaeologist in the event of any inadvertent ground disturbance in the fenced ESA. The Project Archaeologist will notify Caltrans within 48 hours of any ground disturbance in the fenced ESA and consult immediately to determine how the ground disturbance will be addressed. The Contractor, monitored by the Resident Engineer, will remove temporary fencing at the conclusion of construction.

Several features may be protected by temporary relocation during construction and replacement after construction. [REDACTED]

[REDACTED]. The temporarily relocated features would be stored during construction within the

APE. They would be relocated either back to approximate original locations or at new locations within the right-of-way prior to the completion of construction.

There are many large boulders [REDACTED] of the North Fork Cosumnes River. It appears that these boulders [REDACTED]. The County will allow Native American monitors to inspect the boulders for the presence of cultural resources as they are removed during excavation operations during construction. If cultural resources are found on any of the boulders, the boulders with the cultural resources will be relocated on site at location(s) determined by the County's resident engineer, who will consult with the Native American monitors before deciding on said location(s).

Feature [REDACTED]. It does not appear that it can be moved/relocated without damaging or destroying it. Feature [REDACTED] may conflict with construction of new facilities, including but not limited to the [REDACTED]. The County will make every effort to protect Feature [REDACTED] in place. These efforts will include adding provisions to the contract specifications that (1) require the contractor to protect Feature [REDACTED] in place, and (2) detail the type of covering that will be required to be in place during construction. However, in the event that the County's resident engineer determines that a portion of the project is not able to be constructed due to the presence of Feature [REDACTED], it will have to be relocated, which will cause damage to or destruction of Feature [REDACTED]. Therefore, this ESA Action Plan lists Feature [REDACTED] as "Make every effort to protect in place. If unable to protect in place, attempt relocation, which will cause damage to or loss of the feature." While the County will indeed make every effort to protect the Feature in place, the County also understands that Feature [REDACTED] may be impacted during construction. Accordingly, the County has documented Feature [REDACTED] using the DPR 523 series of forms from the California Department of Parks and Recreation. If Feature [REDACTED] needs to be relocated during construction, the County will consult with Native American representatives regarding the manner in which [REDACTED] will be relocated.

If additional cultural resources are found during construction [REDACTED] that are unknown at the time of the creation of this ESA Action Plan, the County's resident engineer will consult with Native American representatives, and the resident engineer will determine the manner in which the resources will be mitigated. The mitigation methods are listed below in their generally preferred order of implementation:

1. Protect in place - install ESA fencing and avoid.
2. Protect in place – install protective covering.
3. Temporarily relocate and then replace within the right of way after construction. Relocation may damage or destroy the feature.
4. Permanently relocate within the right of way. Relocation may damage or destroy the feature.

HUMAN REMAINS AND RELATED CULTURAL ITEMS

If human remains or associated items are encountered during archaeological surveys or excavations or during construction activities, Caltrans and El Dorado County shall follow California Health and Safety Code section 7050.5 and Public Resources Code section 5097.98. The Caltrans District shall consult with the most likely descendant(s), as identified by the California Native American Heritage Commission (NAHC), on the sensitive and dignified treatment and disposition of Native American human remains and associated items.

On private lands and upon consideration of the Most Likely Descendant's recommendations, the landowner determines the respectful treatment and disposition of the human remains and associated grave artifacts.

	Senior Civil Engineer	
Kim Tremaine, Ph.C., RPA, Consulting Archaeologist	Tremaine & Associates	916-637-9717
Resident Engineer	To be determined	
Contractor	To be determined	
Shingle Springs Band of Miwok Indians Tribal Preservation Officer	Daniel Fonseca, THPO	530-698-1460 dfonseca@ssband.org
Ione Band of Miwok Indians Tribal Preservation Officer	To be determined, Tribal Council	209-245-5800 www.ionemiwok.org
Nashville-Eldorado Band of Miwok Indians/ Tume'lay Nissenan Miwok Tribal Preservation Officer	Kim Petree	530-621-4756 Waterlover4life@yahoo.com

The County's project manager will ensure that the ESA fence and physical barriers are clearly described and illustrated in all plans, specifications, and estimates that are prepared to guide project construction. The Resident Engineer and the Consulting Archaeologist will field review the location of the ESA fence and physical barriers to ensure that protective measures are installed by the Contractor prior to initiating any work in the area.

Environmentally Sensitive Areas (ESA) Action Plan: Tasks and Responsible Parties.

Stage	Task	Responsible party*	Task completed (date and initial)
Pre-Construction	The El Dorado County (County) Project Manager, in consultation with the County's Consulting Archaeologist and Caltrans PQS, will ensure that the ESA for site CA-ELD-49 and the adjacent Archaeological Monitoring Area (AMA) is clearly described and illustrated in the plans, specifications, and estimates that are prepared to guide project construction.	Project Engineer, County's Consulting Archaeologist, Project Manager, Caltrans PQS	
	All responsible parties, including the County's Consulting Archaeologist and Caltrans PQS, will review the PS&E package. Ensure that SSP's for ESA and AMA are included in the PS&E package.	Project Engineer, Project Manager County's Consulting Archaeologist, Caltrans PQS	
	This ESA Action Plan will be included in the Environmental Commitment Record (ECR) and the RE Pending File.	Project Manager, Project Engineer and Resident Engineer.	

Stage	Task	Responsible party*	Task completed (date and initial)
	The ESA Action Plan will be discussed during the pre-construction meeting. The importance of ESA will be discussed with construction personnel and it will be stressed that no construction activity (including storing or staging of equipment or materials) may occur within the ESA and that workers must remain outside of the ESA at all times. Additionally, construction personnel will be informed of historic preservation laws that protect archaeological sites against any disturbance or removal of artifacts or features.	County's Consulting Archaeologist, Resident Engineer, and Contractor	
	The Resident Engineer will notify the County's Consulting Archaeologist at least one week in advance of construction to ensure the County's Consulting Archaeologist will be available for a field review of ESA location.	County's Consulting Archaeologist and Resident Engineer	
	Field review of ESA locations.	County's Consulting Archaeologist and Resident Engineer	
	Temporary orange plastic fencing will be installed by the contractor along the proposed ESA in the vicinity of the sites at least 72 hours prior to initiating any work. County's Consulting Archaeologist will coordinate this activity with the Resident Engineer, and be present to monitor fence installation.	County's Consulting Archaeologist, Resident Engineer, and Contractor	
During Construction	The Resident Engineer will inspect the construction area on a weekly basis to ensure that ground disturbance is not occurring within the ESA and stay in contact with the County's Consulting Archaeologist regarding fencing integrity and any construction activities taking place within the vicinity of the ESA.	Resident Engineer, County's Consulting Archaeologist	

Stage	Task	Responsible party*	Task completed (date and initial)
	<p>The Resident Engineer and the County’s Consulting Archaeologist will immediately notify Caltrans PQS or the Caltrans Environmental Branch Chief of any ESA breach. The Caltrans PQS shall report all ESA violations to Cultural Studies Office (CSO) within 48 hours. Caltrans Districts shall report ESA violations where properties are impacted in accordance with Stipulation XV.B. Post-Review Discoveries.</p> <p>If the Contractor notices a breach of the ESA fencing, the Contractor will immediately notify the Resident Engineer of the breach.</p>	<p>County’s Consulting Archaeologist, Resident Engineer, Caltrans PQS, Contractor</p>	
<p>Post Construction</p>	<p>The Resident Engineer will inform the County’s Consulting Archaeologist and the Native American Tribes when construction is finished.</p>	<p>Resident Engineer; County’s Consulting Archaeologist</p>	
	<p>The Contractor, monitored by the Resident Engineer, will remove temporary fencing and the physical barriers at the conclusion of construction.</p>	<p>Resident Engineer and Contractor</p>	

**ATTACHMENT A.
MAPS AND FIGURES**