

**Mitigation Monitoring and Reporting Program
Initial Study Application No. 7594
(Including Project Notes)**

Mitigation Measures					
Mitigation Measure No.*	Impact	Mitigation Measure Language	Implementation Responsibility	Monitoring Responsibility	Time Span
1.	Biological Resources	Environmental Awareness Training shall be conducted for every employee before starting work on the project site. The training shall discuss special-status species and sensitive habitat in the area, how to recognize special-status species which might be present on the site, and actions to take in case such species are identified. The training will provide an environmental awareness handout that describes and illustrates sensitive resources to be avoided during project construction.	Applicant	Applicant/PW&P	Ongoing during construction
2.	Biological Resources	Before any ground-disturbing activity occurs within the entire project limits, temporary construction barrier fencing, silt fencing, and/or flagging shall be installed between the work area and environmentally sensitive habitat areas (i.e. waters, riparian habitat, special-status species habitat, and buffers around active bird/raptor nests), as appropriate. Construction personnel and construction activity shall avoid areas outside the fencing. The exact location of the fencing and/or flagging shall be determined by the resident engineer in coordination with a qualified biologist, with the goal of protecting sensitive biological habitat and water quality. The fencing/flagging shall be checked regularly and maintained until all construction is complete. Any required barrier or sediment fencing and a note reflecting this condition shall be shown on the final construction documents.	Applicant	Applicant/PW&P	Prior to ground-disturbing activities
3.	Biological Resources	The following measures shall be implemented within the entire project limits to reduce the spread of invasive species: a. Only certified noxious weed-free erosion control materials shall be used. All stray and seed material shall be certified as weed-free prior to being used at the project site. b. Contractors shall wash all construction equipment prior to bringing it onto the job site. Such equipment shall be inspected to ensure that equipment arrives on site free of mud and seed-bearing material. c. Any reseeded of disturbed soil areas and newly constructed slopes shall use an appropriate native seed mix.	Applicant	Applicant/PW&P	Ongoing during construction

4.	Biological Resources	<p>The following construction practice measures shall be implemented in order to protect wildlife during Project-related construction activities:</p> <ul style="list-style-type: none"> a. All excavated steep-walled holes or trenches more than six inches deep shall be provided with one or more escape ramps constructed of earth fill or wooden planks at the end of each workday. If escape ramps cannot be provided, then holes or trenches shall be covered with plywood or similar materials. b. All construction pipes, culverts, or similar structures with a diameter of 4 inches or greater that are stored within the entire project limits for one or more overnight periods shall be thoroughly inspected for kit fox and other wildlife species before the pipe is subsequently buried, capped, or otherwise used or moved in any way. c. All trenches and pipes shall be thoroughly inspected for the presence of wildlife at the beginning of each workday. Any species observed shall be allowed to voluntarily move outside of the work area on its own. d. All construction equipment and Project-related vehicles and construction equipment shall observe a daytime speed limit of 20 miles per hour throughout the entire project limits. In the event of night-time construction, the speed limit shall be 10 miles per hour. Off-road traffic outside of the designated project limits shall be prohibited. e. All food-related trash items shall be disposed of in securely closed containers and removed from the project area daily. f. Workers shall not be permitted to bring domesticated pets, such as dogs and cats, to the project site to prevent harassment, mortality of kit foxes, or destruction of dens. g. Any wildlife species observed within the entire project limits shall be allowed to voluntarily move outside of the entire project limits on its own. h. Use of rodenticides and herbicides within the entire project limits shall be restricted. If rodent control must be conducted, zinc phosphide will be used because of a proven lower risk to kit fox and other wildlife species. i. No firearms shall be permitted at the project site. 	Applicant	Applicant/PW&P	Ongoing during construction
5.	Biological Resources	<p>A qualified biologist shall conduct pedestrian surveys for the San Joaquin kit fox no less than 14 days but no more than 30 days prior to the start of construction. The entire project limits and a buffer of 200 feet shall be surveyed. The qualified biologist will conduct walking transects surveys that achieve 100 percent visual coverage for signs of special-status wildlife. If an individual or potential den feature is located during the preconstruction survey, the qualified biologist shall immediately notify Caltrans, who in turn will notify the</p>	Applicant	Applicant/PW&P	At least 15 days prior to the start of construction

		US Fish and Wildlife Service and the California Department of Fish and Wildlife, and additional surveys and reporting may be required.			
6.	Biological Resources	A qualified biologist shall conduct a preconstruction clearance survey for western pond turtles within 48 hours prior to any ground disturbance within the entire project limits. Any western pond turtles found shall be allowed to voluntarily move out of the area. If the individual does not move, a qualified biologist will, in coordination with Caltrans and California Department of Fish and Wildlife, assist in removing the turtle. If a western pond turtle nest containing eggs or young is identified within the entire project limits, a qualified biologist will determine an appropriate no-disturbance buffer to ensure avoidance of the nest.	Applicant	Applicant/PW&P	Prior to ground-disturbing activities
7.	Biological Resources	Botanical surveys for California satintail and forked hare-leaf shall be performed during the appropriate bloom period for these species (April-May) within two years of the start of construction. If special-status plants are found within the entire project limits, individual plants shall be fenced off or flagged for avoidance. If the plants cannot be avoided, the topsoil (roughly 3-4 inches of soil where dormant seeds would be present), shall be removed and stockpiled on site. After finished grades generally have been achieved, the stockpiled topsoil will be redistributed within disturbed areas within the entire project limits.	Applicant	Applicant/PW&P	Within two years of the start of construction
8.	Biological Resources	<p>If construction (including equipment staging and tree removal) will occur during the breeding season for migratory birds and raptors (generally between February 15 and September 1), the County shall retain a qualified biologist to conduct a preconstruction nesting bird and raptor survey before the onset of construction activities. The preconstruction nesting bird and raptor survey shall be conducted between February 15 and September 1 within suitable habitat within the entire project limits. Surveys for nesting migratory birds shall be completed within 100 feet of the entire project limits. Surveys for raptor nests should also extend 0.25 mile from the entire project limits to ensure that nesting raptors are not indirectly affected by construction noise. The survey shall be conducted not more than 14 days before the initiation of construction activities. If no active nests are detected during the survey, no additional mitigation is required to address concerns relating to migratory birds and raptors.</p> <p>If migratory birds or raptors are found to be nesting in or adjacent to the entire project limits, a no-disturbance buffer of 100 feet around an active bird nest or 300 feet around an active raptor nest</p>	Applicant	Applicant/PW&P	Within 124 days of the start of construction, between February 15 and September 1

		shall be established to avoid disturbance of the nest area and to avoid take. The buffer shall be maintained around the nest area until the end of the breeding season, or until a qualified biologist determines that the young have fledged and are foraging on their own. The extent of these buffers may be modified, as determined by the biologist (in coordination with Caltrans and CDFW), depending on the species identified, level of noise or construction disturbances, and other topographical or artificial barriers.			
9.	Biological Resources	<p>The following Best Management Practices shall be implemented as part of the Stormwater Pollution Prevention Plan to address potential impacts to the Alta Main Canal:</p> <ol style="list-style-type: none"> a. Sediment fencing, fiber rolls, or other equivalent erosion and sediment control measures shall be installed between the designated work area and the Alta Main Canal, as necessary, to ensure that construction debris and sediment does not inadvertently enter the waterway. Tightly woven fiber netting (no monofilament netting) or similar material shall be used for erosion control or other purposes within the Project work limits to ensure that wildlife is not trapped. b. All exposed soil shall be covered or otherwise stabilized within 48 hours prior to potential precipitation events of greater than 0.5 inch. c. All exposed soil shall be stabilized immediately after bridge construction is complete. Soil stabilization may include, but is not limited to, seeding with a native grass seed mix, planting native plants, and placement of rocks. d. Refueling, storage, servicing, or maintenance of equipment shall be prohibited within 100 feet of the aquatic habitat. e. All machinery used during construction of the proposed Project shall be properly maintained and cleaned to prevent spills and leaks that could contaminate soil or water. f. Any spills or leaks from construction equipment (e.g. fuel, oil, hydraulic fluid, grease, etc.) shall be cleaned up in accordance with applicable local, state, and/or federal regulations. 	Applicant	Applicant/PW&P	Ongoing during Construction
10.	Biological Resources/ Land Use and Planning	<p>The Applicant shall develop an Oak Woodland Management Plan pursuant to County General Plan Policy OS-F.11 Part 1:</p> <ol style="list-style-type: none"> a. Construction shall adhere to the Oak Woodland Management Plan. b. Compensation for impacted Oak Trees shall be at a ratio of 3:1 and replacement trees shall be planted within the Kings River watershed. 	Applicant	Applicant/PW&P	Prior to start of construction

11.	Biological Resources	<p>Where possible, development shall avoid grade changes, trenching, compacting soils, and paving with non-porous materials within the drip-line of protected trees. In addition, grade changes that would cause water to pond within the drip-line of native oaks shall be prohibited.</p> <p>Where encroachment of development into the dripline of a protected tree cannot be avoided, a qualified individual will provide recommendations to minimize adverse effects on those trees. For example, trenching within the protected zone of a protected tree may be permitted using hand tools to avoid root injury, all severed roots shall be cut cleanly, and no roots over 1-inch in diameter shall be cut without approval and oversight.</p>	Applicant	Applicant/PW&P	Ongoing during construction
12.	Cultural Resources/ Tribal Resources	A qualified archaeologist/paleontologist, defined as one meeting the Secretary of the Interior's Professional Qualifications Standards for Archeology (the "Qualified Archaeologist"), shall be on call during any ground-disturbing activity within the entire project limits to evaluate any possible resources uncovered.	Applicant	Applicant/PW&P	Prior to start of ground-disturbing activities
13.	Cultural Resources/ Tribal Resources	The Qualified Archaeologist shall conduct a preconstruction meeting to orient the construction crew to the potential for encountering prehistoric archaeological deposits during construction. This instructional meeting shall include a discussion of the types of artifacts that could be encountered and the steps to take upon discovery to avoid inadvertent impacts to such finds. The tribal monitors may be present at the preconstruction meeting.	Applicant	Applicant/PW&P	Prior to start of construction
14.	Cultural Resources/ Tribal Resources	<p>In the event that unanticipated archaeological resources are encountered during Project activities, compliance with federal and state regulations and guidelines regarding the treatment of cultural resources and/or human remains shall be required, along with implementation of the following mitigation:</p> <ol style="list-style-type: none"> a. All construction activities within 100 feet shall halt and the resident engineer shall be notified. b. The Qualified Archaeologist shall inspect the findings and report the results of the inspection to the Applicant . c. In the event that the identified archaeological resource is determined to be prehistoric, the Applicant and Qualified Archaeologist will coordinate with and solicit input from the appropriate Native American Tribal Representatives, as determined by consultation with the Native American Heritage Commission (NAHC), regarding significance and treatment of the resource as a tribal cultural resource. Any tribal cultural resources discovered during project work shall be treated in consultation with the tribe, with the goal of preserving in place 	Applicant	Applicant/PW&P	Ongoing during construction

		<p>with proper treatment.</p> <p>d. If the County, in consultation with the Qualified Archaeologist and Native American Tribal Representatives, determines that the resource qualifies as a historical resource or a unique archaeological resource (as defined pursuant to CEQA Guidelines) and that the project has potential to damage or destroy the resource, mitigation shall be implemented in accordance with Public Resources Code Section 21083.2 and CEQA Guidelines Section 15126.4. Consistent with CEQA Guidelines Section 15126.4(b)(3), mitigation shall be accomplished through either preservation in place or, if preservation in place is not feasible, data recovery through excavation conducted by a qualified archaeologist implementing a detailed archaeological treatment plan.</p>			
15.	Cultural Resources/ Tribal Resources	<p>If human remains are uncovered during Project activities, the contractor shall immediately halt work. The Applicant shall contact the Fresno County Sheriff-Coroner to evaluate the remains, and follow the procedures and protocols set forth in CEQA Guidelines Section 15064.4 (e)(1). If the County Sheriff-Coroner determines that the remains are Native American in origin, the Native American Heritage Commission (NAHC) will be notified, in accordance with Health and Safety Code Section 7050.5(c) and Public Resources Code Section 5097.98 (as amended by AB 2641). The NAHC shall designate a Most Likely Descendent (MLD) for the remains per Public Resources Code Section 5097.98, and the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located, is not damaged or disturbed by further development activity until the landowner has discussed and conferred, as prescribed in Public Resources Code Section 5097.98, with the MLD regarding their recommendations for the disposition of the remains, taking into account the possibility of multiple human remains.</p>	Applicant	Applicant/PW&P	During ground-disturbing activities.
16.	Hazards and Hazardous Materials	<p>The Applicant shall perform an asbestos survey to determine whether or not the concrete contains asbestos. If asbestos-containing concrete is identified, it shall be treated in accordance with Caltrans' standards for handling of asbestos-containing materials.</p>	Applicant	Applicant/PW&P	Prior to destruction or removal of concrete
17.	Hazards and Hazardous Materials	<p>The Applicant shall perform a lead-based paint survey to determine whether or not the railing paint contains elevated concentrations of lead. If the paint is determined to contain lead, it shall be treated in accordance with Caltrans's standards for handling of lead-based paint.</p>	Applicant	Applicant/PW&P	Prior to destruction or removal of bridge railings

18.	Hazards and Hazardous Materials	The Applicant shall contact the electric company responsible for the transformer and determine if the transformer contains polychlorinated biphenyls. If it does, then it shall be properly disposed of in accordance with rules and regulations.	Applicant	Applicant/PW&P	Prior to removal of the electric transformer
19.	Tribal Cultural Resources	Forty-eight (48) hours prior to any ground-disturbing activities within the entire project limits, such as digging, trenching, or grading, the Applicant shall notify the Santa Rosa Rancheria Tachi Yokut Tribe of the opportunity to have a certified Native American Monitor present during those construction activities. Notification shall be by email to Shana Brum, Cultural Specialist II with the Santa Rosa Rancheria Tachi Yokut Tribe at spowers@tachi-yokut-nsn.gov. The tribal monitors shall be independently insured with policies conforming to County of Fresno requirements in order to enter the construction zone. Notification shall also be provided in the same manner at least 48 hours prior to any preconstruction meetings.	Applicant	Applicant/PW&P	48 hours prior to ground-disturbing activities and pre-construction meetings

*MITIGATION MEASURE – Measure specifically applied to the project to mitigate potential adverse environmental effects identified in the environmental document.

Note	
1.	The “entire project limits” referenced by the Mitigation Measures includes the following: eastern and western approaches to the bridge with sufficient width to include both the current and proposed roadway alignments; potential staging areas; modifications and improvements to the canal banks and maintenance roads to provide access from North Frankwood Ave; current right-of-way for North Frankwood Avenue; proposed North Frankwood Ave right-of-way on two parcels; a third parcel where revised access to the right-of-way will be necessary; the current bridge structure; and the portions of the canal above, below, and between the current and proposed bridges; and downstream of the proposed bridge to the limit of canal grading.

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