

**Auburn-Folsom Road  
Widening Project**

**Mitigation Monitoring and Reporting Program**

State Clearinghouse Number 2002042036

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Mitigation Measure	Timing	Implementing Party
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## Mitigation Monitoring and Reporting Program

Placer County, as the lead agency under the California Environmental Quality Act (CEQA), has developed a mitigation monitoring and reporting program (MMRP) for the Auburn-Folsom Road Widening Project. This MMRP is designed to ensure that the mitigation measures identified in the Environmental Assessment/Environmental Impact Report for the project are implemented.

Table I represents the MMRP. For each mitigation measure, Table I identifies:

- Mitigation Measure,
- Timing of Implementation,
- Implementing Party,
- Monitoring Party, and
- Verification Date and Signature

Placer County is responsible for implementing the measures listed in the MMRP.

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P3.1: Prepare a Traffic Management Plan to Be Implemented during Construction:</b>            To avoid temporary disruption of traffic conditions during construction, the Placer County DPW shall develop and implement a traffic control plan for the project. The plan shall be designed to reduce the effects of construction on the roadway system throughout the construction period. The plan shall include provisions to discourage “cut-through” traffic on local streets. The plan shall also discourage the use of Barton Road as a parallel north-south street and detour traffic to Sierra College Boulevard.</p> <p>As feasible, at least one lane of traffic shall be maintained at all times. Proposed lane closures during the a.m. and p.m. commuting hours (6-9 a.m. and 3-6 p.m.) shall be minimized to the extent feasible. As feasible, pedestrian, equestrian, and bicycle access shall be maintained during construction. Construction areas shall be secured to prevent pedestrians, equestrians and bicyclists from entering the work area.</p> <p>This mitigation measure is common to all alternatives.</p>	<p><b>Before construction:</b> Prepare traffic management plan.</p> <p>During construction:            Implement traffic management plan, including measures to traffic and secure pedestrian areas.</p>	Placer County Department of Public Works (DPW)	Placer County DPW	X_____
<p><b>Mitigation Measure P3.2: Implement Strategies to Alleviate the Need to Widen Douglas Blvd to Six Lanes</b>            To address increased roadway capacity and increased traffic volumes at Douglas Boulevard - Auburn-Folsom Road to Barton Road (LOS E), Placer County DPW will implement strategies as part of the regular transportation planning and traffic engineering functions and alleviate the need to widen Douglas Boulevard to six lanes. The Southeast Placer County Transportation Study recommended alternative strategies to be implemented rather than widening Douglas Boulevard to six lanes. These strategies, endorsed by the Board of Supervisors in December 2000, included:</p> <ul style="list-style-type: none"> <li>• Work with PCTPA, SACOG, and neighboring jurisdictions to address a regional solution to the amount of through traffic in Granite Bay.</li> <li>• Add turn lanes at major intersections along Douglas Boulevard to provide LOS D.</li> <li>▪ Potentially close some median openings along Douglas Boulevard to maintain its ability to carry traffic at higher levels of service.</li> </ul> <p>This mitigation measure is common to all alternatives.</p>	<p><b>After construction:</b>            Implement strategies:</p> <ol style="list-style-type: none"> <li>1. Work with PCTPA, SACOG, and neighboring jurisdictions to address regional solution to amount of traffic in Granite Bay</li> <li>2. Add turn lanes at major intersections along Douglas Boulevard.</li> <li>3. Potentially close some median openings along Douglas Boulevard</li> </ol>	Placer County DPW	Placer County DPW	X_____

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<p><b>Mitigation Measure P3.3a: Increase the Capacity at the Auburn-Folsom Road/Douglas Boulevard Intersection to Operate at an Acceptable LOS in 2020 :</b></p> <p>To address increased the cumulative affects of increased traffic volumes, the County will continue to monitor the LOS at the Auburn-Folsom Road/Douglas Boulevard intersection and construct new improvements as needed.</p> <p>The Board of Supervisors will approve intersection improvements at the Auburn-Folsom Road/Douglas Boulevard intersection that are included in the Capital Improvement Program that is funded by traffic mitigation fees in the Granite Bay area when funds are available and the need exists. The intersection improvements include provision of additional turn lanes as follows:</p> <ul style="list-style-type: none"> <li>▪ a free right-turn lane on the eastbound approach</li> <li>▪ two exclusive left-turn and two exclusive through lanes on the northbound approach</li> </ul> <p>two exclusive left-turn lanes on the eastbound approach</p>	<p><b>After construction:</b> Monitor level of service (LOS) at Auburn-Folsom/Douglas Boulevard intersection; implement intersection improvements as needed.</p>	Placer County DPW	Placer County Board of Supervisors	X_____
<p><b>Mitigation Measure P3.3b: Implement Strategies to Alleviate the Need to Widen Douglas Boulevard to Six Lanes</b></p> <p>To address increased the cumulative affects of increased traffic volumes, Placer County DPW will implement strategies as part of the regular transportation planning and traffic engineering functions and alleviate the need to widen Douglas Boulevard to six lanes.</p> <p><i>The Southeast Placer County Transportation Study</i> recommended alternative strategies to be implemented rather than widening Douglas Boulevard to six lanes. These strategies, endorsed by the Board of Supervisors in December 2000, included:</p> <ul style="list-style-type: none"> <li>▪ Work with PCTPA, SACOG, and neighboring jurisdictions to address a regional solution to the amount of through traffic in Granite Bay</li> <li>▪ Add turn lanes at major intersections along Douglas Boulevard to provide LOS D.</li> <li>▪ Potentially close some median openings along Douglas Boulevard to maintain its ability to carry traffic at higher levels of service</li> </ul> <p>This mitigation measure is common to all alternatives</p>	<p><b>After construction:</b> Implement strategies:</p> <ol style="list-style-type: none"> <li>1. Work with PCTPA, SACOG, and neighboring jurisdictions to address regional solution to amount of traffic in Granite Bay.</li> <li>2. Add turn lanes at major intersections along Douglas Boulevard</li> <li>3. Potentially close some median openings along Douglas Boulevard.</li> </ol>	Placer County DPW	Placer County DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P3.4: Install a Signal at the Auburn-Folsom Road/Lou Place Intersection to Allow Pedestrian/Equestrian Crossing</b>            To reconcile potential inconsistency with equestrian system policies in the Placer County General Plan and the Granite Bay Community Plan, the Placer County DPW will install a signal at the Auburn-Folsom Road/Lou Place intersection to facilitate pedestrian and equestrian movements across Auburn-Folsom Road into Folsom State Recreational Area. In the event that the Granite Bay Community Plan is modified to remove an equestrian trail along Lou Place and a crossing at Auburn-Folsom Road, the Placer County DPW has the option of installing a signal a crossing at Auburn-Folsom Road, the Placer County DPW has the option of installing a signal or not, at its discretion</p> <p>This mitigation measure is common to all alternatives.</p>	<p><b>After construction:</b> Install traffic signal.</p>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X_____</p>
<p><b>Mitigation Measure P3.5: Provide Class II Bikeways</b>            To reconcile potential inconsistency with pedestrian and bicycle system policies contained in the Placer County General Plan and the Granite Bay Community Plan, Placer County DPW shall provide Class II bikeways along Auburn-Folsom Road pursuant to the Placer County Bikeways Master Plan. The location, width, alignment, and surfacing of the bikeways shall be in accordance with the bikeway design standards listed in the Placer County General Plan.</p>	<p><b>After construction:</b> Provide Class II bikeways along Auburn-Folsom Road</p>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X_____</p>
<p><b>Mitigation Measure P4.1: Implement Best Available Mitigation Measures for Construction Activities</b>            To address temporary increases in ROG, NOx, and PM10 emissions during grading and construction activities, Placer County DPW will ensure the following:</p> <ol style="list-style-type: none"> <li>1. Construction equipment exhaust emissions shall not exceed PCAPCD Rule 202 Visible Emission limitations.</li> <li>2 Placer County DPW shall submit to PCAPCD, and receive approval of, a Construction Emission/Dust Control Plan before groundbreaking.</li> <li>3. The prime contractor shall submit to PCAPCD a comprehensive inventory (listing make, model, year, emission rating) of all the heavy-duty off-road equipment (50 horsepower [hp] or greater) that will be used an aggregate of 40 or more hours for the project. PCAPCD personnel, with assistance from ARE, shall conduct initial Visible Emission Evaluations (VEEs) of all heavy-duty equipment on the inventory list.</li> <li>4. Placer County DPW shall establish an enforcement plan to evaluate, on a weekly basis, project-related on- and-off-road heavy-duty vehicle engine emission opacities, using standards defined in 13 CCR 2180-2194. An Environmental Coordinator, ARB-certified to perform VEEs, shall routinely</li> </ol>	<p><b>Before and during construction:</b> Implement best management practices (BMPs), including:</p> <ol style="list-style-type: none"> <li>1. Ensure construction equipment exhaust emissions do not exceed Placer County Air Pollution Control District (PCAPCD) Rule 202 Visible Emission limitations.</li> <li>2. Submit Construction Emission/Dust Control Plan to PCAPCD.</li> <li>3. Submit comprehensive inventory listing of all heavy-duty on-road duty off-road equipment to PCAPCD.</li> </ol>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X_____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature						
<p>evaluate project-related off-road and heavy duty on road equipment emissions for compliance with this requirement. Operators of vehicles and equipment found to exceed opacity limits shall be notified, and the equipment must be repaired within 72 hours of notification.</p> <p>5. Construction contracts shall stipulate that at least 20% of the heavy-duty off-road equipment included in the inventory be powered by ARB-certified off-road engines, as follows:</p> <table data-bbox="178 407 726 496"> <tr> <td>175 hp—750 hp</td> <td>1996 and newer engines</td> </tr> <tr> <td>100 hp—174 hp</td> <td>1997 and newer engines</td> </tr> <tr> <td>50 hp—99 hp</td> <td>1998 and newer engines</td> </tr> </table> <p>In lieu of or in addition to this requirement, Placer County DPW can use other measures to reduce PM 10 and NO emissions from its project through the use of emulsified diesel fuel and/or particulate matter traps. PCAPCD shall be contacted to discuss this measure.</p> <p>6. Placer County DPW shall conduct no open burning of removed vegetation during construction. Vegetative material shall be chipped or delivered to waste-to-energy facilities.</p> <p>7. Placer County DPW shall ensure that earthmoving construction equipment is cleaned with water once per day</p> <p>8. Placer County DPW shall ensure that soil binders are spread on unpaved roads and on employee/equipment parking areas.</p> <p>9. Placer County DPW shall ensure that approved chemical soil stabilizers are applied, according to manufacturers' specifications, to all inactive construction areas (previously graded areas that remain inactive for 96 hours).</p> <p>10. Placer County DPW shall ensure that ground cover is reestablished on the construction site as soon as possible through seeding and watering.</p>	175 hp—750 hp	1996 and newer engines	100 hp—174 hp	1997 and newer engines	50 hp—99 hp	1998 and newer engines	<p>4. Establish enforcement plan to evaluate emission opacities.</p> <p>5. Stipulate that at least 20% of heavy-duty off-road equipment be powered by ARB-certified off-road engines</p> <p>6. Do not conduct open burning of removed vegetation.</p> <p>7. Clean earthmoving equipment once a day.</p> <p>8. Ensure that soil binders are spread on unpaved roads and parking areas.</p> <p>9. Apply approved chemical soil stabilizers to all inactive construction areas.</p> <p>10. Ensure reestablishment of ground cover on construction site.</p>			
175 hp—750 hp	1996 and newer engines									
100 hp—174 hp	1997 and newer engines									
50 hp—99 hp	1998 and newer engines									

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<p><b>Mitigation Measure P5.1: Obtain a Section 402 NPDES Permit and Prepare an Erosion and Sediment Control Plan</b></p> <p>To address temporary degradation of surface water quality during construction, as required by the NPDES General Permit for Discharges of Storm Water Associated with Construction Activities, Placer County DPW shall prepare an erosion and sediment control plan. The plan shall be prepared and approved before construction activities begin. The following measures shall be addressed in the plan.</p> <p>1. I. All graded areas shall be covered with protective materials, such as mulch, or reseeded with adaptive plant species. The plan shall include details regarding seed material, fertilizer, and mulching.</p> <p>2. Protocols for the handling of construction and maintenance materials, such as sanitary wastes and petroleum products, shall be developed to minimize the chance of spill and to provide prompt corrective action should spill occur.</p> <p>3. All graded areas and soil piles shall be mounded to minimize erosion potential.</p> <p>4. Drainage outfalls shall be designed and positioned to avoid erosion. Energy dissipaters shall be installed where necessary.</p> <p>5. Erosion control measures shall include best management practices (BMPs) to minimize water quality impacts; BMPs include filter berm, sandbag, or straw-bale barriers; siltation retention fences; vegetated buffer strips; vegetated swales; and spill containment provisions.</p> <p>6. Temporary sediment catchment basins shall be constructed where necessary to prevent sediment from being transported to permanent detention basins and drainages. The locations and size of the temporary basins shall be shown in the erosion and sediment control plan.</p> <p>7. Grading shall not be permitted after October 15 or before May 1. Grading may be permitted outside of these dates if the Director of DPW determines that such work can be completed before the onset of weather conditions that would prevent the work from being adequately winterized or completed.</p> <p>8. Revegetation shall begin when the graded area has attained finished grade, but not later than October 1 (to ensure germination by October 30).</p>	<p><b>Before construction:</b> Prepare and Erosion and Sediment Control Plan.</p> <p><b>During construction:</b> Implement Erosion and Sediment Control Plan:</p> <ol style="list-style-type: none"> <li>1. Cover all graded areas with protective materials.</li> <li>2. Develop protocols for handling construction and maintenance materials</li> <li>3. Mound all graded areas and soil piles</li> <li>4. Design and position drainage outfalls to minimize erosion.</li> <li>5. Adopt erosion control BMPs.</li> <li>6. Construct temporary sediment catchments where necessary.</li> <li>7. Do not grade after October 15 or before May 1.</li> <li>8. Begin revegetation when graded area has attained finished grade, but no later than October 1.</li> </ol>	Placer County DPW	Placer County DPW	<p>X _____</p> <p>X _____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P5.2: Prepare a Drainage Report</b>            To address the change in soil absorption rates, drainage patterns, and the rate and amount of runoff, Placer County DPW shall prepare a drainage report in conformance with the requirements of Section 5 of the Land Development Manual (LDM) and the Placer County Storm Water Management Manual that are in effect at the time of submittal. The drainage report shall be submitted to the DPW for review and approval. The report shall be prepared by a Registered Civil Engineer and shall, at a minimum, include a written text addressing existing conditions, the effects of the improvements, all appropriate calculations, a watershed map increases in downstream flows, and proposed onsite and offsite improvements and drainage easements to accommodate flows from the project. The report shall address storm drainage during construction and thereafter, and shall propose BMPs to reduce erosion and water quality degradation.</p> <p>The existing culvert at Linda Creek shall be evaluated in the drainage report for condition and capacity and shall be upgraded, replaced, or mitigated as specified by DPW. All stormwater drainage facilities shall be designed in accordance with the requirements of the County Storm Water Management Manual that are in effect at the time of submittal, and to the satisfaction of DPW. These facilities shall be constructed with project improvements and easements provided as required by DPW. Maintenance of these facilities shall be the responsibility of Placer County.</p> <p>PCFCWCD recommends using a minimum design peak flow rate of 510 cfs for the sizing of any proposed culverts at Auburn-Folsom Road. it is PCFCWCD's opinion that increasing the size of the existing culvert to prevent overtopping of the roadway during 100-year storm events would be beneficial to the area.</p> <p>The 1992 Dry Creek Watershed Flood Control Plan based its bridge/culvert replacement recommendations on passing the 100-year peak flow with no freeboard. Based on this, PCFCWCD would accept a culvert design that passes the future 100-year peak flow rate of 510 cfs with minimal freeboard below the proposed roadway.</p> <p>The drainage report will analyze the pre- and post development water surface elevations for 2-, 10-, 25-, and 100-year storm events for future culvert proposals.</p>	<p><b>Before construction:</b>            Prepare drainage report.</p> <p><b>During construction:</b>            Implement identified BMPs.</p>	<p>Registered Civil Engineer</p> <p>Placer County DPW</p>	<p>Placer County DPW</p> <p>Placer County DPW</p>	<p>X_____</p> <p>X_____</p>



Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P5.3: Prepare a Postconstruction Storm Water Pollution Prevention Placer County Placer County Plan</b></p> <p>To address postconstruction degradation of surface water quality; Placer County DPW shall prepare a Storm Water Pollution Prevention Plan (SWPPP). The plan must include BMPs. Proposed BMPs are listed below.</p> <ol style="list-style-type: none"> <li>1. Vegetate swales to minimize and decelerate flows and collect pollutants and suspended sediments.</li> <li>2. Establish and maintain vegetation in swales and drainage ways to achieve an optimal balance of conveyance and water quality protection characteristics.</li> <li>3. Install velocity dissipaters, rip-rap, and/or other appropriate devices to slow runoff, promote deposition of waterborne particles, and reduces the erosion potential of storm flows.</li> </ol>	<p><b>Before construction:</b> Prepare Storm Water Pollution Prevention Plan (SWPPP).</p> <p><b>During construction:</b> Implement BMPs:</p> <ol style="list-style-type: none"> <li>1. Vegetate swales.</li> <li>2. Establish and maintain vegetation in swales and drainageways.</li> <li>3. Install velocity dissipaters, rip-rap, and/or other devices to slow runoff.</li> </ol>	<p>Placer County DPW</p> <p>Placer County DPW</p>	<p>Placer County DPW</p> <p>Placer County DPW</p>	<p>X_____</p> <p>X_____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P6.Ia: Implement Sound Control Requirements</b>            To address the exposure of noise-sensitive land uses (residences and campgrounds) to construction noise, sound control shall conform to the provisions in Section 7-1.011, "Sound Control Requirements," of the Placer County Standard Specifications.</p> <p>The noise level from the contractor's operations and all construction activities, between the hours of 9:00 p.m. and 6:00 a.m., shall not exceed 86 cIbA at a distance of 15 meters (50 feet) from the construction area. This requirement is no way relieves the contractor from responsibility for complying with local ordinances regulating noise level.</p> <p>For blasting and drilling operations, Placer County DPW and its contractors shall limit operations to the period between 6:00 a.m. and 8:00 p.m. Monday through Friday and between 8:00 am. and 6:00 p.m. on Saturdays. No blasting or drilling shall be conducted on Sundays or on federal holidays</p> <p>All equipment shall have sound-control devices no less effective than those provided on the original equipment. No equipment shall have an unmuffled exhaust. As directed by the engineer, the contractor shall implement appropriate additional noise mitigation measures including, but not limited to, shutting off idling equipment and sending additional notifications of adjacent residents.</p> <p>Said noise level requirements shall apply to all equipment on the job or related to the project, including, but not limited to, trucks, transit mixers, and transient equipment that may or may not be owned by the contractor. The use of loud sound signals shall be avoided in favor of light warnings, excepting those required by safety laws for the protection of personnel.</p>	<p><b>During construction:</b>            Implement sound control procedures.</p>	<p>Construction Team</p>	<p>Placer County DPW</p>	<p>X_____</p>
<p><b>Mitigation Measure P6.Ib: Locate Equipment as Far from Noise-Sensitive Receivers as Practicable</b>            To address the exposure of noise-sensitive land uses (residences and campgrounds) to construction noise, Placer County DPW shall locate all stationary noise-generating equipment, such as pumps and generators, as far as possible from nearby noise-sensitive receivers. Where practicable, nearby noise-sensitive receivers shall be shielded from noise-generating equipment using noise-attenuating buffers, such as structures or haul-truck trailers. Stationary noise sources located less than 91 meters (300 feet) from noise-sensitive receivers shall be equipped with noise-reducing engine housings. Portable acoustical barriers shall be placed around noise-generating equipment located within 61 meters (200 feet) of residences. Water tanks and equipment storage, staging, and warm-up areas shall be located as far from noise-sensitive receivers as possible.</p>	<p><b>During construction:</b> Locate equipment far from noise-sensitive receivers.</p>	<p>Construction Team</p>	<p>Placer County DPW</p>	<p>X_____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P6.1c: Use Sound-Control Devices on Combustion-Powered Equipment</b>            To address the exposure of noise-sensitive land uses (residences and campgrounds) to construction noise, Placer County DPW shall ensure that all construction equipment powered by gasoline or diesel engines have sound-control devices at least as effective as those originally provided by the manufacturer. All equipment shall be operated and maintained to minimize noise generation. No equipment shall be permitted to have an unmuffled exhaust</p>	<p><b>During construction:</b> Ensure use of sound-control devices for equipment</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P6.1d: Shield/Shroud Any Impact Tools</b>            To address the exposure of noise-sensitive land uses (residences and campgrounds) to construction noise, any impact tools used during demolition of existing infrastructure shall be shrouded or shielded.</p>	<p><b>During construction:</b> Shield or shroud impact tools.</p>	Construction Team	Placer County DPW	X_____
<p><b>Mitigation Measure P6.1e: Shut Off Machinery when Not in Use</b>            To address the exposure of noise-sensitive land uses (residences and campgrounds) to mobile noise-generating equipment and machinery shall be shut off when not in use.</p>	<p><b>During construction:</b> Turn off mobile noise generating equipment when not in use.</p>	Construction Team	Placer County DPW	X_____
<p><b>Mitigation Measure P6.1f: Use Shortest Traveling Routes, when Practicable</b>            To address the exposure of noise-sensitive land uses (residences and campgrounds) to construction noise, Placer County DPW shall require that construction vehicles accessing the project area use the shortest route possible to and from local freeways provided that the routes do not expose additional receivers to noise.</p>	<p><b>During construction:</b> Use shortest traveling routes.</p>	Construction Team	Placer County DPW	X_____
<p><b>Mitigation Measure P6.1g: Disseminate Essential Information to Residences and Implement a Complaint Response/Tracking Program</b>            To address the exposure of noise-sensitive land uses (residences and campgrounds) to construction noise, Placer County DPW shall send a notification of the construction schedule to people with residences and the operators of Beals Point Campground within 152 meters (500 feet) of the construction area. The notification shall be in writing and shall be delivered before construction. Placer County DPW and the construction contractor shall designate a noise disturbance coordinator, who shall be responsible for responding to complaints about construction noise. The coordinator shall determine the cause of each complaint and shall ensure that reasonable measures are implemented to correct the problem. A contact telephone number for the noise disturbance coordinator shall be posted conspicuously on construction site fences and shall be included in the written notification of the construction schedule sent to nearby residents.</p>	<p><b>Before construction:</b> Deliver construction schedule to area residents</p> <p><b>During construction:</b> Provide contact telephone number for complaints, research problems and ensure reasonable measures to correct problems.</p>	Placer County DPW	Placer County DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation measure P6.1h: Implement Additional Mitigation Measures , as Needed and/or Required</b></p> <p>To address the exposure of noise-sensitive land uses (residences and campgrounds) to construction noise, throughout the construction period, the construction contractor shall implement additional noise mitigation measures at the request of Placer County DPW. Additional measures may include changing the location of stationary noise-generation equipment, shutting off idling equipment, rescheduling construction activities, installing acoustical barriers around stationary sources of construction noise, temporarily relocating residents where feasible, using alternative equipment or construction methods that produce less noise, or other site-specific measures as appropriate.</p>	<p><b>During construction:</b> Implement additional noise mitigation measurements.</p>	<p>Construction Team</p>	<p>Placer County DPW</p>	<p>X_____</p>
<p><b>Mitigation Measure P6.2: Employ Measures to Reduce Airblast and Vibration from Blasting</b></p> <p>To address the exposure of residences and campgrounds to airblast and vibration from blasting, the project contractor shall retain a qualified blasting specialist to develop a site-specific blasting program report to assess, control, and monitor airblast and ground vibration from blasting. The report shall be reviewed and approved by Placer County DPW before issuance of a blasting permit. The report shall include, at minimum following measures.</p> <p>1. The contractor shall use current state-of-the-art technology to keep blast-related vibration at offsite residential and other occupied structures as low as possible, consistent with blasting safety. In no instance shall blast vibration, measured on the ground adjacent to a residential or other occupied structure, be allowed to exceed the frequency-dependent limits specified in the Alternative Blasting Level Criteria contained in U.S. Bureau of Mines (USBM) Report of Investigations 8507.</p> <p>2. The project contractor shall use current state-of-the-art technology to keep airblast at offsite residential and other occupied structures as low as possible. In no instance shall airblast, measured at a residence or other occupied structure, be allowed to exceed the 0.013-pounds per square inch (psi) (133-dB) Limit recommended in USBM Report of Investigations 8485.</p> <p>3. The project contractor shall monitor and record airblast and vibration for blasts within 305 meters (1,000 feet) of residences and other occupied structures to verify that measured levels are within the recommended limits at those locations. The contractor shall use blasting seismographs containing three channels that record in thee mutually perpendicular axes and which have a fourth channel for recording airblast. The frequency response of the instrumentation shall be from 2 to 250 Hertz (Hz), with a minimum sampling rate of 1,000 samples per second</p>	<p><b>Before construction:</b> Develop blasting program report.</p> <p><b>During construction:</b> Implement measures recommended by the report.</p>	<p>Blasting Specialist</p> <p>Construction Team</p>	<p>Placer County DPW</p> <p>Placer County DPW</p>	<p>X_____</p> <p>X_____</p>

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<p>per channel. The recorded data must be such that the frequency of the vibrations can be determined readily. if blasting is found to exceed specified levels, blasting shall cease, and alternative blasting or excavation methods shall be employed that result in the specified levels not being exceeded.</p> <p>Airblast and vibration monitoring shall take place at the nearest offsite residential or other occupied structure. If vibration levels are expected to be lower than those required to trigger the seismograph at that location, or if permission cannot be obtained to record at that location, recording shall be accomplished at some closer site in line with the structure. Specific locations and distances where airblast and vibration are measured shall be documented in detail along with measured airblasts and vibration amplitudes.</p>				
<p><b>Mitigation Measure P6.3: Use Noise-Reducing Pavement</b> To address exposure of noise-sensitive land uses (residences and campgrounds) to increased traffic noise levels, Placer County DPW shall place noise-reducing open-graded asphalt pavement or equivalent throughout the project area. Placer County DPW shall consult staff from Sacramento County and Caltrans to identify the formulation specifications for the open-graded asphalt that are most effective in reducing traffic noise. The pavement type selected shall have a minimum sound reduction capacity of 3 dB, based on long-term weathered conditions.</p>	<p><b>During construction:</b> Place noise-reducing open-graded asphalt pavement throughout project area</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P7.1a: Preserve Existing Trail Access Points in Project Design</b> To reconcile potential inconsistencies with local goals and policies, Placer County DPW shall ensure that any existing trailheads within the construction corridor are preserved or reconstructed after the project is complete.</p>	<p><b>During construction:</b> Preserve existing trailheads.</p> <p><b>After construction:</b> Reconstruct trailheads as needed</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P7.1b: Provide Class II Bikeway</b> To reconcile potential inconsistencies with local goals and policies, Placer County DPW shall provide a Class II bikeway along Auburn-Folsom Road pursuant to the Placer County Bikeways Master Plan. The location, width, alignment, and surfacing of the bikeway shall be in accordance with the bikeway design standards listed in the Placer County General Plan.</p>	<p><b>After construction:</b> Provide a Class II bikeway along the Auburn-Folsom Road.</p>	Placer County DPW	Placer County DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P7.1c: Revegetate All Disturbed Areas</b>            To reconcile potential inconsistencies with local goals and policies, Placer County DPW or an approved contractor shall revegetate all disturbed areas. Revegetation undertaken between April 1 and October 1 shall include regular watering to ensure adequate growth. A winterization plan shall be provided with project improvement Plans. It is Placer County DPW’s responsibility to ensure proper installation and maintenance of erosion control/winterization during project construction. Placer County DPW shall provide for erosion control where roadside drainage is off of the pavement.</p> <p>Placer County DPW shall maintain a letter of credit, surety bond, or cash deposit in the amount of 100% of an approved engineer’s estimate for winterization and permanent erosion control work before Improvement Plan approval to guarantee protection against erosion and improper grading practices.</p>	<p><b>After construction:</b>            Revegetate disturbed areas.</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P7.3a: Select Street Lights to Minimize Exposure to Glare and Light</b>            To address increases in glare, streetlight(s), designed in accordance with the <i>American National Standard Practice for Roadway Lighting Manual</i>, shall be provided and installed to the satisfaction of Placer County DPW and PG&amp;E at intersections along the project corridor, as needed.</p> <p>Streetlights shall be of a type, height, and design to direct lighting downward, shielding, to the greatest extent practical, light exposure beyond that needed for proper intersection lighting.</p>	<p><b>During construction:</b> Provide and use streetlights designed to minimize excess glare/nighttime lighting</p>	Construction team	Placer County PWD	X_____
<p><b>Mitigation Measure P7.3b: Construct Fence between Affected Residences and Roadway</b> To address potential degradation of views and increases in glare, Placer County DPW shall construct a solid fence between the new roadway and the two affected residences. The fence shall be constructed of a solid, opaque material that is visually cohesive with the surrounding structures and landscape. The fence shall be high enough to block direct headlight glare.</p>	<p><b>During construction:</b>            Construct a solid fence between the new roadway and affected residences.</p>	Construction team	Placer County PWD	X_____
<p><b>Mitigation Measure P7.4a: Obtain a Tree Permit</b>            To address the potential degradation of visual quality resulting from tree removal, before any construction activity, including grading or other site disturbance, Placer County DPW shall acquire a Tree Permit for the removal of trees 15 centimeters (6 inches) dbh or larger and multitrunked d trees with an aggregate diameter of 30 centimeters (10 inches) dbh or more.</p>	<p><b>Before construction:</b> Acquire Tree Permit.</p>	Placer County DPW	Placer County DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P7.4b: Mitigate Tree Removal</b>            To address the potential degradation of visual quality resulting from tree removal, trees identified for removal and trees with disturbance within their driplines shall be replaced along the corridor as feasible</p> <p>Trees removed from Reclamation property shall be replaced on Reclamation property on an inch-by-inch basis. For example, if 254 centimeters (100 inches) of tree diameter are proposed to be removed, the replacement trees shall be equal to 254 centimeters (100 inches) in diameter (aggregate). If feasible, seedlings should be from acorns collected within 30 miles of the project location in Placer or Sacramento Counties in the American River watershed and between the elevations of 100 and 800 feet. A 3-year monitoring and maintenance plan for the trees and any irrigation shall be required. The expectation is that there will be 100% survival for the replacement trees at the end of 3 years.</p> <p>In lieu of 50% of the mitigation for tree removal that is not on Reclamation property, a contribution to the Placer County Tree Preservation Fund shall be required. The value is based on 50% of the overall replacement estimate, which shall be submitted to the Placer County Development Review Committee (DRC) for review and approval.</p> <p>The trees shall be installed by the contractor and inspected and approved by Placer County DPW before completion of the project. At its discretion, the DRC may establish an alternate deadline for installation of replacement trees if weather or other circumstances prevent the completion of this requirement before completion of the project.</p> <p>For native trees removed from private lands, Placer County DPW may either replace the trees on the private lands with one 15-gallon native tree for each tree removed or contribute money into the Placer County Tree Preservation Fund.</p>	<p><b>After construction:</b> Replace trees removed or disturbed during construction</p>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X_____</p>
<p><b>Mitigation Measure P7.4c: Revegetate and Restore All Disturbed Areas to Minimize Visual Quality Impacts and Provide Screening</b>            To address the potential degradation of visual quality resulting from tree removal, Placer County DPW or an approved contractor shall revegetate and restore all disturbed areas, Revegetation undertaken between April 1 and October 1 shall include regular watering to ensure adequate growth. Restoration of trees and shrubs shall provide the screening for affected properties Revegetation of disturbed areas shall be consistent with the surrounding area.</p> <p>The County DPW shall prepare a restoration and revegetation plan for the trees and vegetation removed from Reclamation property. This plan shall address the</p>	<p><b>Before construction:</b> Prepare a restoration and revegetation plan.</p> <p><b>After construction:</b> Revegetate and restore disturbed areas.</p>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X_____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
mitigation of the removal of oaks and other trees from Reclamation property. The plan shall be prepared in consultation with Reclamation and shall provide screening to mitigate the increased visibility of the roadway from recreation facilities (campgrounds and trails).				
<p><b>Mitigation Measure P7.5: Enhance Aesthetics of Retaining Walls, Soundwalls, and Other - Structural Elements</b>  To address the potential degradation of visual quality resulting from cuts) grading, and other changes in topography, Placer County DPW shall design and construct the visible surfaces of vertical, linear structural elements, including all retaining walls and sound walls, to maximize aesthetic appearance and to achieve visual unity with the existing landscape character. The design shall be unified with the existing landscape in terms of color, proportion, texture, and material types and finishes. Design features that may be used to achieve enhanced aesthetics include:</p> <ol style="list-style-type: none"> <li>I. horizontal and vertical articulation of linear features to visually break up large masses (e.g., terracing sections of retaining walls or offsetting sections of soundwalls);</li> <li>2. use of rough-textured surfaces to minimize glare, reduce potential for graffiti, and blend with the rugged appearance of the natural vegetation and rock outcrops;</li> <li>3. use of native vegetation incorporated into retaining walls and as a screen for other structural elements;</li> <li>4. use of warm, earthy hues; and</li> <li>5. consistent architectural detailing among all structural elements to unify the roadway corridor.</li> </ol>	<p><b>Before construction:</b> Design all visible surfaces of vertical and linear elements to be aesthetically pleasing.</p> <p><b>During construction:</b> Implement design strategies.</p>	<p>Placer County DPW</p> <p>Placer County DPW</p>	<p>Placer County DPW</p> <p>Placer County DPW</p>	<p>X _____</p> <p>X _____</p>
<p><b>Mitigation Measure P8.1a: Obtain a Section 404 Permit from the Corps</b>  To address potential disturbance or loss of waters of the United States, Placer County DPW will obtain a Clean Water Act Section 404 permit from the Corps before beginning any grading, clearing, or excavation. The project is subject to review and approval by the Corps.</p>	<p><b>Before construction:</b> Obtain a Clean Water Act Section 404 permit.</p>	<p>Placer County DPW</p>	<p>Corps</p>	<p>X _____</p>
<p><b>Mitigation Measure P8.1b: Obtain a Section 401 Water Quality Certification or Waiver from the Central Valley RWQCB</b>  To address potential disturbance or loss of waters of the United States, Placer County DPW will obtain a Clean Water Act Section 401 certificate or waiver from the RWQCB before beginning any grading, clearing, or excavation. As a condition of the Section 404 permit, the project is subject to review and approval by the Central Valley RWQCB.</p>	<p><b>Before construction:</b> Obtain a Clean Water Act Section 401 certification or waiver.</p>	<p>Placer County DPW</p>	<p>Corps</p>	<p>X _____</p>



Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P8.lc: Obtain a Section 1602 Streambed Alteration Agreement from DFG</b> To address potential disturbance or loss of waters of the United States, Placer County DPW will obtain a streambed alteration agreement from DFG before beginning any grading, clearing, or excavation. The project is subject to review by DFG.</p>	<p><b>Before construction:</b> Obtain a streambed alteration agreement from the California Department of Fish and Game (DFG).</p>	Placer County DPW	DFG	X_____
<p><b>Mitigation Measure P8.ld: Pay Appropriate Environmental Document Review Fee</b> To address potential disturbance or loss of waters of the United States, Placer County DPW will pay the appropriate environmental document fees to DFG. Pursuant to Section 21089(b) of the California Public Resources Code and Section 711.4 et seq. of the California Fish and Game Code, the approval of this project shall not be considered final unless the specified fees are paid to DFG. The fees currently required are \$880 for projects with environmental impact reports and \$1,280 for projects with negative declarations; however, the actual fee paid will be that in effect at the time payment occurs. Without the appropriate fee, the Notice of Determination (which the County is required to file within 5 days of project approval) is not operative, vested, or final, and shall not be accepted by the County Clerk.</p>	<p><b>Before construction:</b> Pay appropriate environmental document review fee to DFG.</p>	Placer County DPW	DFG	X_____
<p><b>Mitigation Measure P8.le: Install Temporary Construction Fencing to Protect Wetlands</b> To address potential disturbance or loss of waters of the United States, Placer County DPW shall install a 1.2-meter-tall (4-foot-tall), brightly colored (usually yellow or orange), synthetic mesh-material fence (or an equivalent approved by the Development Review Committee [DRC]) at the following location before allowing any construction equipment to be moved onto the site and before any construction activities take place.</p> <p>I. Adjacent to any and all wetlands, drainages, and creeks that are within 15.2 meters (50 feet) of any proposed construction activity</p> <p>No construction activities, including grading, shall be allowed until this condition is satisfied. Any encroachment within wetland areas must first be approved by the DRC. No grading, clearing, or storage of equipment or machinery, or similar activity, may occur until a representative of the DRC has inspected and approved all temporary construction fencing. This restriction applies to both onsite and offsite improvements. The temporary fencing shall be maintained until all construction activities are complete. No grading, trenching, or movement of construction equipment shall be allowed within fenced areas.</p>	<p><b>Before construction:</b> Install temporary construction fencing to protect wetlands.</p>	Placer County DPW	Placer County DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P8.1f: Avoid and Minimize Disturbance of Waters of the United States, Including Wetlands</b></p> <p>To address potential disturbance or loss of waters of the United States, to the extent possible, Placer County DPW shall avoid and minimize impacts on waters of the United States (including wetlands) by implementing the following measures.</p> <ol style="list-style-type: none"> <li>1. Redesign or modify the project to avoid direct and indirect impacts on wetlands and streams, if feasible.</li> <li>2. Avoid construction activities in saturated or ponded wetlands and streams during the wet season (spring and winter) to the maximum extent possible. Where such activities are unavoidable, protective practices, such as use of padding or vehicles with balloon tires, shall be employed.</li> <li>3. Where determined necessary by resource specialists, use geotextile cushions and other materials (e.g., timber pads, prefabricated equipment pads, geotextile fabric) in saturated conditions to minimize damage to the substrate and vegetation.</li> <li>4. Stabilize exposed slopes and streambanks immediately upon completion of construction activities. Other waters of the United States shall be restored in a manner that encourages vegetation to reestablish to its preproject condition and reduces the effects of erosion on the drainage system.</li> <li>5. In highly erodible stream systems, stabilize banks using a nonvegetative material that will bind the soil initially and break down within a few years. If the project engineers determine that more aggressive erosion control treatments are needed, use geotextile mats, excelsior blankets, or other soil stabilization products.</li> <li>6. During construction, remove trees, shrubs, debris, or soils that are inadvertently deposited below the ordinary high-water mark of streams in a manner that minimizes disturbance of the drainage bed and bank.</li> <li>7. In-stream construction within the ordinary high-water mark of Linda Creek shall be restricted to the low-flow period of April through October.</li> <li>8. All activities shall be completed promptly to minimize their duration and resultant impacts.</li> </ol> <p>These measures shall be incorporated into contract specifications and implemented by the construction contractor.</p>	<p><b>During construction:</b> Minimize disturbance of waters of the United States by implementing BMPs.</p>	<p>Construction Team</p>	<p>Placer County DPW</p>	<p>X_____</p>
<p><b>Mitigation Measure P8.1g: Confine Construction Equipment and Associated Activities to the Designated Work Zone in Areas That Support Wetland Resources</b></p> <p>To address potential disturbance or loss of waters of the United States, construction equipment shall be confined to a designated work zone (that</p>	<p><b>During construction:</b> Confine construction equipment and associated activities to designated work zones</p>	<p>Construction team</p>	<p>Placer Count DPW</p>	<p>X_____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p>includes access roads) along the project corridor. Before construction begins, the work zone shall be clearly staked and flagged. During construction, construction monitors and resource monitors shall ensure that construction equipment and associated activities avoid disturbing sensitive resources outside the designated work zones.</p>				
<p><b>Mitigation Measure P8.lh: Compensate for the Loss of Waters of the United States</b>  To address potential disturbance or loss of waters of the United States, if waters of the United States (including wetlands) are filled as part of the project, Placer County DPW shall compensate for permanent impacts to ensure no net loss of habitat functions and values. The compensation shall be provided at a minimum ratio of 2:1 (2 acres restored or created for every 1 acre filled) and may be a combination of onsite restoration/creation, offsite restoration, or mitigation credits. Compensation ratios shall be based on site-specific information and determined through coordination with state and federal agencies, as part of the permitting process for the project. Compensation options are presented below; however, any wetlands affected on Reclamation land must be restored on Reclamation land.</p> <p>1. Purchase mitigation bank credits at a USE WS-approved ecosystem preservation bank. Wildland’s Sheridan Ranch Conservation Bank in Placer County ranges from \$44,000/acre for wetland mitigation. Before approval of the Improvement Plans, Placer County DPW shall provide written evidence to the DRC that compensatory habitat has been established through the purchase of mitigation credits. The amount to be paid shall be the fee that is in effect at the time the fee is paid. The estimated fee per alternative is as follows.</p> <p>Alternative 1: Widen Roadway to the West \$7,392</p> <p>Alternative 2: Widen Roadway to the East \$8,360</p> <p>Alternative 3: Widen Roadway Equally on Both Sides \$6,600</p> <p>Alternative 4: County DPW—Preferred Alternative \$8,800  OR</p> <p>2. Contribute funds, equal to the amount needed to purchase mitigation bank credits, to restoration of wetlands and other waters in the Folsom Lake SRA, American River corridor, or other nearby lands that are publicly managed and will be protected in perpetuity. Placer County DPW shall coordinate with appropriate individuals to determine whether there is a potential to create, restore,</p>	<p><b>After construction:</b>  Compensate for loss of waters of the United States.</p>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X _____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p>or enhance waters of the United States at nearby preserved lands.</p> <p style="text-align: center;">OR</p> <p>3. Develop a wetland restoration plan that involves creating or enhancing wetland habitat on site or next to the project area. Potential creation and enhancement sites shall be evaluated by the County and Reclamation to determine whether this is a feasible option. If Placer County DPW determines that onsite or offsite restoration is possible, a restoration plan will be developed that describes where and when restoration will occur and who will be responsible for developing, implementing, and monitoring the restoration plan. When this option is selected, restoration will be selected in an appropriate area in close proximity to the project area.</p>				

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P8.2a: Install Temporary Construction Fencing to Protect Trees</b></p> <p>To address the potential loss or disturbance of valley foothill riparian forest, Placer County DPW shall install a 1.2-meter-tall (4-foot-tall), brightly colored (usually yellow or orange), synthetic mesh—material fence (or an equivalent approved by the DRC) at the following location before allowing any construction equipment to be moved onto the site and before any construction activities take place.</p> <p>1. At the limits of construction, outside the dripline of all trees that are 15.2 centimeters (6 inches) dbh (diameter at breast height), or 25.4 centimeters (10 inches) dbh aggregate for multitrunk trees, within 15.2 meters (50 feet) of any grading, road improvements, underground utilities, or other development activity, or as otherwise shown on the site plan. All trees that are to be saved shall be fenced.</p> <p>No construction activity, including grading, shall be allowed until this condition is satisfied. Any encroachment within these areas, such as within the driplines of trees to be saved, must first be approved by the DRC. No grading, clearing, or storage of equipment or machinery, or similar activity, may occur until a representative of the ORC has inspected and approved all temporary construction fencing. The temporary fencing shall be maintained until all construction activities are complete. No grading, trenching, or movement of construction equipment shall be allowed within fenced areas.</p> <p>Protection for native trees on slopes shall include installation of a silt fence. A silt fence shall be installed at the upslope base of the protective fence to prevent soil from drifting down over the root zone.</p> <p>Efforts shall be made to save trees where feasible. These efforts may include the use of retaining walls or other techniques commonly associated with tree preservation.</p> <p>The temporary construction fencing and a note reflecting this condition shall be shown on the Improvement Plans.</p>	<p><b>Before construction:</b> Install temporary construction fencing to protect trees.</p>	<p>Construction team</p>	<p>Placer County PWD</p>	<p>X_____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P8.2b: Compensate for Permanent Impacts on Riparian Communities</b></p> <p>To address the potential loss or disturbance of valley foothill riparian forest, Placer County DPW shall compensate for permanent impacts on riparian communities by implementing one or a combination of the following options. The compensation shall be provided at a minimum ratio of 2:1 (2 acres restored or created for every 1 acre filled) and may be a combination of onsite restoration/creation, offsite restoration, or mitigation credits. Compensation ratios shall be based on site-specific information and determined through coordination with state and federal agencies, as part of the permitting process for the project. Compensation options are presented below; however, any riparian communities affected on Reclamation land must be restored on Reclamation land.</p> <p>1. Purchase mitigation bank credits at a locally approved bank. Wildland’ s Sheridan Ranch Conservation Bank in Placer County ranges from \$49,000/acre for riparian mitigation. Before approval of the Improvement Plans, Placer County DPW shall provide written evidence to the DRC that compensatory habitat has been established through the purchase of mitigation credits. The amount to be paid shall be the fee that is in effect at the time the fee is paid. The estimated fee per alternative is as follows.</p> <p>Alternative 1: Widen Roadway to the West \$4,900</p> <p>Alternative 2: Widen Roadway to the East \$10,780</p> <p>Alternative 3: Widen Roadway Equally on Both Sides \$6,860</p> <p>Alternative 4: County DPW—Preferred Alternative \$9,800</p> <p style="text-align: center;">OR</p> <p>2. Contribute funds for riparian restoration activities in the Folsom Lake SRA, American River corridor, or other public lands. Placer County DPW shall contact appropriate individuals to determine whether there is a potential to create, restore, or enhance riparian habitat within these preserves.</p> <p style="text-align: center;">OR</p> <p>3. Develop a riparian restoration plan that involves creating or enhancing riparian habitat in the project area. Potential creation and enhancement sites shall be evaluated by the County and Reclamation to determine whether this is a feasible option. If Placer County DPW determines that onsite or offsite restoration is possible, a restoration plan will be developed that describes where and when restoration will occur and who will be responsible for developing, implementing, and monitoring the restoration plan.</p>	<p><b>After construction:</b> Compensate for permanent impacts by implementing one or more of the following options:</p> <ol style="list-style-type: none"> <li>1. Purchase mitigation bank credits.</li> <li>2. Contribute thuds for riparian restoration activities</li> <li>3. Develop a riparian restoration plan.</li> </ol>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X_____</p>



Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P8.2d: Avoid and Minimize Disturbance of Riparian Communities</b></p> <p>To address the potential loss or disturbance of valley foothill riparian forest, to the extent possible, Placer County DPW shall avoid impacts on riparian communities by implementing the following measures.</p> <ol style="list-style-type: none"> <li>1. Redesign or modify the project to avoid direct and indirect impacts on riparian habitats, if feasible.</li> <li>2. Protect riparian habitats that are located near the project area by installing temporary construction fencing to protect the riparian vegetation. Depending on site-specific conditions, this buffer may be narrower or wider than 6 meters (20 feet). The locations of the fencing shall be marked in the field with stakes and flagging and shown on the construction drawings. The construction specifications shall contain clear language that prohibits construction-related activities, vehicle operation, material and equipment storage, and other surface-disturbing activities within the fenced environmentally sensitive areas.</li> <li>3. Minimize the potential for long-term loss of riparian vegetation by trimming vegetation rather than removing the entire shrub. Shrubs that need to be trimmed shall be cut at least 0.3 meter (1 foot) above ground level to leave the root systems intact and allow for more rapid regeneration. Cutting shall be limited to the minimum area necessary within the construction zone. Cutting shall be allowed only for shrubs (all trees shall be avoided) in areas that do not provide habitat for sensitive species. To protect nesting birds, Reclamation does not allow pruning or removal of woody riparian vegetation from March 15 to July 31.</li> <li>4. Require the contractor to perform any necessary pruning, including pruning for utility line clearance, using the “Pruning Guidelines” adopted by the California Department of Forestry and Fire Protection.</li> <li>5. Inspect the areas that undergo vegetative pruning and tree removal immediately before construction, immediately after construction, and 1 year after construction to determine the amount of existing vegetative cover, cover that has been removed, and cover that resprouts. If, after 1 year, these areas have not resprouted sufficiently to return the cover to the preproject level, the contractor will be responsible for replanting the areas with the same species to reestablish the cover to the preproject condition.</li> </ol>	<p><b>Before construction:</b> inspect areas that will undergo pruning.</p> <p><b>During construction:</b></p> <ol style="list-style-type: none"> <li>1. Redesign or modify the project to avoid impacts.</li> <li>2. Install construction fencing around habitat.</li> <li>3. Trim vegetation rather than remove entire shrub.</li> <li>4. Use “Pruning Guidelines” adopted by California Department of Forest and Fire Protection. Immediately after construction: Inspect areas that underwent vegetative pruning and tree removal.</li> </ol> <p><b>1 year after construction:</b> Inspect area that underwent vegetative pruning and tree removal; replant areas with same species if sufficient cover has not grown back.</p>	<p>Construction team or contractor</p> <p>Placer County DPW or identified contractor</p>	<p>Placer County DPW</p> <p>Placer County DPW</p>	<p>X_____</p> <p>X_____</p>



Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P8.3a: Obtain a Tree Permit</b> To address the loss or disturbance of blue oak-digger pine woodland and native trees, Placer County DPW shall acquire a Tree Permit for the removal of trees 15 centimeters (6 inches) dbh or larger and multi-trunked trees with an aggregate diameter of 30 centimeters (10 inches) dbh or more.</p>	<p><b>Before construction:</b> Require a Tree Permit before the removal of any trees 15 centimeters in diameter at breast height or larger.</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P8.3b: Mitigate Tree Removal</b> To address the loss or disturbance of blue oak-digger pine woodland and native trees, trees identified for removal and trees with disturbance within their driplines shall be replaced along the corridor as feasible.</p> <p>1. Trees removed from Reclamation property shall be replaced on Reclamation property on an inch-by-inch basis. For example, if 254 centimeters (100 inches) of tree diameter are proposed to be removed, the replacement trees shall be equal to 254 centimeters (100 inches) in diameter (aggregate). if feasible, seedlings should be from acorns collected within 30 miles of the project location in Placer or Sacramento Counties in the American River watershed and between the elevations of 100 and 800 feet. A 3-year monitoring and maintenance plan for the trees and any irrigation shall be required. The expectation is that there will be 100% survival for the replacement trees at the end of 3 years. Tree replacement on Reclamation property shall take place in close proximity to the project corridor.</p> <p>2. In lieu of 50% of the mitigation for tree removal that is not on Reclamation property, a contribution to the Placer County Tree Preservation Fund shall be required. The value is based on 50% of the overall replacement estimate, which shall be submitted to the Placer County Development Review Committee (DRC) for review and approval.</p> <p>3. The trees shall be installed by the contractor and inspected and approved by Placer County DPW before completion of the project. At its discretion, the DRC may establish an alternate deadline for installation of replacement trees if weather or other circumstances prevent the completion of this requirement before completion of the project.</p> <p>4. For native trees removed from private lands, Placer County DPW may either:</p> <ul style="list-style-type: none"> <li>o replace the trees on the private lands with one 15-gallon native tree for each tree removed or</li> <li>o contribute money into the Placer County Tree Preservation Fund Mitigation</li> </ul>	<p><b>After construction:</b> Mitigate tree removal by:</p> <ol style="list-style-type: none"> <li>1. Replacing trees removed during construction.</li> <li>2. Contributing to the Placer County Tree Preservation Fund.</li> <li>3. Inspecting tree replacement.</li> </ol>	Construction team or contractor	Placer County DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Measure P8.3c: Revegetate All Disturbed Areas</b>            To address the loss or disturbance of blue oak-digger pine woodland and native trees, Placer DPW DPW County DPW or an approved contractor shall revegetate all disturbed areas. Revegetation undertaken between April 1 and October 1 shall include regular watering to ensure adequate growth, A winterization plan shall be provided with project Improvement Plans. It is Placer County DPW’s responsibility to ensure proper installation and maintenance of erosion control/winterization during project construction. Placer County DPW shall provide for erosion control where roadside drainage is off of the pavement.</p> <p>Placer County DPW shall maintain a letter of credit, surety bond, or cash deposit in the amount of 100% of an approved engineer’s estimate for winterization and permanent erosion control work before Improvement Plan approval to guarantee protection against erosion and improper grading practices.</p>	<p><b>After construction:</b>            Revegetate all disturbed areas</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P8.3d: Install Temporary Construction Fencing to Protect Trees</b>            To address the loss or disturbance of blue oak-digger pine woodland and native trees, Placer DPW shall install a 1.2-meter-tall (4-foot-tall), brightly colored (usually yellow or orange), synthetic mesh—material fence (or an equivalent approved by the DRC) at the following location before allowing any construction equipment to be moved onto the site and before any construction activities take place.</p> <p>1. At the limits of construction, outside the dripline of all trees that are 15.2 centimeters (6 inches) dbh (diameter at breast height), or 25.4 centimeters (10 inches) dbh aggregate for multitrunk trees, within 15.2 meters (50 feet) of any grading, road improvements, underground utilities, or other development activity, or as otherwise shown on the site plan. All trees that are to be saved shall be fenced.</p> <p>No construction activity, including grading, shall be allowed until this condition is satisfied. Any encroachment within these areas, such as within the driplines of trees to be saved, must first be approved by the DRC No grading, clearing, or storage of equipment or machinery, or similar activity, may occur until a representative of the DRC has inspected and approved all temporary construction fencing. The temporary fencing shall be maintained until all construction activities are complete. No grading, trenching, or movement of construction equipment shall be allowed within fenced areas.</p> <p>Protection for native trees on slopes shall include installation of a silt fence. A silt</p>	<p><b>Before construction;</b> Install temporary construction fencing</p>	Construction Team	Placer county DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p>fence shall be installed at the upslope base of the protective fence to prevent soil from drifting down over the root zone. Efforts shall be made to save trees where feasible. These efforts may include the use of retaining walls or other techniques commonly associated with tree preservation. The temporary construction fencing and a note reflecting this condition shall be shown on the Improvement Plans.</p>				
<p><b>Mitigation Measure P8.3e: Update the Tree Survey Report for the Selected Alternative</b></p> <p>To address the loss or disturbance of blue oak-digger pine woodland and native trees, Placer County DPW shall provide the DRC with an updated tree survey report (by an ISA-Certified Arborist) depicting the exact locations of the following:</p> <ol style="list-style-type: none"> <li>1. trees that are 15.2 centimeters (6 inches) dbh (diameter at breast height) or larger and that grow within 15.2 meters (50 feet) of any grading, road improvements, underground utilities, or other activities;</li> <li>2. multitrunk trees that are 25.4 centimeters (10 inches) dbh or more (aggregate) and that grow within 112 meters (50 feet) of any grading, road improvements, underground utilities, or other activities;</li> <li>3. trees that are 45.7 centimeters (18 inches) dbh or larger and that are located along the roadway corridor; and</li> <li>4. trees that would be disturbed by offsite improvements (e.g., road improvements, underground utilities).</li> </ol> <p>The tree survey report shall list the sizes (diameter at 1.2 meters [4 feet] above the ground), species of trees, spot elevations, and approximate driplines. The report also shall identify the trees to be saved, without disturbance, and those to be removed. The locations of trees to be saved and those to be removed shall be shown on the survey map and superimposed over the grading plan. This map also shall show all proposed improvements, including any underground utilities. The survey report shall be reviewed and approved by the DRC before any development activity on site, including preliminary clearing or grading.</p>	<p><b>Before construction:</b> Complete a Placer County tree survey report identifying DPW trees to be saved, undisturbed, and removed.</p> <p><b>During construction:</b> Follow guidelines of the survey report.</p>	<p>Placer County DPW</p> <p>Construction team or contractor</p>	<p>Placer County DPW</p> <p>Placer County DPW</p>	<p>X _____</p> <p>X _____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P8.4a: Complete Section 7 ESA Consultation with USFWS for Potential Impacts on VELB</b>            To address the potential mortality of individual elderberry valley longhorn beetles or disturbance of habitat, Placer County DPW will obtain approval from USEWS before beginning any grading, clearing, or excavation. The project is subject to review and approval by USFWS.</p>	<p><b>Before construction:</b>            Complete Section 7 Endangered Species Act (ESA) consultation with the U.S. Fish and Wildlife Service (USFWS).</p>	Placer County DPW	USFWS	X_____
<p><b>Mitigation Measure P8.4b: Establish a Minimum 6-Meter-Wide (20-Foot-Wide) Buffer around All Elderberry Shrubs That Will Not Be Removed</b>            To address the potential mortality of individual elderberry valley longhorn beetles or disturbance of habitat, Placer County DPW shall ensure that a minimum 1.2-meter-tall (4-foot-tall) temporary, plastic mesh—type construction fence (Tensor Polygrid or equivalent) is installed at least 6 meters (20 feet) around the driplines of elderberry shrubs that are within 30.5 meters (100 feet) of the construction area but that will not be removed. This fencing is intended to prevent encroachment by construction vehicles and personnel. The exact location of the fencing shall be determined by a qualified biologist, with the goal of protecting sensitive biological resources (i.e., habitat for VELD). The fencing shall be strung tightly on posts set at a maximum interval of 3 meters (10 feet). The fencing shall be installed in a way that prevents equipment from enlarging the work area beyond the area necessary to complete the work. The fencing shall be checked and maintained weekly until all construction is completed. This buffer zone shall be marked by a sign stating, “This is habitat of the valley elderberry longhorn beetle, a threatened species, and must not be disturbed. This species is protected by the Endangered Species Act of 1973, as amended. Violators are subject to prosecution, fines, and imprisonment.” No construction activity, including grading, shall be allowed until this condition is satisfied. No grading, clearing, storage of equipment or machinery, or other disturbance or activity may occur until a representative of Reclamation has inspected and approved all temporary construction fencing. The fencing and a note reflecting this condition shall be shown on the Improvement Plans.</p>	<p><b>Before construction:</b>            Establish a minimum 6-meter-wide (20-foot- wide) buffer around all elderberry shrubs.</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P8.4e Implement Dust Control Measures</b>            To address the potential mortality of individual elderberry valley longhorn beetles or disturbance of habitat, Placer County DPW shall ensure that dust control measures are implemented for all ground-disturbing activities in the project area. These measures may include application of water to graded and disturbed areas that are unvegetated. To avoid attracting Argentine ants, at no time shall water be sprayed within the driplines of elderberry plants.</p>	<p><b>During construction:</b>            Implement dust control measures</p>	Construction team	Placer County DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P8.4d: Transplant Elderberry Shrubs That Cannot Be Avoided</b></p> <p>To address the potential mortality of individual elderberry valley longhorn beetles or disturbance of habitat, Placer County OPW shall ensure that all elderberry shrubs with one or more stems measuring 2.5 centimeters (1.0 inch) or more in diameter, and that cannot be avoided during construction, shall be transplanted to a conservation area in accordance with USFWS’s Conservation Guidelines for Valley Elderberry Longhorn Beetle (U.S. Fish and Wildlife Service 1999). In the event that an elderberry shrub is unlikely to survive transplantation because of poor condition or location, the shrub may be exempted from transplantation at the discretion of USFWS.</p> <p>Implementation of Alternative 1 would require transplanting three elderberry shrubs, and implementation of Alternative 2, 3, or 4 would require transplanting five elderberry shrubs.</p>	<p><b>Before or During construction:</b> Transplant elderberry shrubs that cannot be avoided.</p>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X_____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measures P8.4e: Compensate for the Removal or Destruction of Valley Elderberry Longhorn Beetle Habitat</b></p> <p>To address the potential mortality of individual elderberry valley longhorn beetles or disturbance of habitat, Placer County DPW shall compensate for the removal or destruction of all elderberry stems that measure 2.5 centimeters (1 inch) or more at ground level (VELB habitat) and that are located within 6 meters (20 feet) of construction activities. Compensation shall include planting replacement elderberry seedlings or cuttings and associated native plantings within a USFWS approved conservation area at a ratio between 1:1 and 8:1 (new plantings to affected stems), depending on the diameter of the stem at ground level (see Table 8-6), the presence or absence of exit holes, and whether the shrub is located in riparian habitat as indicated in the USFWS guidelines for VELB.</p> <p>Placer County DPW shall compensate for all shrubs that are directly affected (i.e., removed/transplanted or destroyed) by the project. Placer County DPW shall compensate for direct effects on VELB habitat as described below. All calculations for compensation of VELE habitat are provided in the BA (Appendix 3).</p> <p>Purchase credits at the Wildland's Sheridan Ranch Conservation Bank in Placer County, a USFWS-approved mitigation bank. The cost to establish a conservation area for VELB at this bank is estimated to be \$1,500 per unit; each unit includes five elderberry seedlings and five associated riparian plantings. Only whole units can be purchased using compensation ratios identified in the USFWS guidelines for VELB and based on stem counts listed in Table 8-6. Alternative 1 would require the purchase of two mitigation credits (nine elderberry seedlings and seven native plantings), for an approximate cost of \$3,000, and Alternatives 2, 3, and 4 would require the purchase of three mitigation credits (14 elderberry seedlings and 11 native plantings) for an approximate cost of \$4,500. The exact cost to purchase mitigation credits for project- related impacts would be determined during formal consultation with USFWS.</p>	<p><b>After construction:</b> Compensate for the removal of beetle habitat; compensation includes replacing removed shrubs with elderberry seedlings or cuttings, planted with associated native plants</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure PS.4f: Conduct Mandatory Contractor/Worker Awareness Training for Construction Personnel</b></p> <p>To address the potential mortality of individual elderberry valley longhorn beetles or disturbance of habitat, a USFWS-approved biologist shall conduct mandatory contractor/worker awareness training for construction personnel. If new construction personnel are added to the project, the contractor shall ensure that the personnel receive the mandatory training before starting work. This measure is also specified in the BA for the proposed project.</p>	<p><b>Before construction:</b> Conduct mandatory contractor/worker awareness training for construction personnel.</p>	Approved biologist	USFWS	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P8.5: Conduct a Preconstruction Survey for Northwestern Pond Turtle at the Baldwin Reservoir Canal</b>            To address the potential mortality of northwestern pond turtles, Placer County DPW shall retain a qualified wildlife biologist to conduct a preconstruction northwestern pond turtle survey at the Baldwin Reservoir canal. The preconstruction survey shall be conducted at most 24 hours before the start of construction activities at the canal, If a northwestern pond turtle is located in the construction area, the biologist shall relocate the turtle downstream of the project area, toward Baldwin Reservoir, and an exclusion fence shall be installed to prevent the movement of turtles back into the construction area.</p>	<p><b>Before construction:</b> Conduct a northwestern pond turtle survey at most 24 hours before the start of construction.</p>	Wildlife biologist	Placer County DPW	X_____
<p><b>Mitigation Measure P8.6a: Conduct a Focused Preconstruction Survey for Raptor Nests and Nesting Birds</b>            To address the potential disturbance of nesting loggerhead shrike, oak titmouse, white-tailed kite, and non-special-status nesting migratory birds and raptors, before grading and during the raptor nesting season (March through July), a qualified raptor biologist shall conduct a focused survey for raptor nests in areas potentially affected by project implementation. If construction is proposed to take place during the raptor breeding season, no construction activity shall take place within 152.4 meters (500 feet) of an active nest until the young have fledged (as determined by a qualified raptor biologist). ‘A note to this effect shall be placed on the Improvement Plans. A copy of the survey shall be provided to the Placer County DPW, Reclamation, and DFG. If an active raptor nest is identified on site, appropriate mitigation measures shall be developed and implemented in consultation with DFG.</p>	<p><b>Before construction:</b> Conduct a focused survey for raptor nests.</p> <p><b>During construction:</b> Limit construction to 152.4 meters (500 feet) from occupied nests.</p>	Qualified biologist  Construction team	Placer County DPW  Placer County DPW	X_____  X_____
<p><b>Mitigation Measure P8.6b: Avoid Disturbance of Nesting Special-Status and Non-Special- Status Migratory Birds and Raptors</b>            To avoid impacts on nesting loggerhead shrike, oak titmouse, white-tailed kite, or other non special-status migratory birds and raptors, Placer County DPW shall implement the following avoidance and minimization measures.</p> <p>1. To the extent possible, shrub, and tree removal activities associated with the project shall be conducted outside the breeding season (which generally occurs between March 1 and August 15) for migratory birds and raptors.</p> <p>2. If shrub and tree removal activities are to take place during the breeding season for these species, a qualified wildlife biologist shall be hired to conduct focused nest surveys for active loggerhead shrike, oak titmouse, white-tailed kite, and non-special-status migratory bird and raptor nests.</p> <p>3. If active loggerhead shrike, white-tailed kite, or other non-special-status raptor</p>	<p><b>During construction:</b>            Implement the following measures:</p> <ol style="list-style-type: none"> <li>1. Conduct shrub and tree removal activities outside breeding season.</li> <li>2. Conduct focused nest surveys if construction will take place during breeding season.</li> <li>3. Implement “no-disturbance” buffers around occupied nest sites.</li> </ol>	Placer County DPW	Placer County DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p>nests are found in the project area, and if construction activities must occur during the nesting period, Placer County DPW shall consult DFG to determine and implement appropriate “no- disturbance” buffers around the nest sites until the young have fledged (as determined by a qualified biologist),</p> <p>4. if active oak titmouse or other non-special-status migratory bird nests are found in the project area, and if construction activities must occur during the nesting period, Placer County DPW shall consult USFWS to develop and implement a memorandum of understanding (MOU) to promote the conservation of migratory bird populations.</p>	<p>4. Consult USFWS to develop and implement a memorandum of understanding (MOU) to promote conservation.</p>			
<p><b>Mitigation Measure P8.7: Avoid Disturbance of Nesting Swallows</b> To avoid impacts on nesting swallows, Placer County DPW shall implement the following avoidance and minimization measures.</p> <p>1. To the extent possible, construction activities that could disturb nesting swallows shall be conducted outside the breeding season (which generally occurs between March 1 and September 1) for these species.</p> <p>2. If construction activities are to take place during the swallows’ breeding season, Placer County DPW shall hire a qualified biologist to inspect the concrete box culvert at the Baldwin Reservoir canal during the swallows’ nonbreeding season. If nests are found and are abandoned, they may be removed. To avoid damaging active nests, nests must be removed before the breeding season begins (March 1). A permit from DFG and USFWS is required if active nests must be removed.</p> <p>3. After nests are removed, the underside of the concrete box culvert at the Baldwin Reservoir canal shall be covered with 13- to 1.9-centimeter (0.5- to 0.75-inch) mesh net or poultry wire. All net installation shall occur before March 1. The netting shall be anchored so swallows cannot attach their nests to the bridge though gaps in the net.</p> <p>4. If netting of the concrete box culvert at the Baldwin Reservoir canal does not occur by March 1 and swallows colonize the bridge, modifications to this structure shall not begin before September 1 of that year or until the young have fledged and all nest use has been completed.</p> <p>5. If appropriate steps are taken to prevent swallows from constructing new nests, work can proceed at any time of the year.</p>	<p><b>During construction:</b> Implement the following measures:</p> <p>1. To the extent possible, conduct construction activities outside breeding season.</p> <p>2. If construction takes place during breeding season, a biologist shall inspect concrete box culvert at Baldwin Reservoir.</p> <p>3. Remove inactive nests 4. Cover box culvert with mesh wire to prevent reentry of swallows.</p>	<p>Qualified Biologist</p>	<p>Placer County DPW</p>	<p>X_____</p>



Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P9.1a: Prepare and Implement Improvement Plans, Specifications, and Cost Estimates</b></p> <p>To address potential construction-related soil erosion and sedimentation, Placer County DPW shall prepare Improvement Plans, specifications, and cost estimates (per the requirements of Section II of the LDM. The plans shall show all conditions for the project as well as pertinent topographical features both on site and off site. All existing and proposed utilities and easements, on site and adjacent to the project, that may be affected by planned construction, shall be shown on the plans. All landscaping and irrigation facilities in the public right-of-way (or public easements), or landscaping within sight-distance areas at intersections, shall be included in the Improvement Plans. If the Design/Site Review process and/or DRC review is required as a condition of project approval, said review process shall be completed before submittal of Improvement Plans. Record drawings shall be prepared and signed by a California Registered Civil Engineer at Placer County DPW's expense before acceptance by the County of site improvements.</p> <p>All proposed grading, drainage improvements, and vegetation and tree removal shall be shown on the Improvement Plans, and all work shall conform to provisions of the County Grading Ordinance (Chapter 29, Placer County Code) that are in effect at the time of submittal. No grading, clearing, or tree disturbance shall occur until the improvement Plans are approved and all temporary construction fencing has been installed and inspected by a member of the DRC. All cut/fill slopes shall be at 2:1 (horizontal: vertical) unless a soils report supports a steeper slope and Placer County DPW concurs with said recommendation.</p>	<p><b>Before construction;</b> Prepare Placer County Placer County Improvement Plans, DPW DPW specifications, and cost estimates.</p>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X_____</p>



Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P9.Ic: Revegetate All Disturbed Areas</b>            To address potential construction-related soil erosion and sedimentation, Placer County DPW or an approved contractor shall revegetate all disturbed areas. Revegetation undertaken between April 1 and October 1 shall include regular watering to ensure adequate growth. A winterization plan shall be provided with project Improvement Plans. It is Placer County DPW’s responsibility to ensure proper installation and maintenance of erosion control/winterization during project construction. Placer County DPW shall provide for erosion control where roadside drainage is off of the pavement. Placer County DPW shall maintain a letter of credit, surety bond, or cash deposit in the amount of 100% of an approved engineer’s estimate for winterization and permanent erosion control work before Improvement Plan approval to guarantee protection against erosion and improper grading practices.</p>	<p><b>After construction:</b>            Revegetate areas disturbed during construction.</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P9.Id: Review Proposed Grading Plans</b>            To address potential construction-related soil erosion and sedimentation, if at any time during construction, a field review by County personnel indicates a significant deviation from the proposed grading shown on the Improvement Plans, specifically with regard to slope heights, slope ratios, erosion control, winterization, tree disturbance, and/or pad elevations and configurations, the plans shall be reviewed by the DRC and DPW for a determination of substantial conformance to the project approval conditions before any further work proceeds. Failure of the DRC and DPW to make a determination of substantial conformance may serve as grounds for the revocation/modification of the project approval by the appropriate hearing body.</p>	<p><b>During construction:</b> Review proposed grading plans.</p>	Placer County DPW or DRC	Placer County DPW or DRC	X_____
<p><b>Mitigation Measure P9.Ie: Remove Unsuitable Fill Material or Debris</b>            To address potential construction-related soil erosion and sedimentation, any unsuitable fill or debris identified in the Geotechnical Engineering Report(s) (to be prepared and submitted with the Improvement Plans) or discovered during construction shall be hauled off site to an appropriately permitted facility. The applicant may propose to treat unsuitable soils to make them suitable.</p>	<p><b>During construction:</b>            Remove unsuitable fill material or debris.</p>	Placer County DPW	Placer County DPW	X_____

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P10.1: Stop Work if Cultural Deposits Are Discovered during Ground- Disturbing Activities</b></p> <p>To address potential damage to previously unidentified buried archaeological resources, if any archaeological artifacts, such as stone tools, or unusual amounts of shell or bone are uncovered during any construction activities, all work must stop immediately in the area (within 30.5 meters [100 feet] of the find) and a qualified archaeologist retained to evaluate the deposit. The Placer County Planning Department and Placer County Department of Museums must also be contacted for review of the archaeological find(s). Placer County DPW shall implement the recommended treatment the measures, which typically include avoiding the site, capping the site with fill material, or implementing data recovery programs, such as excavation or detailed documentation.</p> <p>If cultural resources are discovered during construction activities, the construction contractor, Placer County DPW, Placer County Department of Museums, and Reclamation (if on Reclamation property) shall verify that work has been halted until appropriate treatment measures are implemented. Concurrence shall be obtained from the applicable federal and/or county agency on any measures to be implemented before construction activities resume in the area of the find.</p>	<p><b>During construction:</b> Stop work if cultural deposits are discovered,</p> <p>Evaluate the cultural deposit and recommend treatment measures.</p> <p>Implement recommended treatment measures.</p>	<p>Construction team</p> <p>Qualified archeologist</p> <p>Construction team</p>	<p>Placer County DPW</p>	<p>X_____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P10.2; Comply with State/Federal Laws Pertaining to the Discovery of Human Remains</b></p> <p>To address potential damage to previously identified human remains, if human remains are discovered on private property during construction, the Placer County Coroner and NAHC must also be contacted. Work in the area may only proceed after authorization is granted by the Placer County Planning Department. A note to this effect shall be provided on the Improvement Plans for the project.</p> <p>If human remains are discovered on Reclamation property during construction, the Reclamation archaeologist, the Placer County Coroner, and NAHC shall be contacted. Work in the area may proceed only after authorization is granted by Reclamation. All activity at such a site on Reclamation property must comply with the federal Native American Grave Protection and Repatriation Act (NAGPRA) (43 CFR Part 10).</p> <p>If discovered human remains are of Native American origin, Placer County DPW and its contractors shall comply with state and federal laws relating to the disposition of Native American burials, which falls within the jurisdiction of NAHC (Public Resources Code, Section 5097). If human remains are discovered or recognized in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until</p> <ul style="list-style-type: none"> <li>▪ the coroner of Placer County has been informed and has determined that no investigation of the cause of death is required and,</li> <li>▪ if the remains are of Native American origin, <ul style="list-style-type: none"> <li>○ the descendants of the deceased Native Americans have made a recommendation to the landowner or the person responsible for the excavation work for means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods, as provided in Public Resources Code, Section 5097.98, or</li> <li>○ NAHC is unable to identify a descendant or the descendant fails to make a recommendation within 24 hours after being notified by NAHC.</li> </ul> </li> </ul> <p>According to California Health and Safety Code, six or more human burials at one location constitute a cemetery (Section 8100), and disturbance of Native American cemeteries is a felony (Section 7052. Section 7050.5 requires that excavation be stopped in the vicinity of discovered human remains until the coroner can determine whether the remains are those of a Native American. If the remains are determined to be Native American, the coroner must contact NAHC.</p>	<p><b>During construction:</b> Comply with state/federal laws pertaining to the discovery of human remains.</p>	<p>Placer County DPW</p>	<p>Placer County DPW</p>	<p>X_____</p>

Mitigation Measure	Timing	Implementing Party	Monitoring Party	Verification Date and Signature
<p><b>Mitigation Measure P11.la: Provide Class II Bikeways</b>            To reconcile inconsistency with Local plans related to the development of bikeways and trails, Placer County DPW shall provide Class II bikeways along Auburn-Folsom Road pursuant to the Placer County Bikeways Master Plan. The location, width, alignment, and surfacing of the bikeways shall be in accordance with the bikeway design standards listed in the Placer County General Plan.</p>	<p><b>During construction:</b> Provide Class II bikeways along Auburn- Folsom Road.</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P11.lb: Improve Equestrian Trail in Accordance with Standard County Design Conditions</b>            To reconcile inconsistency with local plans related to the development of bikeways and tails, Placer County DPW shall install a multiple-use (equestrian/pedestrian) trail as part of the project improvement, as described below.</p> <p>1. Placer County DPW shall construct/improve a 4.6-meter-wide (15-foot-wide) (or as otherwise approved by the Parks Division) meandering public trail easement along the western side of Auburn-Folsom Road, from the County line to Oak Hill Drive and within the landscape buffer.</p> <p>2. The trail shall be constructed of decomposed granite, unless otherwise approved by the Parks Division. A trail tread and drainage appurtenances shall be installed and clearing, seeding, and planting shall be implemented as necessary for erosion control.</p> <p>3. The trail tread shall be located as far from the edge of pavement of the adjoining street right- of-way as possible.</p>	<p><b>During construction:</b> Install a multiple-use trail as part of project improvement.</p>	Placer County DPW	Placer County DPW	X_____
<p><b>Mitigation Measure P11.2: Install a Traffic Signal at the Auburn-Folsom Road/Lou Place Intersection</b>            Placer County DPW shall install a traffic signal at the Auburn-Folsom Road/Lou Place intersection or shall provide equal or better means of tail connectivity at other locations. In the event that the Circulation Element of the Granite Bay Community Plan is revised and the equestrian trail at Lou Place is eliminated, this mitigation measure would no longer be necessary.</p>	<p><b>During construction:</b> Install a traffic signal at the Auburn-Folsom Road/Lou Place intersection.</p>	Placer County DPW	Placer County DPW	X_____