

Appendix H Mitigation Monitoring and Reporting Record

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<u>Community Impacts</u>						
<p><i>Mitigation Measure CI-1: Reconstruct Displaced Driveways and Replace Displaced Fencing, Signage, Trees, and Landscaping.</i></p> <ul style="list-style-type: none"> Reconstruct driveways displaced by roadway construction to allow for safe property access and use. To the extent possible, fencing, signage, trees, and other landscaping displaced by the project on affected residential, business, and agricultural properties shall be replaced. 	STA or its representative	Design/ Construction				
<p><i>Mitigation Measure CI-2: Relocate the Travis Unified School District Facility.</i></p> <ul style="list-style-type: none"> If the project would make the TUSD property untenable for continued use as a district meeting and storage facility, the project sponsors shall coordinate with the TUSD to locate and purchase a site for relocation of the facility. 	STA or its representative	Design/ Construction				
<u>Utilities/Emergency Services</u>						
<p><i>Mitigation Measure UT-1: Notify Emergency Service Providers and Allow Emergency Vehicles on Closed Roadways.</i></p> <ul style="list-style-type: none"> Emergency service providers such as police, fire, and ambulance services shall be notified at least one week before any streets or intersections are closed during the construction phase. To the extent possible, emergency vehicles shall be allowed through roadway segments temporarily closed for construction purposes. These measures shall also be incorporated into the Transportation Management Plan to be prepared for the project. 	STA or its representative	Preconstruction				

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<u>Traffic and Transportation/Pedestrian and Bicycle Facilities</u>						
<p><i>Mitigation Measure TRA-1: Evaluate Unsignalized Study Intersections in the Corridor for Signal Warrants.</i></p> <ul style="list-style-type: none"> • A full set of warrants for unsignalized study intersections in the corridor shall be investigated based on field-measured traffic data and a thorough study of traffic and roadway conditions by an experienced engineer under the direction of STA or the local jurisdiction. • Regular monitoring of actual traffic conditions and accident data shall be undertaken by the jurisdiction responsible for implementation to prioritize and program intersections for signalization where warrants are met. 	STA or its representative	Design/ Post construction monitoring				
<p><i>Mitigation Measure TRA-2: Implement Traffic Management Plan During Construction.</i></p> <ul style="list-style-type: none"> • Prepare and implement a construction phasing plan and Traffic Management Plan (TMP) that defines how traffic operations would be managed and maintained during each phase of construction and shall include the following: <ul style="list-style-type: none"> • At least one lane in each direction of the alignment will be available at all times during the construction process. • All cross-traffic lanes will be kept open during construction except for during temporary non-peak-hour closures. • At least one lane under flagger control will be provided at all times during temporary intersection closures. • Property owners of all businesses adjacent to the construction areas shall be consulted. • To the maximum practical extent, the plan shall: <ul style="list-style-type: none"> • Identify the locations for temporary detours and temporary roads to facilitate local traffic patterns and 	STA or its representative	Preconstruction				

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<p>through-traffic requirements. If temporary roadway or intersection closures are required for construction purposes, the TMP will specify off-peak timeframes for closures.</p> <ul style="list-style-type: none"> • Detail how access will be maintained to individual businesses, residences, and farm lands where construction activities may interfere with ingress and egress. Any driveway closures shall take place during non-business hours. • Notify affected businesses and residents at least two weeks in advance of lane or roadway closures or impacts related to access. Personnel of emergency response services such as fire and police protection will also be notified one to two weeks in advance of any lane or road closures so that alternate routes can be taken. • Specify predetermined haul routes from staging areas to construction sites and to disposal areas of agreement with the appropriate jurisdiction(s) prior to construction. The routes shall follow streets and highways that provide the safest route, minimize truck traffic impacts to sensitive receptors, and have the least impact on traffic. • Require the contractor to provide information to the public using signs, press releases, and other media tools of traffic closures, detours, or temporary displacement of left-turn lanes. • Identify a single phone number that property owners and businesses can call for construction scheduling, phasing, and duration information, as well as for complaints. • Identify construction activities that must take place during off-peak traffic hours or result in temporary road closures due to concerns regarding traffic safety or traffic congestion. Any road closures will be done at night under ordinary circumstances. If unforeseen 						

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<p>circumstances require road closing during the day, the appropriate jurisdiction(s) shall be consulted.</p>						
<p><u>Visual/Aesthetics</u></p>						
<p><i>Mitigation Measure VIS-1: Install Temporary Visual Barriers between Construction Staging Areas and Residences.</i></p> <ul style="list-style-type: none"> • During construction, fencing (e.g., chain link with slats or fencing made of windscreen material) will be installed to obstruct undesirable views of construction staging areas from adjacent residences. 	<p>STA or its representative</p>	<p>Preconstruction</p>				
<p><i>Mitigation Measure VIS-2: Prepare and Implement a Lighting Plan.</i></p> <ul style="list-style-type: none"> • Prepare and implement a lighting plan: <ul style="list-style-type: none"> • Street lights will be cut-off-type fixtures that cast low-angle illumination to minimize incidental spillover of light onto adjacent properties and open space. Fixtures that project upward and horizontally shall not be used. • Street lights will be shaded and directed away from the residential and open space areas adjacent to the project site. • Street light lamps will provide natural light qualities, and will be used only where necessary for safety and security purposes. • Street light mountings will be downcast and the height of placement minimized to reduce potential for backscatter into the nighttime sky and incidental spillover into adjacent properties and open space. Street light mountings shall have low-sheen, nonreflective finishes. 	<p>STA or its representative</p>	<p>Design/ Preconstruction</p>				

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<p><i>Mitigation Measure VIS-3: Construct Walls and Barriers with Low-Sheen and Non-Reflective Surface Materials.</i></p> <ul style="list-style-type: none"> Retaining walls and barriers (e.g., railings) will be designed with low-sheen, nonreflective surface materials to reduce potential for glare. 	STA or its representative	Design				
<p><i>Mitigation Measure VIS-4: Incorporate Design Characteristics to Minimize Visual Obtrusion.</i></p> <ul style="list-style-type: none"> Structural and vertical elements will have a minimum profile to reduce visual intrusion and obstruction. Supports, piers, and railings will have an “open” structure (i.e., “transparency”) wherever possible to facilitate views beyond. Vertical elements will be designed at even intervals and spacing to create aesthetic rhythm. Finished surfaces on all vertical features will have color and sheen that minimize contrast with the daytime sky. Major vertical elements at locations identified by the local agency, such as bridges and creek crossings, will be celebrated through public art and landscape enhancements and will be used as community gateway features. 	STA or its representative	Design				
<p><i>Mitigation Measure VIS-5: Provide Aesthetic Treatments to All Noise Barriers.</i></p> <ul style="list-style-type: none"> Aesthetic treatments to all noise barriers that may be required for the chosen alternative will be added, including landscaping and low-sheen and non-reflective surface materials. 	STA or its representative	Design				

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<u>Hydrology and Floodplains</u>						
<p><i>Mitigation Measure HYD-1: Prepare Detailed Master Drainage Plan (MDP) and Implement Plan Requirements.</i></p> <ul style="list-style-type: none"> • Prepare a detailed drainage report (also called a master drainage plan or runoff design report) for the entire construction area. • Include in the project design, drawings, and plans the flow and drainage control requirements identified in the MDP in order to prevent flood and flood flow impacts. • The drainage system will be designed in accordance with the flood control design criteria of Solano County and the Solano County Water Agency (SCWA). • The MDP shall ensure that project design and drainage plans comply with Executive Order 11988, Sections 3.b and 4.c. • The MDP shall be prepared by a registered water resources civil engineer before site development begins. <ul style="list-style-type: none"> • A description of the proposed maintenance program for the drainage system(s). 	STA or its representative	Design/ Preconstruction				
<p><i>Mitigation Measure HYD-2: Improve Culverts under Vanden Road and Raise Roadway.</i></p> <ul style="list-style-type: none"> • The existing culverts under Vanden Road at Union Creek shall be replaced with a bridge or large culvert sufficient for adequate hydraulic capacity during a 100-year flood event. A detailed hydraulic analysis (see Mitigation Measure HYD-1) of the design configurations shall be conducted. • The roadway shall also be raised in this area by approximately 1.6 feet to 3.3 feet above the existing road elevation to be higher than the elevation of the mapped floodplain. 	STA or its representative	Design/ Preconstruction				

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<u>Geology, Soils, and Seismicity</u>						
<p><i>Mitigation Measure GEO-1: Prepare and Implement Paleontological Mitigation Plan.</i></p> <ul style="list-style-type: none"> A Paleontological Mitigation Plan shall be prepared by a qualified paleontologist (M.S. or PhD in paleontology or geology familiar with paleontological procedures and techniques) that addresses, at a minimum the following: pre-excavation survey, literature review, repository review; training for construction personnel; monitoring and data recovery; specimen curation; and documentation requirements. 	STA or its representative	Design				
<u>Hazardous Waste and Materials</u>						
<p><i>Mitigation Measure HAZ-1: Develop a Health and Safety Plan to Address Worker Health and Safety.</i></p> <ul style="list-style-type: none"> A Health and Safety Plan (HSP) shall be prepared to address worker safety when working with potentially hazardous materials, including biological contaminants, potentially lead-based paint, transformer fluids, soils potentially containing ADL, and other construction-related materials within the right-of-way for any soil disturbance. Confirm the location of underground pipeline crossings and prepare and implement the HSP for excavation work at these pipeline crossings prior to excavation activities. 	STA or its representative	Preconstruction				

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<p><i>Mitigation Measure HAZ-2: Perform Additional Literature Review to Identify Potential for Historical Contamination.</i></p> <ul style="list-style-type: none"> • During the design phase, STA shall perform a literature review, including a file review at the Solano County Resource Management Agency, to determine past site uses and the extent of any hazardous materials issues that may exist at the Adco Auto Wreckers on Cement Hill Road. • If there is a potential for contamination from these sites within the proposed alignment in this area, soil sampling and screening for potential contaminants shall be conducted. • If contaminated soil and/or groundwater are encountered during the site screening, a Health and Safety Plan shall be completed to address potential worker health and safety issues while working with contaminated soil and/or groundwater and a Soil Management Plan shall be completed to address excavation, removal, and disposal of contaminated soil. 	STA or its representative	Preconstruction				
<p><i>Mitigation Measure HAZ-3: Conduct Soil Sampling and Analysis to Identify and Remove Contaminated Soil.</i></p> <ul style="list-style-type: none"> • The construction contractor shall perform a detailed walking reconnaissance of the UPRR and former Sacramento Northern Railroad tracks immediately adjacent to or intersected by the planned roadway alignment. If potentially contaminated sites are encountered, a Soil Management Plan shall be completed to address testing, excavation, removal, and disposal of contaminated soil. 	STA or its representative	Preconstruction				
<p><i>Mitigation Measure HAZ-4: Conduct Sampling, Testing, Removal, Storage, Transportation, and Disposal of Yellow Striping along Existing Roadway.</i></p> <ul style="list-style-type: none"> • Before construction, sampling and testing of yellow pavement striping scheduled for removal shall be performed to determine whether lead is present. 	STA or its representative	Construction				

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<p><i>Mitigation Measure HAZ-5: Conduct Sampling and Analysis of Transformer Fluid from Electrical Transformers.</i></p> <ul style="list-style-type: none"> If leaks from electrical transformers that will either remain within the project construction zone or require removal or relocation are encountered before or during construction, the transformer fluid shall be sampled and analyzed by qualified personnel for detectable levels of PCBs. If PCBs are detected, the transformer shall be removed and disposed of in accordance with regulatory agency requirements. Any stained soil encountered below electrical transformers with detectable PCB levels shall also be handled and disposed of in accordance with regulatory agency requirements. 	STA or its representative	Preconstruction/ Construction				
<p><i>Mitigation Measure HAZ-6: Conduct Testing for Aerially Deposited Lead in Surface and Near-Surface Soils.</i></p> <ul style="list-style-type: none"> During the design phase of the project, the contractor shall conduct a preliminary investigation and screening for ADL for portions of the project located immediately adjacent to Leisure Town Road (north of Alamo Drive) and Walters Road (from south of Air Base Parkway to Petersen Road) to determine the levels of lead in the surface and near-surface soils. If ADL is encountered above the regulatory thresholds, a Soil Management Plan, approved by the Solano County Resource Management Agency or other appropriate regulatory authority, shall be completed to address excavation, removal, and disposal of contaminated soil. 	STA or its representative	Preconstruction				
<p><i>Mitigation Measure HAZ-7: Time Construction to Avoid Exposure of Construction Workers to Respiratory Irritants from Aerially Applied Chemicals.</i></p> <ul style="list-style-type: none"> Construction activities adjacent to agricultural fields shall not occur during aerial application of chemicals and for at least 	STA or its representative	Construction				

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<p>24 hours following application or for as long as recommended by the chemical label, whichever time period is greater.</p> <ul style="list-style-type: none"> The contractor shall coordinate with individual growers on the timing of aerielly applied chemicals on parcels within or adjacent to the corridor to avoid effects on workers during construction. 						
<p><i>Mitigation Measure HAZ-8: Test Soil and Groundwater at LUST and UST sites and Remove Contaminated Soil.</i></p> <ul style="list-style-type: none"> Soil and groundwater samples will be taken using direct push Geoprobe equipment within the vicinity of the UST and LUST sites. Leaking storage tanks at the Bonfare Market shall be inspected and sampled for contamination. Impacted groundwater will be containerized in a Baker tank and analyzed prior to evaluating disposal options. An environmental report summarizing field activities and analytical results will be prepared for sites. 	STA or its representative	Construction				
<p><i>Mitigation Measure HAZ-9: Phase 2 Environmental Site Assessments (ESA).</i></p> <ul style="list-style-type: none"> Site specific Phase 2 ESAs will be conducted for each parcel that requires a full or partial right-of-way take. 	STA or its representative	Design/ Preconstruction				
<p><u>Air Quality</u></p>						
<p><i>Mitigation Measure AQ-1: Implement Construction Mitigation Measures to Reduce Construction Equipment Exhaust Emissions.</i></p> <p>To the extent possible, the following construction equipment exhaust control measures may be implemented as part of the project:</p>	STA or its representative	Construction				

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<ul style="list-style-type: none"> Restricting unnecessary vehicle idling to 5 minutes; requiring use of late model engines; requiring use of low-emission diesel products; requiring use of alternative fuels; requiring use of engine retrofit technology; requiring use of after-treatment products; and/or implementing other options as they become available. 						
<p><i>Mitigation Measure AQ-2: Implement Construction Mitigation Measures to Reduce Construction Emissions, as Required by the BAAQMD.</i></p> <p>The following control measures may be implemented, to the extent possible, as part of the project:</p> <ul style="list-style-type: none"> Water exposed surfaces twice daily Cover all trucks hauling soil, sand, and other loose materials or maintain at least 2 feet of freeboard Pave, apply water three times daily, or apply nontoxic soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites Sweep daily with water sweepers all paved access roads, parking areas, and staging areas at construction sites Sweep streets daily with water sweepers if visible soil material is carried onto adjacent public streets Hydroseed or apply nontoxic soil stabilizers to inactive construction areas (previously graded areas inactive for 10 days or more) Enclose, cover, water twice daily, or apply nontoxic soil binders to exposed stockpiles (dirt, sand, etc.) 	<p>STA or its representative</p>	<p>Construction</p>				

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<ul style="list-style-type: none"> Limit traffic speeds on unpaved roads to 15 mph Install sandbags or other erosion control measures to prevent silt runoff to public roadways Replace vegetation in disturbed areas as quickly as possible. 						
<u>Noise</u>						
<p><i>Mitigation Measure N-1: Employ Noise-Reduction Construction Measures.</i></p> <ul style="list-style-type: none"> The construction contractor will employ noise-reducing construction practices such that noise from construction does not exceed 90 dBA at noise-sensitive uses during daytime hours. Measures that can be used to limit noise may include the following: <ul style="list-style-type: none"> Locating equipment as far as practical from noise-sensitive uses Using sound-control devices such as mufflers on equipment Turning off idling equipment Using equipment that is quieter than standard equipment Selecting construction-access routes that affect the fewest number of people Using noise-reducing enclosures around noise-generating equipment Constructing barriers between noise sources and noise-sensitive land uses or taking advantage of existing barrier features (terrain, structures) to block sound transmission Temporarily relocating residents during periods of high construction noise that cannot be reduced effectively by other means 	STA or its representative	Construction				

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<ul style="list-style-type: none"> The construction contractor will prepare a detailed noise control plan based on the construction methods proposed. 						
<p><i>Mitigation Measure N-2: Prohibit Nighttime Construction Activities.</i></p> <ul style="list-style-type: none"> Consistent with Vacaville Noise Ordinance, construction activities are prohibited between 10:00 p.m. and 6:00 a.m. Monday through Saturday or until 8:00 a.m. on Sunday mornings. 	STA or its representative	Construction				
<p><i>Mitigation Measure N-3: Disseminate Essential Information to Residences and Implement a Complaint/Response Tracking Program.</i></p> <p>The construction contractor shall:</p> <ul style="list-style-type: none"> Notify residences within 500 feet of the construction areas of the construction schedule in writing before construction. Designate a noise disturbance coordinator who will be responsible for responding to complaints regarding construction noise. <p>The noise coordinator shall:</p> <ul style="list-style-type: none"> Determine the cause of the complaint and ensure that reasonable measures are implemented to correct the problem. Post a contact telephone number for the noise disturbance coordinator on construction site fences and in the written notification of the construction schedule sent to nearby residents. 	STA or its representative	Construction				
<p><u>Biological Environment</u></p>						
<p><i>Mitigation Measure BR-1: Avoid and Minimize Potential Indirect Disturbance of Riparian Communities.</i></p> <p>To the extent possible, the contractor will avoid and minimize potential indirect disturbance of riparian communities by implementing the following measures:</p>	STA or its representative	Preconstruction/ Construction				

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<ul style="list-style-type: none"> Riparian communities, such as those along Old Alamo Creek, that are located adjacent to all construction zones, will be protected by installing temporary construction fencing to protect riparian vegetation outside the construction zone. The potential for long-term loss of riparian vegetation within the construction zone will be minimized by trimming vegetation rather than removing entire shrubs. Shrubs that need to be trimmed will be cut at least 1 foot above ground level to leave the root systems intact and allow for more rapid regeneration. To protect nesting birds, STA or the appropriate local agency will not allow pruning or removal of woody riparian vegetation between February 15 and August 15. A certified arborist will be retained to perform any necessary pruning or root cutting of riparian trees within the construction zone to further minimize harm to vegetation and ensure rapid regeneration. Areas that undergo vegetative pruning and tree removal will be inspected immediately before construction, immediately after construction, and one year after construction to determine the amount of existing vegetative cover, cover that has been removed, and cover that resprouts. Work in riparian areas, such as those along Old Alamo Creek, will be conducted between June 15 and October 15, and disturbed areas will be stabilized with erosion control measures before October 15. 						
<p><i>Mitigation Measure BR-2: Compensate for Permanent Loss of Riparian Communities.</i></p> <ul style="list-style-type: none"> Compensate for construction-related permanent loss of riparian communities, such as those along Old Alamo Creek, due to direct impacts at a minimum ratio of 2:1 (2 acres restored or created for every 1 acre permanently affected) as 	STA or its representative	Construction				

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<p>described in the Draft MSHCP. Compensation requirements are based on a total direct impact on 2.1 acres.</p> <ul style="list-style-type: none"> Funds will be contributed to an approved mitigation bank for riparian restoration activities along the Old Alamo Creek corridor or on other public lands in the project vicinity. STA or the appropriate local agency will contact appropriate individuals to determine whether there is a potential to create, restore, or enhance riparian habitat in appropriate preserves. A riparian restoration plan will be developed and implemented that involves creating or enhancing riparian habitat in the construction area or project vicinity. Potential mitigation sites in the Old Alamo Creek corridor will be evaluated as part of a formal riparian mitigation plan. 						
<p><i>Mitigation Measure BR-3: Plant Native Trees in Rural Landscaping Areas.</i></p> <ul style="list-style-type: none"> Plant native trees in rural areas as part of project landscaping. For rural areas in annual grassland communities, landscaping will include coast live oak (<i>Quercus agrifolia</i>), valley oak (<i>Quercus lobata</i>), interior live oak (<i>Quercus wislizenii</i>), and coyote brush (<i>Baccharis pilularis</i>). For drainages in rural areas, landscaping will include box elder (<i>Acer negundo</i> var. <i>californicum</i>), California black walnut (<i>Juglans californica</i> var. <i>hindsii</i>), valley oak (<i>Quercus lobata</i>), California sycamore (<i>Platanus racemosa</i>), Fremont's cottonwood (<i>Populus fremontii</i>), California blackberry (<i>Rubus ursinus</i>), and Goodding's willow (<i>Salix gooddingii</i>). Monitor planted trees for five years, and ensure survivorship of a minimum of 80 percent of planted trees after five years by replanting any trees that do not survive. 	<p>STA or its representative</p>	<p>Construction</p>				

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<p><i>Mitigation Measure BR-4: Obtain and Comply with Conditions of Clean Water Act Permits and Streambed Alteration Agreement.</i></p> <ul style="list-style-type: none"> • Before any construction activities are initiated, obtain the following permits: <ul style="list-style-type: none"> • CWA Section 404 permit from the Corps, or Report of Waste Discharge for Waters of the State, • CWA Section 401 water quality certification from the RWQCB • CWA Section 402/NPDES permit from State Water Resources Control Board (SWRCB) (requiring preparation of a SWPPP) • CFGC Section 1602 streambed alteration agreement from CDFG • Copies of these permits will be provided to the contractor with the construction specifications. • Once the necessary permits are obtained, implement Mitigation Measures BR-8 and BR-9 as indicated in the above permits. 	<p>STA or its representative</p>	<p>Preconstruction</p>				
<p><i>Mitigation Measure BR-5: Implement Measures to Protect Water Quality.</i></p> <ul style="list-style-type: none"> • The contractor shall implement the general measures recommended in Section 3.10, Water Quality and Stormwater Runoff, to protect water quality and aquatic resources in Old Alamo Creek, Union Creek, McCoy Creek, tributary streams, and wetlands. Compliance with regulatory requirements described in Section 3.10, Water Quality and Stormwater Runoff, will concurrently satisfy water quality protection requirements under this section. 	<p>STA or its representative</p>	<p>Construction</p>				

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<p><i>Mitigation Measure BR-6: Avoid and Minimize Disturbance of Waters of the United States and Nonjurisdictional Wetlands.</i></p> <ul style="list-style-type: none"> • The contractor will minimize indirect impacts on waters of the United States and nonjurisdictional wetlands throughout the study area by implementing the following measures: <ul style="list-style-type: none"> • To maintain hydrologic connections, the project design will include culverts for all seasonal and perennial drainages that are waters of the United States, and/or waters of the State. • Construction activities will be prohibited in saturated or ponded waters during the wet season (spring and winter) to the maximum extent possible. • Where determined necessary, geotextile cushions and other appropriate materials (e.g., timber pads, prefabricated equipment pads, geotextile fabric) will be used in saturated conditions to minimize damage to the substrate and vegetation. • Exposed slopes and streambanks will be stabilized immediately following completion of construction activities. • In highly erodible stream systems, banks will be stabilized using a nonvegetative material that will bind the soil initially and break down within a few years. • During construction, trees, shrubs, debris, or soils that are inadvertently deposited below the ordinary high-water mark (OHWM) of any streams will be removed in a manner that minimizes disturbance of the creek bed and bank. • All activities will be completed promptly to minimize their duration and resultant impacts. 	<p>STA or its representative</p>	<p>Construction</p>				

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<ul style="list-style-type: none"> Construction inspectors will routinely inspect protected areas to ensure that protective measures are in place and effective. All protective measures will remain in place until all construction activities near the resource have been completed and will be removed immediately following construction and reclamation activities. 						
<p><i>Mitigation Measure BR-7: Modify Roadway Design to Maintain Natural Hydrology and Reduce Resource Loss.</i></p> <ul style="list-style-type: none"> To maintain as much of the natural hydrology within the Walters Road extension segment of the alignment as possible, minimize placement of fill in waters of the United States and non-jurisdictional wetlands, and minimize impacts on Contra Costa goldfields, the roadway alignment has been modified by shifting the centerline, and/or widening primarily to one or the other side; narrowing inside shoulder widths; and using structure to span and avoid direct impacts to wetlands; an additional 670 feet of structure is proposed to be incorporated to reduce direct impacts to seasonal wetlands and Contra Costa goldfields in this area. 	STA or its representative	Design/ Construction				
<p><i>Mitigation Measure BR-8: Compensate for the Permanent and Temporary Filling of Seasonal Wetland, Freshwater Marsh, and Pond.</i></p> <ul style="list-style-type: none"> As part of compliance with the CWA Section 404 permit, compensate for filling waters of the United States (direct impacts) to ensure no net loss of habitat functions and values. Compensation for seasonal wetlands, freshwater marshes, and ponds will be provided at a minimum ratio of 2:1 (2 acres of mitigation for every 1 acre of waters of the United States filled) or 9:1(9 acres of mitigation for every 1 acre of waters of the United States filled) in areas where Contra Costa goldfields are present (see Section 3.15.5, Threatened and 	STA or its representative	Preconstruction/ Construction				

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<p>Endangered Species). Compensation ratios for wetland habitats supporting other threatened or endangered species also are described in Section 3.15.5.</p> <ul style="list-style-type: none"> • Implement one or more of the following options to compensate for potential impacts associated with filling waters of the United States and non-jurisdictional wetlands: <ul style="list-style-type: none"> • Mitigation bank credits will be purchased at a locally approved bank. • Funds equal to the amount needed to purchase mitigation bank credits will be contributed to the preservation of vernal pool complexes within the McCoy Creek watershed, a High Conservation Value Area identified in the Draft MSHCP. • A wetland restoration plan will be developed and implemented that involves creating or enhancing seasonal wetland and freshwater marsh either in the study area or in the project vicinity. 						
<p><i>Mitigation Measure BR-9: Compensate for the Permanent and Temporary Filling of Other Waters of the United States.</i></p> <ul style="list-style-type: none"> • Compensate for filling other waters of the United States (a direct impact) in seasonal and perennial drainages. This compensation is being provided pursuant to CEQA/NEPA and FHWA policies on mitigating effects to natural lands. • Most drainages in the study area, including Union Creek and its tributaries, McCoy Creek and its tributaries, and unnamed drainages, do not support riparian habitat. Compensation for loss of other waters of the United States in these drainages will include restoration or enhancement of stream channel habitat at a minimum ratio of 1:1 (1 acre restored or enhanced for every 1 acre permanently affected). 	<p>STA or its representative</p>	<p>Preconstruction/ Construction</p>				
<ul style="list-style-type: none"> • Retain a restoration ecologist to develop a mitigation plan that identifies erosion control, habitat replacement, and 						

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<p>maintenance and enhancement of habitat as the primary mitigation goals.</p> <ul style="list-style-type: none"> • Compensation for non-jurisdictional drainage impacts, which include irrigation and roadside ditches, will include maintenance or reconstruction of the irrigation drainages after road construction and replacement of the roadside drainages with a new system to convey stormwater. 						
<p><i>Mitigation Measure BR-10: Conduct a Biological Resources Education Program for Construction Crews and Enforce Construction Restrictions.</i></p> <ul style="list-style-type: none"> • The contractor shall conduct worker environmental awareness training (WEAP) for construction crews before project implementation. The education program will include a brief overview of the special-status species that are known to or could potentially occur in the study area. <p>Restrictions and guidelines that must be observed by construction personnel are listed below:</p> <ul style="list-style-type: none"> • Project-related vehicles will be driven at or below the posted speed limit on hard-surfaced roads and at or below 15 mph on unpaved roads in the study area. • Off-road travel using project-related vehicles and construction equipment, and all ground disturbing activities will be restricted to the designated construction area. • All food-related trash will be disposed of in closed containers and removed from the study area at least once per week during the construction period. Construction personnel will not feed or otherwise attract wildlife to the study area. • No pets or firearms will be allowed in the study area. • To prevent possible resource damage from hazardous 	<p>STA or its representative</p>	<p>Preconstruction. Construction</p>				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<p>materials such as motor oil or gasoline, construction personnel will not service vehicles or construction equipment outside designated staging areas.</p> <ul style="list-style-type: none"> Any worker who encounters damaged vegetation or causes harm to a special-status plant or wildlife species will immediately report the incident to the biological monitor. The monitor will immediately notify STA or the appropriate local agency, which will provide verbal notification to the USFWS Endangered Species Office in Sacramento, California, and to the local CDFG warden or biologist within three working days. STA or the appropriate local agency will follow up with written notification to USFWS and CDFG within five working days. The designated environmental inspector shall be responsible for ensuring that construction personnel adhere to the guidelines and restrictions. WEAP training sessions shall be conducted as needed for new personnel brought onto the job during the construction period. 						
<p><i>Mitigation Measure BR-11: Retain a Biologist to Monitor Construction Activities.</i></p> <ul style="list-style-type: none"> Retain a biological monitor to monitor all construction activities located within 250 feet of special-status plant and wildlife populations (including Contra Costa goldfields and vernal pool crustaceans). The monitor will ensure compliance with all conservation measures and applicable resource agency permits and prevent any potential take of listed species, or impacts to sensitive habitat. 	<p>STA or its representative</p>	<p>Preconstruction/ Construction</p>				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<p><i>Mitigation Measure BR-12: Install Construction Barrier Fencing around the Construction Area.</i></p> <ul style="list-style-type: none"> The contractor shall install orange construction barrier fencing to identify environmentally sensitive areas in the construction area, including Old Alamo Creek, Union Creek, McCoy Creek, unnamed drainages, wetlands, elderberry shrubs, special-status plant populations, oak trees, and any trees that support nests of special-status bird species. The protected areas will be designated as environmentally sensitive areas and clearly identified on the construction plans. The fencing will be installed before construction activities are initiated and will be maintained throughout the construction period. Temporary fences around the environmentally sensitive areas will be installed as one of the first orders of work. 	<p>STA or its representative</p>	<p>Preconstruction/ Construction</p>				
<p><i>Mitigation Measure BR-13: Minimize Potential Impacts on Special-Status Plant Species during Construction.</i></p> <p>The contractor will minimize potential construction-related impacts on special-status plant species by implementing the following measures to the extent possible:</p> <ul style="list-style-type: none"> In areas that contain special-status plants, construction activities will be conducted during the period when special-status plants are not flowering or fruiting (i.e., generally between August and January). As described in the Draft MSHCP, the topsoil from the area within the study area that contains the potentially affected special-status plant populations will be excavated with the roots, rhizomes, and seed bank in place; depth of excavation will be determined after further research on the species and site conditions. 	<p>STA or its representative</p>	<p>Construction</p>				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<p><i>Mitigation Measure BR-14: Compensate for Loss of Pappose Spikeweed.</i></p> <ul style="list-style-type: none"> STA or the appropriate local agency will compensate for the permanent loss of occupied pappose spikeweed habitat. This compensation will include preservation at a ratio of 3:1 (3 acres preserved for each 1 acre of occupied habitat removed during construction). 	STA or its representative	Preconstruction/ Construction				
<p><i>Mitigation Measure BR-15: Implement Mitigation Measure BR-7: Modify Roadway Design to Maintain Natural Hydrology and Reduce Resource Loss.</i></p> <ul style="list-style-type: none"> Implementation of Mitigation Measure BR-7 requires modifications to roadway design that will reduce impacts on special status plants. 	STA or its representative	Design/ Construction				
<p><i>Mitigation Measure BR-16: Conduct Preconstruction Surveys for Western Pond Turtle.</i></p> <ul style="list-style-type: none"> A clearance survey for western pond turtles shall be conducted by a qualified biologist in all areas of aquatic habitat that cannot be avoided, within 24 hours prior to construction. If any western pond turtles are found, they should be moved, or encouraged to move to a safe location outside the construction zone. 	STA or its representative	Preconstruction/ Construction				
<p><i>Mitigation Measure BR-17: Conduct Preconstruction Surveys for Active Burrowing Owl Burrows and Implement the CDFG Guidelines for Burrowing Owl Mitigation, if Necessary.</i></p> <p>Retain a qualified biologist to conduct preconstruction surveys for active burrows according to CDFG guidelines. If no burrowing owls are detected, no further mitigation will be required. If active burrowing owls are detected in the survey area, STA or the appropriate local agency will implement the following measures:</p> <ul style="list-style-type: none"> Occupied burrows will not be disturbed during the nesting season (February 1 to August 31). 	STA or its representative	Preconstruction/ Construction				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<ul style="list-style-type: none"> When destruction of occupied burrows is unavoidable during the non-nesting season (September 1 to January 31), unsuitable burrows will be enhanced (enlarged or cleared of debris) or new burrows created (installing artificial burrows) at a ratio of 2:1 on protected lands approved by CDFG. Newly created burrows will be installed following guidelines established by CDFG. If owls must be moved away from the study area, passive relocation techniques (e.g., installing one-way doors at burrow entrances) will be used instead of trapping. At least one week will be allowed to accomplish passive relocation and allow owls acclimate to alternate burrows. If active burrowing owl burrows are found and the owls must be relocated, STA or the appropriate local agency will offset the loss of foraging and burrow habitat in the study area by acquiring and permanently protecting a minimum of 6.5 acres of foraging habitat per occupied burrow identified in the study area. If avoidance is the preferred method of dealing with potential impacts, no disturbance should occur within 160 feet of occupied burrows during the nonbreeding season (September 1 to January 31) or within 250 feet during the breeding season. 						
<p><i>Mitigation Measure BR-18: Implement the CDFG Guidelines for Swainson's Hawk Foraging Habitat Mitigation and Conduct Preconstruction Surveys for Nesting Swainson's Hawks.</i></p> <ul style="list-style-type: none"> The Staff Report Regarding Mitigation for Impacts to Swainson's Hawk (<i>Buteo swainsoni</i>) in the Central Valley of California (CDFG 1994b) recommends mitigation of the removal of suitable Swainson's hawk foraging habitat at a ratio determined by the distance to the nearest active nest. 	STA or its representative	Preconstruction/ Construction				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<ul style="list-style-type: none"> If construction is scheduled to occur during the Swainson's hawk breeding season (generally March 1 through August 31), STA or the appropriate local agency will retain a qualified wildlife biologist to conduct preconstruction surveys for nesting Swainson's hawks in suitable habitat within a 0.25-mile radius of the construction site. 						
<p><i>Mitigation Measure BR-19: Avoid Disturbance of Nesting Special-Status and Non-Special-Status Migratory Birds and Raptors.</i></p> <p>To avoid impacts on potentially nesting Cooper's hawk, white-tailed kite, northern harrier, and non-special-status migratory birds and raptors, implement the following avoidance and minimization measures:</p> <ul style="list-style-type: none"> To the extent possible, vegetation removal activities associated with the proposed action will be conducted outside the breeding season (generally between March 1 and August 31) for migratory birds and raptors. If vegetation removal activities are to take place during the breeding season for these species (generally between March 1 and August 31), a qualified wildlife biologist will be retained to conduct focused nesting surveys for Cooper's hawk, white-tailed kite, northern harrier, and non-special-status migratory birds and raptors. If other active non-special-status migratory bird nests are found in the study area, and if construction activities must occur during the breeding season, STA or the appropriate local agency will consult USFWS to develop and implement an MOU to promote the conservation of migratory bird populations. If surveys indicate that no special-status or non-special-status birds are nesting in or adjacent to the study area, no further mitigation will be required. 	<p>STA or its representative</p>	<p>Preconstruction/ Construction</p>				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<p><i>Mitigation Measure BR-20: Implement Mitigation Measure BR-7: Modify Roadway Design to Maintain Natural Hydrology and Reduce Resource Loss.</i></p> <ul style="list-style-type: none"> Implementation of Mitigation Measure BR-7 requires modifications to roadway design that will reduce impacts on threatened and endangered plant and wildlife species. 	<p>STA or its representative</p>	<p>Design</p>				
<p><i>Mitigation Measure BR-21: Compensate for the Permanent Loss of Contra Costa Goldfields.</i></p> <ul style="list-style-type: none"> Concurrently with implementation of Mitigation Measure BR-4, develop and implement a plan to compensate for the permanent loss of Contra Costa goldfields. The Contra Costa goldfields compensation plan will include mitigation for impacts on seasonal wetlands because the species is associated with seasonal wetlands. This compensation for permanent or temporary loss of Contra Costa goldfields in the study area, which has been determined in consultation with the USFWS and is described in their Biological Opinion for the project, a copy of which is included in this document in Appendix J, USFWS Biological Opinion and consistent with CEQA/NEPA and FHWA policies on mitigating effects to threatened or endangered species, will consist of the following: <p>As recommended in the Draft MSHCP, occupied Contra Costa goldfields habitat will be preserved in perpetuity at a combine total of 30.6 acres (prior to the groundbreaking of each construction phase STA will purchase 9.54 acres of Goldfield preservation). A total of 30.6 acres of the Contra Costa goldfields habitat will be protected (1.98 acres of habitat created and 28.62 acres will be preserved).</p>	<p>STA or its representative</p>	<p>Preconstruction</p>				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
Compensation for areas of Contra Costa goldfields indirectly affected in the study area will consist of the following: a. Occupied Contra Costa goldfields habitat will be preserved in perpetuity at a combine total of 30.6 acres (1.98 acres of habitat created and 28.62 acres will be preserved).						
<p><i>Mitigation Measure BR-22: Minimize Potential Impacts on Listed Vernal Pool Crustaceans and Contra Costa Goldfields.</i></p> a. Salvage of seeds, or topsoil with seeds for use in suitable enhanced, restored, and/or created Contra Costa goldfields pools, if such enhancement, restoration, or creation is approved by the USFWS. b. Construction will occur in the dry season (when pools are dry) unless otherwise authorized by the USFWS. c. In areas where complete avoidance, buffer areas, or equally effective protective measures to reduce the effects of surface disturbance and compaction are not feasible, the following measures shall be implemented: i. Prior to allowing any vehicles or heavy equipment into Walters Road extension Area, STA or their agent shall install wooden mats in all areas where vehicles will encroach upon vernal pool crustacean and/or Contra Costa goldfields habitat. ii. Wooden mats shall only remain in the habitat areas as long as necessary for the construction work in the area. As soon as the work is completed, all fabric, wooden mats and any other construction related materials shall be removed from the site. d. Mowing for fire hazards and other maintenance activities shall be limited to those detailed in the 404 permit. e. Discharge of water and/or dust control shall only occur in accordance with the Regional Water Quality Control Board permits.	STA or its representative	Construction				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<p><i>Mitigation Measure BR-23: Compensate for Permanent Losses of Vernal Pool Fairy Shrimp and Vernal Pool Tadpole Shrimp Habitat.</i></p> <ul style="list-style-type: none"> • To compensate for impacts on habitat for federally listed vernal pool fairy shrimp and vernal pool tadpole shrimp, preserve and create additional habitat for these species determined in consultation with the USFWS and is described in their Biological Opinion for the project, a copy of which is included in this document in Appendix J, USFWS Biological Opinion. This compensation, which is being provided pursuant to CEQA/NEPA and FHWA policies on mitigating effects to threatened or endangered species, will be achieved using the following: <ol style="list-style-type: none"> a. In areas considered to be occupied Contra Costa goldfields habitat, compensation for loss of vernal pool crustacean habitat will be accomplished concurrently with compensation for Contra Costa goldfields. (i.e., affected seasonal wetlands, including vernal pools, occupied by both CCGF and VP crustaceans are mitigated the same as those occupied only by CCGF, which exceeds the ratio for VP crustaceans). b. Suitable vernal pool crustacean habitat not occupied by Contra Costa goldfields will be preserved at a 4:1 ratio (4 acres preserved for every 1 acre of habitat directly or indirectly affected). Preservation lands will be established at a USFWS-approved conservation area, or preservation credits will be purchased from a USFWS-approved mitigation bank. 	<p>STA or its representative</p>	<p>Preconstruction/ Construction</p>				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<p>c. Suitable vernal pool crustacean habitat not occupied by Contra Costa goldfields will be created at a 2:1 ratio (2 acres created for every 1 acre of habitat directly affected). Vernal pools will be created at a USFWS-approved conservation area, or creation credits will be purchased from a USFWS-approved mitigation bank.</p>						
<p><i>Mitigation Measure BR-24: Minimize Impacts on Valley Elderberry Longhorn Beetle.</i></p> <ul style="list-style-type: none"> • Impacts on suitable elderberry shrubs shall be avoided during all phases of the proposed project where feasible. • For those shrubs that will not be directly removed by the project, any ground disturbing activities within 100 feet of elderberry plants with stems measuring 1.0 inch or greater in diameter at ground level shall conform to the following avoidance measures: <ul style="list-style-type: none"> a. STA shall provide a minimum setback of at least 20 feet from the drip line of each suitable elderberry shrub. The setbacks shall be fenced and flagged to prevent equipment and materials encroachment into the setback zone. Fire fuel breaks (disked land) may not be included within the 20 foot setback. b. Signs will be erected every five feet along the edge of the setback zone with the following information, "This area 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." c. Construction contractors shall be instructed about the status of the beetle, the need to protect its elderberry host plant, the need to avoid damaging the elderberry plants and the possible penalties for not complying with these requirements. 	<p>STA or its representative</p>	<p>Preconstruction/ Construction</p>				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
d. No insecticides, herbicides, fertilizers, or other chemicals that might harm the beetle or its host plant shall be used in the buffer areas, or within 100 feet of any elderberry plant with one or more stems measuring 1.0 inch or greater in diameter at ground level. e. Mowing of grasses/ground cover shall occur only from July through April to reduce fire hazard. No mowing shall occur within 50 feet of elderberry plant stems. f. Trimming of elderberry stems less than one inch in diameter may occur between September 1 and March 14.						
<p><i>Mitigation Measure BR-25: Compensate for Impacts on Valley Elderberry Longhorn Beetle.</i></p> <ul style="list-style-type: none"> To compensate for impacts on habitat for valley elderberry longhorn beetle, STA or the appropriate local agency will preserve and create additional habitat for these species using acreage approved by USFWS. All elderberry shrubs with one or more stems measuring one inch or more in diameter that will be directly affected by construction activities will be transplanted to a conservation area in accordance with USFWS's Conservation Guidelines for Valley Elderberry Longhorn Beetle.¹ Each elderberry stem measuring one inch or more in diameter at ground level that is within 100 feet of construction activities will be replaced in a conservation area with elderberry seedlings or cuttings at a ratio between 1:1 and 8:1. A mix of native tree and plant species representative of those associated with the elderberry shrubs in the study area will be planted in the conservation area. 	STA or its representative	Preconstruction/ Construction				

¹ U.S. Fish and Wildlife Service, 1999. Conservation guidelines for the valley elderberry longhorn beetle. July 9. Sacramento, CA.

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<ul style="list-style-type: none"> Each transplanted elderberry shrub will have at least 1,800 square feet of area. Maintenance, remedial measures, and reporting will be conducted, following the requirements of the USFWS guidelines (1999). 						
<p><i>Mitigation Measure BR-26: Minimize Potential Impacts on California Tiger Salamanders.</i></p> <ul style="list-style-type: none"> The contractor will minimize potential impacts on California tiger salamanders and their aquatic and terrestrial habitats during construction by implementing the following measures, consistent with the requirements of the USFWS Biological Opinion and CDFG Incidental Take Permit: <ol style="list-style-type: none"> To minimize disturbance of breeding and dispersing California tiger salamanders, all construction activity within California tiger salamander upland habitat (defined as all habitat within 1.24 miles of aquatic habitat) will be conducted during the dry season between May 1 and October 15 or before the onset of the rainy season, whichever occurs first. To minimize disturbance and mortality of adult and juvenile California tiger salamanders in aquatic habitat and underground burrows, STA or the appropriate local agency will minimize the extent of ground-disturbing activities within these habitats (grasslands within 1.24 miles of aquatic habitat) by requiring the contractor to limit the work area to the minimum necessary for construction. Consistent with Mitigation Measure BR-11, STA or the appropriate local agency will ensure that a qualified wildlife biologist monitors all construction activities within California tiger salamander upland habitat. 	STA or its representative	Preconstruction/ Construction				

Task and Brief Description	Responsible Agency	Timing / Phase	Action Taken to Comply with Task	Task Completed	Remarks	Environmental Compliance
<p><i>Mitigation Measure BR-27: Compensate for Removal and Disturbance of California Tiger Salamander Habitat.</i></p> <ul style="list-style-type: none"> Compensate for the removal or disturbance of potential upland habitat suitable aquatic habitat for California tiger salamanders, This compensation will be achieved as follows: STA or the appropriate local agency will preserve 68.1 acres of additional upland habitat within a USFWS-approved conservation area and aquatic habitat at a minimum 3:1 ratio (3 acres created or preserved for each 1 acre removed). 	<p>STA or its representative</p>	<p>Preconstruction/ Construction</p>				
<p><i>Mitigation Measure BR-28: Educate Construction Crews on Invasive Species Control and Prevention, and Monitor Compliance.</i></p> <ul style="list-style-type: none"> Consistent with the Draft MSHCP, the Executive Order on Invasive Species, E.O. 13112, and subsequent guidance from the Federal Highway Administration, avoid introducing or spreading invasive weeds into previously uninfested areas by ensuring that the biological resources education program for construction crews includes education on weed identification and the importance of controlling and preventing the spread of invasive weeds. Small, isolated infestations will be treated with CDFG-approved eradication methods at an appropriate time to prevent or destroy viable plant parts or seeds. All equipment will be washed before entering the study area. Equipment will be washed off site at a paved facility, located away from environmentally sensitive areas. The resource monitors will routinely inspect construction activities to verify that construction equipment is being washed. The contractor will implement measures set forth in the SWPPP to revegetate and restore disturbed areas immediately after construction is complete. 	<p>STA or its representative</p>	<p>Preconstruction/ Construction</p>				

Date: May 2011
 Environmental Coordinator:
 Solano Transportation Authority
 Phone: (707) 424-6075

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<p><i>Mitigation Measure BR-29: Implement Revegetation and Restoration Measures Required in the Storm Water Pollution Prevention Plan.</i></p> <ul style="list-style-type: none"> Once construction is complete, the contractor shall implement the measure set forth in the SWPPP to revegetate and restore disturbed areas immediately after construction. The revegetation portion of the SWPPP will require the use of certified weed-free native and non-native mixes. The SWPPP will also specify that all disturbed areas will be weeded and reseeded in subsequent years if determined necessary. 	<p>STA or its representative</p>	<p>Construction/ Post construction</p>				

