

Appendix F Minimization and/or Mitigation
Summary/Environmental
Commitment Record

Task and Brief Description	Reference by Section #	Responsible Branch/ Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
DESIGN KICK-OFF		Proj Eng _____	Design							
ENVIRONMENTAL PS&E REVIEW		Proj Eng _____	Design							
ENVIRONMENTAL COMPLIANCE REVIEW		Envi Plan _____	Design							
CONSTRUCTION KICK-OFF MEETING		Proj Quality Cont _____	Design							
Transfer Resident Engineer Book		Proj Quality Cont _____	Design							
PRECONSTRUCTION MEETING		Res Eng _____	Const							
Community Impacts										
The Uniform Relocation Assistance and Real Property Acquisitions Policies Act of 1970 (Uniform Act) (Public Law 910646, 84 Statutes 1894) mandates that certain relocation services and payments be made available to eligible residents, businesses, and nonprofit organizations displaced by its projects. The Uniform Act provides for uniform and equitable treatment by federal or federally assisted programs of persons displaced from their homes, businesses, or farms and establishes uniform and equitable land acquisition policies.	CI-1	Proj Eng _____ Res Eng _____	Design Construction	No						
Where acquisition and relocation are unavoidable, the provisions of the Uniform Act and the 1987 Amendments, as implemented by the Uniform Relocation Assistance and Real Property Acquisition Regulations for Federal and Federally Assisted Programs adopted by the United States Department of Transportation (March 2, 1989), will be followed. An independent appraisal of the affected property will be obtained, and an offer for the full appraisal will be made.	CI-2	Proj Eng _____ Res Eng _____	Design Construction	No						
Utilities and Emergency Services										
All public utility lines, pipes, and cables that are disturbed or removed to accommodate the proposed project must be replaced or relocated within the project limits to continue to meet the needs of residents and businesses in the community. During construction, arrangements must be made to avoid disruption in utility services. If interruption in service is unavoidable, then notice must be given and proper arrangements shall be made with residents and businesses.	U-1	Proj Eng _____ Res Eng _____	Design Construction	No						
In accordance with standard project requirements, a Transportation Management Plan (TMP) shall be prepared for the project prior to construction. The TMP will include plans and requirements for the project area that must be implemented during project construction to ensure traffic safety, minimize construction-related traffic congestion, and minimize driver and pedestrian inconveniences.	U-2	Res Eng _____	Construction	No						
To ensure that emergency response times are not disrupted, the Orange County Sheriff and Fire Departments must be informed of the project construction schedule, lane closures (if any), and detour plans (if any) well in advance of any detour plan or lane closure being implemented throughout the construction period.	U-3	Res Eng _____	Construction	No						
Area residents and owners/managers of businesses and public facilities must be continually informed of the project development and construction plans prior to and during the construction period so that they are aware of the construction timing, traffic detour plans, lane/road closures, and transit detour plans. Should ramp closures need to exceed 10 days, a full ramp closure study shall be completed for each ramp affected.	U-4	Res Eng _____	Construction	No						
Visual and Aesthetics										
To maintain the context of the project area (color, form, and texture), the project shall install landscaping that is compatible with the existing landscape along the portion of Interstate 5 (I 5) in the project vicinity and surrounding area. Landscaping shall include specimen-sized trees, and/or shrub/groundcover mass planting, as well as landscape treatment along walls to soften the hardscape features and glare and radiant heat from the walls. The landscape concept, plan, and plant palette shall be determined in consultation with, and approved by, the District Landscape Architect during the Plans, Specifications, and Estimate (PS&E) phase. The planting plan shall be reviewed and approved by the California Department of Transportation (Department) Biologist to avoid the use of invasive plant species. Replacement planting implementation shall be under a separate contract within a 2-year period following the completion of construction in accordance with Department policies. Trees in the interchange, in conflict with the roadway improvement design, shall be transplanted in the project area in a location in conformance with the planting policy requirements of the Department. The District Landscape Architect shall make the determination and approval of the tree transplantation. In areas where sound walls are visible from adjacent residential land use, vines and landscape shall be utilized to screen views to the wall. All vine and landscape proposed shall conform with the planting policy requirements of the Department.	VIS-1	Proj Eng _____ Landscape Architect _____	Design	No						
To minimize visual quality loss and to minimize visual disruption from the elements of highway construction, architectural treatment shall be provided to the walls in accordance with the Master Plan of Freeway and Transit Corridor Enhancements: Creating a Quality Environment Along Orange County's Transportation Network. All wall aesthetics shall be approved by the District Landscape Architect.	VIS-2	Proj Eng _____ Landscape Architect _____ Res Eng _____	Design Construction	No						
The District 12 Landscape Architecture Branch shall administer and chair an Aesthetic Design Review Team (ADRT) that includes local agency representatives to ensure that the project landscape and structural elements are in compliance with the aesthetic requirements of the Master Plan of Freeway and Transit Corridor Enhancement: Creating a Quality Environment Along Orange County's Transportation Network.	VIS-3	Proj Eng _____ Landscape Architect _____	Design	No						
Construction lighting types, plans, and placement shall be reviewed at the discretion of the District Landscape Architect in order to minimize light and glare impacts on surrounding	VIS-4	Proj Eng _____ Landscape Architect _____	Design	No						

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sensitive uses.										
Visually compatible groundcover in any basins or bioswales shall be implemented if they must occur within ornamental landscape areas <u>and as long as the performance of the basins or bioswales are not compromised.</u>	VIS-5	Proj Eng _____ Res Eng _____	Design Construction	No						
Cultural Resources										
If cultural materials are discovered during construction, all earthmoving activity within and around the immediate discovery area shall be diverted until a qualified archaeologist can assess the nature and significance of the find.	CR-1	Res Eng _____ <u>Envi Plan</u>	Construction	No						
If human remains are discovered, State Health and Safety Code Section 7050.5 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the County Coroner shall be contacted. Pursuant to Public Resources Code (PRC) Section 5097.98, if the remains are thought to be Native American, the Coroner shall notify the Native American Heritage Commission, which shall then notify the Most Likely Descendant (MLD). At this time, the person who discovered the remains shall also contact the District 12 Environmental Branch Chief so that they may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of PRC 5097.98 are to be followed as applicable.	CR-2	Res Eng _____ <u>Envi Plan</u>	Construction	No						
Hydrology and Floodplain										
Upon completion of construction, the agency shall process a Letter of Map Revision (LOMR) for the Segunda Deshecha Cañada 100-year floodway through the City of San Clemente, the Capistrano Unified School District, and the Federal Emergency Management Agency (FEMA).	FP-3	Res Eng _____	Construction	No						
Water Quality and Storm Water Runoff										
The proposed project will comply with the provisions of the Department Statewide NPDES Permit (Order Number 99-06-DWQ, NPDES Number CAS00003) and the NPDES General Permit, Waste Discharge Requirements (WDRs) for Discharges of Storm Water Runoff Associated with Construction Activities (Order Number 2009-0009-DWQ, NPDES Number CAS000002) and any subsequent permit in effect at the time of construction.	WQ-1	Proj Eng _____ <u>Envi Plan</u> Res Eng _____	Design Construction	No						
A SWPPP shall be prepared and implemented to address all construction-related activities, equipment, and materials that have the potential to impact water quality. The SWPPP shall identify the sources of pollutants that may affect the quality of storm water and include construction site BMPs to control pollutants, such as sediment control, catch basin inlet protection, construction materials management, and nonstorm water BMPs. All construction site BMPs shall follow the latest edition of the Storm Water Quality Handbooks: Construction Site Best Management Practices Manual (Department 2003) to control and minimize the impacts of construction-related activities, materials, and pollutants on the watershed. These include, but are not limited to, temporary sediment control, temporary soil stabilization, scheduling, waste management, materials handling, and other nonstorm water BMPs.	WQ-2	Proj Eng _____ <u>Envi Plan</u> Res Eng _____	Design Construction	No						
Construction site dewatering, if required, must comply with the General Waste Discharge Requirements for Discharges from Groundwater Extraction and Similar Discharges to Surface Waters Within the San Diego Region Except for San Diego Bay (Order Number R9-2008-0002 NPDES Number CAG919002), and any subsequent updates to the permit at the time of construction. Dewatering BMPs must be used to control sediment and pollutants, and the discharges must comply with the WDRs issued by the San Diego RWQCB. This will include submission of an NOI to the San Diego RWQCB at least three months before the start of dewatering and compliance with all applicable provisions in the De Minimus Permit, including water sampling, analysis, and reporting of dewatering-related discharges.	WQ-3	Res Eng _____	Construction	No						
The Department-approved treatment BMPs will be implemented to the MEP consistent with the requirements of the NPDES Permit, Statewide Stormwater Permit, WDRs for the State of California, Department of Transportation Properties, Facilities, and Activities (Order Number 99-06-DWQ, NPDES Number CAS000003), and any subsequent permits. Treatment control BMPs may include biofiltration strips/swales, infiltration basins, detention devices, dry weather flow diversion, media filters, and wet basins.	WQ-4	Res Eng _____	Construction	No						
Design pollution prevention BMPs shall be implemented, such as preservation of existing vegetation; slope/surface protection systems (permanent soil stabilization); and concentrated flow conveyance systems such as ditches, berms, dikes and swales, overside drains, flared end sections, and outlet protection/velocity dissipation devices.	WQ-5	Proj Eng _____ <u>Envi Plan</u> Res Eng _____	Design Construction	No						
Geology, Soils, Seismicity, and Topography										
During final design, the Department shall prepare a Final GDR, SFRs, and MRs for the proposed project. The Final GDR, SFRs, and MRs will be written after detailed site sampling and testing and will include design recommendations and hazard minimization recommendations. The recommendations of the Final GDR, SFRs, and MRs shall be incorporated into the final design for the proposed project. The Final GDR, SFRs, and MRs will minimize potential impacts to the project related to corrosive soils, seismic hazards, landslides, liquefaction and slope instability.	GEO-1	Proj Eng _____	Design	No						
Paleontology										
Prior to construction activities, the California Department of Transportation (Department) shall ensure that a Paleontological Mitigation Plan (PMP) is prepared and adhered to during construction of the project portions that are identified as having high paleontological sensitivity. The PMP shall include, but not be limited to, the following: <ul style="list-style-type: none"> A preconstruction field survey should be conducted in areas identified as having a high paleontological sensitivity after vegetation and any paving is removed, followed by 	PAL-1	Proj Eng _____ <u>Envi Plan</u> Res Eng _____	Pre-construction <u>Construction</u>	<u>Yes</u>						

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<p>salvaging of any observed surface paleontological resources prior to the beginning of additional ground-disturbing activities.</p> <ul style="list-style-type: none"> Attendance at the pregrade meeting by a qualified paleontologist or his/her representative. At this meeting, the paleontologist will explain the likelihood for encountering paleontological resources, what resources may be discovered, and the methods that will be employed if anything is discovered (see below). During construction excavation, a qualified vertebrate paleontologic monitor shall initially be present on a full-time basis whenever excavation will occur within the sediments that have a high paleontological sensitivity rating and on a spot-check basis for sediments that have a low sensitivity rating. Monitoring may be reduced to a part-time basis if no resources are being discovered in sediments with a high sensitivity rating (monitoring reductions and when they occur will be determined by the qualified Principal Paleontologist). The monitor shall inspect fresh cuts and/or spoils piles to recover paleontological resources. The monitor shall be empowered to temporarily divert construction equipment away from the immediate area of the discovery. The monitor shall be equipped to rapidly stabilize and remove fossils to avoid prolonged delays to construction schedules. If large mammal fossils or large concentrations of fossils are encountered, the agency shall consider using heavy equipment on site to assist in the removal and collection of large materials. Localized concentrations of small (or micro-) vertebrates may be found in all native sediments. Therefore, it is recommended that these native sediments occasionally be spot-screened on site through one-eighth to one-twentieth-inch mesh screens to determine whether microfossils are present. If microfossils are encountered, sediment samples (up to 3 cubic yards, or 6,000 pounds) shall be collected and processed through one-twentieth-inch mesh screens to recover additional fossils. Any recovered specimens shall be prepared to the point of identification and permanent preservation. This includes the sorting of any washed mass samples to recover small invertebrate and vertebrate fossils, the removal of surplus sediment from around larger specimens to reduce the volume of storage for the repository and storage cost, and the addition of approved chemical hardeners/stabilizers to fragile specimens. Specimens shall be identified to the lowest taxonomic level possible and curated into an institutional repository with retrievable storage. The repository institutions usually charge a one-time fee based on volume, so removing surplus sediment is important. The repository institution may be a local museum or university that has a curator who can retrieve the specimens on request. The Department requires that a draft curation agreement be in place with an approved curation facility prior to the initiation of any paleontological monitoring or mitigation activities. Preparation and submittal of the Paleontological Mitigation Report (PMR) documenting completion of the PMP for the Lead Agency (the Department). 			<u>Post Construction</u>								
Hazardous Wastes and Materials											
During Plans, Specifications and Estimates (PS&E), sampling for ADL shall be conducted within unpaved locations adjacent to the existing roadway right-of-way within the study area if such locations have not been tested.	HAZ-1	Proj Eng _____	Design	No							
During PS&E, testing and removal of yellow traffic stripes and pavement marking material will be performed in accordance with Standard Special Provision (SSP) 14-100.	HAZ-2	Proj Eng _____	Design	No							
Prior to completion of the Project Approval and Environmental Document (PA&ED) phase, an asbestos survey and sampling shall be conducted for existing bridges proposed to be demolished or modified at Camino Capistrano undercrossing (UC), "Route5/1 Separation", "5/N5-N1 Conn Separation", Avenida Vaquero UC, and Avenida Pico UC. The survey shall be conducted in conformance with the United States Environmental Protection Agency National Emissions Standards for Hazardous Air Pollutants (EPA NESHAPS) 40 Code of Federal Regulations (CFR) regulation and South Coast Air Quality Management District (SCAQMD) Rule 1403. Additionally, notification of the SCAQMD prior to any structure renovation or demolition is mandatory according to Rule 1403 (d)(1)(B).	HAZ-3	Proj Eng _____ Res Eng _____	Design Construction	No							
A survey and sampling for asbestos, LBP, and PCB-, mercury-, and chlorofluorocarbon (CFC)-containing equipment should be conducted during PS&E on building structures that are located within parcels that will be fully acquired as part of the proposed project. According to the City of San Clemente, Community View geographic information system (accessed at http://san-clemente.org/), the structures located on these potential full-take parcels at 524 Avenida Pico (Burger Stop) and 530 Avenida Pico (Shell) were constructed prior to 1970. Based on the latest geometric drawings dated February 16, 2010, structures located within parcels that will be partially acquired as part of the proposed project do not appear to be affected by the project and therefore, surveys and sampling is not recommended for the structures associated with these parcels. The surveys should be conducted in conformance with the EPA NESHAP 40 CFR regulation, and SCAQMD Rule 1403. Additionally, notification of the SCAQMD prior to any structure renovation or demolition is mandatory according to Rule 1403 (d)(1)(B).	HAZ-4	Proj Eng _____ Res Eng _____	Design Construction	No							
During PS&E, transformers that will be removed or relocated as part of the proposed project shall be sampled for PCBs.	HAZ-5	Proj Eng _____ Res Eng _____	Design Construction	No							
If signs of potential impact (odors, discolored soil, etc.) are observed during construction activity, construction shall cease and the California Department of Transportation's Unknown Procedures for Construction should be followed. Should groundwater be	HAZ-6	Proj Eng _____ Res Eng _____	Design Construction	No							

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encountered during construction activities, or if construction dewatering is necessary, then sampling and analysis of groundwater shall be conducted to identify the appropriate management and disposal of the groundwater.										
Properties proposed to be partially, or fully, acquired as part of the proposed project and that will need a Phase II investigation are 530 Avenida Pico (Shell Gas Station) and 600 Avenida Pico (Mobil Gas Station). Soil sampling will be conducted during PS&E to determine any residual soil contamination on these properties. If contaminated soil is determined to be present at these properties, then additional remedial action options may be necessary to properly address the clean-up, handling, and disposal of such material.	HAZ-7	Proj Eng _____ Res Eng _____	Design Construction	No						
Air Quality										
The following avoidance and minimization measures shall be utilized to reduce and otherwise address particulate emissions during construction.										
To reduce fugitive dust emissions, the construction contractor shall adhere to the requirements of South Coast Air Quality Management District (SCAQMD) Rule 403 during construction. These Best Available Control Measures (BACMs) specified in SCAQMD's Rule 403 shall be incorporated into the project construction. BACMs shall include, but not be limited to, the following: a) All construction site areas shall be watered at least twice daily. b) All trucks hauling soils, sand, gravel, and other loose materials shall be covered or required to maintain at least two ft of freeboard space. c) All paved access roads, parking areas, and staging areas at the construction site shall be swept at least twice daily. d) A nontoxic soil stabilizer or hydroseed shall be applied to parts of the construction site that are inactive for 10 or more days. e) Exposed dirt or sand stockpiles shall be enclosed, covered, or watered twice daily. f) Vehicle speeds shall be limited to 15 miles per hour in active construction areas. g) Construction equipment shall be scheduled to maximize use rates and minimize idling times. h) CARB certified gasoline and diesel fuels shall be used in the construction equipment.	AQ-1	Res Eng _____	Construction	No						
During clearing, grading, earth-moving, or excavation operations, excessive fugitive dust emissions shall be controlled by regular watering or other dust preventive measures using the following procedures, as specified in SCAQMD's Rule 403. • All material excavated or graded shall be sufficiently watered to prevent excessive amounts of dust. Watering shall occur at least twice daily with complete coverage, preferably in the late morning and after work is done for the day. • All material transported on site or off site shall be either sufficiently watered or securely covered to prevent excessive amounts of dust. • The area disturbed by clearing, grading, earth moving, or excavation operations shall be minimized so as to prevent excessive amounts of dust. • Visible dust beyond the property line emanating from the project shall be prevented to the maximum extent feasible. • These control techniques shall be indicated in project specifications.	AQ-2	Res Eng _____	Construction	No						
Project grading plans shall show the duration of construction. Ozone precursor emissions from construction equipment vehicles shall be controlled by maintaining equipment engines in good condition and in proper tune per manufacturer's specifications.	AQ-3	Proj Eng _____ Res Eng _____	Design Construction	No						
All trucks that are to haul excavated or graded material on site shall comply with State Vehicle Code Section 23114, with special attention to Sections 23114(b)(F), (e)(2) and (e)(4), as amended, regarding the prevention of such material spilling onto public streets and roads.	AQ-4	Res Eng _____	Construction	No						
The contractor shall adhere to Caltrans Standard Specifications for Construction (Sections 10 and 18 [Dust Control] and Section 39-3.06 [Asphalt Concrete Plant Emissions]).	AQ-5	Res Eng _____	Construction	No						
Should the project geologist determine that asbestos-containing materials (ACMs) are present at the project study area during final inspection prior to construction, the appropriate methods shall be implemented to remove ACMs.	AQ-6	Res Eng _____	Pre-construction	No						
Noise										
Construction activities shall be limited to the days and hours specified in the Municipal Codes of the Cities of San Clemente, Dana Point, and San Juan Capistrano as well as the County Code and Ordinances for the County of Orange.	N-1	Res Eng _____	Construction	No						
The control of noise from construction activities shall conform to the California Department of Transportation (Department) Standard Specifications, Section 14-8.02, "Noise Control," and also by Standard Provision S5-310. The noise level from the Contractor's operations, between the hours of 9:00 p.m. and 6:00 a.m., shall not exceed 86 dBA Leq(h) at a distance of 50 feet (ft). The contractor shall use an alternative warning method instead of a sound signal unless required by safety laws. In addition, the Contractor shall equip all internal combustion engines with a manufacturer-recommended muffler and shall not operate any internal combustion engine on the job site without the appropriate muffler.	N-2	Res Eng _____	Construction	No						
Prior to completion of PA/ED, the sound barriers that are determined to be reasonable and feasible shall be coordinated with the affected property owners. <u>All benefited residents and property owners will be notified should a change in placement or removal of any soundwall occur during the design phase. Additionally, all residents/property owners will be notified of final soundwall locations prior to 100% PS&E approval.</u>	N-3	Proj Eng _____ Res Eng _____	PA&ED Construction	No						
Unusual and extraordinary abatement measures, such as a feasible sound barrier that has an estimated construction cost exceeding the total reasonable allowance or interior noise abatement measures, will be considered for the residence represented by Receivers R-	N-4	Proj Eng _____ Res Eng _____	Design Construction	No						

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417, R-420, and R-421 under <u>Build</u> Alternative 4. Unusual and extraordinary abatement measures will also be considered at Receiver R-373, which would experience a severe traffic noise impact if, during final design, the sound barrier shielding this receiver is found to exceed the total reasonable allowance or is not approved during the sound barrier survey process. In addition, other measures including, but not limited to, double-paned windows, may be used. Unusual and extraordinary abatement measures would only be provided if the Department agrees to fund them. If interior noise abatement is recommended by the Department, an interior noise analysis will be conducted <u>during the design phase</u> to determine whether interior noise abatement is feasible. If interior noise abatement is feasible, such abatement measures will be offered to the affected property owners.										
Biology <u>Under the supervision of the Project Biologist, the limits of project impacts (including construction staging areas and access routes) will be clearly delineated with bright orange plastic fencing, stakes, flags, or markers that will be installed in a manner that does not impact habitats to be avoided and such that they are clearly visible to personnel on foot and operating heavy equipment. If work occurs beyond the fenced or demarcated limits of impact, all work will cease until the problem has been remedied to the satisfaction of the USFWS. Temporary construction fencing and markers will be removed upon project completion.</u>	BIO-1	Proj Eng _____ Envi Plan _____ Envi Plan _____ Res Eng _____	Pre-construction Construction	No						
<u>Caltrans will ensure that the following conditions will be implemented during project construction:</u> <ul style="list-style-type: none"> ▪ <u>The project site will be kept as clean of debris as possible. All food-related trash items will be enclosed in sealed containers and regularly removed from the site.</u> ▪ <u>Pets of project personnel will not be allowed on the project site.</u> ▪ <u>Impacts from fugitive dust will be avoided and minimized through watering and other appropriate measures.</u> ▪ <u>Cut and fill will be balanced within the project or the construction contractor will identify the source or disposal location. All spoils and material disposal will be disposed of properly.</u> ▪ <u>Appropriate erosion and siltation controls will be installed prior to the onset of vegetation clearing and be maintained in good repair until the completion of project construction. Erosion and sediment control devices used for the proposed project, including fiber rolls and bonded fiber matrix, will be made from biodegradable materials such as jute, with no plastic mesh, to avoid creating a wildlife entanglement hazard.</u> ▪ <u>All equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other such activities will be restricted to designated disturbed/developed areas. These designated areas will be located in such a manner as to prevent run-off from entering existing native vegetation areas.</u> ▪ <u>A construction Storm Water Pollution Prevention Plan (SWPPP) and soil erosion and sedimentation plan will be developed to minimize erosion and identify specific pollution prevention measures that will eliminate or control potential point and nonpoint pollution sources on site during construction and operation. The SWPPP will identify specific BMPs to be implemented during construction so as not to cause or contribute to an exceedance of any water quality standard. In addition, the SWPPP will contain provisions for changes to the plan, such as alternative mechanisms, if necessary, during project design and/or construction to achieve the stated goals and performance standards.</u> 	BIO-2	Envi Plan _____ Res Eng _____	Construction	No						
<u>For coastal sage scrub (CSS) occupied by coastal California gnatcatcher (CAGN) or in CAGN designated critical habitat, the mitigation ratios will be consistent with the United States Fish and Wildlife (USFWS) standards. Compensatory mitigation may include off-site acquisition of conservation lands and restoration efforts to enhance or create CSS which could be accomplished through participation in the Natural Community Conservation Plan/Habitat Conservation Plan/Master Streambed Alteration Agreement (NCCP/HCP/MSAA) being established by Measure M2.</u>	BIO-3	Res Eng _____	Construction	No						
<u>The I-5 HOV Lane Extension Project is expected to result in direct permanent impacts to areas believed not to be subject to jurisdiction under Sections 404 and 401 of the CWA or under Section 1600 of the California Fish and Game Code. Should the agencies assert jurisdiction over an area believed not to be subject to their jurisdiction and the project impacts this area, compensatory mitigation may be required by the resource agencies. If required, compensatory mitigation will be mitigated at a mitigation-to-effect ratio consistent with the ACOE and CDFG policies for no net loss of riparian/riverine habitat (e.g., wetlands) standards. This mitigation could be accomplished through participation in the NCCP/HCP/MSAA being established by Measure M2.</u>	BIO-4	Res Eng _____	Construction	No						
<u>Prior to clearing or construction (including any ground-disturbing activities), the CDFG and ACOE will be consulted and, if required, a Lake or Streambed Alteration Agreement with the CDFG, a Section 404 permit from the ACOE, and a Section 401 certification from the RWQCB will be obtained.</u>	BIO-5	Res Eng _____	Construction	No						

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<u>A qualified bat biologist will survey the project disturbance limits in June, prior to construction, to assess the potential for the Biological Study Area's (BSA) use for maternity roosting, since maternity roosts are generally formed in the late spring. The qualified bat biologist will also conduct preconstruction surveys because bat roosts can change seasonally. The surveys will include a combination of structure inspection, sampling, exit counts, and acoustic surveys.</u>	BIO-6	Res Eng _____	Construction	No						
<u>To avoid direct mortality to bats roosting in areas subject to impacts from construction activities, any structure with potential bat habitat will have temporary bat exclusion devices installed under the supervision of a qualified bat biologist prior to the initiation of construction activities. Exclusion will be conducted during the fall (September or October) to avoid trapping flightless young inside during the summer months or hibernating individuals during the winter. Such exclusion efforts must be continued to keep the structures free of bats until the completion of construction. All bat exclusion techniques will be coordinated between the Department District Biologist and the resource agencies.</u>	BIO-7	Res Eng _____	Construction	No						
<u>All work conducted on bridges will take place during the day to the extent feasible. If this is not feasible to conduct this work during daylight hours, impacts will be minimized by directing lighting and noise away from night roosting areas as much as possible.</u>	BIO-8	Proj Eng _____ Res Eng _____	Design Construction	No						
<u>Riparian vegetation adjacent to bat roosting sites will be kept intact to the extent feasible.</u>	BIO-9	Proj Eng _____ Res Eng _____	Design Construction	No						
<u>A biologist ("Project Biologist") approved by the USFWS will be on site during: a) initial clearing and grubbing; and b) weekly during project construction within 61 meters (m) [200 feet (ft)] of offsite CAGN and LBV habitat to ensure compliance with all conservation measures. The Project Biologist will be familiar with the habitats, plants, and wildlife in the project area to ensure that issues relating to biological resources are appropriately and lawfully managed. Caltrans will submit the biologist's name, address, telephone number, and work schedule on the project to the USFWS prior to initiating project impacts. The biologist will be provided with a copy of this consultation.</u>	BIO-10	Proj Eng _____ Envi Plan _____ Envi Plan _____ Res Eng _____	Pre-construction Construction	No						
<u>The clearing and grubbing of native habitats for the project will be conducted between September 1 and February 14 to avoid the CAGN and LBV breeding season (or sooner than September 1 if the Project Biologist demonstrates to the satisfaction of the USFWS that all nesting is complete). If vegetation clearing must be conducted during the breeding season, Caltrans will re-initiate consultation with the USFWS to address unanticipated effects to these species.</u>	BIO-11	Proj Eng _____ Envi Plan _____ Envi Plan _____ Res Eng _____	Pre-construction Construction	No						
<u>The Project Biologist will submit a final report to the USFWS within 120 days of project completion including photographs of impact areas and adjacent habitat, documentation that authorized impacts were not exceeded, and documentation that general compliance with all conservation measures was achieved. The report will specify numbers, locations, and sex of CAGNs and LBVs (if observed), observed CAGN and LBV behavior (especially in relation to project activities), and remedial measures employed to avoid and minimize impacts to CAGNs and LBVs. Raw field notes should be available upon request by the USFWS.</u>	BIO-12	Res Eng _____	Construction	No						
<u>An employee education program will be developed. Each employee (including temporary, contractors, and subcontractors) will receive a training/awareness program prior to working on the proposed project. They will be advised of the potential impact to the listed species and the potential penalties for taking such species. At a minimum, the program will include the following topics: occurrence of the listed and sensitive species in the area (including photographs), their general ecology, sensitivity of the species to human activities, legal protection afforded these species, penalties for violations of Federal and State laws, reporting requirements, and project features designed to reduce the impacts to these species and promote continued successful occupation of the project area.</u>	BIO-13	Res Eng _____	Construction	No						
<u>Caltrans will ensure that the following conditions will be implemented during project construction:</u> <ul style="list-style-type: none"> ▪ <u>Should construction occur within or adjacent to CSS or riparian habitats during the February 15 to August 31 CAGN and LBV nesting season, all construction equipment, fixed or mobile, will be equipped with properly operating and maintained mufflers to reduce construction noise.</u> ▪ <u>All pile driving for the project that will occur near habitats that support CAGNs and LBVs will be conducted between September 1 and February 14 to avoid the CAGN and LBV breeding season (or sooner than September 1 if the Project Biologist demonstrates to the satisfaction of the USFWS that all nesting is complete) and to minimize construction noise impacts to nesting CAGNs and LBVs.</u> ▪ <u>If nighttime construction is necessary, all project lighting (e.g., staging areas, equipment storage sites, roadway) will be selectively placed and directed onto the roadway or construction site and away from sensitive habitats. Light glare shields will be used to reduce the extent of illumination into sensitive habitats.</u> 	BIO-14	Res Eng _____	Construction	No						
<u>After construction, affected areas adjacent to native vegetation will be revegetated with plant species native to the vicinity approved by the California Department of Transportation District Biologist. A plant establishment period will be developed for revegetated areas during final design, allowing for a duration of time for newly installed plant material to reach a state of maturity, requiring minimal ongoing maintenance for survival. A plant establishment period typically includes the removal of litter and trash, weeding, water application, irrigation repair, replacement of plant material that dies, and other activities required to ensure the long-term survival of plant material.</u>	BIO-15	Res Eng _____	Prior to and After Construction	No						

Task and Brief Description	Reference by Section #	Responsible Branch/ Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
<p>Caltrans will ensure that the following conditions will be implemented with regard to project landscaping:</p> <ul style="list-style-type: none"> Caltrans will ensure that project landscaping does not include exotic plant species listed on the California Invasive Plant Council's (Cal-IPC) "Invasive Plant Inventory" list. A copy of the complete list can be obtained from Cal-IPC's web site at http://www.cal-ipc.org. If invasive weed species are already growing within the project area, special care will be taken during transport, use, and disposal of soils containing invasive weed seeds to ensure that invasive weeds are not spread into new areas by the project. All heavy equipment will be washed and cleaned of debris prior to entering a new area to minimize the spread of invasive weeds. Eradication strategies will be implemented should an invasion of nonnative plant species occur. The 0.31 ac CSS temporary impact area will be revegetated with native coastal sage scrub species. The proposed seed palette will be provided to the CFWO for review and approval prior to application in the field. A 3-year plant establishment is proposed that will include exotic species removal and reapplication of seed as necessary. 	BIO-16	Res Eng _____	Prior to and After Construction	No					-	-
Permits and Approvals										
United States Army Corps of Engineers										
Section 404 Permit for filling/dredging waters of the United States (Nationwide Permit 14). The Department is to obtain letter or permit after certification of environmental document.		Proj Eng _____ Envi Plan _____	Design	No						
United States Fish and Wildlife Service										
California Department of Fish and Game										
1602 Lake or Streambed Alteration Agreement - The Department is to obtain permit after certification of environmental document.		Proj Eng _____ Envi Plan _____	Design	No						
Regional Water Quality Control Board										
Section 401 Water Quality Certification - The Department is to obtain certification after certification of environmental document.		Proj Eng _____ Envi Plan _____ Res Eng _____	Design Construction	No						
State Water Resources Control Board										
Section 402 NPDES (Construction Activity)/Caltrans NPDES Permit CAS000003 and CAS000002 (General Permit) - The Construction General Permit has been adopted and was effective as of July 1, 2010. The Caltrans NPDES Permit was effective as of July 15, 1999.		Proj Eng _____ Envi Plan _____ Res Eng _____	Design Construction	No						
Orange County Flood Control District										
Encroachment Permit - The Department is to obtain letter or permit.		Proj Eng _____ Envi Plan _____ Res Eng _____	Design Construction	No						
Orange County Health Care Agency										
Well permit for wells and test borings - The Department is to obtain letter or permit.		Proj Eng _____ Envi Plan _____	Design	No						
Federal Highway Administration (FHWA)										
Modified Access Report (MAR) - The Department is to obtain FHWA approval of the MAR.		Proj Eng _____ Envi Plan _____	Design	No						