Appendix C

Environmental Commitment Record

Task and Brief Description	Ref. Measure Number	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 Mgmt & Proj Dev	Beginning of 1 phase							
ENVIRONMENTAL PS&E REVIEW		Proj Mgmt & Environmental	District PS&E Circ							
PRECONSTRUCTION MEETING		Proj Mgmt	Contract Award							
Transfer Resident Engineer Book		Proj Eng	Preconst Meeting							
PREJOB MEETING		Proj Mgmt & Const	Const							
ENVIRONMENTAL COMPLIANCE REVIEW		Proj Mgmt & Const	Safety Review							
DESIGN FEATURES MEMORANDUM		Proj Mgmt & Const	Post Const							
Community Impacts		.								
During final design, a community outreach program will be developed, in consultation with the City of Brea and Caltrans, to inform the community about proposed project construction activities, as well as the changes to access. This community outreach program will also provide a point of contact for nearby residences and businesses that will be adjacent to the project site. The community outreach program will maintain a hotline to take messages and to provide updates on construction scheduling and any lane closures and detours.	COMM-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
During construction, the contractor will be required to coordinate all temporary ramp closures and detour plans with the City of Brea School District, as well as with applicable fire, emergency, medical, and law enforcement providers to minimize temporary delays in school trips and provider response times. This coordination will follow the guidance provided in the community outreach program and the traffic management plan.	COMM-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
During construction, the contractor shall be required to notify the City of Brea Police and Fire Departments, medical service providers, and the City of Brea School District and shall supply such entities with construction plans prior to the commencement of construction, as applicable. Such information shall include traffic management plans referring to the temporary ramp closures and detour plans and any other restrictions that may be necessary during the construction phase in order to minimize temporary delays in school trips and provider response times.	COMM-3	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
During final design, the project shall develop and implement a construction (traffic) management program that maintains access to and from the proposed project area through signage, detours, flagmen, etc. during all construction activities. Provisions within the traffic management program shall include, but are not limited to, providing signage identifying construction schedule and detours, providing detours around the construction area, and implementing a public awareness program.	COMM-4	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
During construction, the contractor will temporarily restripe parking stalls within the Orange County Transportation Authority Park-and-Ride lot, to maintain full parking capacity. Upon construction completion, the contractor will permanently restripe the OCTA Park-and-Ride lot, with the original number of spaces to ensure no net loss in parking.	COMM-5	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
During final design, property owners located within the acquisition area shall be notified of their rights and benefits during the acquisition period. The City of Brea acquisition guidelines shall be followed to determine a fair market value of properties affected in accordance with the Uniform Relocation Assistance and Real Property Acquisitions Policies Act (Uniform Act) of 1970 (Public Law 91-646, 84 stat. 1984). The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Uniform Act) (Public Law 91-646, 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. The City will provide all affected property owners with a copy of the Uniform Act. The City will comply with the Uniform Act. The compensation awarded to the property owner shall adequately offset the loss of the property value. The Uniform Act will also require compensation for any relocation costs associated with Temporary Construction Easements (TCE).	REL-1	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer Caltrans: Resident Engineer	Final Design	NO						
During final design, where acquisition and relocation occur, 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.	REL-2	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer Caltrans: Resident Engineer	Final Design	NO						
The Uniform Act requires that comparable, decent, safe, and sanitary replacement housing that is within a person's financial means be made available before that person will be displaced. In the event that such replacement housing is not available for persons displaced by the proposed project within the statutory limits for replacement housing payments, last resort housing will be provided in a number of prescribed ways.	REL-3	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer Caltrans: Resident Engineer	Final Design	NO						
Utilities/Emergency Services										
Prior to commencement of construction, the City will coordinate with all affected utility providers to establish exact procedures and specifications for all facilities to be relocated during construction. Additionally, the Project Engineer will notify other service purveyors in the vicinity of the improvements to verify that the proposed activities would not disrupt services to the community.	UES-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
Prior to and during construction, the project will coordinate with the California Highway Patrol, City of Brea Police and Fire Department, local public and private ambulance and paramedic providers, and the public school districts in the vicinity of the proposed project to provide information on construction schedule, duration of any lane closures, alternate routes during lane closures, as well as throughout the construction period, and to provide contact information in case of changing construction activities and schedule. This coordination will follow the guidance provided in the community outreach program and the traffic management plan.	UES-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
At least 48 hours prior to commencement of excavation work, the City will contact Underground Service Alert (USA) to verify the nature and location of other existing underground utilities, and to avoid the unplanned disruption of pipes or service lines during construction activities.	UES-3	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
Prior to commencement of construction, the City will prepare a Traffic Management Plan (TMP) in coordination with the California Department of Transportation (Caltrans). The TMP will consist of prior notices, adequate sign-posting, detours, phased construction, and temporary driveways. The TMP will specify implementation timing of each plan element (prior notices, sign-posting, detours, etc.) as determined appropriate by Caltrans. Adequate local and emergency access will be provided at all times to adjacent uses. Proper detours and warning signs will be established to ensure public safety. The TMP will be devised so that construction will not interfere with any emergency response or evacuation plans. Construction activities will proceed in a timely manner to reduce impacts.	UES-4	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
Traffic and Transportation/Pedestrian and Bicycle Facilities										
Prior to the start of construction, the project shall establish a community outreach program to inform the community about the proposed project construction activities, as well as changes to access. This community outreach program will also provide a point of contact for nearby residences and businesses that will be adjacent to the proposed project site. The community outreach program will maintain a hotline to take messages and to provide updates on construction scheduling and any lane closures and detours.	T-1	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer	Final Design Construction	NO						
During construction, temporary signage will be installed notifying the public of closures or detours and the expected duration of the closure. This applies not only to the roadways, but also pedestrian and bicycle facilities. The timing of the temporary signage installation will be in accordance with the traffic management plan.	T-2	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer	Final Design Construction	NO						
Prior to the start of construction, coordination with the California Highway Patrol, City of Brea Police and Fire Department, the City of Brea Fire Department, local public and private ambulance and paramedic providers, and the public school districts will be initiated to provide information on the construction schedule, duration of any lane closures, details regarding the schedule of the movement of equipment to and from the project site, alternate routes at the time of the equipment movement, and to provide contact information in case of changing construction activities. This coordination will follow the guidance provided in the community outreach program and the traffic management plan.	T-3	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer	Final Design Construction	NO						
Prior to construction, the City will prepare a Traffic Management Plan (TMP) in coordination with the California Department of Transportation (Caltrans). This TMP will consist of prior notices, adequate sign-posting, and temporary driveways. The TMP will specify implementation timing of each plan element (prior noticing, sign-posting) as determined appropriate by Caltrans. Adequate local and emergency access will be provided at all times to adjacent uses. Proper detours and warning signs will be established to ensure public safety. The TMP will be devised so that construction will not interfere with any emergency response or evacuation plans. Construction activities will proceed in a timely manner to reduce impacts.	T-4	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer	Final Design Construction	NO						
Visual/Aesthetics										
To minimize visual quality loss and to minimize the visual disruption from the elements of the highway construction, architectural treatments shall be applied to the relocated walls in general conformance with the proposed treatments installed as part of the SR-57 Northbound Widening Project. All architectural treatments shall conform to the Master Plan of Freeway and Transit Corridor Enhancement: Creating a Quality Environment along Orange County's Transportation Network and be approved by the District Landscape Architect during the Plans, Specifications, and Estimates (PS&E) phase.	VIS-1	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer Caltrans: Resident Engineer	Final Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
To maintain the context of the proposed project area (color, form, and texture), the proposed project shall install landscaping that is compatible with the existing landscape in the area and new landscaping installed as part of the SR-57 Northbound Widening Project along the portion of SR-57 in the proposed project vicinity. Landscaping shall include trees and/or shrub/groundcover mass planting, and 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 Estimates (PS&E) phase. The planting plan shall be reviewed and approved by the Department Biologist to avoid the use of invasive plant species. Replacement planting implementation shall be under a separate contract within a two-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 proposed project area in a location in conformance with the planting policy requirements of Caltrans. The District Landscape Architect shall make the determination and the approval of the tree transplantation.	VIS-2	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer Caltrans: Resident Engineer	Final Design Construction	YES						
The proposed project shall install either an opaque perimeter wall (similar to the existing cinderblock wall) or appropriate landscaping (landscaped berms or trees) sufficient to screen direct views from the Country Woods Apartment Homes to the proposed project. This architectural feature shall conform to the Master Plan of Freeway and Transit Corridor Enhancement: Creating a Quality Environment along Orange County's Transportation Network and be reviewed and approved by the District Landscape Architect during the Plans, Specifications, and Estimates (PS&E) phase.	VIS-3	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer Caltrans: Resident Engineer	Final Design Construction	NO						
Construction lighting types, plans, and placement shall be reviewed at the discretion of the District Landscape Architect, during the Plans, Specifications, and Estimates (PS&E) phase.	VIS-4	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer Caltrans: Resident Engineer	Final Design Construction	YES						
The proposed project shall consider implementation of a transparent soundwall, per the Caltrans TNAP, in order to maintain distant views from the outdoor patio of the El Torito Grill Restaurant. The soundwall design and long-term maintenance shall be approved by the Caltrans Landscape Architect and Caltrans Maintenance staff during the PS&E Phase.	VIS-5	F/ETCA: Project Engineer Caltrans: Project Engineer F/ET CA: Resident Engineer Caltrans: Resident Engineer	Final Design Construction	NO						
Cultural Resources										
If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area will be diverted until a qualified archaeologist can assess the nature and significance of the find. At this time, the person who discovered the remains will contact the City of Brea and the Caltrans District 12 Environmental Branch so that they may coordinate on an appropriate plan of action. If the find is determined by archaeologists to require further treatment, the area of discovery will be protected from disturbance while qualified archaeologists and appropriate officials, in consultation with the State Historic Preservation Officer (SHPO), determine an appropriate treatment plan. An additional archaeological survey will be required if the proposed project limits are extended beyond the present Area of Potential Effects (APE).	CULT-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor Caltrans: Environmental	Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
If human remains are discovered, State Health and Safety Code Section 7050.5 states that further disturbances and activities shall stop in any area or nearby area suspected to overlie remains, and the County Coroner contacted. Pursuant to CA Public Resources Code (PRC) Section 5097.98, if the remains are thought to be Native American, the coroner will notify the Native American Heritage Commission (NAHC), which will then notify the Most Likely Descendent (MLD). At this time, the person who discovered the remains will contact the City of Brea and the Caltrans District 12 Environmental Branch 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.	CULT-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor Caltrans: Environmental	Construction	NO						
Water Quality and Stormwater Runoff										
The project will comply with the provisions of the Caltrans Statewide NPDES Permit (Order Number 2012-0011-DWQ, NPDES Number CAS000003) 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	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	YES						
A Stormwater Pollution Prevention Plan (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 stormwater and include the construction site best management practices (BMPs) to control pollutants such as sediment control, catch basin inlet protection, construction materials management and non-stormwater BMPs. All construction site BMPs shall follow the latest edition of the Storm Water Quality Handbooks: Construction Site Best Management Practices (BMPs) Manual (Caltrans, 2003) to control and minimize the impacts of construction related activities, material 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 non-stormwater BMPs.	WQ-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer	Final Design Construction	NO						
Construction site dewatering will comply with the Santa Ana Regional Water Quality Control Board's (RWQCB's) Order R8-2009-0003, NPDES Permit Number CAG998001, for discharges to surface waters that pose an insignificant (de minimus) threat to water quality. If dewatering occurs during construction of the project, it will comply with this permit including, but not limited to, the specific reporting and notification requirements.	WQ-3	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
Caltrans approved treatment Best Management Practices (BMPs) will be implemented consistent with the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit, Statewide Stormwater Permit, and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation (Caltrans) Properties, Facilities, and Activities (Order Number 2012-0011-DWQ, NPDES Number CAS000003) and any subsequent permits. Treatment BMPs include, but are not limited to, biofiltration strips/swales, infiltration basins, detention devices, dry weather flow diversion, Gross Solids Removal Devices (GSRDs), media filters, and wet basins.	WQ-4	F/ETCA: Project Engineer F/ET CA: Resident Engineer	Final Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
Design Pollution Prevention Best Management Practices (BMPs) shall be implemented. These include, but are not limited to, preservation of existing vegetation, slope/surface protection systems (permanent soil stabilization), concentrated flow conveyance systems such as ditches, berms, dikes and swales, overside drains, flared end sections, and outlet protection/velocity dissipation devices. This includes, but is not limited to: a. All equipment maintenance staging, and dispensing of fuel, oil, coolant, or any other such activities will be restricted to designated disturbed/developed areas. They will be located such that runoff from the designated areas will not enter gnatcatcher-designated critical habitat.	WQ-5	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
Geology/Soils/Seismic/ Topography	-									
The project will be constructed in accordance with the California Building Code (CBC) and all applicable Caltrans standards and regulations. All construction activities shall adhere to current engineering practices. If fills must be borrowed from, or disposed of offsite, the construction contractor will identify any necessary borrow and disposal sites and provide this information to the City and Caltrans for review. Caltrans will review borrow and disposal site information and submit the information to the Carlsbad USFWS Office. If borrow or disposal activities may affect a listed species or critical habitat, Caltrans will reinitiate Section 7 consultation.	GEO-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
During final design, appropriate foundation types and depths will be designated (including foundation modifications in the case of existing structures) so that ground movements will not adversely affect the structure.	GEO-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
Appropriate erosion-control measures and siltation controls will be incorporated into the construction documents and implemented during site preparation, grading, and construction. These measures will be installed prior to the onset of vegetation clearing and be maintained in good repair until the completion of project construction. These measures include, but are not limited to, protecting exposed slope areas, control of surface flows over exposed soils, use of wetting or sealing agents and/or sedimentation ponds, and limiting soil excavation in high winds. Erosion and sediment control devices used for the 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.	GEO-3	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
Paleontology										
Prior to final design, a monitoring program (Paleontological Mitigation Plan) will be developed by a qualified paleontologist for the excavation in the Alluvial Fan Deposits, the La Habra Formation, and the Fernando Formation to minimize effects on nonrenewable paleontological resources. It is possible that as details of the proposed project, such as proposed excavation depths, are better refined, it will be determined that areas identified as having high sensitivity will in fact not require monitoring during excavation, as the ground disturbance will not extend deep enough below the surface to encounter paleontological resources. The monitoring program will include, but is not limited to, the following: • A pre-construction, one-hour Paleontological Awareness Training will be conducted in which a qualified principal paleontologist (MS or PhD in paleontology or geology familiar with paleontological procedures and techniques) will identify areas subject to monitoring and explain procedures necessary to protect and safely avoid impacts to potentially significant fossil materials for study and curation. This one-hour Paleontological Awareness Training will be given to all construction field staff prior to the initiation of any ground disturbing activities. • During construction excavation, a qualified vertebrate paleontological monitor will initially be present on a full-time basis whenever excavation occurs within the sediments that have a high paleontological sensitivity rating, and on a spot-	PALEO-1	F/ETCA: Project Engineer Caltrans: Project Engineer F/ETCA: Resident Engineer Caltrans: Resident Engineer F/ETCA: Environmental Caltrans: Environmental	Design Construction Post - Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
check basis for excavation in 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, when they occur, will be determined by the qualified Principal Paleontologist). The monitor will inspect fresh cuts and/or spoils piles to recover paleontological resources. The monitor will be empowered to temporarily divert construction equipment away from the immediate area of the discovery. The monitor will 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, Caltrans will 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, these sediments will occasionally be spot-screened on site through 1/8- to 1/20-inch mesh screens to determine whether microfossils are present. If microfossils are encountered, sediment samples (up to 3 cubic yards, or 6,000 pounds) will be collected and processed through 1/20-inch mesh screens to recover additional fossils. • If fossil remains are found, the recovered specimens will 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. • If fossil remains are found, the recovered specimens will 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 will be a local museum or university with a curator who can retrieve the specimens on request. A draft curation agreement will be in place with an approved curation facility prior to the initiation of any paleontological monitoring or mitigation activities. • The methods employed during monitoring and/or recovery of fossil specimens will be documented in a Paleontological Mitigation Report.										
Hazardous Waste/Materials										
A Phase II/Site Characterization Specialist shall conduct sampling, during the Design Phase of the project, along the project site in order to determine whether or not contamination exists in association with aerially deposited lead from SR-57 and Lambert Road. Results of the sampling will indicate the level of remediation efforts required. Any special handling, treatment, or disposal provisions associated with aerially deposited lead will be included in the construction document. If soluble levels are above 5 milligrams per liter (mg/L), then soils are considered hazardous waste and shall be handled according to CCR Title 22, the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substance Control (DTSC) variance for lead-contaminated soils. Per the Department aerially deposited lead soil management guidelines, soil from the 0.5-foot depth is classified as Type Y-1. If excavation soil from the 0.5-foot depth is reused at the site, it shall be placed a minimum of five feet above the maximum water table elevation and covered with at least one foot of non-hazardous material. If there is surplus material, then the soil is classified as Type A-2 and shall be disposed of at a regulated Class I landfill. Soils from the remaining depth layers (1.5, 3, and 4 feet) are considered non-hazardous (Type X) and can be reused at the site without any restrictions.	HAZ-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer	Final Design	NO						
Any transformer to be relocated/removed during site construction/demolition shall be conducted under the purview of the local purveyor to identify proper handling procedures regarding PCBs.	HAZ-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
If construction activities result in demolition or renovation of the structures at APN 320-101-10 (Country Woods Apartment Homes located at 315 Associated Road) and the bridge structures (Lambert Road undercrossing and Brea overhead), pursuant to South Coast Air Quality Management District (SCAQMD) regulations, an asbestos survey shall be conducted by an Asbestos Hazard Emergency Response Act (AHERA) and California Occupational Safety and Health Administration (Cal/OSHA) certified building inspector to determine the levels of asbestos in the on-site structure, prior to demolition. Compliance with District Rule 1403 (Asbestos Emissions from Demolition/Renovation Activities) shall be required for any demolition or renovation work involving asbestos containing materials (ACMs).	HAZ-3	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	YES						
If construction activities result in demolition or renovation of the structures at APN 320-101-10 (Country Woods Apartment Homes located at 315 Associated Road), the on-site bridge structures (Lambert Road undercrossing and Brea overhead), as well as the on-site roadways containing yellow traffic striping (Lambert Road and SR-57), the generated waste shall be disposed of at an appropriate, permitted disposal facility as determined by a lead specialist.	HAZ-4	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	YES						
The following note shall appear on all final maps and grading plans: "If during grading or construction, any plugged and abandoned unrecorded wells are uncovered or damaged, the Department of Oil, Gas and Geothermal Resources (DOGGR) will be contacted to inspect and approve any remediation required."	HAZ-5	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
If during grading or soil excavation, evidence of petroleum products is discovered and appears to continue below the ground surface, construction activities shall stop immediately and sampling shall be performed to characterize the extent of contamination. If applicable, remediation shall include removal of soil and proper disposal at an approved facility.	HAZ-6	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
If suspect materials or wastes of unknown origin are discovered during construction on the proposed project site, which is thought to include hazardous waste materials the following shall occur: • All work shall immediately stop in the vicinity of the suspected contaminant; • Project engineer of the implementing agency shall be notified; • Area(s) shall be secured as directed by the Project Engineer; • Notification shall be made to the appropriated agency's Hazardous Waste/Materials Coordinator.	HAZ-7	F/ETCA: Project Engineer F/ET CA: Resident Engineer	Final Design Pre-Construction	NO						
Build Alternative 7A: Prior to any construction activities at APN 320-101-17 (Brea Car Wash & Detail Center, 1700 East Lambert Road), the underground storage tanks (USTs) will be removed and properly disposed of at an approved landfill facility under the purview of the appropriate lead agency (i.e., Orange County Department of Environmental Health, or appointee). Once the USTs are removed, sampling shall be conducted by a Phase II/Site Characterization Specialist. Results of sampling will indicate the level of remediation efforts required. Based on Phase II results at APN 320-101-17, remediation includes, but is not limited to, placing soil a minimum of five feet above the maximum water table elevation and covering with a minimum of one foot of non-hazardous material, or disposing soil at a regulated Class I landfill. Consultation with appropriate regulatory agencies shall be conducted prior to and during UST removal, soil sampling and post-soil sampling.	HAZ-8	F/ETCA: Project Engineer F/ET CA: Resident Engineer	Final Design Pre-Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
Air Quality	-									
A Dust Control Plan shall be prepared prior to the start of construction, which shall cover all construction activities as well as all temporary construction easements. 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 the SCAQMD Rule 403, as well as other State and Federal regulations. • 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. • These control techniques shall be indicated in project specifications. Compliance with this measure shall be subject to periodic site inspections by the city. • Visible dust beyond the property line emanating from the project shall be prevented to the maximum extent feasible.	AQ-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final 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-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
The contractor shall adhere to Caltrans Standard Specifications for Construction (Sections 14-9 [Air Quality]).	AQ-3	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
Noise										
To minimize the construction noise impacts for sensitive land uses adjacent to the proposed project site, compliance with Caltrans' Standard Specifications Section 14-8.02 "Noise Control" will be required.	N-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Contractor	Final Design Construction	NO						
Each internal combustion engine used for any purpose on the construction of the proposed project or related to the proposed project will be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine will be operated on the proposed project site without such a muffler.	N-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator	Final Design Construction	NO						
To minimize operation impacts for both Build Alternatives 7A and 9, noise barrier number 1 (NB No. 1) will be considered in the project design at the designated location. Preliminary noise barrier dimensions on the physical locations, lengths, and range of heights of the noise barrier will be provided in the analysis. Final heights and lengths for NB No. 1 shall be determined during final design and public review. If pertinent parameters change substantially during the final project design, preliminary noise barrier designs may be modified, added, or eliminated from the final project.	N-3	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator	Final Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
Energy										
Prior to the issuance of a grading permit, a construction efficiency plan will be prepared, which may include the following: • Select disposal sites in close proximity to the SR-57/Lambert Road Interchange project area to minimize haul distances and excavation-related fuel consumption • Reuse existing rail, steel, and lumber, such as for falsework, shoring, and other applications during the construction process • Recycle asphalt taken up from roadways • Use newer, more energy-efficient equipment and maintain older construction equipment in good working order • Schedule construction operations to result in the most efficient use of construction equipment possible • Promote employee carpooling The construction efficiency plan will incorporate relevant city, county, state, and federal energy requirements and shall be reviewed and approved by the Public Works Departments for each of the local jurisdictions that are within the project area.	E-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator	Final Design Construction	NO						
Prior to the opening of the project, a maintenance efficiency plan will be prepared, which may include the following: • Maintain maintenance equipment in good working order • Schedule maintenance operations to result in the most efficient use of maintenance equipment possible	E-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator	Final Design Construction	NO						
Prior to issuance of a grading permit, an area lighting plan shall be prepared to identify lighting fixtures that are energy efficient and to identify placement of individual lighting fixtures used for roadway lighting that will provide safety lights for pedestrians and motorists. The area lighting plan will incorporate relevant city, county, state, and federal energy code requirements and shall be reviewed and approved by the California Department of Transportation (Caltrans) and the City of Brea Public Works Department.	E-3	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator	Final Design Construction	NO						
Biology										
During construction, when work is conducted during the fire season (as identified by the Orange County Fire Authority) adjacent to the sage scrub-grassland vegetation, appropriate firefighting equipment (e.g., extinguishers, shovels and water tankers) will be available on site during all phases of proposed project construction. Shields, protective mats, and/or other fire preventive methods will be used during grinding, welding, and other spark-inducing activities. Personnel trained in fire hazards, preventive actions, and responses to fires will advise the construction contractors regarding fire risk from all construction-related activities.	NC-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						
Prior to the start of any construction activities, temporary construction fencing will be erected outside the jurisdictional limits of Drainage Feature H and no vehicles or construction materials will be permitted inside the environmentally sensitive area (ESA) fencing.	WET-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
To avoid impacts to nesting birds, any native vegetation removal or tree (native or exotic) trimming activities will occur outside of the nesting bird season. In the event that vegetation clearing is necessary during the nesting season (i.e., February 15 to August 31), a qualified biologist shall conduct a pre-construction survey to identify the locations of nests. Should nesting birds be found, an exclusionary buffer will be established by the biologist. This buffer will be clearly marked in the field by construction personnel under guidance of the biologist, and construction or clearing will not be conducted within this zone until the biologist determines that the young have fledged or the nest is no longer active.	AN-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						
To prevent proposed project effects to bridge and crevice-nesting birds (i.e., swifts and swallows), all work on existing bridges with potential habitat conducted between February 15 and October 31 will include inspection for, and removal of, all bird nests prior to construction under the guidance and observation of a qualified biologist prior to February 1 of that year, before the nesting colony returns to the nesting site. Removal of nests that are under construction must be repeated as frequently as necessary to prevent nest completion or until a nest exclusion device is installed (such as netting or a similar mechanism that keeps birds from building nests). Nest removal and exclusion device installation will be monitored by a qualified biologist. Such exclusion efforts must be continued to keep the structures free of swallows until September or completion of construction. All nest exclusion techniques will be coordinated among the Department's District Biologist and the resource agencies.	AN-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						
The following habitat replacement and maintenance shall be provided consistent with USFWS standards. a. The City, with Caltrans Approval, will fund the enhancement of coastal CAGN habitat through off-site restoration and/or preservation of conservation lands. Permanent impacts to 0.15 acre of habitat suitable for the CAGN will be offset through the restoration and permanent conservation of 1.5 acres of coastal sage scrub habitat within designated CAGN critical habitat at Puente Hills Habitat Preservation Authority (Authority), or another location approved by the Carlsbad USFWS Office. Documentation that the habitat has been conserved will be provided to the Carlsbad USFWS Office prior to the commencement of vegetation removal and project construction. b. The City will submit final upland restoration plans to the Carlsbad USFWS Office for review and approval at least 30 days prior to initiating project impacts. The final plan will include the following information and conditions: 1. All habitat restoration/enhancement sites will be prepared for planting in a way that mimics natural habitat to the maximum extent practicable. All plantings will be installed in a way that mimics natural plant distribution and not in rows; 2. Planting palettes (plant species, size, and number/acre) and seed mix (plant species and pounds/acre). The plant palettes proposed in the draft plan will include native species specifically associated with the habitat type(s). Unless otherwise approved by the Carlsbad USFWS Office, only locally native species (no cultivars) obtained from the Chino/Puente Hills or other source within 15 miles of the Chino/Puente Hills will be used, unless otherwise approved by the Carlsbad USFWS Office. Native grass seed, which is wind pollinated, may be collected from anywhere in Southern California. The specific source location of all plant material and seed will be provided to the Carlsbad USFWS Office prior to use in restoration activities. 3. Container plant survival will be 60 percent of the initial plantings for the first five (5) years. At the first and second anniversary of plant installation, all dead plants will be replaced unless their function has been replaced by plants from seed or natural recruitment.	TE-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
4. A final implementation schedule will indicate when all impacts, as well as restoration plating and irrigation will begin and end. Offsite restoration planting and irrigation will be completed during the concurrent or next planting season (i.e., late fall to early spring) after initiating project impacts. 5. The final restoration plan will include five (5) years of success criteria for restoration areas including: percent cover, evidence of natural recruitment of multiple species for all habitat types, zero (0) percent coverage will be maintained for woody California Invasive Plant Council's (Cal-IPAC's) "Invasive Plant Inventory" species, and no more than 15 percent coverage for other exotic/weed species. 6. A minimum of five (5) years of maintenance and monitoring of restoration areas, unless success criteria are met earlier and all artificial water supplies have been off for at least two (2) years. 7. A qualitative and quantitative vegetation monitoring plan with a map of proposed sampling locations. Photo points will be used for qualitative monitoring and stratified-random sampling will be used for all quantitative monitoring. 8. Contingency measures in the event of creation/restoration/enhancement failure. 9. Annual mitigation maintenance and monitoring reports will be submitted to the Carlsbad USFWS Office no later than December 1 of each year. 10. If maintenance of a coastal sage scrub restoration area is necessary between February 15 and August 31, a biologist with knowledge of the biology and ecology of CAGN and approved by the Carlsbad USFWS Office will survey for CAGN within the restoration area, access paths to it, and other areas susceptible to disturbances by site maintenance. Surveys will consist of three visits separated by two (2) weeks, starting March 1 of each maintenance/monitoring year. Work will be allowed to continue on the site during the survey period. However, if CAGN are found during any of the visits, the City and Caltrans will notify and coordinate with the Carlsbad USFWS Office to identify measures to avoid and/or minimize effects to the CAGN (e.g., nests and an appropriate buffer will be flagged by the biologist and avoided by the maintenance work). c. The City will prepare and implement perpetual management, maintenance, and monitoring plans for the 1.5 acre conservation area, with consideration of the fact that the Puente Hills Habitat Preservation Authority (Authority) property is already managed pursuant to the Authority's conservation mission. The City will also establish a non-wasting endowment for an amount approved by the Puente Hills Habitat Preservation Authority (Authority) based on Property Analysis Records (PAR) or similar cost estimation methods, to ensure that there is sufficient funding for perpetual management, maintenance and monitoring of the property. The City will submit draft long-term management plans for the property to the Carlsbad USFWS Office for review and approval. The long-term management plans will include, but not be limited to, the following: 1) the PAR or other cost estimation results for the non-wasting endowment; 2) the proposed land manger's name, qualifications, business address, and contact information; and 3) the method of protecting the resources in perpetuity (e.g., conservation easement), monitoring schedule, measures to prevent human and exotic species encroachment, funding mechanism, and contingency measures should problems occur. The long-term management plan will be provided and the endowment will be established prior to initiation of vegetation removal and construction activities for the project. d. A perpetual biological conservation easement or other conservation mechanism acceptable to the Carlsbad USFWS Office will be recorded over the 1.5-acre conservation area. The conservation mechanisms will specify that no easements or activities (e.g., fuel modification zones, public trails, drainage facilitates, walls, maintenance access roads, utility easements) that will result in soil disturbance and/or native vegetation removal will be allowed within the biological conservation easement areas. The draft conservation mechanism will be provided to the Carlsbad USFWS Office for review and approval prior to										

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
initiation of vegetation removal and construction activities for the project. The City will also submit the final conservation mechanism to the Carlsbad USFWS Office. e. All areas of temporary impact, totaling 1.4 acres, will be revegetated and restored with native species. These areas will be returned to original grade, as feasible. Prior to initiating project impacts, a restoration plan will be developed for the temporary impact areas. The plan will be submitted to the Carlsbad USFWS Office for review and approval. This plan will include a detailed description of restoration methods, slope stabilization, and erosion control, criteria for restoration to be considered successful, and monitoring protocol(s). Following the completion of construction activities within each area of impact, the restoration plan will be implemented for a minimum of five (5) years, unless success criteria are met earlier and all artificial water has been off for at least two (2) years. Temporary impact areas will be planted as soon as possible following re-grading after completion of construction to prevent encroachment by nonnative plants.										
All lighting used during any nighttime construction (e.g., staging areas, equipment storage sites, roadway) adjacent to the sage scrub-grassland within California gnatcatcher-designated critical habitat will be directed toward the construction site and away from gnatcatcher-designated critical habitat to avoid and minimize artificial night lighting effects. Construction lighting will be the lowest illumination necessary for safety, and light glare shields will be used to reduce the extent of illumination into gnatcatcher-designated critical habitat. Permanent lighting will be of the lowest illumination necessary for safety and will be directed toward the road and away from sensitive habitats. Light glare shields will be used to reduce the extent of illumination into sensitive habitats. The City and Caltrans will review the permanent lighting plants for the project and then submit them to the Carlsbad USFWS Office for review and approval.	TE-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						
Prior to any construction related activities, and 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) will be installed around designated critical habitat (with constituent elements) adjacent to the proposed project footprint; these areas will be designated as Environmentally Sensitive Areas (ESAs) to be preserved. No grading or fill activity of any type will be permitted within these ESAs. In addition, no construction activities, materials, or equipment will be allowed within the ESAs. All construction equipment will be operated in a manner so as to prevent accidental damage to nearby preserved areas. No structure of any kind, or incidental storage of equipment or supplies, will be allowed within these protected zones. Silt fence barriers will be installed at the ESA boundary to prevent accidental deposition of cut or fill material in areas where vegetation is adjacent to planned grading activities.	TE-3	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						
During construction, a qualified biologist (for this measure the Project Biologist shall be experienced in CAGN biology and ecology) approved by the Carlsbad USFWS Office will be onsite during: 1) initial clearing and grubbing; and 2) weekly during project construction within 200 feet of CAGN 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. The City and/or Caltrans will submit the biologists' name, address, telephone number, and work schedule on the project to the Carlsbad USFWS Office prior to initiating project impacts. The biologist will be provided with a copy of this consultation. a. 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	TE-4	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
cease until the problem has been remedied to the satisfaction of the Carlsbad USFWS Office. Temporary construction fencing and markers will be maintained in good repair until the completion of project construction and removed upon project completion. b. The Project Biologist will submit a final report to the Carlsbad USFWS Office 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 CAGN (if observed), observed CAGN behavior (especially in relation to project activities), and remedial measures employed to avoid and minimize impacts to CAGN and their critical habitat. Raw field notes should be available upon request by the Carlsbad USFWS Office. c. During construction the employee education program (training/awareness program) will be developed and implemented by the Project Biologist. 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. The training/awareness program will include, at minimum, the following: 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. d. To avoid attracting predators of the CAGN the project site will be kept as clean of debris as possible. Food-related trash items will be kept in enclosed containers and regularly removed from the site. e. Project personnel will be prohibited from bringing domestic pets to the construction site to ensure that domestic pets do not disturb or depredate wildlife in the adjacent native habitat.										
Implement Measures WQ-5, GEO-1, GEO-3, AQ-1, AN-1, AN-2, INV-1, and INV-2 as follows: a. Implement Measure WQ-5. All equipment maintenance staging, and dispensing of fuel, oil, coolant, or any other such activities will be restricted to designated disturbed/developed areas. They will be located such that runoff from the designated areas will not enter gnatcatcher-designated critical habitat. b. Implement Measure GEO-1. If fills must be borrowed from, or disposed of offsite, the construction contractor will identify any necessary borrow and disposal sites and provide this information to the City and Caltrans for review. Caltrans will review borrow and disposal site information and submit the information to the Carlsbad USFWS Office. If borrow or disposal activities may affect a listed species or critical habitat, Caltrans will reinitiate Section 7 consultation. c. Implement Measure GEO-3. 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 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. d. Implement Measure AQ-1. Impacts from fugitive dust will be avoided and minimized through watering and other appropriate measures. e. Implement Measures AN-1 and AN-2. The clearing and grubbing of native habitats for the project will be conducted between September 1 and February 14 to avoid the CAGN breeding season (or sooner than September 1 if the Project Biologist demonstrates to the satisfaction of the Carlsbad USFWS Office that all nesting is complete). If vegetation clearing must be conducted during breeding season, Caltrans will re-initiate consultation with the Carlsbad USFWS Office to address unanticipated effects to this species.	TE-5	F/ETCA: Project Engineer F/ET CA: Resident Engineer Project Coordinator Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
f. Implement Measure INV-1. 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 be observed in the project work area by the Project Biologist. g. Implement Measure INV-2. No invasive species listed in the National Invasive Species Management Plan, State of California Noxious Weed List, or Cal-IPC Invasive Plant Inventory list will be included in the landscaping plans for the proposed project. Landscaping will not use plants that require intensive irrigation, fertilizers, or pesticides adjacent to preserve areas, and water runoff from landscaped areas will be directed away from adjacent native habitats and contained and/or treated within the development footprint. Caltrans will review the landscaping plans for the project and then submit them to the Carlsbad USFWS Office for review and approval.										
Prior to the start of any construction activities, a weed abatement program will be developed to minimize the importation of nonnative plant material during and after construction. 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 employed should an invasion occur. This weed abatement program will be approved by the City and Caltrans District 12 Environmental Branch.	INV-1	F/ETCA: Project Engineer F/ET CA: Resident Engineer Environmental Planning/Biologist Landscape / Landscape Architecture	Design Construction	NO						
No invasive species listed in the National Invasive Species Management Plan, State of California Noxious Weed List, or Cal-IPC Invasive Plant Inventory list will be included in the landscaping plans for the proposed project. Landscaping will not use plants that require intensive irrigation, fertilizers, or pesticides adjacent to preserve areas, and water runoff from landscaped areas will be directed away from adjacent native habitats and contained and/or treated within the development footprint. Caltrans will review the landscaping plans for the project and then submit them to the Carlsbad USFWS Office for review and approval. In compliance with the Executive Order on Invasive Species, EO 13112, and subsequent guidance from the Federal Highway Administration, the landscaping and erosion control included in the proposed project will not use species listed as invasive. In areas of particular sensitivity, extra precautions will be taken if invasive species are found in or adjacent to the construction areas. During construction protective measures will be taken to ensure that invasive species are not introduced or spread, including: • During construction, the construction contractor will inspect and clean construction equipment at the beginning and end of each day and prior to transporting equipment from one project location to another. • During construction, soil and vegetation disturbance will be minimized to the greatest extent feasible. • During construction, the construction contractor will ensure that all active portions of the construction site are watered a minimum of twice daily or more often when needed due to dry or windy conditions to prevent excessive amounts of dust. • During construction, the construction contractor will ensure that all material stockpiled is sufficiently watered or covered to prevent excessive amounts of dust. • During construction, soil/gravel/rock will be obtained from weed-free sources. • Only certified weed-free straw, mulch, and/or fiber rolls will be used for erosion control.	INV-2	F/ETCA: Project Engineer F/ET CA: Resident Engineer Landscape / Landscape Architecture	Design Construction	NO						

Task and Brief Description	Ref. Measure Number	Responsible Branch / Staff	Timing / Phase	NSSP Req.	Action Taken to Comply with Task	Task Completed		Remarks	Environmental Compliance	
						Initial	Date		Initial	Date
• After construction, affected areas adjacent to native vegetation will be revegetated with plant species approved by the Department's District Biologist that are native to the vicinity. • After construction, all revegetated areas will avoid the use of species listed in the California Invasive Plant Council (Cal-IPC's) California Invasive Plant Inventory that have a high or moderate rating.										