

*Appendix C*  
*Minimization and Mitigation*  
*Summary*



**MINIMIZATION AND MITIGATION SUMMARY**  
**I-5/ORTEGA HIGHWAY INTERCHANGE IMPROVEMENTS PROJECT: EA 0E3100**

**ENVIRONMENTAL COMMITMENTS**

NO.	DESCRIPTION OF COMMITMENT	RESPONSIBLE PARTY/MONITOR	TIMING/PHASE	TASK COMPLETED (Sign and Date)	COMMITMENT SOURCE	COMMENTS
<b>AESTHETICS</b>						
VA-1	Allow for community reviews and an opportunity for the community to participate in the design process through the City's review process outlined in the Municipal Code and City Council Policy No. 418.	City of San Juan Capistrano (City)	PA/ED		City Municipal Code and City Council Policy 418	
VA-2	Develop bridge architecture for the Ortega Highway overcrossing to create a City Gateway, including possible bridge monuments with decorative lighting, parapet wall treatments, decorative fencing and lighting, and abutment/wing wall, to increase the memorability of the interchange.	City, California Department of Transportation (Department) (Design Branch)	Design Phase		Visual Impact Assessment (Parsons, Mar. 2007) EIR/EA (Parsons, Dec. 2007)	
VA-3	Texturize slope paving and color to deter graffiti and enhance the bridge aesthetic.	Department [Resident Engineer (RE)]	Design Phase, Construction		Visual Impact Assessment EIR/EA	
VA-4	Maximize landscape areas within the interchange, realizing the established limitation required by Caltrans for planting setbacks. Avoid landscape areas less than 10 feet wide, since these areas would have to be paved per Department standards. Landscape design should reinforce the design of the architectural elements to create a unified, cohesive design theme.	City, Department (Design Branch)	Design Phase		Visual Impact Assessment EIR/EA	
VA-5	Include skyline trees in the new plantings to replace those removed by the project	Department (Design Branch)	Design Phase		Visual Impact Assessment EIR/EA	

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<b>AESTHETICS</b>						
VA-6	Utilize drainage and water quality elements within the interchange that maximize the allowable landscape. Place any water quality or detention ponds out of clear view of the interchange from I-5 or Ortega Highway.	City, Department (Design Branch)	Design Phase		Visual Impact Assessment EIR/EA	
VA-7	Use a visually compatible ornamental groundcover in any basins or geo-swales if they must occur within ornamental landscape areas.	Department (RE)	Construction		Visual Impact Assessment EIR/EA	
VA-8	Detail soundwalls architecturally to be visually compatible with the adjacent community. Use architectural detailing, such as pilasters, wall caps, and patterns to the block layout or textures to the panels, to enhance the image of the wall.	City, Department (Design Branch)	Design Phase		Visual Impact Assessment EIR/EA	
VA-9	Use planting pockets for vines on both sides of the soundwall where the ROW is too narrow to allow for other plantings. These shall be a minimum of 3 feet wide by 18 inches deep and located between the back of a barrier and the face of the wall.	City, Department (Design Branch)	Design Phase		Visual Impact Assessment EIR/EA	
VA-10	Apply architectural detailing to the retaining walls, including textures, colors, and patterns. Include caps that will provide shadow lines.	City, Department (Design Branch)	Design Phase		Visual Impact Assessment EIR/EA	
VA-11	Include plantings at the base of retaining walls on the community side to screen the walls. If the ROW is too narrow for maintenance truck access, create planting pockets for vines and shrubs along the base of the wall.	City, Department (Design Branch, RE)	Design Phase, Construction		Visual Impact Assessment EIR/EA	

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<b>AESTHETICS</b>						
VA-12	Locate access-control fencing in visually unobtrusive locations and apply black vinyl coating if placed along pedestrian areas or along local streets.	City, Department (Design Branch, RE)	Design Phase, Construction		Visual Impact Assessment EIR/EA	
VA-13	Place retaining walls near the ROW so that additional access-control fencing is not required. Do not create a “dead space” between walls and fencing.	City, Department (Design Branch)	Design Phase		Visual Impact Assessment EIR/EA	
VA-14	During the project design phase an Aesthetics Report shall be developed for the project, in conjunction with the City and the Department, to address community concerns over the appearance of the project’s new elements. The Aesthetics Report shall address the community’s current and intended image and seek to portray these through design. Elements to be addressed in the report include sound and retaining wall aesthetics, bridge architecture and aesthetics, color applications, streetscape and urban design, and landscape plantings. Funding and maintenance sources shall also be addressed by the report.	City, Department (Design Branch)	PA/ED, Design Phase		Visual Impact Assessment EIR/EA	
VA-15	Landscape plantings shall employ native plant material and “historical” California plant species in keeping with the community’s character.	City, Department (Design Branch, RE)	Design Phase, Construction		Visual Impact Assessment EIR/EA	

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<b>AIR QUALITY</b>						
<b>AQ-1</b>	Measures contained in Tables 1 through 4 of SCAQMD Rule 403 shall be followed, as applicable, during project construction. The Department shall be responsible for selection of appropriate applicable Rule 403 measures to be followed during project construction and for overseeing compliance with the measures by the construction contractors. The construction contractors shall be required to obtain construction permits from the City and the Department and the permits shall state the required Rule 403 measures that must be followed by the contractors.	Contractor/ Department (RE)	Pre-Construction, Construction		Air Quality Technical Study EIR/EA	

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<b>AIR QUALITY</b>						
<b>AQ-2</b>	Construction Equipment Emission Control: The following measures shall be included in project plans and construction specifications for implementation by the construction contractors. <ul style="list-style-type: none"> <li>• Use low-emission mobile construction equipment.</li> <li>• Maintain construction equipment engines by keeping them tuned.</li> <li>• Use low-sulfur fuel for stationary construction equipment. This is required by SCAQMD Rules 431.1 and 431.2.</li> <li>• Use existing power sources (i.e., power poles) when feasible. This measure would minimize the use of higher-polluting gas or diesel generators.</li> </ul>	Contractor, Department (RE)	Pre-Construction, Construction		Air Quality Technical Study EIR/EA	

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<b>AIR QUALITY</b>						
AQ-2 (Cont'd)	<ul style="list-style-type: none"> <li>Develop a “Diesel Fuel Reduction Plan” that identifies the actions to be taken to reduce diesel fuel emissions during construction activities, inclusive of grading and excavation activities. Reductions in diesel fuel can be achieved by measures including, but not limited to, (a) use of alternative energy sources, such as compressed natural gas or liquefied petroleum gas, in mobile equipment and vehicles; (b) use of “retrofit technology,” including diesel particulate traps, on existing diesel engines and vehicles; and (c) other appropriate measures. Prior to the issuance of a grading permit, the Diesel Fuel Reduction Plan shall be filed with the City of San Juan Capistrano Planning Division.</li> </ul>					

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<b>CULTURAL</b>						
<b>CR-1</b>	If cultural materials are discovered during construction, then all earth-moving activity within and around the immediate discovery area must be diverted until a qualified archaeologist can assess the nature and significance of the find.	Contractor/ Department (RE)	Construction		State Health and Safety Code Section 7050.5, PRC 5097.98 EIR/EA (Parsons, Dec. 2007)	
<b>CR-2</b>	If human remains are discovered, State Health and Safety Code Section 7050.5 states that further disturbance and activities shall cease in any area or nearby area suspected to overlie remains, and the county coroner contacted. Pursuant to Public Resources Code (PRC) Section 5097.98, if the remains are thought to be Native American, then the coroner will notify the Native American Heritage Commission (NAHC), who will then notify the Most Likely Descendent (MLD). At this time, the person who discovered the remains will contact Caltrans District 12 so that they can 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.	Contractor/ Department (RE)	Construction		State Health and Safety Code Section 7050.5, PRC 5097.98 EIR/EA	

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<b>Community Impacts</b>						
<b>COM-1</b>	The City will conduct public outreach with affected area residents and businesses regarding construction schedules and potential temporary inconveniences during project construction.	City/ Department	Pre-Construction, Construction		Community Impact Assessment, EIR/EA	
<b>COM-2</b>	Federal, state, and local government property acquisition programs shall be followed for the acquisition of privately and publicly owned properties. Compensation and relocation assistance shall be provided in accordance with the Uniform Relocation and Real Properties Acquisition Policies act of 1970 as Amended (42 U.S.C. 4601–4655) (Uniform Act), as well as FHWA regulations implementing the Uniform Act. Additional Department and/or City assistance shall be provided, if applicable.	City/ Department	Pre-Construction, Construction		Relocation Impact Report, EIR/EA	

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<b>HAZARDOUS WASTE</b>						
<b>HWM-1</b>	ACM management protocols must be included. The Contractor shall submit notification forms to the California Air Resources Board (CARB) a minimum of 30 days prior to demolition. ACM removal shall conform to Cal-OSHA requirements in Title 8 Sections 1529 and 341. Packaging, storage, transporting, and disposing of ACM shall conform to Cal-OSHA Title 22, Division 4, Chapter 20.	Contractor	Pre-Construction, Construction		CARB, Cal_OSHA Title 8 Sections 1529 and 341, Title 22, Division 4, Chapter 20 Initial Site Assessment (Parsons, Mar. 2007) EIR/EA (Parsons, Dec. 2007)	
<b>HWM-2</b>	Waste from removal of yellow thermoplastic traffic stripe, as well as residue from older buildings (if removed), shall be properly tested by a laboratory certified by the Department of Health Services Environmental Laboratory Accreditation Program. A Lead Compliance Plan must be prepared to minimize worker exposure to lead. Prior to the start of removal activities, the Contractor must submit a written work plan to the project engineer for the proper removal, storage, and disposal of the yellow thermoplastic traffic stripe.	Contractor	Pre-Construction, Construction		Initial Site Assessment EIR/EA	
<b>HWM-3</b>	Prior to construction, an ADL survey must be performed near the planned excavation areas per Caltrans guidance.	Contractor	Pre-Construction		Initial Site Assessment EIR/EA	

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<b>HAZARDOUS WASTE</b>						
<b>HWM-4</b>	Pole-mounted transformers in the project area shall be investigated to identify transformers that contain PCBs. Once identified, SDG&E must perform at-cost testing for PCBs and PCB leaks on these transformers.	Contractor	Pre-Construction		Initial Site Assessment EIR/EA	
<b>HWM-5</b>	Prior to the initiation of construction activities, surface and near-surface soil samples must be collected in excavation areas and analyzed for pesticides. Although this is not anticipated to result in worker health and safety concerns, if pesticides are detected, soil handling and disposal options shall be evaluated and implemented, as appropriate.	Contractor	Pre-Construction, Construction		Initial Site Assessment EIR/EA	

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<b>HYDROLOGY AND FLOODPLAIN</b>						
<b>HYD-1</b>	The proposed project must be constructed to reduce runoff rate and minimize erosion by incorporating retaining walls to reduce the steepness of slopes or to shorten slopes.	Contractor/ The Department	PA/ED, Design Phase		EIR/EA (Parsons, Dec. 2007)	
<b>HYD-2</b>	The proposed project must be constructed to reduce runoff rate and minimize erosion by providing cut and fill slopes flat enough to allow revegetation and limit erosion to preconstruction rates and by collecting concentrated flows in stabilized drains and channels.	Contractor/ The Department	Construction		EIR/EA	
<b>HYD-3</b>	Extended detention basins shall be incorporated into the project design, where necessary and appropriate, to reduce potential runoff volumes during peak storm events.	Contractor/ The Department	PA/ED, Design Phase		EIR/EA	

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<b>WATER QUALITY AND STORM WATER RUNOFF</b>						
<b>WQ-SW-1</b>	Construction activities must give special attention to storm water pollution control during the “Rainy Season” (defined by the RWQCB as October 1 through May 1). The proposed project construction shall be scheduled and phased to minimize soil-disturbing work during the rainy season to the maximum extent practical. To the extent practical, earth-moving activities shall be avoided whenever rain is predicted. Water Pollution Control BMPs must be used to minimize impacts to receiving waters. Measures must be incorporated to contain all vehicle loads and avoid any tracking of materials, which may fall or blow onto Department ROW.	Contractor/ The Department	Pre-Construction, Construction		EIR/EA (Parsons, Dec. 2007)	
<b>WQ-SW-2</b>	The Contractor shall conform to the requirements of the Caltrans Statewide NPDES Storm Water Permit, Order No. 99-06-DWQ, NPDES No. CAS000003, adopted by the SWRCB on July 15, 1999, in addition to the BMPs specified in the Caltrans SWMP. When applicable, the Contractor shall also conform to the requirements of the General NPDES Permit for Construction Activities, Order No. 99-08-DWQ, NPDES No. CAS000002, and any subsequent General Permit in effect at the time of project construction.	Contractor	Pre-Construction, Construction		EIR/EA	

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<b>WATER QUALITY AND STORM WATER RUNOFF</b>						
<b>WQ-SW-3</b>	A SWPPP shall be prepared by the Contractor and reviewed by the Department for approval prior to the commencement of any soil-disturbing activities. The SWPPP shall address all state and federal storm water control requirements and regulations. The SWPPP shall address all construction-related activities, equipment, and materials that have the potential to impact water quality. The SWPPP shall include BMPs to control pollutants, sediment from erosion, storm water runoff, and other construction-related impacts. In addition, the SWPPP shall include the provisions of <i>SWRCB Resolution No. 2001-046</i> , which requires implementation of specific Sampling Analysis Procedures (SAP) to ensure that the implemented BMPs are effective in preventing exceedance of any water quality standards.	Contractor/ The Department	Pre-Construction, Construction		EIR/EA	
<b>WQ-SW-4</b>	A Notice of Construction (NOC) will be filed with the RWQCB at least 30 days prior to any soil-disturbing activities.	Contractor/ the Department	Pre-Construction		EIR/EA	

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<b>WATER QUALITY AND STORM WATER RUNOFF</b>						
<b>WQ-SW-5</b>	All work must conform to the Construction Site BMPs (Category II) requirements specified in the latest edition of the Caltrans SWMP to control and minimize the impacts of construction and 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 non-storm water BMPs.	Contractor	Pre-Construction, Construction		EIR/EA	
<b>WQ-SW-6</b>	If dewatering were required during construction, the Department must fully conform to the requirements of the San Diego RWQCB. A Dewatering/ Deminimus Permit would be obtained, and the RWQCB would be notified at least 60 days prior to any dewatering discharges. Dewatering BMPs must be used to control sediments and pollutants. An EPA-certified laboratory would test and monitor the discharge for compliance with the requirements of the RWQCB.	Contractor/ The Department	Pre-Construction, Construction		EIR/EA	

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<b>WATER QUALITY AND STORM WATER RUNOFF</b>						
<b>WQ-SW-7</b>	The proposed project must be designed to minimize erosion by incorporating retaining walls to reduce the steepness of slopes or to shorten slopes; providing cut and fill slopes flat enough to allow revegetation and limit erosion to preconstruction rates; and by collecting concentrated flows in stabilized drains and channels.	Contractor/ The Department	Design		EIR/EA	
<b>WQ-SW-8</b>	Erosion control measures shall also be used to address site soil stabilization and reduce deposition of sediments in the adjacent surface waters. Typical measures include the application of soil stabilizers, such as hydroseeding, netting, erosion control mats, rock slope protection, velocity dissipation devices, and flared end sections for culverts.	Contractor/ The Department	Design		EIR/EA	
<b>WQ-SW-9</b>	An onsite drainage system shall be designed with a BMP concept in place that maximizes pollutant removal while taking into account economic constraints related to maintenance, right-of-way (ROW), and construction costs.	Contractor/ The Department	Design		EIR/EA	

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<b>WATER QUALITY AND STORM WATER RUNOFF</b>						
<b>WQ-SW-10</b>	Long-term Maintenance BMPs shall be implemented, including requirements for routine maintenance work, such as litter pickup, toxics control, street sweeping, drainage, and channel cleaning. Final determination regarding the selection of Long-term Maintenance BMPs shall occur during the project's Plans, Specifications, and Estimates (PS&E) phase.	Contractor/ The Department	Design/PS&E		EIR/EA	
<b>WQ-SW-11</b>	Design Pollution Prevention BMPs shall be implemented, including requirements for permanent soil stabilization systems, such as preservation of existing vegetation, concentrated flow conveyance systems (e.g., drainage ditches, dikes, berms, swales), and slope/surface protection systems that use either vegetated or hard surfaces. Extended detention basins and bio-filtration swales shall be incorporated, where appropriate, into the project design. Final determination regarding the selection of Design Pollution Prevention BMPs shall occur during the project's Plans, Specifications, and Estimates (PS&E) phase.	Contractor/ The Department	Pre-Construction, Construction		EIR/EA	

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<b>WATER QUALITY AND STORM WATER RUNOFF</b>						
<b>WQ-SW-12</b>	Permanent Treatment BMPs shall be implemented, including requirements for permanent treatment devices and facilities, such as biofiltration strips/swales, infiltration basins, detention devices, traction sand traps, dry weather flow diversion, and Gross Solids Removal Devices. Final determination regarding the selection of Treatment BMPs shall occur during the project's Plans, Specifications, and Estimates (PS&E) phase.	Contractor/ The Department	PS&E		EIR/EA	
<b>WQ-SW-13</b>	If the proposed detention basins are incorporated into the project's final design, the basins shall be designed to meet the standard guidelines set forth in the Caltrans Storm Water Quality Manual. Access roads to basin(s) must be provided as part of the final design plans for the project.	Contractor/ The Department	PS&E		EIR/EA	

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<b>GEOLOGY/SOILS/SEISMIC/TOPOGRAPHY</b>						
<b>GEO-1</b>	In accordance with standard Department requirements, detailed geotechnical studies shall be conducted during the project's future plans, specifications, and estimates (PS&E) phase. Resulting recommendations shall be incorporated into the project's final design plans to address seismic safety, liquefaction, and load-bearing concerns present in the project area.	Contractor/ The Department	PS&E		EIR/EA (Parsons, Dec. 2007)	
<b>GEO-2</b>	Monitoring during construction shall be done by a licensed geologist and engineer to ensure the construction site was properly characterized by the geotechnical studies and that the project design is in compliance with geotechnical and seismic safety standards and practices included in the final design package.	Contractor/ The Department	Construction		EIR/EA	

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<b>NOISE</b>						
N-1	To minimize noise impacts during the construction period, the contractors shall be required to comply with the noise ordinance of the City of San Juan Capistrano. Specifically, Section 9-3.531 of the San Juan Capistrano Municipal Code limits construction periods between 7:00 a.m. – 6:00 p.m. Monday through Friday and from 8:30 a.m. to 4:30 p.m. on Saturdays (Section 9-3.531, 2000).	Contractor/ The Department	Pre-Construction, Construction		Noise Study Report (Parsons, Feb. 2007) EIR/EA (Parsons, Dec. 2007)	
N-2	Each internal combustion engine, used for any purpose on the job or related to the job, shall be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine shall operate without a muffler.	Contractor/ The Department	Pre-Construction, Construction		Noise Study Report EIR/EA	
N-3	If Alternative 5 is selected as the project build alternative, construct proposed Soundwall S523 in the form of a new 10-ft barrier to be located along the I-5 ramp shoulder to Ortega Highway extending south to Ortega Highway. The soundwall shall be designed to connect to or overlap the existing soundwall at this location.	Contractor/ The Department	PS&E		Noise Study Report EIR/EA	

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<b>PALEONTOLOGY</b>						
<b>PAL-1</b>	A qualified Principal Investigator for paleontology, who is also an Orange County Certified Professional Paleontologist, must be retained to provide professional services. The Principal Investigator shall be responsible for the implementation of the mitigation plan and maintaining professional standards of work.	Contractor/ The Department	Pre-Construction, Construction		EIR/EA (Parsons, Dec. 2007)	
<b>PAL-2</b>	Qualified paleontological monitors shall perform full-time construction monitoring in areas of excavations for soundwalls and bridge pilings since they will affect the Capistrano Formation. Qualified paleontological monitors must be retained on an on-call basis during project construction to respond if there are unanticipated discoveries in other areas of the project site. Monitoring must include inspection of exposed surfaces and microscopic examination of matrix. The monitor must have authority to divert grading away from exposed resources temporarily to recover the specimens. Cooperation and assistance from on-site personnel will be required to facilitate the timely resumption of work in the area of the discovery.	Contractor/ The Department	Pre-Construction, Construction		EIR/EA	

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<b>PALEONTOLOGY</b>						
<b>PAL-3</b>	If any discovery meets the criteria for a fossil locality, then work must be diverted until the Paleontology Field Supervisor or Principal Investigator evaluates the discovery. Localities require documentation, including location and stratigraphic information. Decisions about testing and data recovery shall be made in consultation with the City and the Department.	Contractor/ The Department	Pre-Construction, Construction		EIR/EA	
<b>PAL-4</b>	If microfossil localities are discovered, then the paleontological monitor shall collect matrix for processing. To limit downtime, the paleontological monitor shall be authorized to request heavy machinery assistance to move large quantities of matrix out of the path of construction to a designated stockpile area. Testing of stockpiles shall consist of screen washing small samples (200 pounds) to determine if fossils are present. Productive tests shall result in screen washing of additional matrix from the stockpiles to a maximum of 6,000 pounds per locality.	Contractor/ The Department	Pre-Construction, Construction		EIR/EA	
<b>PAL-5</b>	The Principal Investigator must prepare monthly progress reports during the project construction period to be filed with the City and the Department.	Contractor, Department (RE)	Construction		EIR/EA	

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<b>PALEONTOLOGY</b>						
<b>PAL-6</b>	Fossils recovered must be prepared, identified, and cataloged before donation to the accredited repository designated by the Department. The Natural History Museum of Los Angeles County or the San Diego Natural History Museum are both suitable, accredited repositories. Any resources determined not to meet significance criteria shall be offered to local schools for use in education programs.	Contractor, Department (RE)	Construction		EIR/EA	
<b>PAL-7</b>	The Principal Investigator must prepare a final report to be filed with the City and the Department. The report must include a list of resources recovered, documentation of each site/locality, and interpretation of resources recovered, and it must include all specialists' reports as appendices.	Contractor, Department (RE)	Construction		EIR/EA	

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<b>UTILITIES, PUBLIC AND EMERGENCY SERVICES</b>						
<b>PS-1</b>	In accordance with standard project requirements, a Traffic 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.	Contractor/ Department	Pre-Construction, Construction		EIR/EA (Parsons, Dec. 2007)	
<b>PS-2</b>	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.	Contractor/ Department	Pre-Construction, Construction		EIR/EA	
<b>PS-3</b>	Area residents 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.	Contractor/ Department	Pre-Construction, Construction		EIR/EA	

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<b>UTILITIES, PUBLIC AND EMERGENCY SERVICES</b>						
<b>PS-4</b>	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.	Contractor/ Department	Pre-Construction, Construction		EIR/EA (Parsons, Dec. 2007)	

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<b>TRAFFIC AND CIRCULATION</b>						
<b>TC-1</b>	<b>Traffic Management Plan (TMP).</b> A TMP shall be developed prior to project construction and shall be implemented during construction to ensure traffic safety, reduce accident hazards, minimize construction-related traffic congestion, identify detour routes, and minimize driver and pedestrian inconveniences. The plan must include appropriate signage, identification of alternate/detour routes, and a public awareness campaign.	Contractor/ Department	Pre-Construction, Construction		EIR/EA (Parsons, Dec. 2007)	
<b>TC-2</b>	<b>Construction Management Plan.</b> A construction management plan shall be prepared prior to project construction that describes construction management activities pertaining to on-site and off-site street circulation, planned haul routes, and anticipated temporary traffic lane closures. The project construction contractor shall follow the plan and coordinate with the City and Caltrans in advance if any deviations or changes to the plan are necessary.	Contractor/ Department	Pre-Construction		EIR/EA (Parsons, Dec. 2007)	

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NO.	DESCRIPTION OF COMMITMENT	RESPONSIBLE PARTY/MONITOR	TIMING/PHASE	TASK COMPLETED (Sign and Date)	COMMITMENT SOURCE	COMMENTS
<b>BIOLOGICAL RESOURCES</b>						
<b>MM BIO-1</b>	To the extent practical, all removal of vegetation and other structures providing nesting habitat, as well as excavation for footings, culverts, and pilings, should be scheduled to occur between September 1 and January 31 to avoid the nesting and fledging season of many bird species common to southern California. This would be consistent with MBTA requirements.	Contractor/ Department	Pre-Construction, Construction		Natural Environment Study (Minimal Impacts) (Parsons, Dec. 2006) EIR/EA (Parsons, Dec. 2007)	
<b>MM BIO-2</b>	If the removal of vegetation and other structures providing nesting habitat, as well as excavation for footings, culverts, and pilings, cannot be postponed until after the breeding season (September 1 and January 31), then nesting surveys must be completed by a qualified biologist prior to beginning clearing and grubbing. If surveys reveal active nests closer than approximately 200 ft (60 m) and species addressed by MBTA, then all removal of vegetation and ground preparation must be delayed until fledglings have left the nest.	Contractor/ Department	Pre-Construction		EIR/EA	
<b>MM BIO-3</b>	The Contractor shall clean all equipment and vehicles with water to remove dirt, seeds, vegetative material, or other debris that could contain or hold seeds of noxious weeds before or arriving to and leaving the project site	Contractor/ Department	Pre-Construction, Construction		EIR/EA	

ENVIRONMENTAL COMMITMENTS

NO.	DESCRIPTION OF COMMITMENT	RESPONSIBLE PARTY/MONITOR	TIMING/PHASE	TASK COMPLETED (Sign and Date)	COMMITMENT SOURCE	COMMENTS
<b>BIOLOGICAL RESOURCES</b>						
<b>MM BIO-4</b>	The Contractor shall notify the Resident Engineer a minimum of 14 days prior to obtaining material from a commercial or state-furnished borrow site. The Engineer will inspect the site or stockpile for the presence of noxious weeds or invasive plants.	Contractor/ Department	Pre-Construction, Construction		EIR/EA	
<b>MM BIO-5</b>	As directed by the Engineer, the Contractor shall chemically or mechanically kill existing noxious weeds and invasive plants in the work area and follow appropriate disposal methods.	Contractor/ Department	Pre-Construction, Construction		EIR/EA	

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