Appendix D Avoidance, Minimization, and/or Mitigation Summary

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Environmental Commitments Record (ECR)

DIST-CO-RTE: 12-ORA-5 **PM/PM:** 17.8/19.7 **EA/Project ID.:** EA 12-0M980 EFIS 1213000084
Project Description: The project would modify and improve the existing Interstate 5 (I-5)/El Toro Road interchange between post miles (PM) 17.8 and 19.7, located within the cities of Lake Forest, Laguna Woods, and Laguna Hills in Orange County, California.
Date (Last modification): July 2026
Environmental Planner: Gabriela Duran **Phone No.:** 949-556-1176
Construction Liaison: **Phone No.:**
Resident Engineer: **Phone No.:**

PERMITS

Permit	Agency	Application Submitted	Permit Received	Permit Expiration	Permit Requirement Completed by:	Permit Requirement Completed on:	Comments
Water Quality	State Water Resources Control Board (SWRCB)	Section 402 NPDES/NPDES General Permit for Stormwater Discharges of Stormwater Runoff Associated with Construction Activities (Order No. 2022-0057-DWQ)					Caltrans District 12 to obtain permit prior to construction.
Water Quality	SWRCB	Caltrans NPDES Statewide Stormwater Permit (Order No. 2022-0033-DWQ, NPDES No. CAS000003)	June 22, 2022	December 31, 2027	Caltrans	June 22, 2022	Adopted permit issued to Caltrans on June 22, 2022, for discharges from Caltrans right of way.

ENVIRONMENTAL COMMITMENTS

PA&ED

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Other	**LU-3:** Caltrans will continue to coordinate with the Cities of Lake Forest, Laguna Hills, and Laguna Woods to reflect the modification of land use designations for properties that will be acquired for the Project that are not currently designated for transportation uses within the Land Use Element of their General Plan.	Draft EIR/EA, Section 2.2.1, Existing and Future Land Use	No	Resident Engineer						No

PS&E/BEFORE RTL

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Landscape	**LU-1:** During final design, in accordance with the Highway Design Manual, design modifications that will minimize or avoid the loss of landscaping and noncompliance with general development standards will be selected, if feasible. If such losses cannot be minimized or avoided and the Project still results in the loss of landscaping or other noncompliance with development standards, the California Department of Transportation (Caltrans) will coordinate with the Cities of Laguna Hills, Laguna Woods, and Lake Forest to obtain landscaping or setback variances for properties where the Project would reduce the required amount of landscaping below the applicable municipal landscaping and setback requirements.	Draft EIR/EA, Section 2.2.1, Existing and Future Land Use	Yes	Resident Engineer						No
Community Impact Assessment	**LU-5 (Section 4f-2):** Caltrans and the City of Lake Forest shall perform outreach activities during the design phase to seek the community's input on the choice of park facilities/features.	Draft EIR/EA, Section 2.2.3, Parks and Recreational Facilities	No	Caltrans Project Manager, City of Lake Forest Public Works						No
Other	**COM-1** The former Laguna Hills Mall property is currently in the redevelopment design phase to convert the 68-acre site into a mixed-use property that would include restaurants, parks, entertainment, shopping, and living spaces. The redevelopment project is known as the Village at Laguna Hills. Caltrans, OCTA, and the City of Laguna Hills will work together to ensure there are no conflicts with the proposed Project's realignment of Avenida de la Carlota and the development plans for the Village at Laguna Hills.	Draft EIR/EA, Section 2.2.1, Existing and Future Land Use	No	Caltrans Project Manager, OCTA, City of Laguna Hills Public Works						No
Community Impact Assessment	**COM-2** During construction, temporary impacts to on-site parking at adjacent properties shall be minimized to the extent feasible. Construction staging and phasing shall be designed to limit the duration and extent of temporary removal of existing parking spaces. A parking study shall be prepared during the final design phase to evaluate the extent of temporary parking impacts and identify feasible strategies to minimize disruptions during construction.	Draft EIR/EA, Section 2.2.4, Community Character and Cohesion	Yes	Caltrans Project Manager, Resident Engineer, Construction Contractor						No
Community Impact Assessment	**COM-3** Caltrans shall provide compensation to affected businesses and/or property owners for the permanent loss of parking spaces in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended.	Draft EIR/EA, Section 2.2.4, Community Character and Cohesion	No	Caltrans Project Manager, Resident Engineer						No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Other	**REL-1** Property acquisition shall be conducted in compliance with the requirements of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (Uniform Act) (Public Law 91-646, 84 Statutes 1894). The Uniform Act mandates that certain relocation services and payments be made available to eligible residents, businesses, and nonprofit organizations displaced by federal or federally assisted 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.	Draft EIR/EA, Section 2.2.4, Relocations and Real Property Acquisition	No	Caltrans Project Manager, Resident Engineer						No
Other	**PF-UES-3:** During final design, utility relocation plans for those utilities that will need to be relocated, removed, or protected in place will be prepared in consultation with the affected utility relocation providers/owners. If relocation is necessary, the final design will focus on relocating utilities within the Caltrans right of way or other existing public right of way and/or easement. If relocation outside of an existing right of way or additional public right of way and/or easement is required for the Project, the final design will focus on relocating those facilities to minimize environmental impacts as a result of Project construction and ongoing maintenance and repair activities. The utility relocation plans will be included in the Project specifications. Prior to and during construction, the construction contractor will implement the applicable components of the relocation plans provided in the Project specifications. Prior to utility relocation activities, the Resident Engineer will coordinate with affected utility providers regarding potential utility relocations and inform affected utility users in advance of the date and timing of potential service disruptions.	Draft EIR/EA, Section 2.2.6, Utilities/ Emergency Services	Yes	Resident Engineer, Construction Contractor	2025 SS Section 87-1.03L					No
Landscape	**VIS-1 Preservation and Protection of Existing Vegetation.** Damage to existing vegetation, especially mature, established trees, within the Project limits or in close proximity to the Project limits shall be minimized to the extent practicable, consistent with safety, design standards, and construction requirements. Vegetation designated for preservation shall be protected during construction through the installation of temporary high visibility fencing prior to the start of ground-disturbing activities. Tree trimming or pruning, where required, shall be conducted under the direction of a qualified arborist.	Draft EIR/EA, Section 2.2.8, Visual/Aesthetics	Yes	Resident Engineer, Caltrans Landscape Architect						No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Landscape	**VIS-2 Replacement Landscape and Irrigation in Areas Impacted by Construction.** To maintain the context of the Project area (color, form, and texture) landscaping shall be installed that is compatible with the existing landscape along I-5 in the Project vicinity and surrounding area. Where feasible, landscaping shall include specimen sized trees and/or shrub/groundcover mass planting, and landscape treatment along walls to soften the hardscape features and reduce glare and radiant heat from the walls. In areas where soundwalls are visible from adjacent residential land uses, vines and landscaping shall be utilized to screen views to the wall where feasible. The landscape concept, plan, and plant palette shall be determined in consultation with, and approved by, the District Landscape Architect in consultation with the cities of Lake Forest, Laguna Hills, and Laguna Woods during the Plans, Specifications, and Estimate (PS&E) phase. All vine and landscape proposed shall conform with the planting policy requirements of Caltrans and the applicable goals and policies of the City of Lake Forest General Plan, Laguna Hills General Plan, and Laguna Woods General Plan, as well as the tree preservation policies identified in the Lake Forest Municipal Code, Laguna Hills Municipal Code, and Laguna Woods Municipal Code. The planting plan shall be reviewed and approved by the Caltrans Biologist to be in accordance with Executive Orders 13751, Safeguarding the Nation from the Impacts of Invasive Species (2016), and 13112, Invasive Species (1999).	Draft EIR/EA, Section 2.2.8, Visual/Aesthetics	Yes	Resident Engineer, Caltrans Landscape Architect						No
Landscape	**VIS-3 Urban Streetscape Coordination.** Where roadway modifications occur along local streets, streetscape treatments would be coordinated with the affected cities, as feasible, to maintain visual continuity with existing roadway character, where applicable.	Draft EIR/EA, Section 2.2.8, Visual/Aesthetics	Yes	Resident Engineer, Caltrans Landscape Architect						No
Landscape	**VIS-4 Retaining Walls and Structural Elements.** Retaining walls and other exposed concrete surfaces would be designed to minimize visual contrast through the use of texture, color, or architectural treatment, consistent with Caltrans standards and engineering requirements.	Draft EIR/EA, Section 2.2.8, Visual/Aesthetics	Yes	Resident Engineer, Caltrans Landscape Architect						No
Landscape	**VIS-5 Construction Staging and Temporary Visual Effects.** Prior to the start of construction, construction staging areas and material laydown zones would be established to minimize visual disruption to surrounding areas and to avoid unnecessary disturbance beyond the Project limits.	Draft EIR/EA, Section 2.2.8, Visual/Aesthetics	Yes	Resident Engineer, Caltrans Landscape Architect						No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Other	**PF-GEO-1: Caltrans Standard Specifications 48.2.02 B and Section 19 Earthwork General.** The Project shall comply with the most current Caltrans procedures and design criteria regarding seismic design to address any adverse effects related to seismic ground shaking. Earthwork shall be performed in accordance with Caltrans Standard Specifications, Section 19, which requires standardized measures related to compacted fill, over-excavation and recompaction, and retaining walls, among other requirements. Moreover, Caltrans Highway Design Manual Topic 113, Geotechnical Design Report, requires that a site-specific, geotechnical field investigation be performed for the Project during the design phase. The findings and recommendations from the investigation shall be incorporated into the final Project design.	Draft EIR/EA, Section 2.3.2, Geology/Soils/ Seismic/Topography	Yes	Resident Engineer	2025 SS Section 48-2.02.B; 2025 SS Section 19					No
Other	**GEO-2:** During the design phase, a detailed geotechnical investigation shall be conducted by qualified geotechnical personnel to assess the geotechnical conditions at the Project area. The geotechnical investigation shall include exploratory borings to investigate site-specific soils and conditions and to collect samples of subsurface soils for laboratory testing. Those soil samples shall be tested to determine liquefaction potential, collapsibility potential, stability, and corrosion potential. The Project-specific findings and recommendations of the geotechnical investigation shall be summarized in Structure Foundation Reports and a Geotechnical Design Report to be submitted to Caltrans for review and approval. Those findings and recommendations shall be incorporated in the final design of the identified preferred alternative. If the No-Build Alternative is identified as the preferred alternative for the Project, then no further geotechnical investigations are required.	Draft EIR/EA, Section 2.3.2, Geology/Soils/ Seismic/Topography	Yes	Qualified Geotechnical Specialist, Resident Engineer						No
Hazardous Waste	**HAZ-1: Completion of a Phase II Environmental Site Assessment.** A (shallow) soil and groundwater sampling program as part of a Phase II Environmental Site Assessment will be performed at PAPs (and contaminants) identified in the ISA prior to completion of the Project Approval/Environmental Documentation (PA/ED**Error! Bookmark not defined.**) phase and during the Project Specifications and Estimates (PS&E) phase. The assessments will determine whether contamination exists. Subsequent handling of the affected materials will be conducted according to applicable Caltrans Standard Specifications (such as Caltrans Standard Specification Section 13-4.03G) and the recommendations of the assessment. As necessary, applicable oversight agencies will be notified when ground disturbance occurs on previously documented contaminated sites.	Draft EIR/EA, Section 2.3.4, Hazardous Waste/Materials	Yes	Resident Engineer, Construction Contractor						No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Hazardous Waste	**HAZ-3: Sampling and Handling of Median Striping Materials.** During the design phase, white and yellow lane and median striping materials will be tested for hazardous-materials content (e.g., lead, hexavalent chromium). If hazardous materials are discovered, the construction contractor will remove and properly dispose of any materials in accordance with applicable Caltrans Standard Specifications (such as Caltrans Standard Specifications Section 14-11.12) and the Caltrans Construction Manual.	Draft EIR/EA, Section 2.3.4, Hazardous Waste/Materials	Yes	Resident Engineer, Construction Contractor	2025 SS Section 14-11.12					No
Hazardous Materials	**HAZ-4: Asbestos-Containing Materials Surveys Prior to Demolition.** Qualified professionals will initiate an ACM survey prior to completion of the Project approval and environmental documentation phase and complete the ACM survey during the PS&E phase. The survey should be conducted on structures to be demolished by the Project in conformance with the U.S. Environmental Protection Agency National Emission Standards for Hazardous Air Pollutants, Title 40 of the Code of Federal Regulations, and South Coast Air Quality Management District Rule 1403. In addition, notification of the South Coast Air Quality Management District prior to any structure demolition is mandatory, according to Rule 1403 (d)(1)(B).	Draft EIR/EA, Section 2.3.4, Hazardous Waste/Materials	Yes	Resident Engineer, Construction Contractor						No
Hazardous Materials	**HAZ-5: Lead-Based Paint Surveys Prior to Demolition.** Qualified professionals will initiate a LBP survey on structures to be demolished prior to completion of the PA/ED phase and complete the LBP survey during the PS&E phase. The LBP study will be conducted by trained and/or licensed professionals and comply with U.S. EPA, Housing and Urban Development, and California Department of Public Health guidelines. The LBP study report will provide a description of the LBP locations, the estimated quantities of LBP, and specific requirements for removal, containment, and off-site transport and disposal of materials containing LBP. The requirements from the study will be included in the Project specifications for implementation during Project construction. The construction contractor will implement the requirements in the LBP survey report, as included in the Project specifications.	Draft EIR/EA, Section 2.3.4, Hazardous Waste/Materials	Yes	Resident Engineer, Construction Contractor						No
Air Quality	**GHG-1:** The Project will incorporate the use of energy-efficient lighting, such as light-emitting diode (LED) traffic signals. LED bulbs—or balls, in the stoplight vernacular—consume less electricity than traditional lights, which will also help reduce the Project's carbon dioxide emissions.	Draft EIR/EA, Section 2.3.5, Air Quality	Yes	Resident Engineer						No
Air Quality	**CC-1:** Adjust the pavement binder and mix design specifications to better match expected future environmental conditions. Move to stiffer asphalt grades and use slower aging binders as needed to address increased temperatures and projected temperature change.	Draft EIR/EA, Chapter 3, CEQA Evaluation, Section 3.4, Climate Change	Yes	Resident Engineer						No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Air Quality	**CC-2:** Adjust the pavement structural design to account for temperature and climatic changes. Incorporate design elements, like shorter joint spacing and others, to reduce damage from high temperatures. For concrete pavements, robust designs that limit moisture damage and shrinkage are a good alternative. Stabilized subbases and base materials may be a good alternative to unbound bases especially in areas where the groundwater table may rise or precipitation is increasing.	Draft EIR/EA, Chapter 3, CEQA Evaluation, Section 3.4, Climate Change	Yes	Resident Engineer						No

ROW/PURCHASING

No avoidance, minimization, or mitigation measures would be implemented during the Right of Way/Purchasing phase of the Project.

PRE-CONSTRUCTION

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Other	**PF-UES-1:** All temporary closures and detour plans would be coordinated with law enforcement, fire protection, and emergency medical service providers to minimize temporary delays in emergency response. This coordination includes identifying alternate routes for emergency vehicles, with access routes across the construction areas developed in coordination with the affected agencies.	Draft EIR/EA, Section 2.2.6, Utilities/ Emergency Services	Yes	Resident Engineer, Construction Contractor	2025 SS Section 12-4					No
Other	**PF-UES-2:** To ensure that emergency response times are not disrupted, OCSD and OCFA will be informed of the Project construction schedule, lane closures (if any), and detour plans well in advance of any lane closure or detour plan being implemented during the construction period.	Draft EIR/EA, Section 2.2.6, Utilities/ Emergency Services	Yes	Resident Engineer, Construction Contractor	2025 SS Section 12-4					No
Other	**PF-TRA-1:** Transportation Management Plan. The Project will include preparation of a Transportation Management Plan (TMP) during the Plans, Specifications, and Estimates (PS&E) phase. “TMP” is an approach for alleviating or minimizing traffic delays by the effective application of traditional traffic handling practices and an innovative combination of various strategies. These strategies include public awareness campaigns, motorist information, incident management, construction methods, demand management, and alternate route planning.	Draft EIR/EA, Section 2.2.7, Transportation	Yes	Resident Engineer, Construction Contractor	2025 SS Section 12-4					No
Cultural Resources	**PF-CUL-3:** The Resident Engineer responsible for providing Cultural Sensitivity Training to the Contractor at the Pre-Construction Meeting will go over the requirements of Caltrans Standard Specification 14-2.03A (may request Caltrans Archaeologist assistance). *Caltrans Standard Specification 14-2.03C*.	Draft EIR/EA, Section 2.2.9, Cultural Resources	Yes	Resident Engineer, Qualified Archaeologist, Caltrans Archaeologist	2025 SS Section 14-2.03C					No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Water Quality	**PF-WQ-3:** The Project will comply with the Construction General Permit by preparing and implementing a SWPPP to address construction-related activities that have the potential to affect water quality. The SWPPP will identify sources of pollutants that may affect the quality of stormwater and include BMPs to control the pollutants, such as sediment controls, catch basin inlet protection, construction materials management, and non-stormwater BMPs. All work must conform to the construction site BMPs specified in the latest edition of the Stormwater Quality Handbooks: Construction Site Best Management Practices Manual to control and minimize the impacts of construction and construction-related activities, materials, and pollutants on the watershed. The BMPs involve, but are not limited to, temporary sediment controls, temporary soil stabilization, scheduling, waste management, materials handling, and other non-stormwater BMPs.	Draft EIR/EA, Section 2.3.1, Water Quality and Stormwater Runoff	Yes	Resident Engineer, Construction Contractor	2025 SS Section 13-3.01C (2)					No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Paleontology	**PAL-1: Paleontological Mitigation Plan.** Caltrans will ensure that a Paleontological Mitigation Plan (PMP) is prepared and adhered to during construction of the Project for alternatives with ground disturbance that could affect paleontological resources. At a minimum, the PMP will include the following instructions: a. A qualified principal paleontologist (MS or PhD in paleontology or geology familiar with paleontological procedures and techniques) will be retained to prepare a PMP following Caltrans' Standard Environmental Reference (SER) if construction activities could result in impacts on paleontological resources. b. The paleontologist will be present to consult with construction contractors at pre-grading meetings. c. Paleontological monitoring under the direction of the qualified principal paleontologist will be performed for ground-disturbing construction activities involving sensitive geologic formations. d. When fossils are discovered, the paleontologist (or paleontological monitor) will recover them. Construction work in these areas will be halted or diverted to allow recovery of fossil remains in a timely manner. e. Fossil remains collected during the monitoring and salvage portion of the mitigation program will be cleaned, repaired, sorted, and cataloged. f. Prepared fossils, along with copies of all pertinent field notes, photos, and maps, will then be deposited in a scientific institution with paleontological collections. g. Once all ground-disturbing activities have been completed and approved by Caltrans, a final Paleontological Mitigation Report (PMR) will be completed that outlines the results of the mitigation program. During construction, the Project contractor and Caltrans will adhere to the procedures outlined in the PMP. Additionally, Caltrans will retain a qualified Principal Paleontologist to implement the PMP.	Draft EIR/EA, Section 2.3.3, Paleontology	Yes	Resident Engineer, Qualified Principal Paleontologist, Construction Contractor, Caltrans Paleontologist						Yes
Biology	**BIO-1: Delineation of Environmentally Sensitive Areas (ESA).** Prior to clearing vegetation and/or groundwork, highly visible barriers (such as orange construction fencing) will be installed around areas adjacent to the construction footprint to designate ESAs (i.e., the riparian habitat and coastal sage scrub associated with Aliso Creek) to be protected/avoided. No Project activity of any type will be permitted in these ESAs. Heavy equipment, including motor vehicles, will not be allowed to operate in the ESAs. All construction equipment will be operated in a manner that prevents accidental damage to ESAs. No structure of any kind or incidental storage of equipment or supplies will be allowed in these protected zones. Silt fence barriers will be installed at the ESA boundary to prevent accidental deposition of fill material in areas where vegetation is immediately adjacent to planned grading activities.	Draft EIR/EA, Section 2.4.1, Natural Communities	Yes	Resident Engineer, Construction Contractor						No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Biology	**BIO-2: On-site Training:** An employee education program will be developed. Each employee, including temporary workers, contractors, and subcontractors, will receive a training/awareness program prior to working on the Project. They will be advised of the potential impact on the listed species and the potential penalties for taking such species. At a minimum, the program will include the following topics: occurrences 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 on these species and promote continued successful occupation of the Project area.	Draft EIR/EA, Section 2.4.1, Natural Communities	Yes	Resident Engineer, Qualified Biologist						No
Biology	**PF-BIO-2: Nesting Bird Avoidance:** Caltrans anticipates the potential for nesting birds to occur February 1 to September 30 (nesting bird season). In order to avoid impacts on nesting birds, vegetation removal and/or ground disturbance will occur outside of the nesting bird season to avoid construction delays. If this is not feasible, a qualified biologist will survey the work area no more than 3 days prior to construction activities. If an active nest (i.e., with eggs or young) is found, a no-work buffer will be established by the qualified biologist (100 feet for passerines and up to 500 feet for special-status bird species and/or raptors). No-work limits will be determined by the biologist and depend on the sensitivity of the species, location of the nest, and existing site conditions (e.g., existing high levels of human activity and/or noise in the vicinity of the nest).	Draft EIR/EA, Section 2.4.4, Animal Species	Yes	Resident Engineer, Qualified Biologist	2025 SS Section 14-6.03B					No

CONSTRUCTION

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Other	**LU-4 (Section 4f-1):** Caltrans, in coordination with the City of Lake Forest, shall install new park facilities, similar to those removed, such as the half basketball court, playground, and picnic table, within the remaining Cavanaugh Park limits. This measure shall be implemented in conjunction with measure LU-5, providing an opportunity to enhance and upgrade the park based on the community's input.	Draft EIR/EA, Section 2.2.3, Parks and Recreation Facilities	Yes	Resident Engineer, City of Lake Forest Public Works						No
Community Impact Assessment	**PF-CI-1:** During construction, implement Caltrans Standard Specifications Section 5-1.31, which requires that the job site be neatly maintained in areas visible to the public.	Draft EIR/EA, Section 2.2.3 Parks and Recreational Facilities	Yes	Construction Contractor	2025 SS Section 5-1.31					No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Community Impact Assessment	**PF-CI-2:** During construction and before contract acceptance, implement Caltrans Standard Specifications Section 5-1.39, which requires restoration of damaged work areas to the same state of completion as before the damage.	Draft EIR/EA, Section 2.2.3 Parks and Recreational Facilities	Yes	Resident Engineer, Construction Contractor	2025 SS Section 5-1.39					No
Cultural Resources	**PF-CUL-1:** If buried cultural resources are encountered during Project activities, it is Caltrans' policy that work stop within 60 feet of the area until the Caltrans Project Archaeologist can evaluate the nature and significance of the find. *Caltrans Standard Specification 14-2.03A*.	Draft EIR/EA, Section 2.2.9, Cultural Resources	Yes	Resident Engineer, Qualified Archaeologist, Caltrans Archaeologist	2025 SS Section 14-2.03A					No
Cultural Resources	**PF-CUL-2:** In the event that human remains are found, provisions of the Health and Safety Code 7050.5 apply. The county coroner shall be notified, and all construction activities within 60 feet of the discovery shall stop. Pursuant to Public Resources Code Section 5097.98, if the remains are thought to be Native American, the coroner will notify the NAHC, who will then notify the Most Likely Descendent. Further provisions of Public Resources Code 5097.98 are to be followed as applicable. *Caltrans Standard Specification 14-2.03A*.	Draft EIR/EA, Section 2.2.9, Cultural Resources	Yes	Resident Engineer, Qualified Archaeologist, Caltrans Archaeologist	2025 SS Section 14-2.03A					No
Water Quality	**PF-WQ-1:** The Project will comply with the provisions of the NPDES permit and waste discharge requirements for Caltrans (Order No. 2022-0033-DWQ, NPDES No. CAS00003) and any subsequent permits in effect at the time of construction.	Draft EIR/EA, Section 2.3.1, Water Quality and Stormwater Runoff	Yes	Resident Engineer, Construction Contractor	2025 SS Section 13.1.01D (2)					No
Water Quality	**PF-WQ-2:** The Project will comply with the provisions of the NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) Order No. 2022-0057-DWQ, NPDES No. CAS000002) and any subsequent permits in effect at the time of construction.	Draft EIR/EA, Section 2.3.1, Water Quality and Stormwater Runoff	Yes	Resident Engineer, Construction Contractor	2025 SS Section 13.1.01D (2)					No
Water Quality	**PF-WQ-4:** Design pollution prevention BMPs will be implemented, such as 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.	Draft EIR/EA, Section 2.3.1, Water Quality and Stormwater Runoff	Yes	Resident Engineer, Construction Contractor	2025 SS Section 13.1.01D (2)					No
Water Quality	**PF-WQ-5:** Caltrans-approved treatment BMPs will be implemented consistent with the requirements of the NPDES permit and waste discharge requirements for Caltrans (Order No. 2022-0033-DWQ, NPDES No. CAS00003) and any subsequent permits in effect at the time of construction. Treatment BMPs may include biofiltration, design pollution prevention infiltration areas (DPPIAs), infiltration devices, detention devices, dry-weather flow diversion, gross solids removal devices (GSRDs), media filters, bioretention, an open graded friction course, and wet basins.	Draft EIR/EA, Section 2.3.1, Water Quality and Stormwater Runoff	Yes	Resident Engineer, Construction Contractor	2025 SS Section 13.1.01D (2)					No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Water Quality	**PF-WQ-6:** Caltrans FTC devices, other treatment controls, and/or institutional controls will be implemented within STGAs consistent with the requirements of Attachment E of the NPDES permit and waste discharge requirements for Caltrans (Order No. 2022-0033-DWQ, NPDES No. CAS000003) and the Caltrans statewide Trash Implementation Plan to meet SWRCB trash provisions (SWRCB Resolution No. 2015-0019) .	Draft EIR/EA, Section 2.3.1, Water Quality and Stormwater Runoff	Yes	Resident Engineer, Construction Contractor	2025 SS Section 13.1.01D (2)					No
Water Quality	**PF-WQ-7:** If dewatering is required, construction site dewatering must comply with the General Waste Discharge Requirements for Groundwater Extraction Discharges to Surface Waters within the San Diego Region (Order No. R9-2015-0013, NPDES No. CAG919003) and any subsequent updates to the permit at the time of construction. This permit addresses temporary dewatering operations during construction. Dewatering BMPs must be used to control sediment and pollutants, and the discharges must comply with the waste discharge requirements issued by the San Diego RWQCB.	Draft EIR/EA, Section 2.3.1, Water Quality and Stormwater Runoff	Yes	Resident Engineer, Construction Contractor	2025 SS Section 13-3.01D (2)					No
Other	**GEO-1:** All improvements under all Build Alternatives would be constructed and operated in accordance with all applicable safety standards, such as the California Occupational Safey and Health Administration's standards related to worker safety during construction and operation in Title 8 Chapter 3.2, California Safety and Health Regulations, California Code of Regulations; and National Fire Protection Association Safety Codes and Standards.	Draft EIR/EA, Section 2.3.2, Geology/Soils/ Seismic/Topography	Yes	Resident Engineer, Construction Contractor						No
Paleontology	**PF-PAL-1: Paleontological Resource Discoveries.** During construction, the Project contractor will adhere to Caltrans Standard Specification 14-7.03 if unanticipated paleontological resources are discovered at the job site. If paleontological resources are discovered during construction, the contractor may not disturb the resources and must immediately: a. Stop all work within a 60-foot radius of the discovery. b. Secure the area. c. Notify the Engineer. Caltrans will investigate the discovery and modify the dimensions of the secured area if needed. Paleontological resources may not be moved or taken from the job site. Work may not resume within the radius of discovery until authorized.	Draft EIR/EA, Section 2.3.3, Paleontology	Yes	Qualified Paleontologist, Construction Contractor, Resident Engineer	2025 SS Section 14-7.03					No
Hazardous Waste	**PF-HAZ-1:** Caltrans Standard Specification Section 13-4.03G: Dewatering activities shall be conducted in accordance with Caltrans Standard Specification Section 13-4.03G, which requires implementation of measures to control dewatering operations and associated discharges to prevent environmental impacts.	Draft EIR/EA, Section 2.3.4, Hazardous Waste/Materials	Yes	Resident Engineer, Construction Contractor	2025 SS Section 13-4.03G					No

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Hazardous Waste	**PF-HAZ-2:** Caltrans Standard Specifications Section 14-11.12: Should construction activities result in the disturbance of lane striping and pavement-marking materials, the generated waste shall be disposed of at an appropriate permitted disposal facility, as determined by a lead specialist. Section 14-11.12 also includes specifications for removing and handling yellow thermoplastic and painted lane striping and pavement markings.	Draft EIR/EA, Section 2.3.4, Hazardous Waste/Materials	Yes	Resident Engineer, Construction Contractor	2025 SS Section 14-11.12					No
Hazardous Waste	**PF-HAZ-3:** Caltrans Standard Specification Section 13-4.03E (2) and Figure 7-1.1 “Unknown Hazards Procedures” in Caltrans Construction Manual (December 2024): During construction, the construction contractor shall monitor soil excavation for visible soil staining, odor, and the possible presence of unknown hazardous material sources. If hazardous material contamination or sources are suspected or identified during Project construction activities, the construction contractor will be required to cease work in the area and have an environmental professional evaluate the soils and materials to determine the appropriate course of action required, consistent with “Unknown Hazards Procedures” in Chapter 7 in the Caltrans Construction Manual.	Draft EIR/EA, Section 2.3.4, Hazardous Waste/Materials	Yes	Resident Engineer, Construction Contractor	2025 SS Section 14-11.12					No
Hazardous Waste	**HAZ-2: Handling of ADL Affected Soils.** During construction, the construction contractor will remove and either reuse or properly dispose of soils. This includes requiring special handling, treatment, and/or disposal of ADL consistent with the California Department of Transportation lead variance from the California Department of Toxic Substances Control.	Draft EIR/EA, Section 2.3.4, Hazardous Waste/Materials	Yes	Resident Engineer, Construction Contractor						No
Air Quality	**PF-AQ-1:** The contractor will adhere to Caltrans Standard Specifications for Construction (Section 14-9.02) that specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances.	Draft EIR/EA, Section 2.3.5, Air Quality	Yes	Resident Engineer, Construction Contractor	2025 SS Section 14-9.02					No
Air Quality	**PF-AQ-2:** During clearing, grading, earthmoving, or excavation operations, fugitive dust emissions be controlled by regular watering or other dust preventive measures using the following procedures, as specified in SCAQMD Rule 403.	Draft EIR/EA, Section 2.3.5, Air Quality	Yes	Resident Engineer, Construction Contractor	2025 SS Section 14-9.03					No
Air Quality	**AQ-1** To the extent feasible, all construction signal/message boards shall be solar powered.	Draft EIR/EA, Section 2.3.5, Air Quality	Yes	Resident Engineer, Construction Contractor						No
Air Quality	**AQ-2** To the extent feasible, electricity shall be obtained from power poles rather than temporary diesel or gasoline generators.	Draft EIR/EA, Section 2.3.5, Air Quality	Yes	Resident Engineer, Construction Contractor						No
Noise	**PF-N-1:** Caltrans Standard Specifications Section 14.8-02: Control and monitor noise resulting from work activities. Do not exceed 86 A- weighted decibels maximum instantaneous noise level (dBA L_{max}) at 50 feet from the job site from 9:00 p.m. to 6:00 a.m.	Draft EIR/EA, Section 2.3.6, Noise	Yes	Resident Engineer, Construction Contractor	2025 SS Section 14-8.02					No

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Biology	**PF-BIO-1: Invasive Species Control.** Invasive species will be removed from the Project work area and contained during construction. The use of known invasive plant species (i.e., plant species listed in the California Invasive Plant Council [Cal-IPC] California Invasive Plant Inventory with a High or Moderate rating) will be prohibited for construction, revegetation, and landscaping activities. Project measures will be included to ensure invasive plant material is not spread from the Project site to other areas by disposal off-site or by tracking seed on equipment, clothing, and shoes. Equipment/material imported from an area of invasive plants must be identified and measures implemented to prevent importation and spreading of nonnative plant material within the Project site. All construction equipment will be visually inspected and cleaned with water to remove dirt, seeds, vegetative material, or other debris that could contain or hold seeds of noxious weeds before entering and exiting the Project site. Eradication strategies (i.e., weed abatement programs) will be employed should an invasion occur during construction.	Draft EIR/EA, Section 2.4.1, Natural Communities	Yes	Resident Engineer, Construction Contractor, Qualified Biologist	2025 SS Section 14-6.05					No
Biology	**PF-BIO-3: Biological Monitoring.** A biologist will monitor all vegetation clearing and any other construction activities (at the discretion of a qualified biologist) for the duration of the Project in areas adjacent to environmentally sensitive areas (riparian habitat and coastal sage scrub associated with Aliso Creek) to flush any wildlife species present prior to construction; avoid direct mortality of wildlife and ensure compliance with and proper implementation of vegetation removal, best management practices, and ESAs; and ensure that all biological resource-related avoidance and minimization measures are properly adhered to.	Draft EIR/EA, Section 2.4.4, Animal Species	Yes	Qualified Biologist	2025 SS Section 14-6.03D					No

POST-CONSTRUCTION

Category	Task and Brief Description	Source	Included in PS&E package	Responsible Branch/Staff	Action to Comply	Due Date	Task Completed by	Task Completed on	Remarks	Mitigation for significant impacts under CEQA?
Other	**LU-2:** Prior to construction, the construction contractor will generate time-stamped photo documentation of the pre-construction conditions of all temporary staging areas. Following completion of the Project, areas that are temporarily disturbed by construction activities would be returned to their property owners in the same or better condition than prior to construction. Owners of parcels where TCEs are required will receive compensation for the temporary use of a portion of their property.	Draft EIR/EA, Section 2.2.1, Land Use	Yes	Resident Engineer, Construction Contractor						No