

DRAFT MITIGATION MONITORING AND REPORTING PLAN FOR THE I-110/C STREET INTERCHANGE PROJECT

*Document considered draft until Board considers document*

CEQA requires public agencies to adopt a reporting or monitoring program for the changes to the project that have been adopted to mitigate or avoid significant effects on the environment (PRC Section 21081.6). The purpose of this program is to ensure that when an MND identifies measures to reduce potential environmental impacts to less than significant levels, that those measures are implemented as detailed in the environmental document. As responsible agency, the LAHD is responsible for implementation of this Mitigation Monitoring and Reporting Plan (MMRP). Once the Board of Harbor Commissioners adopts the MMRP, the applicable LAHD division(s) will incorporate the mitigation monitoring/reporting requirements in the appropriate permits (i.e., engineering specifications, engineering construction permits, and/or real estate entitlements). Therefore, in accordance with the aforementioned requirements, this MMRP lists each mitigation measure, describes the methods for implementation and verification, and identifies the responsible party or parties as detailed below.

Mitigation Measure	Timing and Methods	Responsible Party
<p><b>LU-1:</b> LAHD or its designee shall prepare a Traffic Management Plan (TMP) to minimize direct and cumulative construction impacts on the community. The TMP shall be developed in consultation with the Los Angeles Department of Transportation and the California Department of Transportation, and it shall be provided with the construction plan to the City of Los Angeles Police Department and the City of Los Angeles Fire Department prior to commencement of construction activities. The TMP shall include the following implementation plans:</p> <ul style="list-style-type: none"> <li>• Public Information: Provide project updates to affected residents and</li> </ul>	<p><b>Timing:</b> Prior to and during construction.</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout the construction phases.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>

<p>businesses, including the general public, via brochures and mailers, community meetings, and web site information;</p> <ul style="list-style-type: none"> <li>• <b>Motorist Information:</b> Provide project information using changeable message signs and ground-mounted signs;</li> <li>• <b>Incident Management:</b> Implement Construction Zone Enhanced Enforcement Program , freeway service patrol, and California Highway Patrol traffic handling; and</li> <li>• <b>Traffic Management during Construction:</b> Provide a traffic lane closure chart, detour routes, pedestrian routes, residential and commercial access routes, and temporary traffic signals during construction.</li> </ul>		
<p><b>C-1:</b> This mitigation measure is the same as LU-1. Please see above for details.</p>	<p>See above</p>	<p>See above</p>
<p><b>C-2:</b> Continue the public outreach program to keep residents, businesses, and any service providers within the project area informed, and to inform surrounding communities about the project construction schedule, traffic impacted areas and the TMP, and other relevant project information.</p>	<p><b>Timing:</b> Throughout project construction.</p> <p><b>Method:</b> This measure shall be implemented by the LAHD project construction manager or designated construction contractor liaison to ensure compliance with the measure.</p>	<p><b>Implementation:</b> LAHD and LAHD Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<p><b>U&amp;ES-1:</b> Work in close coordination with the utility service providers in advance of construction activities to relocate affected</p>	<p><b>Timing:</b> Once prior to construction</p> <p><b>Method:</b> This measure shall be implemented</p>	<p><b>Implementation:</b> LAHD and LAHD Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental</p>

utilities and minimize impacts on consumers.	by the LAHD project construction manager or designated construction contractor liaison to ensure compliance with the measure.	Management Division, Construction Management Division
<b>U&amp;ES-2;</b> This mitigation measure is the same as LU-1. Please see above for details.	See above	See above
<b>TR-1;</b> This mitigation measure is the same as LU-1. Please see above for details.	See above	See above
<b>VIS-1:</b> Develop context-sensitive solutions for the aesthetic and landscape treatments of the project elements based on the Caltrans Aesthetic and Landscape Master Plan.	<p><b>Timing:</b> Final Design and Construction</p> <p><b>Method:</b> This measure shall be implemented by the LAHD project engineer as part of final design plans. Specific landscape treatments developed as a result of final design shall be incorporated into the contract specifications for construction. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD and LAHD Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division, and Engineering Division</p>
<b>VIS-2:</b> Utilize drainage and water quality elements, where required, that maximize the allowable landscape. Place any water quality or detention ponds out of clear view of the interchange and the highway.	<p><b>Timing:</b> Throughout construction</p> <p><b>Method:</b> This measure shall be implemented by the LAHD project engineer as part of final design plans. Specific landscape treatments developed as a result of final design shall be incorporated into the contract specifications for construction. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or</p>	<p><b>Implementation:</b> LAHD and LAHD Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division, and Engineering Division</p>

	designated building inspectors to ensure compliance with contract specifications.	
<b>VIS-3:</b> Use a visually compatible ornamental groundcover in any detention/water quality basins or geoswales that are located within ornamental landscape areas.	<p><b>Timing:</b> Final Design and Construction</p> <p><b>Method:</b> This measure shall be implemented by the LAHD project engineer as part of final design plans. Specific elements developed as a result of final design shall be incorporated into the contract specifications for construction. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD and Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division, and Engineering Division</p>
<b>VIS-4:</b> Landscape and revegetate disturbed areas to the greatest extent feasible. Landscaping should include appropriate irrigation, establishment, and maintenance to assure ongoing success of the plantings.	<p><b>Timing:</b> Construction phase</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<b>CR-1:</b> If cultural materials are discovered during construction, all earthmoving activity within and around the immediate discovery area shall be stopped until a qualified archaeologist can assess the nature and significance of the find.	<p><b>Timing:</b> Throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>

	<p>phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	
<p><b>CR-2:</b> If human remains are discovered, State Health and Safety Code Section 7050.5 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the county coroner shall be contacted. Pursuant to Public Resources Code Section 5097.98, if the remains are thought to be Native American, the coroner shall notify the Native American Heritage Commission (NAHC), which shall then notify the Most Likely Descendent (MLD). At this time, the person who discovered the remains shall contact Gary Iverson, Branch Chief of District 7, Division of Environmental Planning, so that he may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of Public Resources Code Section 5097.98 are to be followed as applicable.</p>	<p><b>Timing:</b> Throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<p><b>PAL-1:</b> Develop a Program to Mitigate Impacts on Nonrenewable Paleontologic Resources: This mitigation measure shall be carried out by a qualified vertebrate paleontologist consistent with the proposed guidelines of the Society of Vertebrate Paleontology. This shall include the following:</p>	<p><b>Timing:</b> Prior to construction and throughout construction activities</p> <p><b>Method:</b> The LAHD Environmental Management Division shall retain a qualified paleontologist to implement this measure.</p>	<p><b>Implementation:</b> LAHD</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>

<ul style="list-style-type: none"><li>• An assessment of site-specific excavation plans to determine areas that shall be designated for paleontological monitoring during initial ground disturbance;</li><li>• Development of monitoring protocols for these designated areas. Areas consisting of artificial fill materials shall not require monitoring. Paleontologic monitors who are qualified according to Society of Vertebrate Paleontology standards shall be equipped to salvage fossils as they are unearthed to avoid construction delays and remove samples of sediments that are likely to contain the remains of small fossil invertebrates and vertebrates. Monitors shall be empowered to temporarily halt or divert equipment to allow removal of abundant or large specimens. Monitoring may be reduced if some of the potentially fossiliferous units described herein are determined upon exposure and examination by qualified paleontologic personnel to have a low potential to contain fossil resources;</li><li>• Preparation of all recovered specimens to a point of identification and permanent preservation, including washing of sediments to recover small invertebrates and vertebrates. Preparation and stabilization of all recovered fossils are essential to mitigate</li></ul>		
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<p>adverse impacts on the resources fully;</p> <ul style="list-style-type: none"> <li>• Identification and curation of all specimens into an established, accredited museum repository with permanent retrievable paleontologic storage. These procedures are also essential steps in effective paleontologic mitigation and CEQA compliance (Scott and Springer 2003). The paleontologist shall have a written repository agreement in hand prior to the initiation of mitigation activities. Mitigation of adverse impacts on significant paleontologic resources is not considered complete until such curation into an established museum repository has been fully completed and documented; and</li> <li>• Preparation of a report of findings with an appended itemized inventory of specimens. The report and inventory, when submitted to the appropriate lead agency along with confirmation of the curation of recovered specimens into an established, accredited museum repository, shall signify completion of the program to mitigate impacts on paleontologic resources.</li> </ul>		
<p><b>HAZ-1:</b> To reduce the aerially deposited lead levels in the composite soil that shall remain on site, the upper 2.5 feet of soil adjacent to the existing roadways within a 150-foot radius</p>	<p><b>Timing:</b> Prior to construction.</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental</p>

<p>of boring B-10 shall be removed and disposed off site as hazardous waste. The recommended depths of removal for the site are displayed graphically in the ISA. The ultimate extent of the excavation shall consist of the area bound by the existing edge of pavement and the limits of the excavation as shown on the plans, as deemed necessary for construction or as directed by the engineer. Upon Completion of the recommended removals (within a 150-foot radius of boring B-10), the revised linear regression analysis of the composite of the upper 2.5 feet of soil remaining on site shall have a TTLC of less than 55 mg/kg and STLC of less than 5 mg/L, thereby clearing restrictions on the reuse of the remaining soil within the project limits.</p>	<p>specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p>Management Division, Construction Management Division</p>
<p><b>HAZ-2:</b> Soils from deep excavations (greater than approximately 6 feet, particularly for CIDH pile foundation excavations) shall be stockpiled and secured as potential regulated waste pending environmental evaluation and laboratory testing to determine appropriate disposal or reuse of the excavated soils.</p>	<p><b>Timing:</b> Throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<p><b>HAZ-3:</b> Waste with TTLC levels greater than 1,000 mg/kg or STLC levels greater than 5 mg/L are in excess of California hazardous</p>	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p>

<p>waste criteria and must be disposed of in a Class I hazardous waste landfill. In addition, waste with TTLC levels greater than 5 mg/L are in excess of federal hazardous waste criteria and must be disposed of in a Class I hazardous waste landfill. A remediation specialist should be consulted for options other than disposal off site.</p>	<p>into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<p><b>HAZ-4:</b> The contractor shall prepare a project-specific lead compliance plan to prevent or minimize worker exposure to lead while handling material containing ADL. Attention is directed to Title 8, California Code of Regulations, Section 1532.1, "Lead," for specific California Department of Industrial Relations, Division of Occupational Safety and Health Administration (OSHA), requirements when working with lead.</p>	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<p><b>AQ-1:</b> As required by the LAHD, the construction contractor shall adhere to the current LAHD Sustainable Construction Guidelines for Reducing Air Emissions during project construction phase. The LAHD shall determine the applicable BMP's once the contractor identifies and secures a final equipment list and project scope.</p>	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<p><b>NOI-1:</b> All equipment shall have sound-control devices that are no less effective than</p>	<p><b>Timing:</b> Prior to and throughout construction</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p>

<p>those provided on the original equipment. No equipment shall have an unmuffled exhaust.</p>	<p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<p><b>NOI-2:</b> As directed by LAHD, the contractor shall implement appropriate additional noise mitigation measures, including changing the location of stationary construction equipment, turning off idling equipment, rescheduling construction activity, notifying adjacent residents in advance of construction work, and installing acoustic barriers around stationary construction noise sources.</p>	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<p><b>NOI-3:</b> Noise control shall conform to the provisions in Section 14-8.02, “Noise Control,” of the Standard Specifications and these special provisions. The noise level from the contractor’s operations, between the hours of 7:00 a.m. and 7:00 p.m., shall not exceed 86 dBA at a distance of 50 feet. Construction equipment shall not be operated, nor shall the engines of this equipment be allowed to run, between the hours of 7:00 p.m. and 7:00 a.m. or on Sundays, except that within the limits of the project and subject to control of the</p>	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>

<p>engineer, equipment may be operated during the restricted hours to:</p> <ul style="list-style-type: none"> <li>• Service traffic control facilities;</li> <li>• Service construction equipment;</li> <li>• Perform work that the contract specifies be done during restricted hours; and</li> <li>• Saw transverse weakened plane joints in concrete pavement.</li> </ul>		
<p><b>BIO-1:</b> To avoid impacts on non-listed birds protected under the federal MBTA and similar state statutes, one of the following shall be implemented:</p> <ul style="list-style-type: none"> <li>• No ground disturbance, site clearing, or removal of any potential nesting habitat shall be conducted within the typical breeding/nesting season for birds (February 15 to September 1) or;</li> <li>• If construction shall occur during the bird breeding season, prior to any ground disturbing activities, a qualified biologist shall conduct surveys for nesting birds (including raptors). The surveys shall occur a minimum of 3 days prior to clearing, removal, or trimming of any vegetation. Surveys shall include areas within 200 feet of the edge of the project boundary (as legally accessible) and the entire project</li> </ul>	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>

<p>site. If active nests are found, a 100-foot (minimum) temporary fence barrier shall be erected around the nest site. For raptor nests that are found, a 250-foot buffer from construction activities shall be required. No habitat removal or any other work shall be allowed to occur within the fenced nest zone until a qualified biologist confirms that the nest is no longer active and/or the young have fledged.</p>		
<p><b>BIO-2:</b> Construction equipment shall be cleaned of mud or other debris that may contain invasive plants and/or seeds. Equipment shall also be inspected before arriving to the site and before leaving the site during the course of construction to reduce the potential of spreading noxious weeds.</p>	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<p><b>BIO-3:</b> All targeted vegetative material shall be immediately removed from the project area. This includes small cuttings, leaves, branches, seeds, and vegetative litter.</p>	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>

	compliance with contract specifications.	
<b>BIO-4:</b> Trucks with loads carrying vegetation shall be covered and vegetation materials removed from the site shall be disposed of in accordance with applicable laws and regulations.	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<b>BIO-5:</b> Any areas within the limits of disturbance that remain unvegetated after construction has been completed shall be hydroseeded with a seed mix restricted to local natives to promote recolonization of native vegetation. In addition, any landscaping within the BSA associated with this project shall use native plant species. This measure would reduce the risk of providing optimal conditions for invasive species to colonize the area.	<p><b>Timing:</b> Prior to and throughout construction</p> <p><b>Method:</b> This measure shall be incorporated into the LAHD design and contract specifications. The contractor shall adhere to these specifications throughout construction phases. Enforcement shall include oversight by the LAHD project construction manager or designated building inspectors to ensure compliance with contract specifications.</p>	<p><b>Implementation:</b> LAHD through Construction Contractor</p> <p><b>Monitoring and Reporting:</b> Environmental Management Division, Construction Management Division</p>
<b>Project Conditions and BMPs: Although not required as CEQA mitigation, the following measures are included for tracking purposes.</b>		
<p><b>Biology BMPs:</b></p> <ul style="list-style-type: none"> <li>• Water pollution and erosion control plans shall be developed and implemented in accordance RWQCB requirements.</li> <li>• Equipment storage, fueling, and staging areas shall be located on upland sites with minimal risks of direct drainage into sensitive habitats (i.e., EFH) and in such a manner as to prevent any runoff from entering sensitive habitat. Necessary precautions shall be taken to prevent the release of cement or other toxic substances into surface waters. Project-related spills of hazardous materials shall be reported to appropriate entities, including applicable jurisdictional city, U.S. Fish and Wildlife Service (USFWS), and California Department of Fish and Game (CDFG), and RWQCB agencies. The spills shall be cleaned up immediately and contaminated soils removed to approved</li> </ul>		

disposal areas.

- Construction employees shall strictly limit activities, vehicles, equipment, and construction materials at the proposed project footprint and designated staging areas and routes of travel. The construction area(s) shall be the minimal area necessary to complete the project and shall be specified in the construction plans. Employees shall be instructed that their activities are restricted to the construction areas.

**Caltrans Environmental Commitments Record, Air Raid Siren #82 Protection:** Air Raid Siren #82 is to be preserved in place. During construction, temporary fencing, signage, flagging, or other protection is to be placed around the perimeter of the air raid siren to ensure that construction activities do not result in damage or removal of the siren