

**RANCHERO ROAD AQUEDUCT CROSSING PROJECT**  
**CITY OF HESPERIA**  
**SUMMARY OF MITIGATION**

**Short-term Emissions:** Short-term emissions would result from construction-related activities, such as excavation and grading, machinery and equipment emissions, vehicle emissions from construction employees, etc.

**Mitigation Measures**

- AQ-01** During demolition and construction, periodic watering for short-term stabilization of disturbed surface areas shall occur to minimize visible fugitive dust emissions (for purposes of this measure, use of a water truck to maintain most disturbed surfaces and actively spread water during visible dusting episodes shall be considered sufficient to maintain compliance). This measure shall be implemented to the satisfaction of the City Development Services Department.
- AQ-02** During demolition and construction, the project contractor shall take actions sufficient to prevent project-related track-out onto paved surfaces. This measure shall be implemented to the satisfaction of the City Development Services Department.
- AQ-03** During demolition and construction, the project contractor shall cover loaded haul vehicles while operating on publicly maintained paved surfaces. This measure shall be implemented to the satisfaction of the City Development Services Department.
- AQ-04** During demolition and construction, the project contractor shall stabilize graded site surfaces upon completion of grading when subsequent development is delayed or expected to be delayed more than 30 days, except when such a delay is due to precipitation that dampens the disturbed surface sufficiently to eliminate visible fugitive dust emissions. This measure shall be implemented to the satisfaction of the City Development Services Department.
- AQ-05** During demolition and construction, the project contractor shall reduce nonessential earthmoving activity under high wind conditions (for purposes of this measure, a reduction in earthmoving activity when visible dusting occurs from moist and dry surfaces due to wind erosion shall be considered sufficient to maintain compliance). This measure shall be implemented to the satisfaction of the City Development Services Department.
- AQ-06** During demolition and construction, the project contractor shall water exposed surfaces at least twice per day; activities shall be scheduled to allow for early paving of road surfaces; reduced travel speeds (15 mph) on unpaved surfaces shall be enforced; simultaneous disturbance areas shall be limited to the smallest area as practical; and all stockpiles shall be covered with tarps. This measure shall be implemented to the satisfaction of the City Development Services Department.
- AQ-07** Measures contained in the MDAQMD Rule 403 shall be followed, as applicable, during project construction. The City of Hesperia shall be responsible for selecting 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 encroachment permits from the City, and the contract documents and specifications for the project shall state the required Rule 403 measures that must be followed by the contractors. This measure shall be implemented to the satisfaction of the City Development Services Department.

## **Nesting Bird Impacts during Construction**

### **Mitigation Measure**

**BIO-01** If project activities are planned during the bird nesting season (March 1 to August 31), a nesting bird survey shall be conducted within 30 days prior to any demolition or ground-disturbing activities, including, but not limited to demolition, clearing, grubbing, and/or rough grading, to ensure birds protected under the Migratory Bird Treaty Act (MBTA) are not disturbed by on-site activities. Any such survey(s) shall be conducted by a qualified biologist. If no active nests are found, no additional actions related to this measure are required. If active nests are found, the nest locations shall be mapped by the biologist. Nesting bird species shall be documented and, to the degree feasible, the nesting stage (e.g., incubation of eggs, feeding of young, near fledging) determined. Based on the species present and surrounding habitat, a no-disturbance buffer shall be established around each active nest. The buffer shall be identified by a qualified biologist and confirmed by the City; non-raptor bird species nests shall be buffered up to 250 feet, while raptor nests shall be buffered up to 820 feet. No construction or ground disturbance activities shall be conducted within the buffer until the biologist has determined the nest is no longer active and has informed the City and construction supervisor that activities may resume. This measure shall be implemented to the satisfaction of the City Development Services Department.

## **Burrowing Owl Impacts during Construction**

### **Mitigation Measures**

**BIO-02** Prior to commencement of construction activities, a pre-construction burrowing owl/Initial Take and Avoidance Survey must be conducted by a qualified biologist within 30 days prior to the beginning of project construction to determine if the project site contains suitable burrowing owl habitat and to avoid any potential impacts to the species. The survey shall include 100 percent coverage of the project site. If the survey reveals no suitable habitat for burrowing owl is present, no additional actions related to this measure are required.

If occupied burrows are found within the development footprint during the pre-construction clearance surveys, site-specific buffer zones shall be established by the qualified biologist in accordance with the California Department of Fish and Wildlife (CDFW). The buffer zones may vary depending on burrow location and burrowing owl sensitivity to human activity and no construction activity shall occur within a buffer zone until a Burrowing Owl Mitigation and Monitoring Plan (BOMMP) is submitted to the CDFW for approval and implemented pursuant to CDFW consultation and **Mitigation Measure BIO-3**. This measure shall be implemented to the satisfaction of the City Development Services Department and the CDFW.

**BIO-03** A BOMMP shall be submitted to the CDFW for review and approval prior to commencement of construction activities in site-specific burrowing owl buffer zones. Occupied burrowing owl burrows directly impacted (i.e., temporarily or permanently) by the project shall be relocated. The BOMMP shall describe proposed relocation and monitoring plans. The plan shall include the number and location of occupied burrow sites and details on adjacent or nearby suitable habitat available to owls for relocation. If no suitable habitat is available nearby for relocation, then details regarding the creation of artificial burrows (i.e., numbers, location, and type of burrows) shall also be included in the plan. The BOMMP shall include, but not be limited to, the following measures:

- Occupied burrows shall not be disturbed during the nesting season of February 1 through August 31 unless a qualified biologist can verify through noninvasive methods that either the owls have not begun egg laying and incubation or that juveniles from the occupied burrows are foraging independently and are capable of independent flight.
- Owls must be relocated by a qualified biologist from any occupied burrows that will be impacted by project activities. Suitable habitat must be available adjacent to or near the disturbance site, or artificial burrows will need to be provided nearby. Once the biologist has confirmed that the owls have left the burrow, burrows shall be excavated using hand tools and refilled to prevent reoccupation.
- All relocation shall be approved by the CDFW. The qualified biologist shall monitor the relocated owls a minimum of three days per week for a minimum of three weeks. A report summarizing the results of the relocation and monitoring shall be submitted to the CDFW within 30 days following completion of the relocation and monitoring of the owls.
- This measure shall be implemented to the satisfaction of the City Development Services Department and the CDFW.

#### **Potential Impacts to Jurisdictional Area(s)**

##### **Mitigation Measure**

**BIO-04** Prior to commencement of construction activities, the City shall confirm with the CDFW, Corps and/or Regional Water Quality Control Board any appropriate permit requirement(s) related to any identified jurisdictional feature within the project footprint. If no jurisdiction is asserted, no further action is required.

In the event the CDFW, Corps and/or Regional Water Quality Control Board assert jurisdiction over feature(s) within the project footprint, the City shall satisfy the applicable and appropriate permit requirement(s) identified by the agency (agencies) prior to the commencement of construction activities.

#### **Potential Paleontological Resource Impacts**

##### **Mitigation Measures**

**GEO-01** Prior to commencement of construction activities, the City shall ensure a qualified paleontological monitor has been retained to monitor ground disturbance activities of native deposits (below identified levels of artificial fill.) During construction, the paleontological monitor shall be present as deemed appropriate to monitor construction-related grading, excavation, trenching, and/or augering in areas with a high potential for paleontological resources to occur. Paleontological monitoring shall include inspection of exposed rock units and microscopic examination of matrix to determine if fossils are present. Upon the advice of the paleontological monitor, the Construction Manager shall have the authority to temporarily divert excavations or drilling away from exposed fossils to recover the fossil specimens and collect associated data efficiently and professionally.

**GEO-2** If paleontological resources are encountered during the course of ground disturbance, work in the immediate area of the find shall be redirected and a qualified paleontologist shall be

retained to assess the find for scientific significance. If determined to be significant, the fossil shall be collected from the field. The paleontologist may also make recommendations regarding additional mitigation measures, such as paleontological monitoring. Scientifically significant resources shall be prepared to the point of identification, identified to the lowest taxonomic level possible, cataloged, and curated into the permanent collections of a museum repository.

**GEO-03** In the event any paleontological resources are encountered, a Paleontological Resources Report shall be prepared and submitted to the City. The report shall include a description and inventory list of recovered fossil materials, a (confidential) map showing the location of paleontological resources found in the field, determinations of sensitivity and significance, and a statement by the paleontological resource specialist that project impacts to paleontological resources have been mitigated to less than significant levels. This measure shall be implemented to the satisfaction of the City Development Services Department.

### **Potential Impacts related to Hazardous Materials**

#### **Mitigation Measures**

**HAZ-01** Prior to commencement of demolition activities, the construction contractor shall prepare and implement a Worker Health and Safety Plan subject to the review and approval of the City and the California Department of Toxic Substances Control. This measure shall be completed to the satisfaction of the City Development Services Department.

**HAZ-02** Prior to any demolition activities, a Phase II site investigation shall be conducted to verify the presence of any asbestos-containing material (ACM) or lead-based paint (LBP) within any structures proposed for demolition constructed prior to 1979. If no materials containing ACM or LBP are identified, no further investigations are required. If ACM and/or LBP are identified, material containing ACM and/or LBP shall be removed pursuant to applicable State and federal regulations.

All ACM and/or LBP shall be removed from the on-site structures and hauled to a licensed receiving facility and disposed of by a certified company. Following completion of the material removal, a report documenting the abatement procedures used, the volume of ACM and/or LBP removed, where the materials were moved to, and transportation/disposal manifests or dump tickets shall be compiled with a copy submitted to the City of Hesperia Engineering Department. This measure shall be completed to the satisfaction of the City Engineering Department.

**HAZ-03** Prior to any construction activities, the soils adjacent to the existing roadway shall be sampled and tested for aerially deposited lead (ADL) and other materials in accordance with applicable ADL testing guidelines. If ADL concentrations are detected in existing soils, such soils will be handled in accordance with State and federal regulations and Caltrans Standard Specifications. If contaminated soils are not identified within or adjacent to the project site, no further mitigation is warranted. This measure shall be completed to the satisfaction of the City Development Services Department.

**HAZ-04** Prior to any construction activities, pavement within the project site containing yellow thermoplastic markings shall be tested for lead-based paint (LBP) and other heavy metals. If markings are found to contain LBP and/or other heavy metals, then the material will be handled in accordance with Caltrans Standard Specification and corresponding Standard Special Provision. If no LBP materials are identified within the project site, no further mitigation is needed. This measure shall be completed to the satisfaction of the City Development Services Department.

## Potential Construction Noise and Vibration Impacts

### Mitigation Measures

- NOI-01** The contractor shall use newer equipment with improved noise muffling and ensure that all equipment items have the manufacturers' recommended noise abatement measures, such as mufflers, engine enclosures, and engine vibration isolators, intact and operational during demolition and construction activities. Newer equipment will generally be quieter in operation than older equipment. All construction equipment shall be inspected at periodic intervals to ensure proper maintenance and presence of noise control devices (e.g., mufflers and shrouding). This measure shall be implemented to the satisfaction of the City Development Services Department.
- NOI-02** To the extent feasible, the Contractor shall turn off construction idling equipment. The Contractor shall strive to keep noise levels from construction equipment relatively uniform and avoid impulsive noises. This measure shall be implemented to the satisfaction of the City Development Services Department.
- NOI-03** Between 7 p.m. and 10 p.m. on all days and between 7 a.m. and 7 p.m. on Sundays and federal holidays, any construction activities occurring within 700 feet of noise-sensitive areas must be accompanied by noise monitoring to ensure compliance with the applicable noise thresholds, and must immediately be modified to achieve compliance if necessary or ceased when/if compliance cannot be achieved. Between the hours of 10 p.m. and 7 a.m., the same provision applies when construction occurs within 1,150 feet of noise-sensitive areas. This measure shall be implemented to the satisfaction of the City Development Services Department.
- NOI-04** To ensure that the surrounding community is aware of potential noise impacts during construction, the City shall provide adequate public notification in advance of proposed construction activities. This measure shall be implemented to the satisfaction of the City Development Department.
- NOI-5** Where vibratory rollers are used within 30 feet of existing building structures during exempted hours, rollers shall be selected based on compaction force to ensure that the 0.2-inch per second peak particle velocity (PPV) threshold is not exceeded at the structure. Whenever vibratory rollers are used within 30 feet of such building structures, continuous vibration monitoring shall be performed, and a plan shall be in place to allow immediate modification or cessation of any vibratory roller activity that generates vibrations exceeding the applicable threshold. Outside of exempted hours, activity constraints will need to be applied for perceptibility thresholds so that the corresponding distance will be more than 200 feet. As a practical matter, this will prevent the use of vibratory rollers on the project outside of the exempted hours. When other vibration-generating construction equipment is used outside of exempted hours, it shall only be done when compliance with the perceptibility threshold can be verified through conservative vibration propagation modeling and/or continuous on-site vibration monitoring. This measure shall be implemented to the satisfaction of the City Development Services Department.
- NOI-6** When possible, the use of construction equipment that creates high vibration levels shall be limited, such as vibratory rollers and hammers operating in the proximity of residential structures or other sensitive land uses. This measure shall be implemented to the satisfaction of the City Development Services Department.

**NOI-7** The hours of vibration-intensive equipment use, such as vibratory rollers, shall be restricted to daytime hours so that impacts to residents are minimal. This measure shall be implemented to the satisfaction of the City Development Services Department.

### **Transportation Impacts resulting from Construction Detours**

#### **Mitigation Measures**

**TRA-01** Prior to construction, the Contractor shall develop a Transportation Management Plan (TMP) to be implemented during construction for all work performed within the public right-of-way (ROW). The TMP shall comply with City Municipal Code and incorporate measures to reduce construction-related delays to the public and provide safe and efficient movement of motorists, pedestrians, bicyclists, construction equipment, workers, and emergency and law enforcement personnel and equipment. The City and its contractor shall coordinate with local police, fire, and emergency medical service providers regarding construction scheduling and any other practical measures to maintain adequate access to properties and response times. This measure shall be implemented to the satisfaction of the City of Hesperia Development Services Department.

**TRA-02** The Contractor shall develop a Traffic Control Plan (TCP) to be implemented during construction. The TCP shall follow the latest edition of the California Manual on Uniform Traffic Control Devices and local agency guidelines. Data to be included in the TCP will vary depending upon the complexity of the work being performed, the volume of traffic affected, and the roadway geometrics at the specific location where the construction will be performed. The TCP shall depict the sequence of construction operations, construction to be performed, travel ways that would be utilized by movements of traffic during each phase of construction, hours of operation, and the estimated time required for construction completion. Multiple phases of construction would require a separate TCP component for each different construction phase or operation. This measure shall be implemented to the satisfaction of the City of Hesperia Development Services Department.

### **Potential Impacts to Tribal Cultural Resources**

#### **Mitigation Measures**

**CUL-01** In the event that pre-contact cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period. Additionally, the San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed within Mitigation Measure TCR-1, if any such find occurs and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment. This measure shall be implemented to the satisfaction of the City Development Services Department.

**CUL-02** If significant Native American historical resources, as defined by CEQA (as amended, 2015), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to SMBMI for review and comment, as detailed within TCR-1. The archaeologist shall monitor the remainder of the project and

implement the Plan accordingly. This measure shall be implemented to the satisfaction of the City Development Services Department.

**CUL-03** If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project. This measure shall be implemented to the satisfaction of the City Development Services Department.

**TCR-01** The San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed in Mitigation Measure CUL-1, of any pre-contact resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with SMBMI, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents SMBMI for the remainder of the project, should SMBMI elect to place a monitor on-site. This measure shall be implemented to the satisfaction of the City Development Services Department.

**TCR-02** Any and all archaeological/cultural documents created as a part of the project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Lead Agency for dissemination to SMBMI. The Lead Agency and/or applicant shall, in good faith, consult with SMBMI throughout the life of the project. This measure shall be implemented to the satisfaction of the City Development Services Department.