



Sonoma County Public Infrastructure

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MITIGATION MONITORING PROGRAM

Sonoma County Permit and Resource Management Department

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Pursuant to Section 21081.6 of the Public Resources Code, the mitigation measures listed in this program are to be implemented as part of the project. This program identifies the time at which each mitigation measure is to be implemented and the person(s) responsible. The signature of each responsible person will indicate completion of their portion of the mitigation measure.

Project: Arnold Drive Bike Lane Project

Project Applicant: Sonoma County Public Infrastructure

Location: Arnold Drive from Country Club Drive to Madrone Road

Lead Agency: Sonoma County

P.P.R #

SCH # 2024060088

Decision Making Body: Board of Supervisors

Date Approved: TBD

Contact Person(s): Chris Seppeler

Time of Implementation

Design: The mitigation measure will be incorporated into the project design and/or included in the plans and contract special provisions prior to awarding a construction contract.

Pre-Construction: The mitigation measure will be implemented before construction begins.

Construction: The mitigation measure will be implemented during construction.

Post-Construction: The mitigation measure will be implemented after project construction.

Responsible Persons

The Permit and Resource Management Department will designate an Environmental Specialist. Sonoma County Public Infrastructure will designate a Design Engineer and a Construction Engineer.

The Environmental Specialist will certify that a review of the project and plans and specifications was made with the Design Engineer prior to advertising for construction bids or otherwise initiating project construction. The Design

Engineer will identify how each mitigation measure has been incorporated into the project. The Construction Engineer (or other person identified in the program) will certify that the mitigation measure has been implemented.

Environmental Record

Before the construction contract is awarded, the Design Engineer will forward the mitigation monitoring program to the Construction Engineer, with a copy to the Environmental Specialist. At completion of construction the Construction Engineer will return the original signed mitigation monitoring program to the Environmental Specialist for filing.

RECORD OF COMPLIANCE

The Environmental Specialist has reviewed the project design, and plans and specifications with the Design Engineer to assure that the responsibility for completion of the mitigation measures has been assigned and plans and specifications incorporate the appropriate mitigation measures.

Environmental Specialist _____ date _____

AES-1: Mitigation Measure – Tree Protection and Replacement along Arnold Drive.

The following measures shall be implemented to minimize visual impacts related to tree and vegetation removal along the Arnold Drive Scenic Corridor:

- a. The amount of tree and vegetation removal necessary to construct the project shall be minimized to the extent possible. The County shall retain a certified arborist to develop project-specific tree preservation solutions such as retaining structures, as well as trenching and pruning techniques to minimize the potential for tree impacts and tree loss as a result of the project. Such measures shall be established in a defined tree protection program specification for the project and implemented during construction. Measures shall include tree protection zones, tree protection fencing, tree pruning treatments, grading and trenching controls, and drainage considerations. Measures may include, but are not limited to, the following:

Pruning to remove damaged limbs or wood

Bark scoring to remove damaged bark and promote callous formation

Alleviation of compaction by lightly scarifying the soil surface

Installation of a specific mulching material

Supplemental irrigation during the growing season

Treatment with specific amendments intended to promote health, vigor, or root growth

Vertical mulching or soil fracturing to promote root growth

Periodic post-construction monitoring

Tree replacement

- b. The Contractor shall install temporary plastic mesh-type construction fencing between the construction zone and naturally vegetated areas and trees that are not to be disturbed. The areas to require such fencing shall be determined in consultation with Permit Sonoma and a certified arborist shown on plans when final design of the project is complete. The fencing shall be maintained throughout the construction period and removed following construction.
- c. When excavating within the root zones of trees to be retained, care shall be taken to minimize damage to the tree root system. Hand digging around roots shall be conducted wherever feasible. If required, excavation near trees using heavy equipment shall be carried out by pulling the bucket or blade away from the tree parallel to the roots to minimize cracking and damaging of roots left in the soil. As roots are exposed during excavation, those that are one inch or greater shall be cut cleanly at the surface of the excavation using hand tools.
- d. Pruning shall be completed to the minimum degree necessary to accommodate construction vehicles. Pruning shall be conducted in a manner that helps preserve tree health under the direction of a certified arborist or qualified horticulturist.

- e. Trees that are damaged or removed shall be replaced in-kind with native tree and shrub species planted as close as feasible to the area in which an existing tree is removed. This shall include coast live oak and valley oak species, as well as California native and regionally appropriate shrub species, including but not limited to, toyon, ceanothus, snowberry, manzanita, and scrub oak. The County shall coordinate tree replacements at a 3:1 ratio within County right-of-way, as well as possibly on adjacent private properties, with coordination and consent from adjacent property owners, or other nearby off-site locations. For tree removals occurring within riparian areas, the County shall coordinate tree replacements at a minimum 3:1 ratio, or at the ratio determined through regulatory agency permits, and as further specified in Mitigation Measure BIO-6, Revegetation of Riparian Habitat. Trees planted shall be monitored by the County for at least 5 years after project completion to ensure that the replacement plantings have developed and survive at an 80% success ratio.

Time of Implementation: Design, Pre-Construction, Construction, Post-Construction

- Method: X Incorporated into the project design
- X Included in the project plans and specifications
- County forces:
- X Other: County to hire a reveg specialist to implement planting and monitoring following construction

Design/Construction Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

Comments

AIR-1: Mitigation Measure – Implement Air Quality Control Measures during Construction

To limit dust, criteria pollutants, and precursor emissions associated with the construction activity, Sonoma County will include the following Bay Area Air Quality Management District (BAAQMD) recommended Basic Construction Measures in construction contract specifications for the project:

- a. Exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas and unpaved access roads) shall be watered two times per day;
- b. Haul trucks transporting soil, sand, or other loose material off-site shall be covered or shall have at least two feet of freeboard;
- c. Visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping shall be prohibited;
- d. Vehicle speeds on unpaved areas shall be limited to 15 miles per hour;
- e. Paving shall be completed as soon as possible after trenching work is finished;
- f. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points;
- g. Construction equipment shall be maintained and properly tuned in accordance with manufacturer’s specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation; and
- h. A publicly visible sign shall be posted with the telephone number and person to contact at the County regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District’s phone number shall also be visible to ensure compliance with applicable regulations.

Time of Implementation: Construction

- Method:
- Incorporated into the project design
 - Included in the project plans and specifications
 - County forces
- Other (specify)

Design/ Construction Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

BIO-1: Mitigation Measure – Protect California Red-legged Frog and Special Status Reptiles and Amphibians

The following measures shall be implemented during construction:

- a. Environmental Awareness Briefings. Prior to construction or related activities in areas where the California red-legged frog or other species of special concern (foothill-yellow legged frog, California giant salamander, red-bellied newt, and Western pond turtle) are likely to occur, environmental staff shall brief contractors and other participants about its potential presence. The briefings shall include a flyer with photos and a description of the species and its habitat, the general provisions of applicable regulatory guidelines and the necessity to comply, and the measures that are being implemented to conserve the species as they relate to the activity.
- b. Construction Restrictions. Construction activities within riparian and aquatic areas (ephemeral and intermittent watercourses) shall be limited to the minimum area and duration required to meet the project design requirements.
- c. Seasonal Restrictions. Work within aquatic or riparian habitat shall be restricted to an in-stream work window, from June 15 through October 15, depending on rainfall, or, as determined by regulatory agency permits. Construction within the aquatic or riparian habitat areas shall be conducted when such areas are dry. Construction will not occur in aquatic areas during the breeding season of the California red-legged frog (generally November 1 through April 30).
- d. Biological Monitoring and Inspections. When work is scheduled to occur in aquatic or riparian habitat of the California red-legged frog, a qualified biologist shall inspect the work areas prior to the start of work in that area. The biologist shall visually inspect aquatic and riparian habitat, leaf litter, debris, vegetation, and small mammal or other burrows within the potential disturbance area. The qualified biologist shall be present at the work site until such time as the inspection of habitat, instruction of workers, and disturbance have been completed. The monitor shall have the authority to halt any action that might result in impacts to California red-legged frog or other special status species. In the event that a California red-legged frog is observed within a work area, the USFWS Sacramento Field Office USFWS shall be immediately notified, and work will be halted within 100 feet of the individual until the frog has left on its own volition. In the event that a foothill yellow legged frog, California giant salamander, red-bellied newt or Western pond turtle are observed, they may be moved to a safe location in similar habitat outside of the construction zone.

- e. Decontamination for Chytrid Fungus and Other Pathogens. Any equipment (boots, nets, shovels) that has been used off site will be decontaminated prior to conducting activities in riparian or wetland habitat. Decontamination will comprise the equipment being scrubbed with a 75 percent ethanol solution or bleach solution (0.5-1.0 cup/gallon of water) and then rinsed with water. Decontamination will not occur within 100 feet of aquatic resources.

Time of Implementation: Construction

- Method: Incorporated into the project design
- X Included in the project plans and specifications
 - County forces
 - X Other: County to hire a firm to implement the biological measures

Design/ Construction Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

Comments

BIO-2: Mitigation Measure – Protect Special Status, Migratory, and Nesting Birds

The following measures shall be implemented prior to construction and during construction:

- a. Environmental Awareness Briefings. Prior to construction or related activities in areas where nesting birds are likely to occur, environmental staff shall brief contractors and other participants about protective measures for nesting birds. The briefings shall include general provisions of applicable regulatory guidelines and the necessity to comply, and the measures that are being implemented to conserve the species as they relate to the activity.
- b. Seasonal Restrictions. Ground disturbance (i.e., grading, earthwork, drilling), tree removal, and vegetation clearing shall be conducted outside of the avian nesting season (the nesting season is typically March 1 – August 15 of any given year).
- c. Pre-construction Surveys. If ground disturbance, tree removals, or vegetation clearing cannot be confined to outside of the avian nesting season, a qualified biologist shall conduct pre-construction nesting bird surveys. Surveys shall include a full area search for nesting activity within the project area and a buffered distance of 50 feet. In addition, this should include frequent visual raptor scans with binoculars within the biological study area (the project boundary and a buffered distance of 500 feet), due to the potential for special status raptors to occur (Cooper’s hawk, sharp-shinned hawk, and golden eagle). If raptors are observed, the full area search may include searching for raptors in areas within the biological study area. If the entire area and buffer cannot be

physically searched, it shall be visually and audibly assessed. The biologist shall conduct, at minimum, a one-day pre-construction survey within the seven-day period prior to tree/vegetation removal and ground-disturbing activities. If ground disturbance and tree/vegetation removal work lapses for seven days or longer during the nesting season, the qualified biologist shall conduct a supplemental avian pre-construction survey before project work is reinitiated.

- d. No Construction Buffer Zones. If active nests are detected, the biologist shall flag a buffer around each nest. Construction activities shall avoid nest sites until the biologist determines that the young have fledged or nesting activity has ceased. If nests are documented outside of the project study boundary, but up to 500 feet of the area, buffers would be implemented as needed. The buffer size for common species would be determined on a case-by-case basis in consultation with CDFW. Buffer sizes would take into account factors such as (1) noise and human disturbance levels at the construction site; (2) distance and amount of vegetation or other screening between the construction site and the nest; and (3) sensitivity of individual nesting species. If special status bird species are presumed to be nesting, but no nest is detected, buffers may also be implemented.
- e. Nest Monitoring. The qualified biologist shall monitor all located nests at least once per week to determine nesting status and whether birds are being disturbed. If signs of disturbance or distress are observed, the qualified biologist shall immediately implement adaptive measures to reduce disturbance. These measures may include, but are not limited to, increasing buffer size, and/or halting disruptive construction activities in the vicinity of the nest until fledging is confirmed or nesting activity has ceased.

Time of Implementation: Pre-construction, Construction

Method: Incorporated into the project design

X Included in the project plans and specifications

County forces

X Other: County to hire a firm to

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

Comments

BIO-3: Mitigation Measure – Protect Special Status Fish, Crustacean, and Mollusk Species

The following measures shall be implemented during construction:

- a. Environmental Awareness Briefings. Prior to construction or related activities in aquatic habitat where special status fish, crustacean, and mollusk species may occur, environmental staff shall brief contractors and other participants about its potential presence. The briefings shall include a flyer with photos and a description of the species and its habitat, the general provisions of applicable regulatory guidelines and the necessity to comply, and the measures that are being implemented to conserve the species as they relate to the activity.

- b. Seasonal Restrictions. Work within the bed or bank of any stream channel or riparian area shall be restricted to an in-stream work window, June 15 through October 15, depending on rainfall, or, as determined by regulatory agency permits. Construction within the bed or bank of any stream channel shall occur while streams are dry and no construction shall occur where flowing water is present. If a small amount of water persists within a stream bed during the in-water work window, work may be conducted only after the wetted portions of the stream have been investigated by a qualified biologist and it has been determined, by close inspection with nets or other appropriate methods, that special status species are not present and will not be affected by construction.
- c. Stormwater and Erosion BMPs. Stormwater, spill prevention, and general pollution prevention BMPs referenced in Mitigation Measure BIO-7 shall be implemented to reduce potential water quality degradation, dust, or erosion to areas adjacent to construction activities.

Time of Implementation: Design, Pre-Construction, Construction

- Method:
- Incorporated into the project design
 - Included in the project plans and specifications (contractor will implement)
 - County forces
 - Other: County to hire firm to implement

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

Comments

BIO-4: Mitigation Measure – Protect Special Status Mammal Species

The following measures shall be implemented during construction:

- a. Seasonal Restrictions. To the extent possible, removal of potential bat roosting habitat (i.e. tree cavities, loose bark, structures, etc.) shall be conducted during seasonal periods of bat activity (when bats are volant, i.e., able to leave roosts) between March 1 and April 15 or September 1 and October 15.
- b. Apply Two-step Removal for Bat Tree Roost Habitat. A two-step process shall be applied for the removal of potential tree roost habitat during the bat volant period (i.e., when bats are active and able to leave their roosts). On day 1, limbs and branches shall be removed by a tree cutter using chainsaws. Limbs with cavities, crevices, or deep bark fissures shall be avoided. On day 2, the entire tree shall be removed.
- c. Pre-construction Surveys. If potential bat roosting habitat cannot be removed during the volant period and project activities must occur during the bat maternity season (April 16 through August 31), a qualified biologist shall conduct surveys for roosting bats within suitable habitat within seven days prior to removal. Survey methodology shall include visual examination of potential roosting bat habitat and may utilize ultrasonic detectors or fecal collection for genetic testing to determine species.

- d. **Maternal Roost No Construction Buffer Zones.** If evidence of maternal bat roosts (i.e. accumulation of bat guano, ammonia odor, grease stained cavities) are detected within the construction area, an appropriate buffer distance shall be established in consultation with the CDFW to ensure that construction noise would remain below disturbance thresholds for special status bat species. Buffers may be removed when roosting activity has ceased and/or bats become volent.
- e. **Minimize Nighttime Lighting.** If any construction occurs at night and project-related construction lighting is utilized, such lighting shall be minimized. Minimization may include down casting lights, containing lights within structures, or limiting by appropriate reflectors or shrouds and focused on areas needed for safety, security, or other essential requirements.

Time of Implementation: Design, Pre-Construction, Construction

- Method: Incorporated into the project design
- Included in the project plans and specifications (contractor will implement)
 - County forces
 - Other: County to hire firm to implement

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

BIO-5: Mitigation Measure – Avoid / Minimize Permanent Impact to Riparian Habitat

Impacts to riparian habitat shall be limited to the minimum amount necessary to construct the project. Orange construction fencing shall be placed to delineate areas to be preserved, within which no machinery or workers shall intrude. .

Time of Implementation: Construction

- Method: Incorporated into the project design
- Included in the project plans and specifications
 - County forces
 - Other (specify)

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

BIO-6: Mitigation Measure – Revegetation of Riparian Habitat

To offset impacts to riparian habitat, revegetation of riparian habitat with appropriate species shall occur as close to the area of impact as feasible. Species shall be comprised of California native and regionally appropriate species. The planting ratio shall be at least three to one, or at the ratio determined through regulatory agency permits. If the project area is inadequate in size to accommodate replacement trees, trees shall be planted at other nearby off-site riparian locations. Tree planted shall be monitored by the County for at least 5 years after project completion to ensure that the replacement plantings have developed and survive at an 80% success ratio.

Time of Implementation: Post-construction

- Method:
- Incorporated into the project design
 - Included in the project plans and specifications
 - County forces
 - Other: County to hire a firm to implement

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

BIO-7: Mitigation Measure – Best Management Practices to Protect Aquatic Resources

Prior to the start of construction activity within jurisdictional features, required permits from the United States Army Corps of Engineers, Regional Water Quality Control Board, and California Department of Fish and Wildlife shall be obtained. Conditions of approval outlined in the permits shall be implemented during construction, and the County shall ensure that the project does not result in a net loss in wetlands.

The following measures shall be implemented:

- a. Seasonal Restrictions. Work within the bed or bank of any stream channel shall be restricted to an in-stream work window of June 15 through October 15, or as determined through regulatory agency permits. Construction within the bed or bank of any stream channel or watercourse shall occur while streams are dry and no construction shall occur where flowing water is present.
- b. Stormwater and Erosion BMPs. Stormwater and general pollution prevention BMPs shall be implemented to reduce potential water quality degradation to areas adjacent to construction activities. Suitable erosion and sediment control BMPs, such as silt fences, fiber rolls, and/or earthen berms shall be installed or constructed between work zones and/or staging and stockpile areas and any stream channel to intercept potential sediment and runoff to receiving waters during rain events. These structures shall be installed pursuant to regulatory specifications prior to pending rain events greater than 50 percent possibility of rain within 24 hours, as forecasted by the National Weather Service. Any sediment caught by erosion and sediment control BMPs shall be removed and disposed of prior to BMP removal. Temporary spoils or construction material sites shall be located so as to not drain directly into ditches, streams, or other waterbodies. If a spoils/construction materials site has potential to drain into a surface water feature, a retention basin, berm(s), or other catchment device shall be constructed or installed to intercept runoff before it reaches any waterbody. All exposed mineral soil, or stockpiles to remain on-site through the wet season shall be winterized and protected from erosion associated with wind and rain (e.g., silt fences, straw bales, straw mulch, and tarps).
- c. Stormwater Pollution Prevention Plan (SWPPP). The County or its contractor shall obtain coverage under the SWRCB National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit; Order No. 2009-009- DWQ as amended by 2010-2014-DWQ). The County and its contractor shall prepare and implement a project-specific Storm Water Pollution Prevention Plan (SWPPP) that manages pollutant sources, identifies erosion and sediment control measures and water quality protection measures, and prescribes best management practices to protect water quality pre- and post-construction. The SWPPP would address pollutant sources, best management practices, and other requirements specified in the Order. A Qualified SWPPP Practitioner would oversee implementation of the SWPPP.
- d. Spill Prevention and Containment. Equipment shall be staged, and materials shall be stockpiled, outside of stream channels, wetlands, and riparian habitat. Equipment shall be cleaned of deleterious materials before being delivered to the job site. Refueling will occur at least 100 feet away from any identified aquatic resource or riparian habitat. Gas cans will only be stored in identified staging areas and will utilize secondary containment features. Any construction equipment operating adjacent to or over a stream shall be inspected daily for leaks. Any oil, fuel, and grease residue that has the potential to fall from machinery shall be removed and properly disposed of. Fueling trucks shall be equipped with sealed spill kits at all times.
- e. Revegetation of Disturbed Areas. Areas disturbed by construction and temporary storage sites shall be reseeded and mulched with a suitable erosion control seed mixture post-construction upon completion of construction. Seeds shall be comprised of California native and regionally appropriate species.
- f. Design Features. If feasible, natural bottom culverts shall be incorporated into the design when culvert replacement is required to maximize beneficial habitat. Banks shall be regarded to match existing topography.

Time of Implementation: Pre-construction

- Method: X Incorporated into the project design
- X Included in the project plans and specifications
- County forces
- X Other: County to obtain necessary permits prior to construction.

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

CR-1: Mitigation Measure – Protect Archaeological Resources and Tribal Cultural Resources if Encountered during Construction

To limit potential impacts on archaeological resources, the project specifications shall require the contractor to comply with the following measures regarding the discovery of cultural resources, including Native American Tribal Cultural Resources and items of historical and archaeological interest:

- a. The County’s Construction Inspector and construction personnel shall be notified of the possibility of encountering cultural resources during project construction.
- b. The County shall notify the Tribal Historic Preservation Officers (THPOs) of the appropriate Native American Tribes in writing at least five days prior to the start of the project’s ground-disturbing activities that work will commence.
- c. Prior to initiation of ground-disturbing activities, the County shall arrange for construction personnel to receive training about the kinds of cultural materials that could be present at the project site and protocols to be followed should any such materials be uncovered during construction. An archaeologist who meets the U.S. Secretary of Interior’s professional standards (48 CFR Parts 44738-44739 and Appendix A to 36 CFR 61) shall provide the appropriate archaeological training, including the purpose of the training to increase awareness and appropriate protocols in the event of an inadvertent discovery.
- d. The project specifications will provide that if discovery is made of items of historical, archaeological, or cultural interest, the contractor will immediately cease all work activities in the area of discovery. Historical, archaeological, and cultural indicators may include, but are not limited to, dwelling sites, locally darkened soils, stone implements or other artifacts, fragments of glass or ceramics, animal bones, and human bones. After cessation of excavation, the contractor will immediately contact the County’s Construction Inspector and the THPOs. The contractor will not resume work until authorization is received from the Construction Inspector.
- e. Should an archaeological deposit be encountered during ground disturbance in the project area, all ground-disturbing activities within 25 feet shall be stopped. The County Construction Inspector shall notify a qualified archaeologist meeting the Secretary of the Interior’s Professional Qualifications Standards for Archeology contacted to assess the situation and make recommendations for the treatment of the discovery. If the deposit is found to be significant (i.e., eligible for listing in the NRHP) and an adverse effect would occur, the County in consultation with the SHPO shall identify appropriate treatments for the discovery.

Time of Implementation: Pre-construction, Construction

Method: Incorporated into the project design

X Included in the project plans and specifications

County forces

X Other: County to provide notification to Tribal Historic Preservation Officers.

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

Comments

CR-2: Mitigation Measure – Protect Human Remains if Encountered during Construction

To limit potential impacts on human remains, the County shall implement the following measures:

- a. In the event that human remains are identified during project construction, these remains must be treated in accordance with Section 7050.5 of the California Health and Safety Code and Section 5097.98 of the Public Resources Code, as appropriate.
- b. Section 7050.5 of the California Health and Safety Code states that, in the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the remains are discovered has determined whether or not the remains are subject to the coroner's authority. If the human remains are of Native American origin, the coroner must notify the Native American Heritage Commission (NAHC) within 24 hours of this identification. The NAHC will identify a Native American Most Likely Descendent (MLD) to inspect the site and provide recommendations for the proper treatment of the remains and associated grave goods.
- c. Section 5097.98 of the Public Resources Code states that the NAHC, upon notification of the discovery of Native American human remains pursuant to Health and Safety Code Section 7050.5, shall immediately notify those persons (i.e., the MLD) it believes to be descended from the deceased. With permission of the landowner or a designated representative, the MLD may inspect the remains and any associated cultural materials and make recommendations for treatment or disposition of the remains and associated grave goods. The MLD shall provide recommendations or preferences for treatment of the remains and associated cultural materials within 48 hours of being granted access to the site.

Time of Implementation: Construction

Method: Incorporated into the project design

X Included in the project plans and specifications

X County forces

X Other: County to hire an archaeologist if resources are encountered.

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

Comments

GEO-1: Mitigation Measure – Protect Paleontological Resources if Encountered during Construction

If fossils are encountered during construction (i.e., bones, teeth, or unusually abundant and well-preserved invertebrates or plants), construction activities shall be diverted away from the discovery within 50 feet of the find, and a professional paleontologist shall be notified to document the discovery as needed, to evaluate the potential resource, and to assess the nature and importance of the find. Based on the scientific value or uniqueness of the find, the paleontologist may record the find and allow work to continue, or recommend salvage and recovery of the material, if it is determined that the find cannot be avoided. The paleontologist shall make recommendations for necessary treatment that is consistent with currently accepted scientific practices. Any fossils collected from the area shall then be deposited in an accredited and permanent scientific institution where they would be properly curated and preserved.

Time of Implementation: Construction

Method: Incorporated into the project design

X Included in the project plans and specifications

County forces

X Other: County to hire professional paleontologist if fossils are encountered.

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

Environmental Specialist certifies that this mitigation measure has been incorporated into the project.

Comments

HAZ-1: Mitigation Measure – Minimize Emergency Evacuation Impacts during Construction

During construction, the County and its contractor shall implement traffic controls to ensure Arnold Drive remains a viable emergency evacuation route, including:

- a. During construction, at least one lane in each direction of Arnold Drive shall be kept open at all times. Through traffic shall be maintained through temporary signals, flaggers or other means.
- b. Access to driveways and public and private roads shall be maintained, as feasible, by using steel trench plates. If access must be restricted for brief periods (more than one hour), property owners shall be notified by the County and its contractor in advance of such closures.
- c. Construction shall be coordinated with emergency service providers and administrators of land uses that may be more affected by traffic impacts, such as fire stations, schools, hospitals, and ambulance providers. As construction progresses, emergency providers, and other land uses as mentioned above, shall be notified in advance of construction of the timing, location, and duration of construction activities and the locations and durations of any temporary detours and/or lane closures.
- d. The contractor shall be required to have ready the means necessary to accommodate access by emergency vehicles, such as plating over excavations, flaggers or other means.
- e. The contractor shall coordinate traffic control plans with other simultaneous construction projects along Arnold Drive, if any, to minimize impacts to congestion, emergency access, and alternative modes of transportation.

Time of Implementation: Pre-construction, Construction

Method: Incorporated into the project design

X Included in the project plans and specifications

X County forces

Other (specify):

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments:

HAZ-2: Mitigation Measure – Reduce Wildland Fire Hazards

At the start of construction, the County and its contractor shall remove or clear away dry, combustible vegetation from within the area of direct impact. Grass and other vegetation less than 18 inches in height above the ground shall be maintained in the construction area where necessary to stabilize the soil and prevent erosion. Vehicles shall not be parked in areas where exhaust systems contact combustible materials. Fire extinguishers shall be available to assist in quickly extinguishing any small fires, and contractors shall have on site the direct phone number for the local fire departments.

Time of Implementation: Pre-construction, Construction

Method: Incorporated into the project design

X Included in the project plans and specifications (contractor will implement)

X County forces

Other (specify)

Construction/ Design Engineer certifies that this mitigation measure was implemented and monitored during construction.

Comments: