



Appendix D

Mitigation Monitoring and Reporting Program

SNOWDROP ROAD PROJECT

FOR

**Assessment District 2018-1
UNINCOPORATED RANCHO CUCAMONGA, CALIFORNIA**

PROJECT NO.: 30.30.0009

**MITIGATION MONITORING AND REPORTING PROGRAM
FOR
SNOW DROP ROAD STREET IMPROVEMENT PROJECT
SCH# 2019011045**

Prepared for

San Bernardino County
Department of Public Works – Special Districts
222 West Hospitality Lane, Second Floor
San Bernardino, CA 92415-0540

Contact: Moe Yousif, Senior Project Manager
(909)-386-8820



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PROJECT DESCRIPTION

The proposed Project consists of improvements to approximately 2.1 miles of roadway and associated drainage improvements. These improvements will be to Snow Drop Road from Archibald Avenue to the west and Haven Avenue to the east, Archibald Avenue south of Snow Drop Road, and Haven Avenue south of Snow Drop Road. Currently, portions of the existing roadway are partially paved. The purpose of the Project is to improve the conditions of these roadway segments in order to provide adequate access for the residents in the Project vicinity. Improvements involve paving or repaving within

the Project roadway segments (up to 26 feet wide), installation of metal guard rails along portions of the Project roadway, and installation of drainage culverts to convey storm water under the roadway. Four Arizona Crossings will also be constructed in Snow Drop Road. An Arizona Crossing is a roadway crossing that allows water to overflow directly onto the roadway during storm events and includes drainage culverts under the road to convey storm water across. Drainage culverts are included in the Project design of the Arizona crossings.

MITIGATION MONITORING AND REPORTING PROGRAM

The enclosed Mitigation Monitoring and Reporting Program (MMRP) has been compiled to verify implementation of adopted mitigation measures. The following table provides a summary format based on the written report, including all mitigation measures, the timing of mitigation implementation, identification of the responsible

monitoring party, and verification of implementation of each mitigation measure.

The following clarifies the meaning of each column in the following table:

Impact Category:	Identifies potentially affected resource/ environmental condition.
Mitigation Measure:	Those measures that will be implemented to minimize possible significant environmental impacts.
Implementing Timing:	The phase of the project in which implementation and compliance will be monitored.
Responsible Monitoring Party:	Entity responsible for monitoring implementation of the mitigation measure.
Monitoring/Reporting Method:	Identifies mechanism by which implementation will be verified.
Compliance Verification:	To be signed and dated by the County of San Bernardino Special Districts Department upon receipt of written verification of each mitigation measure.

Impact Category	Mitigation Measure	Implementation Timing	Responsible Monitoring Party	Monitoring/ Reporting Method	Compliance Verification
Biological Resources	<p>MM BIO 1. Nesting Bird Surveys: The Project's construction shall not occur between February 15 and September 1 to avoid potential impacts to nesting birds or raptors. If construction cannot be avoided during the period of February 16 to August 31, a qualified biologist shall conduct a nesting bird survey of potentially suitable nesting vegetation prior to construction initiation. Such surveys shall be conducted no more than (3) days prior to initiation of grading to document the presence or absence of nesting birds within or directly adjacent (100 feet) to the study area. If ground disturbance is not conducted within three days of a negative survey, the nesting survey must be repeated to confirm the absence of nesting birds. If active nests are identified, species specific measures shall be prepared by a qualified biologist and implemented to prevent abandonment of the active nest. At a minimum, grading in the vicinity of a nest shall be postponed until the young birds have fledged. A minimum exclusion buffer of 100 feet shall be maintained during construction, depending on the species and location. The perimeter of the nest setback zone shall be fenced or adequately demarcated with stakes and flagging at 20-foot intervals, and construction personnel and activities restricted from the area. A survey report by a qualified biologist verifying that no active nests are present, or that the young have fledged, shall be submitted to the County of San Bernardino prior to initiation of grading in the nest-setback zone. The qualified biologist shall serve as a biological monitor during those periods when construction activities occur near active nest areas to ensure that no inadvertent impacts on these nests occur. A final report of the findings, prepared by a qualified biologist, shall be submitted to the County of San Bernardino prior to construction-related</p>	No more than (3) days prior to initiation of grading to document the presence or absence of nesting birds within or directly adjacent (100 feet) to the study area.	Qualified biologist	Final report of the findings, prepared by a qualified biologist, shall be submitted to the County of San Bernardino prior to construction-related activities that have the potential to disturb any active nests during the nesting season.	

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	activities that have the potential to disturb any active nests during the nesting season.				
Biological Resources	<p>MM BIO 2. Riversidean alluvial fan sage scrub Conservation: To reduce the potential direct and indirect impacts to coastal California gnatcatcher (CAGN) from the loss of mature Riversidean alluvial fan sage scrub (RAFSS) habitat, the loss of 1.51 acres of mature RAFSS shall be mitigated at a minimum 3:1 ratio through one or a combination of the following, as agreed to by the USFWS and the permitting agencies in the permitting process and through Section 7 consultation:</p> <ul style="list-style-type: none"> a. Purchase mitigation credits with an approved mitigation bank for the preservation and/or restoration of mature RAFSS habitat at least a 3:1 ratio for permanent impacts. b. Payment into an approved in-lieu fee program for the preservation and/or restoration of mature RAFSS habitat at least a 3:1 ratio for permanent impacts. c. Conservation of land containing mature RAFSS habitat on at least 3:1 ratio for permanent impacts. 	Prior to construction.	County Staff.	Record of submittals and approvals.	
Biological Resources	<p>MM BIO 3. Jurisdictional Drainages: The Project will temporarily impact 0.0848 acres and permanently impact 0.0778 acres of USACE and RWQCB waters of the U.S and State and temporarily impact 0.0934 acres and permanently impact 0.148 acres of CDFW streambed and associated riparian habitat. As mitigation for the impacts, the Department proposes to do either one or a combination of the following, as agreed to by the Department and the permitting agencies in the permitting process:</p>	Prior to construction.	County Staff.	Record of submittals and approvals.	

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	<p>a. Secure off-site acreage of biologically equal or greater value for permanent conservation on at least a 1:1 ratio basis for temporary impacts and 2:1 ratio for permanent impacts.</p> <p>b. Pay fees or purchase mitigation credits to an appropriate mitigation bank for the restoration and permanent conservation of habitat at least a 1:1 ratio basis for temporary impacts and 2:1 ratio for permanent impacts.</p> <p>c. Restore on-site habitat on at least a 1:1 ratio basis for temporary impacts and 2:1 ratio for permanent impacts.</p>				
Biological Resources	MM BIO 4. Regulated Trees: If direct or indirect impacts to regulated trees pursuant to Section 88.01.040 of the San Bernardino County Development Code cannot be designed to avoid removal, a certified arborist, horticulturist, or registered landscape architect familiar with the County of San Bernardino's Development Code for regulated trees shall conduct an assessment of the trees proposed for removal within the entire study area. If required, a permit application will be submitted for review and approval by the County of San Bernardino.	Prior to grading.	County Staff.	Record of submittals and approvals.	
Cultural Resources	MM CR 1: Inadvertent Discovery of Historical, cultural, or archaeological Resources. If buried materials of historical, cultural, or archaeological significance are accidentally discovered during any earth-moving operations associated with the proposed Project, all work in the immediate vicinity (within a 60 foot buffer) shall cease until a qualified archaeologist meeting Secretary of Interior standards can evaluate the nature and significance of the finds. If the find is determined to be an historical or unique archaeological resource, as defined in	During all ground-disturbing activities.	Contractor County staff Qualified Archaeologist, if needed.	Documentation to County of discovered item. Copy of mitigation program, if needed.	

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	Section 15064.5 of the California Code of Regulations (State CEQA Guidelines), avoidance or other appropriate measures shall be implemented. Additionally, the Morongo band of Mission Indians and the San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed within MM 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. If significant Native American cultural resources, as defined by CEQA, are discovered and cannot be avoided, a Monitoring and Treatment Plan shall be developed by the qualified Project archaeologist and provided to the Tribes for review and comment, as detailed within MM TCR 1 . The qualified Project archaeologist shall monitor and implement the Monitoring and Treatment Plan accordingly.			Report of findings to the County and curation facility, if needed.	
Cultural Resources	MM CR 2: Inadvertent Paleontological Discovery. If any paleontological resources are exposed during ground excavation disturbance, ground disturbance activities in the vicinity of the discovery will be terminated immediately and a qualified paleontological resources specialist will be retained to evaluate the resources. If the find is determined to be significant, avoidance or other appropriate measures as identified by the paleontologist shall be implemented. Appropriate measures would include that a qualified paleontologist be permitted to recover, evaluate and curate the find(s) in accordance with current standards and guidelines	During all construction activities.	Contractor County staff Qualified Paleontologist, if needed.	Documentation to the County of discovered item. Copy of mitigation program, if needed. Report of findings to the County and curation facility, if needed.	

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Cultural Resources	MM CR 3: Inadvertent Discovery of Human Remains. Per State Health and Safety Code 7050.5, if human remains are encountered during construction, no further disturbance shall occur in the immediate vicinity (within a 100-foot buffer) until the San Bernardino County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The San Bernardino County Coroner must be notified within 24 hours. If the County Coroner determines that the remains are not historic, but prehistoric, the Native American Heritage Commission (NAHC) must be contacted to determine the most likely descendent for this area. Once the most likely descendent is determined, treatment of the Native American human remains will proceed pursuant to Public Resources Code Section 5097.98.	During construction.	Contractor, County Staff, County Coroner, Native American Heritage Commission	Record to the County of find, notification to Tribes and County Coroner, and treatment method. County to record compliance with P.R.C. §5097.98.	
Noise	MM Noise 1. Stationary Noise-generating Equipment: During Project construction, stockpiling, stationary noise-generating equipment and vehicle staging areas shall be located as far as is practicable from any existing structure designed for human occupancy.	During construction.	Contractor, County Staff.	Submit proof to the County construction staging area	

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Noise	MM Noise-2. Construction Hours.: In locations where construction activities occur within one-quarter mile of any existing structure designed for human occupancy, construction activities shall be limited to between the hours of 7:00 a.m. and 7:00 p.m., Monday through Saturday. Construction during other periods, including Sundays and holidays, shall be limited to emergencies and activities determined to be in the interest of the general public. If nocturnal construction is planned or required to minimize traffic interference, and if any occupied structures exist within one-half mile, a requested exemption to the above time constraints shall be submitted to the San Bernardino County Special Districts Department. The San Bernardino County Special Districts Department shall confirm that such operations are not detrimental to the health, safety, and welfare of the noise receptors prior to authorizing construction outside of the time constraints listed above	During construction.	Contractor, County staff.	Record of the construction hours required by the Project from the County and City of Rancho's encroachment permit.	
Noise	MM Noise 3. Equipment Noise: All construction equipment shall be operated with mandated noise control equipment (i.e., mufflers or silencers)	Before and during construction.	Contractor, County Staff.	Submit proof to the County construction equipment is properly tuned and unmodified.	
Noise	MM Noise 4. Noise complaints: The County shall respond to any noise complaints received for this Project by measuring noise levels at the affected receptor site. If the monitored noise level exceeds 65 dBA CNEL exterior or 45 dBA CNEL interior at the receptor, the construction contractor shall implement adequate measures (which may include portable sound attenuation walls, use of quieter equipment, shift of construction schedule to avoid the presence of sensitive receptors, etc.) to	During construction.	Contractor.	Submittal of noise complaints, noise monitoring results, and implementation of feasible reduction measures.	

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	reduce noise levels to the greatest extent feasible. Any monitoring shall be conducted by a qualified acoustical firm under contract with the construction contractor and responsible to the County				
Traffic and Transportation	MM Trans 1. Phase Construction Activities: The construction contractor shall phase the construction activities to minimize obstruction of through traffic lanes.	Prior to construction.	Contractor, County staff.	Submit construction phasing plan to County for approval.	
Traffic and Transportation	MM Trans 2. Traffic Control Plans: The construction contractor shall provide adequate traffic management resources, as determined by the County and City of Rancho Cucamonga, to ensure adequate access to all occupied properties on a daily basis, including emergency access. A construction traffic management plan shall be prepared and approved by the City of Rancho Cucamonga County, prior to initiation of construction within the Project. The plan can include the following components: protective devices, flag person(s) or police assistance for traffic control, to maintain safe traffic flow on local streets affected by construction at all times.	Prior to construction.	Contractor, County staff.	Submit to County the Traffic Control Plan approved by City of Rancho Cucamonga.	
Tribal Cultural	MM TCR 1. Inadvertent Tribal Cultural Resource Discovery: The Morongo Band of Mission Indians (MBMI) and San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed in MM CR 1 , of any Native American cultural resources discovered during any earth-moving operations associated with the proposed Project, 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	During all construction activities.	Contractor, County staff,	Documentation to the County of discovered item. Copy of mitigation program and Tribal	

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	amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with the MBMI and SMBMI, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents both MBMI and SMBMI for the remainder of the Project, should MBMI and/or SMBMI elect to place a monitor on-site. 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 County for dissemination to SMBMI. The County shall, in good faith, consult with SMBMI throughout the life of the Project.			coordination, if needed. Report of findings to the County and curation facility, if needed.	