

MITIGATION MONITORING AND REPORTING PROGRAM
Spring Lake Village East Grove Environmental Impact Report

SCH No. 2016052024

Mitigation Measures (MM) and Environmental Protection Actions (EPA)	Implementation Procedure	Monitoring Responsibility	Monitoring/ Reporting Action & Schedule	Monitoring Compliance Record (Name/Date)
Environmental Protection Actions				
<p>EPA 1 – Implement Geotechnical Design Recommendations</p> <p>As part of the Project design process, the applicant has engaged a California-registered Geotechnical Engineer to conduct a design-level geotechnical study for the proposed Project. Project design and construction must comply with the site-specific recommendations made in geotechnical reports for the Project. This will include design in accordance with the seismic and foundation design criteria, as well as site preparation and grading recommendations included in the report. The geotechnical recommendations will be incorporated into the final plans and specifications for the Project and will be implemented during construction</p>	<p>Incorporate recommendations into plans and specifications</p>	<p>City of Santa Rosa</p>	<p>Verify geotechnical design recommendations are incorporated into final plans and specifications prior to issuance of grading permit</p> <p>Verify implemented during construction</p>	
<p>EPA 2 – Implement Air Quality Control Measures during Construction</p> <p>To limit dust, criteria pollutants, and precursor emissions associated with the construction activity, the Project shall implement the following Bay Area Air Quality Management District (BAAQMD) recommended Basic Construction Measures during construction:</p> <ul style="list-style-type: none"> • All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas and unpaved access roads) shall be watered or a non-toxic soil binder applied two times per day; • All haul trucks transporting soil, sand, or other loose material off-site shall be covered; • All 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; • All vehicle speeds on unpaved areas shall be limited to 15 miles per hour; • All paving shall be completed as soon as possible after work is finished; • 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 CCR). Clear signage shall be provided for construction workers at all access points; • All construction equipment shall be maintained and properly tuned in accordance with manufacturer’s specifications. All equipment shall be 	<p>Incorporate best management practices into plans and specifications</p>	<p>City of Santa Rosa</p>	<p>Verify best management practices are incorporated into final plans and specifications prior to issuance of grading permit</p> <p>Verify implemented during construction</p>	

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<p>checked by a certified mechanic and determined to be running in proper condition prior to operation; and</p> <ul style="list-style-type: none"> • Post a publicly visible sign with the telephone number and person to contact at the Lead Agency 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. 				
<p>EPA 3 – Implement Greenhouse Gas Control Measures during Construction</p> <p>Contractors are required to implement actions 9.2.1 through 9.2.3 of the City's Climate Action Plan during construction, as follows:</p> <ul style="list-style-type: none"> • Action 9.2.1 - Minimize idling times either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes or less (as required by the California airborne toxics control measure Title 13, Section 2485 of CCR). Provide clear signage at all access points to remind employees of idling restrictions. • Action 9.2.2 - Construction equipment shall be maintained in accordance with manufacturer's specifications. • Action 9.2.3 - Limit GHG emissions from construction equipment by selecting one of the following measures, as feasible and appropriate to the construction Project: <ul style="list-style-type: none"> – Substitute electrified equipment for diesel- and gasoline-powered equipment where practical. – Use alternative fuels for construction equipment on-site, where feasible, such as compressed natural gas (CNG), liquefied natural gas (LNG), propane, or biodiesel. – Avoid the use of on-site generators by connecting to grid electricity or utilizing solar-powered equipment. 	<p>Incorporate greenhouse gas control measures into plans and specifications</p>	<p>City of Santa Rosa</p>	<p>Verify greenhouse gas control measures are incorporated into final plans and specifications prior to issuance of grading permit</p> <p>Verify implemented during construction</p>	
<p>EPA 4 – Implement Storm Water Control Measures during Construction</p> <p>The Project applicant and/or its contractor will obtain coverage under State Water Resources Control Board Order No. 2009-0009-DWQ, Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities, as amended by Order No. 2012-0006. This will include submittal of permit registration documents (notice of intent, risk assessment, site maps, Storm Water Pollution Prevention Plan (SWPPP), annual fee, and certifications) to the State Water Resources Control Board. The Storm Water Pollution Prevention Plan will address pollutant sources, non-storm water discharges resulting from construction dewatering, best management practices, and other requirements specified in the above-mentioned Order. The Storm Water Pollution Prevention Plan will also include</p>	<p>Incorporate requirement into plans and specifications</p> <p>Obtain coverage under Order No. 2009-0009-DWQ</p>	<p>City of Santa Rosa</p>	<p>Verify requirements are incorporated into final plans and specifications prior to issuance of grading permit</p> <p>Verify permit coverage prior to start of construction</p>	

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<p>dust control practices to prevent wind erosion, sediment tracking, and dust generation by construction equipment. A Qualified Storm Water Pollution Prevention Plan Practitioner will oversee implementation of the Plan, including visual inspections, sampling and analysis, and ensuring overall compliance.</p> <p>Project contractors will implement an erosion and sediment control plan, which includes storm water best management practices (BMPs) required by the City's storm water permit and other applicable regulations. This erosion and sediment control may be substituted by a Storm Water Pollution Prevention Plan prepared in accordance with Order No. 2009-0009, as long as the Plan includes measures equivalent to those listed below:</p> <ul style="list-style-type: none"> • <u>Erosion Control</u>: Schedule the Project to sequence construction activities with the installation of erosion and sediment control measures and preserving existing vegetation. Utilize a combination of BMPs to minimize soil erosion, including hydraulic mulch, hydroseeding, soil binders, straw mulch, geotextiles and mats, and wood mulching (CASQA Handbook BMP EC-1 to EC-8 or Caltrans Handbook BMP SS-1 to SS-8). • <u>Sediment Controls</u>: Install a combination of BMPs to detain sediment-laden runoff, including fiber rolls, gravel bag berms, street sweeping and/or vacuuming, storm drain inlet protection, sediment basins; check dams, silt fencing, and sand bag barriers (CASQA Handbook BMP SE-1, SE-2, SE-4, SE-5, SE-6, SE-7, SE-8, SE-10) or Caltrans Handbook BMP SC-1, SC-2, SC-4, SC-5, SC-6, SC-7, SC-8, SC-10). • <u>Tracking Controls</u>: Install a stabilized construction entrance/exit and entrance/exit tire wash at the site to minimize the tracking of sediment onto public roads (CASQA Handbook BMP TR-1 and TC-3 or Caltrans Handbook BMP TC-1 and TC-3). • <u>Additional Controls</u>: Implement wind erosion controls and stabilized construction roadways as needed (CASQA Handbook BMP WE-1 and TC-2 or Caltrans Handbook BMP WE-1 and TC-2). • <u>Non-Storm Water Management</u>: Implement a combination of BMBs to prevent the potential for non-storm water discharges, including water conservation practices, dewatering operations, and vehicle and equipment washing/fueling/maintenance (CASQA or Caltrans Handbook BMP NS-1, NS-2, NS-8, NS-9, NS-10). • <u>Waste Management</u>: Implement general site and materials management BMPs, including material delivery and storage, stockpile management, spill prevention and control, solid waste management, concrete waste management, and sanitary/septic waste management (CASQA and Caltrans Handbook WM-1, WM-3, WM-4, WM-5, WM-8, and WM-9). 			Verify implemented by a Qualified Storm Water Pollution Prevention Plan Practitioner during construction	

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<p>EPA 5 – Implement MEDF Program and Lift Team Training</p> <p>The Project applicant will obtain coverage in the Sonoma County Medical Facility Scene Call Program (MEDF Program). The MEDF Program includes a protocol for designated medical facilities meeting certain criteria to receive an ambulance-only response to a 911 call. The Santa Rosa Fire Department has deemed the Project’s inclusion into the MEDF Program as being necessary for the proposed use of the site. Inclusion into the MEDF Program allows approved Skilled Nursing Facilities, Clinics, and other facilities with medical staff to defer a fire department first response if warranted by patient condition. Certain patient conditions or specific facility requests will continue to receive a standard fire/emergency services response. In order to participate in the program, the Project applicant will submit a MEDF Program application form, which would be reviewed by local fire and emergency responder agencies, Coastal Valleys Emergency Medical Services Agency and Redwood Empire Dispatch Communications Authority, before being approved. In addition, the Project applicant will require that lift team training be provided to all employees working on-site as part of their first-week employment orientation.</p>	<p>Complete MEDF Program application form</p> <p>Obtain coverage in MEDF Program</p> <p>Require lift team training be provided to all employees working on-site as part of first-week employment orientation</p>	<p>City of Santa Rosa</p>	<p>Verify MEDF Program coverage is obtained</p> <p>Verify incorporation of lift team training into employee training program</p>	
Mitigation Measures				
Biological Resources				
<p>MM BIO-1a: Avoid Impacts to Foothill Yellow-legged Frog and Other Special Status Amphibians and Reptiles</p> <p>City of Santa Rosa shall ensure the construction contractor adheres to the following measures to reduce impacts to special-status amphibians and reptiles during construction of the new storm drain culvert to be located on the southwest side of Melita Road:</p> <ul style="list-style-type: none"> Prior to construction, all workers on the crew shall be trained by a qualified biologist as to the sensitivity of the special-status species potentially occurring within the construction area southwest of Melita Road. The training shall include a brief review of special-status species with the potential to occur onsite, including foothill yellow-legged frog, California red-legged frog, California giant salamander, red-bellied newt, and Pacific pond turtle. The training shall provide an overview of their habitat requirements, legal status, and protection requirements. The training shall also provide a brief overview of biological resource mitigation measures, environmental permits and proposed project plans (i.e., the SWPPP, BMPs, and any other required plans). Personnel shall sign an attendance form that will remain on file with the City of Santa Rosa for verification of training. 	<p>Incorporate protection and avoidance measures into final plans or specifications</p> <p>Conduct environmental awareness training</p> <p>Conduct preconstruction survey prior to construction activities for storm drain culvert improvements southwest of Melita Road</p>	<p>City of Santa Rosa</p>	<p>Verify protection and avoidance measures are in final plans or specifications prior to issuance of grading permit</p> <p>Verify completion of training prior to start of construction</p> <p>Verify preconstruction survey conducted with 48 hours prior to applicable construction activities</p>	

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<ul style="list-style-type: none"> Pre-construction surveys shall be performed within 48 hours prior to initiation of construction activities (including initial ground disturbing activities) related to the storm drain culvert improvements southwest of Melita Road. Prior to construction, a wildlife exclusion fence shall be installed along the southwest side of Melita Road along the upper limits of the Santa Rosa Creek corridor to prevent special-status amphibians and reptiles from accessing the site during construction. This fence shall be maintained during construction activities. The exclusion fence shall be installed such that the fabric is an appropriate height above ground per biologist recommendation and the fabric should be buried 4-6 inches below ground. The exclusion fence posts shall be located on the work side of the fence with the fabric on the outside relative to the stakes. All vegetation clearing for the storm drain culvert shall be done by hand under the supervision of a qualified biologist. No construction activities within the storm drain culvert area shall occur during rain events, defined as ¼ inch of rain falling within a 24-hour period. Construction activities may resume 24 hours after the end of the rain event. <p>Work shall not be conducted within the storm drain culvert area southwest of Melita Road any time 30 minutes before sunrise or sunset.</p>	<p>Install wildlife exclusion fence southwest of Melita Road prior to construction</p>		<p>Verify exclusion fence installed correctly</p> <p>Check jobsite compliance as necessary</p>	
<p>MM BIO-1b: Avoid Impacts to Nesting Birds</p> <p>The City of Santa Rosa shall ensure the following measures to avoid impacts to nesting birds are followed:</p> <ul style="list-style-type: none"> To the extent possible, grading or removal of any vegetation shall be conducted outside the nesting season, which occurs between approximately February 1 and August 31. No preconstruction nesting bird survey is required for work conducted outside this period. If limiting grading or vegetation removal between August 31 and February 1 is infeasible and work must occur within the nesting season, a pre-construction nesting bird (both passerine and raptor) survey of the landscaped areas and trees shall be performed by a qualified biologist within 7 days of ground breaking. If no nesting birds are observed, no further action is required and work shall occur within one week of the survey to prevent impacts to individual birds that could begin nesting after the survey. If bird nests (either passerine and/or raptor) are observed during the pre-construction survey, a disturbance-free buffer zone shall be established around the nest tree(s) until the young have fledged, as determined by a qualified biologist. The radius of the required buffer zone can vary depending on the species, (i.e., 75 to 100 feet for passerines and 200 to 	<p>Incorporate protection and avoidance measures into final plans or specifications</p> <p>Qualified biologist to conduct preconstruction nesting survey before groundbreaking if grading or vegetation removal occurs during nesting season</p> <p>If needed, implement</p>	<p>City of Santa Rosa</p>	<p>Verify protection and avoidance measures are in final plans or specifications prior to issuance of grading permit</p> <p>Verify bird nesting surveys are conducted within 7 days prior to grading or ground disturbing activities during nesting season</p> <p>If needed, verify disturbance buffers are implemented during construction</p>	

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<p>300 feet for raptors), with the dimensions of any required buffer zones to be determined by a qualified biologist based upon the distance necessary to prevent disturbance to the relevant species.</p> <ul style="list-style-type: none"> To delineate the buffer zone around a bird nest, orange construction fencing shall be placed at the specified radius from the nest within which no machinery or workers shall intrude. After the fencing is in place there will be no restrictions on grading or construction activities outside the prescribed buffer zones. <p>If initial ground disturbance is delayed or there is a break in project activities of greater than 14 days within the bird-nesting season, then a follow-up nesting bird survey should be performed to ensure no nests have been established in the interim.</p>	<p>avoidance measures for any active bird nests identified until birds have fledged as determined by a qualified biologist</p> <p>If needed, conduct follow-up nesting surveys</p>		<p>If needed, verify follow-up nesting surveys are conducted</p>	
<p>MM BIO-1c: Avoid Impacts to Sensitive or Listed Bats</p> <p>The City of Santa Rosa shall ensure the following measures to avoid impacts to roosting bats are followed.</p> <p>If initial ground disturbance occurs during the bat maternity roosting season (May 1 through August 31), a qualified biologist shall conduct a bat habitat assessment of trees within 100 feet of the Project site. The assessment shall evaluate the trees for suitable entry points and roost features, and shall provide focused daytime surveys for day-roosting bats. If the biologist determines there is potential for maternity roosting bats to be present within 100 feet of construction areas, nighttime emergence surveys may be performed to determine if maternity roosting bats are present.</p> <p>If bat maternity roosts are present, the biologist shall establish an appropriate exclusion zone around the maternity roost. Removal of trees that potentially support a bat maternity roost should only occur between September 1 and October 15, after the young have learned to be self-sufficient but before hibernation. Trees supporting bats should not be removed while bats are hibernating between October 15 and March 15 or otherwise while bats are present.</p> <p>If a special-status bat species is found, or if suspected day roosts for special-status bats are identified, then the qualified biologist shall identify suitable measures for avoiding impacts to roosts to achieve the performance standard of ensuring bat species have relocated prior to demolition or removal of the roosting structure. Measures shall include, at a minimum, phased removal of trees where selected limbs and branches not containing cavities are removed using chainsaws on the first day, with the remainder of the tree removed using chainsaws or other equipment on the second day after all bats have left the roost.</p>	<p>Incorporate protection and avoidance measures into final plans or specifications</p> <p>Qualified biologist to conduct bat habitat assessment before groundbreaking if grading or vegetation removal occurs during maternity roosting season</p> <p>Implement avoidance and performance measures as described in bat habitat assessment and based on consultations with CDFW for any bat maternity roosts as determined by a qualified biologist</p>	<p>City of Santa Rosa</p>	<p>Verify protection and avoidance measures are in final plans or specifications prior to issuance of grading permit</p> <p>Verify bat habitat assessment is conducted prior to grading or ground disturbing activities during maternity roosting season</p> <p>Verify disturbance buffers and performance measures are implemented during construction, if required</p>	

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<p>The City shall also consult with the California Department of Fish and Wildlife to determine whether there is a need for any additional or equally effective alternative measures for protecting bats with young if present, and for implementing measures to exclude non-breeding bat colonies during the construction process.</p>				
<p>MM BIO-1d: Avoid Impacts to Steelhead</p> <p>The City of Santa Rosa shall ensure the construction contractor adheres to the following measures in order to prevent potential erosion into the off-site riparian zone associated with Santa Rosa Creek:</p> <ul style="list-style-type: none"> • Construction associated with storm drain improvements southwest of Melita Road shall occur during the dry season. • Standard BMPs shall be implemented, including the installation of silt fences immediately downslope of the work limits for the storm drain improvements. • All disturbed areas shall be restored post-construction and hydro seeded with a native seed mix. <p>Measures outlined by permitting agencies, such as CDFW or RWQCB, to prevent diminished water quality and erosion shall also be implemented during construction.</p>	<p>Incorporate requirements into plans and specifications</p> <p>Obtain required permits</p> <p>Implement required measures during construction</p>	<p>City of Santa Rosa</p>	<p>Verify requirements are in final plans or specifications prior to issuance of grading permit</p> <p>Verify permits are obtained</p> <p>Check jobsite compliance as necessary</p>	
<p>MM BIO-3 Compensate for Loss of Wetlands and Waters</p> <p>The City of Santa Rosa shall ensure the Applicant compensates for the loss of the seasonal wetland through the purchase of wetland credits in an approved mitigation bank within the Santa Rosa Plain so that there is no net loss in wetlands. The Applicant shall compensate for impacts to other waters, by enhancing approximately 120 square feet of drainage area with the planting of native willow within the rock rip-rap at the reconstructed culvert outlet southwest of Melita Road and an additional 120 square feet downslope of this area. Any other temporarily disturbed wetlands and waters shall be restored post-construction and hydro seeded with a native seed mix to original state.</p> <p>Santa Rosa Creek shall be completely avoided during construction activities. Silt fences shall be installed along the edge of the culvert where storm drain improvements are planned to reduce siltation and contaminated runoff from the improvement area into the creek during construction. Required permits from the regulatory agencies shall be received prior to the start of any on-site construction activity. The City and Applicant shall ensure any additional measures outlined in the permits are implemented</p>	<p>Incorporate requirements into plans and specifications</p> <p>Obtain required permit and obtain required credits</p> <p>Implement enhancements to drainage area southwest of Melita Road and restore disturbed areas</p> <p>Implement permit requirements</p>	<p>City of Santa Rosa</p>	<p>Verify requirements are in final plans or specifications prior to issuance of grading permit</p> <p>Verify permits and credits are obtained</p> <p>Verify drainage enhancements and restoration efforts are implemented during construction</p> <p>Check jobsite compliance as necessary</p>	

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<p>MM BIO-5 Compensate for Loss of Protected Trees</p> <p>The City shall ensure the Applicant complies with Santa Rosa City Code Chapter 17-24 for planting and regenerating trees. The Applicant shall apply for and obtain permit for alteration, removal or relocation, of heritage, protected, or street trees and shall comply with the mitigation ratio requirements for tree removal mandated by the City Code. Approval by the Director of the City’s Recreation and Parks Department shall be obtained, as required. Replacement trees shall be planted within the Project site; however, if the Project area is inadequate in size to accommodate the replacement trees, the trees may be planted on public property with the approval of the Director of the City’s Planning and Economic Development Department, or through payment of in-lieu fees.</p> <p>The tree protection measures identified in the 2017 Tree Preservation and Mitigation Report shall be implemented. These include, but are not limited to, the following measures:</p> <ul style="list-style-type: none"> • Tree Protection Zones shall be illustrated on the Improvements Plans to show the area around each tree to be preserved that must be protected at all times with tree protection fencing. The protected area beneath the canopy of each tree shall be designated by the Project arborist to ensure long term tree viability and health. • Tree protection fencing shall be minimum 4-feet in height at all locations, and shall form a continuous barrier around trees to be preserved. <p>Trenching should be routed around the Tree Protection Zone whenever possible.</p>	<p>Incorporate tree replacement requirements into plans and specifications</p> <p>Obtain required tree permit</p> <p>Implement planting of replacement trees</p> <p>Implement required tree protection measures</p>	<p>City of Santa Rosa</p>	<p>Verify tree replacement requirements are in final plans or specifications prior to issuance of grading permit</p> <p>Verify tree permit obtained</p> <p>Verify tree planting occurs</p> <p>Verify protection measures are implemented during construction</p>	
Cultural Resources				
<p>MM CR-2a: Protection and Treatment of Cultural Resources and Tribal Cultural Resources</p> <p>The City shall ensure implementation of the following actions related to cultural and tribal cultural resources:</p> <p><u>Protection of Archaeological and Tribal Cultural Resources, Pre-Construction Data Recovery, and/or Construction Monitoring</u></p> <p>The City shall ensure that an Archaeological and Tribal Cultural Resources Treatment Plan is developed and implemented for the area outlined in the Cultural Resources Summary prepared for the Project by Tom Origer & Associates (Origer & Associates 2020), and any other archaeological resources identified by subsurface testing. The Treatment Plan shall be reviewed by the City, FIGR, and Lytton, and approved by the City prior to the start of Project construction. The Treatment Plan shall detail recommended steps for protecting, preserving, or data recovery for archaeological and tribal cultural resources. The Treatment Plan shall include one or more of the following strategies to ensure</p>	<p>Develop Archaeological and Tribal Cultural Resources Treatment Plan for review and approval</p> <p>Implement program of pre-construction data recovery and investigation, as well as construction archaeological monitoring, as</p>	<p>City of Santa Rosa</p>	<p>Verify completion, review, and approval of Treatment Plan</p> <p>Verify pre-construction data recovery, investigation, construction monitoring, protection, and avoidance measures are in final plans or specifications prior to issuance of grading permit</p>	

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<p>that appropriate actions to protect cultural and tribal cultural resources are taken, as described in more detail below.</p> <ol style="list-style-type: none"> 1. Protection and Preservation; 2. Pre-construction data recovery; and 3. Construction Monitoring <p><u>Protection and Preservation</u></p> <p>The preferred treatment of an archaeological resource is protection and preservation. Protection can be achieved by either avoidance (not developing within the boundaries of an archaeological resource), by covering an archaeological resource with geo-fabric and sufficient fill to protect it during and after construction, or by reducing/restricting development within the boundaries of a resource.</p> <p><u>Pre-Construction Data Recovery</u></p> <p>For significant resources that are not protected and preserved in place, data recovery within the sensitive area to be affected by the Project is necessary. Data recovery must be performed by qualified archaeologists using standard archaeological techniques. Data recovery must include processing and analysis of recovered cultural materials using appropriate archaeological methods, and preparation of the recovered materials for permanent disposition (e.g., re-burial in a location that will be identified in collaboration with FIGR and Lytton and that would be protected in perpetuity) per the requirements of the Archaeological and Tribal Cultural Resources Treatment Plan. Prior to any ground disturbing activities, for all areas of the project site that have not undergone previous subsurface investigations, one of the following Extended Phase I investigation methods shall be conducted: (1) shovel test pits/shovel probe, (2) backhoe trenching, or (3) hand augering. The archaeologist shall determine the appropriate method and provide the scope of work to FIGR and Lytton for a 14-day comment period. Any resources identified during subsurface testing shall be treated in accordance with the Archaeological and Tribal Cultural Resources Treatment Plan.</p> <p><u>Construction Monitoring</u></p> <p>A program of archaeological monitoring shall be instituted for ground-disturbing activities associated with the area outlined in the Cultural Resources Summary prepared for the Project by Tom Origer & Associates (Origer & Associates 2020). Monitoring shall be performed by a qualified archaeologist and may also include a Native American monitor and will consist of directly watching the excavation, grading, trenching, and other earth-moving processes. Monitoring shall continue on a daily basis until the depth of excavation has been reached at which resources could not be present. This will be determined by the monitoring archaeologist based on observed soil conditions.</p>	<p>outlined in the Treatment Plan</p> <p>If archaeological remains or potential tribal cultural resources are encountered, halt construction and retain a qualified professional archaeologist and tribal monitor to evaluate the resources and follow procedures in the Treatment Plan, as appropriate</p>		<p>Verify pre-construction data recovery for areas of the project that have not undergone previous subsurface investigation occurs prior to ground disturbance</p> <p>Verify archaeological monitoring occurs during construction</p> <p>If needed, ensure protection and avoidance procedures are followed during construction</p>	

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<p>In the event that archaeological deposits are encountered, the piece of equipment that encounters the suspected materials must be stopped, and the find inspected by the monitoring archaeologist. If the deposit contains Historic Resources, Unique Archaeological Resources, or Tribal Cultural Resources as defined by CEQA, all work must be stopped in the immediate vicinity and the archaeologist shall undertake data recovery of the deposit. Data recovery efforts must follow standard archaeological methods. Work may proceed after a find has been appropriately addressed and no further damage would result.</p>				
<p>MM CR-2b and CR-2c: Additional Avoidance Measures</p> <p>The City shall ensure implementation of further avoidance measures as identified in Mitigation Measures CR-2b and CR-2c in the confidential Appendix H.</p>	<p>Implement avoidance measures as described in confidential Appendix H.</p>	<p>City of Santa Rosa</p>	<p>Verify avoidance measures are reflected in final plans prior to issuance of grading permit</p> <p>Check jobsite compliance as necessary</p>	
<p>MM CR-2d: Protect Unanticipated Archaeological and Tribal Cultural Resources</p> <p>The City shall ensure that if potential unanticipated archaeological or tribal cultural resources are uncovered during construction, the Applicant and its contractor shall halt work, and workers shall avoid altering the materials and their context. Project personnel shall not collect cultural materials, examples of which are provided in the following description. Prehistoric archaeological site indicators include: obsidian and chert flakes and chipped stone tools; grinding and mashing implements (e.g., slabs and handstones, and mortars and pestles); bedrock outcrops and boulders with mortar cups; and locally darkened midden soils. Midden soils may contain a combination of any of the previously listed items with the possible addition of bone and shell remains, and fire affected stones. Historic period site indicators generally include: fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, dumps).</p> <p>A qualified archaeologist and representatives of FIGR and/or Lytton shall be retained by the Applicant to investigate the find and make recommendations as to treatment and handling of those resources. If the find potentially qualifies as a historic resource, unique archaeological resource, or tribal cultural resource under CEQA, all work must remain stopped in the immediate vicinity to allow the archaeologist and tribal representatives to evaluate any materials and recommend appropriate treatment. Avoidance of impacts to the resource are</p>	<p>Incorporate requirements into final plans or specifications</p> <p>Stop work and notify qualified archaeologist to conduct evaluation if suspected archaeological resources are encountered</p> <p>Implement treatment procedure as described in evaluation</p>		<p>Verify monitoring, protection, and avoidance measures are in final plans or specifications prior to issuance of grading permit</p> <p>Verify monitoring occurs during initial groundbreaking</p> <p>If needed, ensure protection and avoidance procedures are followed during construction</p>	

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<p>preferable. In considering any recommended measures proposed by the archaeologist, FIGR, or Lytton, the City shall determine whether avoidance is feasible in light of factors such as the nature of the find, Project design, costs, and other considerations. If avoidance is infeasible, other appropriate measures as determined by the City upon consideration of recommendations by the archaeologist, FIGR, or Lytton (e.g., data recovery or protection in place) shall be instituted. A buffer area around the resource would be established by a qualified archaeologist and tribal representative to ensure that no further damage to a resource would result. Work may then proceed on other parts of the Project while mitigation for these resources is being carried out.</p>				
<p>MM CR-3: Treatment of Human Remains, Associated Grave Goods, or Items of Cultural Patrimony</p> <p>Should human remains, associated grave goods, or items of cultural patrimony be encountered during Project construction, the following procedures shall be followed as required by Public Resources Code Section 5097.9 and Health and Safety Code Section 7050.5.</p> <p>If human remains are encountered, no further excavation or disturbance of the site or any nearby area shall occur until the Sonoma County Coroner has made the necessary findings as to origin, in accordance with Health and Safety Code 7050.5. In accordance with Public Resources Code 5097.98 if the coroner believes the human remains to be those of a Native American, he or she shall contact, by telephone, within 24 hours, the Native American Heritage Commission. The Native American Heritage Commission shall immediately notify the Most Likely Descendent (MLD) or Descendants. The Descendent shall inspect the site of the discovery and may recommend the means for treating or disposing, with appropriate dignity, the human remains and any associated grave goods. The Descendants shall complete their inspection and make their recommendation within 48 hours of their notification by the Native American Heritage Commission. The remains shall not be damaged or disturbed by further development until the landowner has discussed and conferred with the MLD regarding their recommendations.</p>	<p>Incorporate notification requirements into final plans or specifications</p> <p>Notify County Coroner if human remains, associated grave goods or items of cultural patrimony are encountered</p> <p>Notify qualified archaeologist and tribal monitor to develop agreement if human remains or graves are encountered, if applicable</p> <p>Notify Native American Heritage Commission within 24-hours of identification pursuant to PRC 5097.98</p>	<p>City of Santa Rosa</p>	<p>Verify notification procedures are in final plans or specifications prior to issuance of grading permit</p> <p>If needed, ensure notification procedures are followed during construction</p>	

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Geology and Soils				
<p>MM GEO-8: Protect Paleontological Resources if Encountered during Construction</p> <p>A qualified paleontologist shall be contracted to periodically inspect any ground disturbances that are part of construction activities including but not limited to excavations. The construction contractor shall stop all ground disturbing activities should any vertebrate fossils be encountered during construction. All ground disturbing activities within 50 feet of the find shall be temporarily halted, and a qualified paleontologist shall be notified to document the discovery as needed, to evaluate the potential resource, and to assess the nature and significance 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 any 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 will be properly curated and preserved</p>	<p>Incorporate requirements into plans and specifications</p> <p>A paleontologist shall be on-site to periodically inspect ground disturbance activities that extend to depths where paleontological resources may potentially be encountered</p> <p>If needed, implement treatment procedures as described in evaluation</p>	City of Santa Rosa	<p>Verify requirements are in final plans or specifications</p> <p>Verify periodic inspection is performed</p> <p>If needed, verify assessment is completed, and protection and treatment is implemented</p>	
Hazardous Materials				
<p>MM HAZ-6: Reduce Wildland Fire Hazards during Construction</p> <p>Prior to construction, the applicant and its contractor(s) shall remove and/or clear away dry, combustible vegetation from the construction site. Grass and other vegetation less than 18 inches in height above the ground shall be maintained 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 on the construction site to assist in quickly extinguishing any small fires, and the contractors shall have on site the phone number for the local fire department.</p>	<p>Incorporate fire reduction requirements into final plans or specifications</p> <p>Clear site of dry, combustible vegetation.</p> <p>Implement additional recommended protection measures</p>	City of Santa Rosa	<p>Verify firerelution requirements are in final plans or specifications</p> <p>Verify removal of dry, combustible vegetation prior to start of construction</p> <p>Check jobsite compliance as necessary</p>	

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Hydrology and Water Quality				
<p>MM HWQ-1: Manage Construction Dewatering</p> <p>If construction dewatering is required, the City shall require the Applicant and its contractor to evaluate reasonable options for dewatering management that would avoid discharging to a local surface water or storm drain. The following management options shall be considered:</p> <ul style="list-style-type: none"> • Reuse the water on-site for dust control, compaction, or irrigation. • Retain the water on-site in a grassy or porous area to allow infiltration/evaporation. • Discharge (by permit) to a sanitary sewer. <p>If discharging to the sanitary sewer, the Applicant shall comply with a one-time discharge permit or other type of approval requiring, as necessary, measures for characterizing the discharge and ensuring filtering methods and monitoring to verify that the discharge is compliant with the City's local wastewater discharge requirements.</p> <p>If discharging to a local surface water or storm drain, the Applicant shall obtain coverage under NCRWQCB Order No. R1-2009-0045, Waste Discharge Requirements for Low Threat Discharges to Surface Waters in the North Coast Region. The Applicant shall submit permit registration documents to the NCRWQCB, including development of a Best Management Practices/Pollution Prevention Plan to characterize the discharge and to identify specific measures to control the discharge, such as sediment controls to ensure that excessive sediment is not discharged, and flow controls to prevent erosion and flooding downstream of the discharge. The City shall ensure that the Applicant oversees implementation of the Best Management Practices/Pollution Prevention Plan during construction dewatering activities, including visual inspections and ensuring overall compliance.</p>	<p>Incorporate dewatering requirements into plans and specifications</p> <p>If discharging to sanitary sewer, obtain required permit</p> <p>If discharging to local surface water or storm drain, obtain required permit</p> <p>Implement applicable measures in permit</p>	<p>City of Santa Rosa</p>	<p>Verify dewatering requirements are incorporated into final plans and specifications prior to issuance of grading permit</p> <p>Verify permit has been obtained prior to dewatering activity</p> <p>Verify compliance with permit during construction</p>	
Noise				
<p>MM NOI-1a: Reduce Construction Noise</p> <p>The Applicant and its contractor shall implement construction noise control measures during construction, with input from adjacent noise-sensitive land uses. Noise control measures shall include, but would not be limited to the following:</p> <ul style="list-style-type: none"> • Install a temporary construction noise barrier with a height of 8 feet above grade on the Project property lines shared with the residential properties. The noise barrier shall be installed before loud construction activities begin and shall remain in place until construction within 150 feet of the barrier location is complete. The noise barrier may be composed of mass loaded 	<p>Incorporate construction noise control measures into plans and specifications</p> <p>Implement noise control measures during construction</p>	<p>City of Santa Rosa</p>	<p>Verify construction noise control measures are incorporated into final plans and specifications prior to issuance of grading permit</p>	

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<p>construction blankets on temporary fencing or solid plywood construction barriers and should have a minimum surface weight of 1.0 lb. /ft² and an equivalent sound transmission class rating of 25 or more.</p> <ul style="list-style-type: none"> • Muffle and maintain all equipment used on site. All internal combustion engine-driven equipment shall be fitted with mufflers, which are in good condition. Good mufflers shall result in non-impact tools generating a maximum noise level of 80 dBA when measured at a distance of 50 feet. • Utilize “quiet” models of air compressors and other stationary noise sources where technology exists. • Locate stationary noise-generating equipment as far as possible from sensitive receptors when sensitive receptors adjoin or are near a construction project area. • Prohibit unnecessary idling of internal combustion engines. • Prohibit construction workers’ radios which are audible on adjoining properties. • Restrict noise-generating activities at the construction site or in areas adjacent to the construction site to the hours between 8:00 a.m. and 5:00 p.m., Monday through Friday. • Do not allow machinery to be cleaned or serviced past 6:00 p.m. or prior to 8:00 a.m. Monday through Friday. • The allowable hours for delivery of materials or equipment to the site and truck traffic coming to and from the site for any purpose to shall be limited to Monday through Friday between 8:00 a.m. and 5:00 p.m. • Construction or construction related activities at the Project site shall not occur on weekends or holidays. • Allowable construction hours shall be posted clearly on a sign at the construction site. • The construction contractor shall designate a “noise disturbance coordinator” who will be responsible for responding to any local complaints about construction noise. A telephone number for the disturbance coordinator shall be posted at the construction site. The Disturbance Coordinator shall: <ul style="list-style-type: none"> – Notify area residents of construction activities, schedules, and potential impacts. – Receive and act on complaints about construction disturbances. – Determine the cause and implement remedial measures as necessary to alleviate problems. 			Verify implementation during construction	

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<ul style="list-style-type: none"> Clearly post his/her name and phone number(s) on a sign at the construction site. 				
<p>MM NOI-1b: Revise Site Plan to Reduce Operational Noise</p> <p>The Applicant shall incorporate the following measures into the design and construction of the Project:</p> <ul style="list-style-type: none"> The condensing units of the residential Cottages adjacent to residential property lines shall be located on the front sides of the buildings (out of line-of-sight to the neighboring residential property line). A noise barrier fence/wall with a minimum top of wall elevation of 6 feet above the finished grade shall be constructed along the property line adjacent to and the nearest residential property line. The noise barrier fence/wall shall be built without cracks or gaps in the face or large or continuous gaps at the base. The wall shall also have a minimum surface weight of 3.0 lbs. per sq. ft. Acceptable materials for such walls include a 2x4 wood framed wall with wood or stucco finishes, masonry, and pre-cast concrete panels. A wood fence type wall may also be used, but shall be double faced with butted vertical fence boards on each side with a continuous layer of 1/2" plywood. 	<p>Incorporate noise reduction measures into plans and specifications</p> <p>Confirm noise measures are implemented during construction</p>	City of Santa Rosa	<p>Verify noise reduction measures are incorporated into final plans and specifications prior to issuance of building permit</p> <p>Verify design implemented during construction</p>	
<p>MM NOI-1c: Emergency Generator Enclosure</p> <p>The Applicant shall incorporate the following measures into the design, construction, and operation of the on-site emergency generator:</p> <ul style="list-style-type: none"> The on-site emergency generator shall be fitted with an acoustical enclosure which results in noise emissions of no more than 55 dBA at any adjacent property line, which shall be confirmed by a noise consultant. Emergency generator testing shall only be conducted between the hours of 7 a.m. and 7 p.m. 	<p>Incorporate requirement into plans and specifications</p> <p>Confirm noise emissions from generator are less than 55 dBA at adjacent property lines</p> <p>Ensure testing is limited to prescribed hours</p>	City of Santa Rosa, Construction Coordinator, and Applicant	<p>Verify requirements are incorporated into final plans and specifications prior to issuance of building permit</p> <p>Verify requirements are implemented during construction</p>	
<p>MM NOI-2: Reduce Groundborne Vibration during Construction</p> <p>The Applicant and its contractors shall conduct construction activities within 45 feet of a residential property line in a manner that minimizes vibration, including:</p>	Incorporate vibration reduction requirement into plans and specifications	City of Santa Rosa	Verify vibration reduction requirement incorporated into final plans and specifications prior to	

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<ul style="list-style-type: none"> Heavy vibratory rollers (weight rating of more than 2 tons) shall not be used on any portion of the Project site that is located within 45 feet of a residential property line. 			<p>prior to issuance of grading permit</p> <p>Check jobsite compliance as necessary</p>	
Transportation				
<p>TR-3: Los Alamos Road Bike Lane Signage</p> <p>The City shall ensure the Applicant amends the Los Alamos Road Frontage improvement plans to include signage to notify both riders and drivers of a mid-block bicycle lane change between Los Alamos Road and Melita Road. Signage shall be designed and implemented to the satisfaction of the City and shall not substantially reduce line-of-sight from the proposed Project driveway.</p>	<p>Incorporate required signage into included in plans and specifications</p> <p>Ensure signage preserves adequate line-of-sight</p>		<p>Verify signage is included in plans and specifications prior to issuance of building permit</p> <p>Verify signage is implemented per requirements during construction</p>	