

II. SEIR SUMMARY/MITIGATION MONITORING PROGRAM

II.A. SEIR SUMMARY

1. Project Summary

The County of San Luis Obispo proposes to construct the extension of Willow Road and connect it with US 101 in the community of Nipomo, south San Luis Obispo County. The proposed project includes the extension of Willow Road east from its existing terminus approximately 1,000 feet west of Pomeroy Road to Thompson Avenue; construction of a frontage road between Willow Road and Sandysdale Drive; and construction of a new US 101/Willow Road interchange between postmile (PM) 5.75 and PM 6.0. The project represents a part of the long-range circulation improvement program for the South County Planning Area providing an integral component of the area's future transportation network.

In January 1995, the Board of Supervisors considered six alternative alignments for the proposed extension of Willow Road. At that time, the County selected to conduct additional analyses on two of the six alignments, which led to the preparation of a Tier 1 Environmental Impact Report. In 1998, a Tier 1 Environmental Impact Report (FEIR) for the Willow Road Extension/Highway 101 Interchange project was completed and released for public review. In March 1999, the FEIR was adopted by the County Board of Supervisors and a preferred alignment and interchange were selected. The FEIR specified that subsequent design refinements for the road extension, interchange, and frontage road would be evaluated in a Tier 2 construction-level environmental document.

The County prepared this Supplemental Environmental Impact Report (SEIR) to satisfy the requirements for evaluating the preferred project alternative in a Tier 2 construction-level environmental document. This second-tier environmental evaluation of the proposed project, its impacts, and the prescribed mitigation measures are summarized on the following pages.

2. Summary of Impacts and Mitigation Measures

The following summary of potential project impacts and prescribed mitigation measures (Table II-1) is arranged pursuant to the issues discussed in Section V, Environmental Analysis, of this SEIR. This summary also identifies the residual impacts after implementation of the proposed project mitigation measures. These residual impacts are classified according to the following criteria:

- **Class I Impact** - Significant and unavoidable adverse impacts that cannot be mitigated to a level of insignificance. Although mitigation measures may be prescribed, these measures are not sufficient to reduce project impacts to a less than significant level.
- **Class II Impacts** - Potentially significant adverse impacts which can be reduced to a less than significant level or avoided entirely with the implementation of prescribed mitigation measures.
- **Class III Impacts** - Adverse impacts which are found to be less than significant for which mitigation measures may be applied but are not required.

- **Class IV Impacts** - Project impacts which are considered to be positive or of benefit to the site or the adjacent environment.

These residual impacts are also summarized by environmental topic in Table II-2 “Summary of Residual Impacts after Mitigation” following Table II-1.

Table II-1: Summary of Impacts and Mitigation Measures

Description of Impact	Mitigation Measure Summary	Residual Impact
<p>A. LAND USE AND PLANNING</p> <p>The proposed project has the potential to significantly impact lands currently used for agriculture.</p> <p>Some property acquisition will be required; however, nurseries, open space, recreation, and residential land uses in the project vicinity will not be functionally impacted.</p> <p>The proposed road extension east of US 101 could disturb riparian habitat and jurisdictional waters of the U.S. associated with Nipomo Creek.</p> <p>The proposed road extension would result in significant unavoidable adverse impacts to two agricultural preserves.</p>	<p>H-1, Agricultural Vehicle Crossings. The County of San Luis Obispo Department of Public Works shall ensure that all project roadways which traverse any lands under cultivation shall provide an adequate number of at-grade agricultural vehicle crossings. These concrete road crossings shall be striped and marked with appropriate signage to warn motorists of the potential for agricultural vehicles on the roadway and shall be located to provide safe vehicle distance.</p> <p>No mitigation measures necessary</p> <p>See Mitigation Measures F-1 through F-3, F-5 through F-7, F-17 through F-19, F-21, F-24 and F-25 below</p> <p>There are no feasible mitigation measures to reduce impacts to agricultural preserves</p>	<p>Implementation of Mitigation Measure H-1 reduces potentially significant impacts of agricultural production to less than significant (Class III Impact).</p> <p>No Impact (Class III Impact).</p> <p>Implementation of Mitigation Measures F-1 through F-3, F-5 through F-7, F-17 through F-19, F-21, F-24 and F-25 reduces impacts to riparian habitat and Nipomo Creek to less than significant (Class II Impact).</p> <p>Impacts to two agricultural preserves will be significant, unavoidable, and adverse (Class I Impact).</p>

<p>The proposed project's contribution to cumulative impacts on agricultural resources could be significant, unavoidable and adverse.</p> <p>The proposed project is consistent with long-range land use planning as included in the Land Use and Circulation Elements of the San Luis Obispo County General Plan.</p> <p>By removing impediments to growth, the proposed project will hasten the conversion of existing vacant and agricultural land to more developed uses. This growth-inducing effect would be significant, unavoidable and adverse.</p>	<p>There are no feasible mitigation measures to reduce cumulative impacts to agricultural resources</p> <p>No mitigation measures necessary</p> <p>There are no feasible mitigation measures to reduce the growth-inducing impacts of the proposed project</p>	<p>Cumulative impacts to agricultural resources will be significant, unavoidable, and adverse (Class I Impact).</p> <p>No Impact (Class III Impact).</p> <p>Growth-inducing impacts to agricultural or vacant land will be significant, unavoidable and adverse (Class I Impact).</p>
<p>B. TRAFFIC AND CIRCULATION</p> <p>The proposed project has the potential to positively impact Levels of Service (LOS) and average vehicle delays at several existing intersections in and around the project area on a project specific as well as cumulative basis.</p> <p>In the future, there is a potential for unacceptable LOS at the US 101/Willow Road interchange.</p>	<p>No mitigation measures necessary</p> <p>B-1, Willow Road Facilities Design. Design features of the Willow Road facilities should not preclude a second ramp lane from being added to the US 101 northbound on- and off-ramps. Prior to approval of final design, the County Department of Public Works shall ensure that the design could accommodate such future ramp lanes.</p>	<p>This project will result in beneficial impacts on traffic and circulation (Class IV impact).</p> <p>With implementation of Mitigation Measure B-1, potential impacts at the future US 101/Willow Road interchange will be reduced to less than significant (Class II Impact).</p>
<p>C. NOISE</p> <p>Construction crew commutes and the transport of construction equipment and materials to the project</p>	<p>No mitigation measures necessary</p>	<p>No Impact (Class III Impact).</p>

<p>site would incrementally raise noise levels on access roads leading to the site, but only for short periods of time. The projected construction traffic trips will be relatively few and of short duration. Therefore, short-term construction related worker commutes and equipment transport noise impacts would be less than significant.</p> <p>Short-term construction-related noise has the potential to significantly impact residences (sensitive receptors) within 15 m (50 ft) from the project area. These residences may be subject to construction-related noise exceeding the County standard for exterior noise (60 dBA L_{dn}).</p>	<p>C-1, Construction Hours. The County shall restrict construction activities to the hours between 7:00 a.m. and 9:00 p.m. on Monday through Friday and 9 a.m. to 5 p.m. on Saturdays and Sundays. These restrictions would generally reduce the impact of construction-related noise impacts on existing residences and other land-uses.</p> <p>C-2, Caltrans Sound Control Requirements. To minimize the construction related noise impacts for existing residences adjacent to the project site, the County shall ensure that the project follows Caltrans Standard Specifications, Section 7-10/I, “Sound Control Requirements.” This condition shall be included in the construction plan specifications.</p> <p>C-3, Construction Noise Restrictions.</p> <p>a. The County shall ensure that the contractor shall provide training for all crew members regarding all requirements to minimize construction related noise impacts. This condition shall be included in the construction plan specifications.</p> <p>b. The County shall require the construction of</p>	<p>Residents within 50 feet of the proposed project will experience significant short-term noise impacts generated from the construction equipment used to build the proposed road. Proposed Mitigation Measures C-1 through C-5 will reduce the duration and severity of the noise. However, because construction operations are short-term/temporary, the impact associated with the construction-related noise is considered to be a less than significant (Class II Impact).</p>
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<p>The proposed project will generate automobile traffic, a long-term source of noise that will alter future noise levels in the surrounding area. The proposed project will subject existing residences to long-term noise levels that exceed the County standard for exterior noise (60 dBA L_{dn}).</p>	<p>temporary barriers where construction activities will be conducted near residential receptors, and where complaints have been received. This condition shall be included in the construction plan specifications.</p> <p>C-4, Portable Equipment. The County shall ensure that portable equipment is located as far as possible from the noise sensitive locations as is feasible. This condition shall be included in the construction plan specifications.</p> <p>C-5, Staging Areas. The County shall ensure that the construction vehicle staging areas and equipment maintenance areas are located as far as possible from sensitive receptor locations. This condition shall be included in the construction plan specifications.</p> <p>C-6, Internal Combustion Engine Mufflers. The County shall ensure that each internal combustion engine used for any purpose on the job or related to the job shall be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without the muffler. This condition shall be included in the construction plan specifications.</p> <p>The following mitigation measures shall be implemented by the County to reduce certain long-term noise impacts associated with the proposed project:</p> <p>C-7, Sound Barrier No. 1. The County shall build a sound wall ten feet high and approximately 129 feet long within the proposed County right-of-way along the north side of Willow Road between Guadalupe and Pomeroy</p>	<p>At ten receptor locations, increased traffic on the proposed Willow Road extension will cause noise levels to exceed the County's exterior noise standard. Sound barriers (Mitigation Measures C-7, C-8, and C-9) can feasibly reduce these noise levels</p>
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<p>Cumulative short-term noise impacts could result in localized noise impacts if construction of one or more of the projects on the cumulative projects list is occurring in the same space and at the same time as the proposed project. If this occurs, short-term noise impacts could be significant but would be restricted to areas immediately adjacent to the particular project under construction. Because the short-term, construction-related impacts associated with the cumulative projects list are limited in space and time, these impacts are not considered to be significant over the long-term.</p> <p>Long-term noise level increases associated with the proposed project, when considered in conjunction with the list of cumulative projects, are considered to be significant along Willow Road. However, since the proposed project will result in a redistribution of vehicle traffic in the study area</p>	<p>Road to protect receptor location #1 (R-1).</p> <p>C-8, Sound Barrier No. 2. The County shall build a sound wall 8 feet high and approximately 318 feet long within the proposed County right-of-way along Willow Road west of Hetrick Avenue to protect receptor location #8 (R-8).</p> <p>C-9, Sound Barrier No. 3. The County shall build a sound wall six feet high and approximately 259 feet long within the proposed County right-of-way along Cherokee Place east of Hetrick Avenue to protect receptor location #15 (R-15).</p> <p>No mitigation measures necessary</p> <p>No mitigation measures necessary.</p>	<p>to below the County exterior threshold at three receptor sites (Class II Impact).</p> <p>It is not feasible to provide sound barriers at the other seven receptor locations and therefore they will experience significant, unavoidable, adverse impacts (Class I Impact).</p> <p>No Impact (Class III Impact).</p> <p>No Impact (Class III Impact).</p>
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<p>roadway system, the proposed project will not directly alter the regional or cumulative noise conditions.</p>		
<p>D. AIR QUALITY</p> <p>Construction equipment emissions would not exceed the daily thresholds for any of the criteria pollutants: NO_x, ROG, CO, SO_x and PM₁₀. Therefore, short-term air quality impacts associated with project construction will be less than significant.</p> <p>Combustion emissions and fugitive dust will be generated by the use of construction equipment and during earthmoving operations while the proposed project is being constructed.</p>	<p>No mitigation measures necessary</p> <p>D-1, APCD Asphalt Paving Regulations. The construction contractor shall adhere to the requirements of APCD rules and regulations on cutback and emulsified asphalt paving materials. Prior to application, the County shall contact APCD for verification.</p> <p>D-2, Pre-Construction Asbestos Detection Program. Prior to the start of any construction activities, the County shall conduct borings in the project area to test for the occurrence of ultramafic or asbestos containing materials. In the event that ultramafic or asbestos containing materials are discovered, the County shall comply with all requirements outlined in the Asbestos ATCM for Construction, Grading, Quarrying and Surface Mining Operations. These requirements may include, but are not limited to preparation of: 1) an Asbestos Dust Mitigation Plan that shall be approved by the APCD before construction begins, and 2) an Asbestos Health and Safety Program in accordance with the California Air Resources Board regulations. This program shall be prepared and reviewed as part of the final plan check. This condition</p>	<p>No Impact (Class III Impact).</p> <p>With implementation of standard conditions D-1 through D-16, the project's potential short-term air quality impacts will be reduced to less than significant (Class II Impact).</p>

	<p>shall be included in the construction plan specifications.</p> <p>D-3, Procedure for Handling Unanticipated Discoveries of Asbestos. In the event of the discovery of ultramafic or asbestos containing materials during construction, construction operations in the affected area should cease immediately and the County shall comply with all requirements outlined in the Asbestos ATCM for Construction, Grading, Quarrying and Surface Mining Operations. These requirements may include, but are not limited to preparation of: 1) an Asbestos Dust Mitigation Plan that shall be approved by the APCD before construction gets back underway, and 2) an Asbestos Health and Safety Program in accordance with the California Air Resources Board regulations. This program shall be prepared and reviewed as part of the final plan check. This condition shall be included in the construction plan specifications.</p> <p>D-4, ARB Certified Equipment. Maximize to the extent feasible the use of diesel construction equipment meeting the ARB's 1996 or newer certification standard for off-road heavy-duty diesel engines during any construction activities. This condition shall be included in the construction plan specifications.</p> <p>D-5, Installation of Emission Reduction Devices. The contractors shall install diesel oxidation catalysts (DOC), catalyzed diesel particulate filters (CDPF), or other District-approved emission-reduction retrofit devices prior to construction activities. The ARB has recently verified DOC and CDPF systems for HD diesel vehicles. DOCs have control efficiencies on the order of 25 percent, while</p>	
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	<p>CDPFs can achieve diesel PM reductions of 85 percent or better. In general, DOCs are effective at reducing the fine particle component, while CDPFs are effective at reducing both the fine particle and larger black soot components. Manufacturer data indicates that both types of devices can reduce about 90 percent of CO emissions and 50 to 70 percent of ROG emissions, some being a portion of the diesel PM component. Some devices/systems are being developed that have the added benefit of being able to reduce NOx emissions. Determination of the appropriate CBACT control device(s) for the project must be performed in consultation with APCD staff. This condition shall be included in the construction plan specifications.</p> <p>D-6, Construction Activity Management Plan. The contractor shall develop a comprehensive construction activity management plan designed to minimize the amount of large construction equipment operating during any given time period prior to construction activities. This condition shall be included in the construction plan specifications.</p> <p>D-7, Construction Truck Trips. The contractor shall schedule construction truck trips during non-peak hours to reduce peak hour emissions prior to and during any construction activities. This condition shall be included in the construction plan specifications.</p> <p>D-8, Construction Work-Day. The County shall limit the length of the construction work-day period, if necessary. This condition shall be included in the construction plan specifications.</p>	
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	<p>D-9, Construction Phasing. The County shall phase construction activities, if appropriate so that fugitive dust and other emissions being generated do not exceed daily thresholds. Construction phasing shall be planned and reviewed as part of the final design.</p> <p>D-10, PM₁₀ and Dust Emissions Reduction. Proper implementation of the following measures during construction activities will achieve a significant reduction in PM₁₀ emissions. All PM₁₀ mitigation measures required shall be included on grading and building plans. In addition, the contractor must designate a monitor for the dust control program and order increased watering, as necessary, to prevent transport of dust off site. Their duties shall include holidays and weekend periods when work may not be in progress. The name and telephone number of such persons shall be provided to the APCD prior to land use clearance for map recordation and land use clearance for finish grading of the structure.</p> <ul style="list-style-type: none">a. Reduce the amount of the disturbed area where possible.b. Use water trucks or sprinkler systems to prevent airborne dust from leaving the site. Increase watering frequency whenever wind speed exceeds 15 mph. Reclaimed (nonpotable) water should be used whenever possible.c. Spray all dirt stock-pile areas daily as needed.d. Implement permanent dust control measures identified in the approved	
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	<p>project revegetation and landscape plans as soon as possible following completion of any soil-disturbing activities.</p> <ul style="list-style-type: none">e. Sow exposed ground areas that are planned to be reworked at dates more than one month after initial grading with a fast-germinating native grass seed, and water until vegetation is established.f. Stabilize all disturbed soil areas not subject to revegetation using approved chemical soil binders, jute netting, or other methods approved in advance by the APCD.g. Complete all roadways, driveways, sidewalks, etc., to be paved as soon as possible. In addition, lay building pads as soon as possible after grading unless seeding or soil binders are used.h. Construction vehicles shall not exceed a speed of 15 mph on any unpaved surface at the construction site. SLOAPCD CEQA Air Quality Handbook 2003i. Cover trucks hauling dirt, sand, soil, or other loose materials or maintain at least two feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with CVC Section 23114.j. Install wheel washers where vehicles enter and exit unpaved roads, or wash off	
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	<p>trucks and equipment leaving the site.</p> <p>k. Sweep streets at the end of each day if visible soil material is carried onto adjacent paved roads. Use water sweepers with reclaimed water where feasible.</p> <p>The construction contractor shall adhere to the requirements of APCD CEQA Air Quality Handbook to reduce fugitive dust emissions. The Best Available Control Technologies for construction equipment (CBACT) shall be adhered to during the project construction.</p> <p>D-11, Well -Tuned, Efficient Equipment. Prior approval of any grading permits, the construction contractor shall select the construction equipment used on site based on low emission factors and high energy efficiency. The contractor shall also ensure that all construction equipment is maintained in proper tune according to manufacturer's specification prior to and during any construction activities. The County shall ensure that construction grading plans include a statement that all construction equipment will be tuned and maintained in accordance with the manufacturer's specifications.</p> <p>D-12, Alternative-Fuel-Powered Equipment. The construction contractor shall utilize electric or alternative-fuel powered equipment in lieu of gasoline and diesel powered engines where feasible during construction activities. This condition shall be included in the construction plan specifications.</p>	
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	<p>D-13, ARB-Certified Fuel. The contractor shall ensure that all off-road and portable diesel powered equipment, including but not limited to bulldozers, graders, cranes, loaders, scrapers, backhoes, generator sets, compressors, auxiliary power units, are powered with ARB-certified motor vehicle diesel fuel (non-taxed version suitable for off-road use) during any construction activities. This condition shall be included in the construction plan specifications.</p> <p>D-14, Equipment Shut Off. Prior to approval of grading permits, the construction contractor shall ensure that construction grading plans include a statement that work crews will shut off equipment when not in use. This condition shall be included in the construction plan specifications.</p> <p>D-15, Construction Timing. During construction activities, the construction contractor shall time the construction activities so as not to interfere with peak hour traffic and to minimize obstruction of through traffic lanes adjacent to the site; if necessary, a flag-person shall be retained to maintain safety adjacent to existing roadways. This condition shall be included in the construction plan specifications.</p> <p>D-16, Ridesharing. The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew during construction activities. This condition shall be included in the construction plan specifications.</p>	
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<p>It is assumed that no more than three acres of land would be under construction or exposed at any point in time during the construction of the proposed project. Additionally, the project is underlain by medium-to fine-grained, well sorted sand that is less subject to dust emissions than typical soils. Therefore, fugitive dust emissions during project construction will be less than significant.</p>	<p>See standard conditions D-2, D-3, D-4, D-5, D-9, and D-10 above.</p>	<p>With the implementation of standard conditions D-2, D-3, D-4, D-5, D-9, and D-10, the proposed project's construction-related impacts for fugitive dust emissions will be less than significant (Class II Impact).</p>
<p>San Luis Obispo is among the counties listed as containing serpentine and ultramafic rock. The General Location Guide for Ultramafic Rocks in California shows no areas of natural occurring asbestos (NOA) in the project vicinity. However, in the unforeseen event of the discovery of ultramafic or asbestos containing materials, the County shall comply with all requirements outlined in the Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying and Surface Mining Operations. If County requirements are followed, the impacts from naturally occurring asbestos during project construction will be less than significant.</p>	<p>See standard condition D-2 and D-3 above.</p>	<p>With implementation of standard condition D-2 and D-3, the construction-related impacts from naturally occurring asbestos will be less than significant (Class II Impact).</p>
<p>No Carbon Monoxide (CO) levels would exceed the federal and State on-hour and eight-hour standards, therefore, no CO hot spots would occur as a result of the proposed project.</p>	<p>No mitigation measures necessary</p>	<p>No Impact (Class III Impact).</p>
<p>Implementation of the proposed project will not cause a significant increase in toxic air constituents such as exhaust from diesel engines.</p>	<p>See standard conditions D-4 through D-7, D-9, D-11 through D-14 above</p>	<p>With implementation of standard conditions D-4 through D-7, D-9, and D-11 through D-14, the</p>

<p>The proposed project will not significantly contribute to or cause deterioration of existing air quality. Therefore, the proposed project is consistent with the San Luis Obispo Council of Government's (SLOCOG) Clean Air Plan. Hence, no mitigation measures are required for the long-term operation of the project in order to meet SLOCOG's Clean Air Plan.</p>	<p>No mitigation measures necessary</p>	<p>project's impacts on diesel toxics will be less than significant (Class II).</p> <p>Long-term air quality impacts on both a local and regional level will benefit from the improved traffic circulation and reduced traffic congestion associated with the proposed project (Class IV Impact).</p>
<p>The proposed project is projected to have beneficial long-term effects on air quality since it will improve traffic flow and reduce delay and congestion.</p>	<p>No mitigation measures necessary</p>	<p>Long-term air quality impacts on both a local and regional level will benefit from the improved traffic circulation and reduced traffic congestion associated with the proposed project (Class IV Impact).</p>
<p>The completion of the proposed cumulative projects should not add appreciable quantities of pollutants to the regional airshed. In addition, the proposed project is expected to reduce air pollution associated with automobile traffic in the project area due to improved traffic flow efficiencies at study area intersections. Therefore, the proposed project will have a less than significant contribution to the cumulative impact on the region's air quality conditions.</p>	<p>No mitigation measures necessary</p>	<p>The proposed project's contribution to the cumulative air quality will be less than significant (Class II Impact).</p>

E. PUBLIC SERVICES		
<p>Police Protection. The proposed project will lead to improved vehicular access to the Nipomo area which will assist law enforcement efforts. However, the project will also represent added patrol responsibilities, create opportunities for people to congregate, and provide a new roadway that would lead to unlit open space.</p>	<p>E-1, Emergency Access. The San Luis Obispo County Sheriff’s Department shall review final project design plans of all project facilities and shall advise the County Public Works Department as to adequate emergency access and surveillance needs for Sheriff patrol cars. The County Public Works Department shall submit the final design plans to the Sheriff’s Department prior to approval of final project design plans.</p>	<p>Impacts to police protection and emergency response services will be reduced to less than significant levels with implementation of Mitigation Measure E-1 (Class II Impact).</p>
<p>Fire Protection. Improved vehicular access resulting from the proposed project will be beneficial to fire protection and emergency services. The proposed project will result in a reduction of traffic congestion thereby reducing accident potential. However, roadways provide the opportunity for sparks and other combustibles from cars which can ignite fires on the side of roadways.</p>	<p>E-2, Fuel Reduction. Prior to the approval of final project design plans of all project facilities, a Fuel Reduction Plan shall be submitted to the San Luis Obispo County Fire Department by the County Public Works Department for review and approval. This plan will provide for adequate brush clearance and vegetation removal pursuant to Fire Department and California Department of Forestry standards while preserving as much of the natural habitat as possible. This plan shall also provide a long-term maintenance program for these cleared areas.</p>	<p>Impacts to fire protection services will be reduced to less than significant levels with implementation of Mitigation Measure E-2 (Class II Impact).</p>
<p>Public Utilities. The proposed project has the potential to impact utilities through utilization of roadway lighting at intersections and the US 101 interchange. This additional energy consumption is considered minimal and will not cause a significant impact.</p>	<p>E-3, Existing Service Mains. The County Department of Public Works shall submit the final project design plans to the Southern California Gas Company, Pacific Gas and Electric Company, the Nipomo Community Services District, Pacific Bell, State of California, Department of Water Resources and the local cable television provider for review no less than 90 days prior to construction in order to identify the location of existing service mains, provide for and necessary relocation of facilities and prevent any unexpected service interruptions.</p>	<p>Impacts to public utilities during construction will be reduced to less than significant levels with the implementation of Mitigation Measures E-3 and E-4 (Class II Impact).</p>
<p>Construction has the potential to disturb underground natural gas and/or electrical service mains, water or sewer mains, and telephone or cable television lines.</p>		

<p>Solid Waste. The proposed project will generate construction debris from breakup and demolition of existing road asphalt and other hardscape. Excess soil from grading activities will also be generated. Construction debris is proposed to be recycled at close to 100 percent. Excess cut soil from construction will be stockpiled for use on other County projects. Therefore, little or no construction debris or excess cut soil would require deposition at county landfills.</p> <p>Cumulative Public Services and Utilities Impacts. The proposed project represents a minor incremental increase in the demand for public services. However, the potential adverse impacts are outweighed by the benefit of emergency access and traffic safety. The project will not require additional utility lines and additional energy consumption is considered minimal. Additionally, the project's contribution to the County landfill capacity and operations will be less than significant. Therefore, the proposed project's contribution to the cumulative impact on public</p>	<p>E-4, Construction Notification. The County Department of Public Works shall ensure that all project plans and specifications include the following note: "Please telephone Underground Service Alert (USA) toll free at 1-800-642-2444 forty-eight hours prior to the start of construction. For best response, provide as much notice as possible, up to ten working days". This notification will allow adequate time to locate and mark existing utility facilities.</p> <p>E-5, Stockpiling of Cut Soils. Prior to stockpiling of soil from project generated activities, the County Department of Public Works shall ensure that a designated soil stockpile location will be reviewed for sensitive resources prior to placement of any soils.</p> <p>No mitigation measures necessary</p>	<p>With implementation of Mitigation Measure E-5, solid waste impacts from the proposed project will be less than significant (Class II Impact).</p> <p>The project does not add significantly to cumulative impacts on public services, on utilities, or to County landfill capacity and operations (Class III Impact).</p>
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<p>services, utilities, and County landfill capacity and operations is less than significant.</p>		
<p>F. BIOLOGICAL RESOURCES</p> <p>Impacts to Sensitive Species If sensitive species are present within the project boundaries, there is a potential for construction activities to kill or injure individuals. In addition, vegetation removal within the project boundary will remove potential foraging, breeding, and denning habitat for these species.</p> <p>Sensitive wildlife in the vicinity of the project would be subjected to construction/operating noise, high-intensity lighting, storm water runoff erosion/sedimentation, urban pests, and invasive plant material. In addition, removing or altering habitat during construction would result in the direct loss or displacement of wildlife within the project area.</p>	<p>F-1, Construction Fencing. All construction-related activities shall be confined to the proposed boundaries by installing construction fencing along the boundary prior to any ground disturbance to prevent any construction activities from encroaching into adjacent areas. All construction staging will occur within the proposed roadway or in existing developed areas as these areas are less likely to contain habitat suitable for sensitive species. Project construction plans shall include this measure in the specifications. All fencing shall remain in good working order for the duration of all construction-related activities. All-weather signs stating “Sensitive Area – Stay Out” shall be posted every 50 feet.</p> <p>F-2, Project Biologist. Prior to initiating construction, the California Department of Transportation (Caltrans) and the County shall designate a qualified project biologist responsible for overseeing biological monitoring, regulatory compliance, and restoration activities in association with project construction in accordance with the adopted mitigation measures and applicable law.</p> <p>F-3, Biological Monitor. Prior to initiating construction, the County shall designate a qualified biologist to monitor all construction activities within and adjacent to native habitats to ensure that construction does not encroach into these areas.</p>	<p>Impacts to sensitive species will be reduced to a level that is less than significant by implementing Mitigation Measures F-1 through F-13, and F-18 (Class II Impact).</p>

	<p>F-4, Vegetation Removal Restriction/Nesting Birds. During construction, vegetation removal or construction activities shall not occur during the primary nesting season for local birds (April 1–August 31) where oak woodlands, wetlands, and maritime chaparral occur on, or adjacent to, the proposed project. If vegetation removal or construction activities must occur in these areas during this period, then preconstruction surveys shall be conducted in the appropriate habitats within and adjacent to the project boundary to identify nesting birds within or adjacent to the proposed project. If active nests are observed within or adjacent to the project boundary then a buffer is required until either the young have fledged or the nest becomes inactive. The preconstruction survey limits and buffer shall be designated by the project biologist prior to construction in the affected nesting areas. Limits and buffers shall be clearly marked in the field and shown on applicable construction plans.</p> <p>F-5, Monitoring Reports. During construction, the project biologist shall provide quarterly monitoring reports documenting compliance with the avoidance and minimization measures, and shall submit the mitigation report to Caltrans, the County, and the appropriate resource agencies. All recommended remedial work shall be completed within 30 days of identification unless the qualified biologist determines another time is more biologically appropriate.</p> <p>F-6, Avoidance of Work During the Rainy Season. Construction activities in the Nipomo Creek area shall occur outside the rainy season to minimize sedimentation within the drainage. Project construction plans shall</p>	
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	<p>include this measure in the specifications.</p> <p>F-7, Sensitive Habitat Buffers. Permanent fences or other approved methods (such as planting suitable native trees and shrubs in the buffer area between the side of the road and native habitats) shall be used to discourage off-road disturbance from pedestrians and vehicles in sensitive habitat areas. Project construction plans shall include these measures in the specifications.</p> <p>F-8, Non-Native Vegetation Removal. The construction contractor and project biologist shall ensure that no nonnative plant material shall be brought onto the construction site. Due to the vegetative reproduction characteristics of the species in Table C of the Biological Resources Analysis (Appendix E) any occurrence of these species shall be removed from the site prior to vegetation-clearing activities at the direction of the project biologist. In addition, the potential for contribution of funds to programs, such as the removal of invasive species from riparian habitats like Nipomo Creek, should be considered in the mitigation and monitoring plan. The following measures shall be used as applicable to minimize impacts from non-native vegetation:</p> <ul style="list-style-type: none">• Prior to exotic plant removal, the County shall retain a qualified biologist to conduct focused protocol surveys to determine the presence or absence of sensitive species within the area slated for exotic vegetation removal.• If sensitive species are observed within the areas slated for exotic vegetation removal, then consultation	
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	<p>with the USFWS shall be required prior to implementing any work activities.</p> <ul style="list-style-type: none">• Exotic weed removal shall be completed during the fall and winter months. All material removed shall be bagged and disposed of at a landfill.• All exotic weed removal activities shall be monitored by a qualified biologist.• The County shall ensure that the habitat enhancement site is kept free of exotic reintroduction for a period of five years following the completion of the exotic plant removal.• All seed mixes used for erosion control purposes shall be native or considered non-aggressive by a qualified biologist and shown on all applicable plans. <p>F-9, Preconstruction Surveys. The project biologist shall perform preconstruction surveys in appropriate habitats, within and adjacent to the project boundary, for sensitive species, such as the California horned lizard. If sensitive species are found within the preconstruction survey area, a qualified biological monitor (qualified to handle species, when required), designated by the County, should be present during vegetation clearing and grading activities to capture and relocate any sensitive wildlife species.</p> <p>F-10, Bat Biologist. As the project area has the potential to provide suitable bat habitat, during the spring and summer (May–August) and prior to vegetation removal or alteration of existing structures, the County shall designate a qualified bat biologist to survey all potential roosting</p>	
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	<p>habitat proposed for removal by the proposed construction.</p> <p>If a roost is found, the bats shall be discouraged from returning to their roosting area and the resource removed immediately so that the bats cannot return and would be forced to find alternative roost sites. Since each roost situation is different, the qualified bat biologist shall determine the manner of exclusion. Tree removal shall be completed between September and November or March to April to avoid hibernating bats (December–February) and maternity season (May–August) if feasible. If tree removal must occur during hibernating or maternity season, then the designated qualified bat biologist shall conduct surveys prior to tree removal to determine if hibernating or maternity bats are present within or adjacent to the project limits. The limits of the buffer will be determined by the bat biologist. If they are present, then the bat biologist shall designate a buffer around the location where tree removal cannot occur until the bats have finished hibernating or the young have left the roost. If hibernating or maternity bats are not present, then tree removal shall be initiated within 30 days of the survey.</p> <p>F-11, Temporary and Long-Term Lighting Minimization. During construction, if deemed necessary by the project biologist, lighting screens shall be used to reduce light pollution during evening construction. In addition, construction crews shall also reduce the number of times the lights are turned on and off to avoid sudden changes that may disturb wildlife and/or wildlife movement. The use of long-term lights on the proposed road shall be minimized to reduce impacts of the proposed</p>	
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	<p>road on sensitive wildlife species. Any lights at the interchange shall contain low light features where feasible, including (1) low-intensity street lamps, (2) lower elevation street poles, or (3) shielding by internal silvering of globes or external opaque reflectors.</p> <p>F-12, Pismo Clarkia Surveys. The final project boundary shall be surveyed by the project biologist as designated by the County, during the blooming period for Pismo clarkia (May–July) prior to issuing the construction contract. If surveys locate Pismo clarkia within the portion of the project with federal involvement then a Biological Assessment would need to be prepared and submitted to the USFWS and CDFG and applicable requirements of the Federal and California Endangered Species Acts would need to be met prior to any construction or site preparation activities. A preservation plan shall be prepared that, at a minimum, would result in no net loss of the plant. If the Pismo clarkia is observed in the remaining project boundaries, the appropriate permit must be obtained from the CDFG.</p> <p>F-13, California Red-Legged Frog. Construction activities in the Nipomo Creek area shall occur outside the rainy season to ensure that the proposed project will not impact the California red-legged frog. If construction must occur during the rainy season, then focused protocol surveys shall be conducted within and adjacent to the project area to determine whether this species is present. If red-legged frogs are found within the project limits, additional measures shall be developed in coordination with the USFWS to avoid impacts to this species during construction. These measures shall include the</p>	
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<p>Construction activities in Nipomo Creek may impact the California red-legged frog.</p> <p>The South/Central Coast Steelhead is not expected to occur within the study area and will not be impacted by the proposed project.</p> <p>Surveys for Pismo Clarkia have not located any of these sensitive plants within the project area.</p>	<p>preparation and implementation of a Storm Water Pollution Prevention Plan (SWPPP) and Best Management Practices (BMPs).</p> <p>F-18, SWPPP and BMPs. Construction activities within or adjacent to drainages and Nipomo Creek (including roadside ditches that discharge to Nipomo Creek) should occur outside the rainy season (October–May) to ensure that construction activities do not cause sedimentation of the creek. If construction must occur during the rainy season, then the SWPPP shall be prepared and construction site BMPs shall be installed before any construction begins to include measures to keep sediment out of Nipomo creek during storm events (for example, excavation spoils being stored and trapped outside the creek, and siltation basins installed down-gradient). In addition, the SWPPP and BMPs will identify measures to restrict dust.</p> <p>See Mitigation Measures L-1, L-3, F-9, F-11, F-13, and F-18 above</p> <p>No mitigation measures necessary</p> <p>See Mitigation Measure F-12 above</p>	<p>Potential impacts to the California red-legged frog will be reduced to a level that is less than significant by implementing Mitigation Measures L-1, L-3, F-9, F-11, F-13, and F-18 (Class II Impact).</p> <p>No Impact (Class III Impact).</p> <p>Implementation of Mitigation Measure F-12 will reduce the</p>
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<p>However, because of limitations with the previous plant surveys, the presence of this species within the project boundary cannot be definitively ruled out. Therefore, there is a potential to impact Pismo Clarkia.</p> <p>The project could impact sensitive plant species within the project boundary. Mitigation measures will reduce impacts to these species to less than significant.</p>	<p>See Mitigation Measure F-12 above</p> <p>F14, Trash Disposal. The contractor shall ensure that trash and debris deposits adjacent to native habitats shall be disposed of daily during construction to reduce impacts to sensitive habitats, such as maritime chaparral and oak woodland. Project construction plans shall include this measure in the specifications.</p> <p>F-16, Habitat Creation, Conservation, and Enhancement Plan. A Habitat Creation, Conservation and Enhancement Plan shall be prepared to mitigate maritime chaparral and oak woodland habitats, as well as any riparian habitats associated with Nipomo Creek, impacted or removed during construction in accordance with agency and County requirements. This Habitat Creation, Conservation and Enhancement Plan shall be prepared and at least initially implemented prior to initiation of construction. The plan shall discuss not only the creation, conservation, or enhancement of habitat, but the re-creation, conservation, or enhancement of the original ecological function of habitats impacted by the project. To accomplish this, the plan shall include identification of areas where native habitats are to be restored, conserved, or enhanced or other means of ensuring no net loss of sensitive native habitats. In addition, this plan shall identify the potential occurrence</p>	<p>proposed project's potential impacts on Pismo Clarkia to less than significant levels (Class II Impact).</p> <p>Impacts to sensitive species will be reduced to less than significant with implementation of measures F-12, F-14, and F-16 (Class II Impact).</p>
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	<p>of the sensitive plant species such as sand almond, sand mesa manzanita, and California spineflower to provide the opportunity to include the mitigation for project-related impacts to these sensitive botanical resources.</p> <p>Three options have been identified to mitigate for impacts to oak woodland and maritime chaparral. These options include habitat creation, habitat conservation and habitat enhancement all of which may be used individually or in combination to fulfill the mitigation requirements for the impacts to both the sensitive habitat types and individual oak trees associated with this project. The following mitigation ratios shall be applied for the various options:</p> <ul style="list-style-type: none">• Habitat creation shall be implemented at a 1:1 ratio. This option provides an opportunity to replace impacted chaparral and fulfill the County tree replacement standards by planting oak trees for habitat creation.• Sensitive habitat conservation shall be implemented at a 1:1 ratio. In addition, enhancement of the area set aside for conservation with new plantings provides an opportunity to fulfill the County tree replacement standard, as long as other existing sensitive habitats are not displaced from planted trees at maturity.• Habitat enhancement shall be implemented at a 2:1 ratio as this option includes sensitive habitats that are already been owned by the County and preserved that are not part of any other mitigation program. This option may provides an opportunity to fulfill the County tree replacement standards by planting oak trees to where existing habitat is considered degraded	
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	<p>or non-native.</p> <p>Additional details, as described below, shall be incorporated into the plan where applicable to assist in the success of each of the mitigation options.</p> <p>Habitat Creation</p> <ul style="list-style-type: none">• Oak trees should be replaced using locally collected acorns or other propagules, preferably collected from within the area of the proposed construction.• Sensitive plant species, including sand almond, sand mesa manzanita, and California spineflower shall be propagated from local seed stock, preferably from seed or propagules salvaged from within the proposed alignment.• Sufficient topsoil shall be stockpiled for use in the revegetation areas. and• Grazing or other vegetation-disturbing activities shall not be permitted within areas proposed as mitigation.• These areas would be set aside in perpetuity after creation.• Monitoring by a qualified individual for no less than three years. <p>Habitat Conservation</p> <ul style="list-style-type: none">• A conservation easement shall be selected to preserve a larger area of high-quality sensitive habitat that contains the same sensitive species, specifically the sand almond, sand mesa manzanita, and California	
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	<p>spineflower, at similar population levels as will be impacted by the proposed project.</p> <ul style="list-style-type: none">• The development rights of the property shall be relinquished to another entity that has its primary purpose the preservation, protection, or enhancement of land in its natural condition or use; the CDFG; or to another State or local government entity if otherwise authorized to acquire and hold title to real property.• The easement should be created in such a way that further impact to sensitive species cause by edge effects are reduced and the ratio of surface area to the perimeter of conserved habitats is maximized. In this way, the area can provide suitable foraging and nesting habitat for native species.• Once a suitable site for land acquisition is found, a biological assessment of the resources present on site shall be performed, and a report shall be generated that includes information on the baseline environmental data on the property.• The County Department of Public Works will be responsible for keeping track of the land, resources, and monitoring efforts and provide this information to the Planning and Building Department (Environmental Division). <p>Habitat Enhancement</p> <ul style="list-style-type: none">• Oak trees shall be replaced using locally collected acorns or other propagules, preferably collected from within the area of the proposed construction.• As with habitat creation, the sensitive plant species	
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<p>Impacts to Sensitive Habitats There is a potential for construction to impact Nipomo Creek and associated riparian vegetation.</p>	<p>including sand almond, sand mesa manzanita, and California spineflower shall be propagated from local seed stock, preferably from seed or propagules salvaged from within the proposed alignment.</p> <ul style="list-style-type: none"> • These areas would be monitored by a qualified individual for no less than 3 years and set aside in perpetuity after enhancement. <p>See Mitigation Measures F-1 through F-3, F-5 through F-8, F-16, and F-18 above</p> <p>F-17, Conditions of Approval to Address Impacts to Jurisdictional Waters. To reduce impacts to riparian habitats and associated drainages subject to Corps and/or CDFG jurisdiction, the following are required:</p> <ul style="list-style-type: none"> • A U.S. Army Corps of Engineers (Corps) authorization pursuant to Section 404 of the Clean Water Act is required for any discharge of dredge or fill material into jurisdictional areas of Nipomo Creek. • A Section 1602 Streambed Alteration Agreement with the California Department of Fish and Game (CDFG) will be required in the event of any alteration of Nipomo Creek or the associated riparian vegetation. • To obtain the Corps permit and CDFG streambed alteration agreement, a Habitat Mitigation and Monitoring plan shall be prepared by a qualified biologist for any impacts to areas subject to state or federal jurisdiction. There are no predetermined ratios for habitat replacement. The nature and extent of habitat replacement is determined on a regular case by case basis. Generally, habitat replacement ratios 	<p>Impacts to Nipomo Creek and associated riparian areas will be reduced to a less than significant level by implementing Mitigation Measures F-1 through F-3, F-5 through F-8, F-16 through F-19, F-21, F-24, and F-25 (Class II Impact)</p>
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	<p>exceed 1 to 1 in order to compensate for the gradual nature of revegetation and off-site habitat replacement. As the vegetation within the Nipomo Creek crossing is degraded, this plan may include additional restoration either upstream or downstream of Nipomo Creek. If this type of restoration is not possible within the adjacent reaches of Nipomo Creek, the County shall contribute to a restoration program of the Nipomo Watershed at the replacement ratio established by the permit. Restoration within the watershed will result in the replacement of jurisdictional habitat lost by the proposed project. The mitigation plan must be submitted to the agencies for their approval, along with the permit applications.</p> <p>F-19, Construction Equipment Staging. No fueling, lubrication, storage, or maintenance of construction equipment within 46 meters (150 feet) of CDFG or Corps jurisdictional areas shall be permitted, which includes riparian and sensitive habitats. Spoil sites shall not be located within CDFG and Corps jurisdictional areas, including riparian and sensitive habitats, or in areas where it could be washed into Nipomo Creek.</p> <p>F-21, New Bridge. Prior to project design plan approval, the County of San Luis Obispo Public Works Department shall ensure that the design of the new bridge over Nipomo Creek shall include solid concrete railing, which decreases noise from traffic. In addition, the proposed Nipomo Creek crossing shall have an earthen bottom and the vegetation within the channel will be replanted with native species after construction is completed.</p>	
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<p>The project will impact various maritime chaparral habitats within the project boundary, a habitat type that is in decline.</p> <p>The proposed road alignment would impact a small area of freshwater marsh and willow riparian habitats.</p>	<p>F-24, Pollution Prevention. The County and construction contractor shall ensure that pollution prevention practices shall be employed to prevent contamination of native habitats by construction-related materials. All project-related trash shall be collected and properly disposed of at the end of each work day. This measure shall be included in the construction plan specifications.</p> <p>F-25, Best Management Practices. The County and construction contractor shall ensure that Best Management Practices (BMPs) are employed to minimize erosion from the construction of project facilities and deposition of soil or sediment in off-site areas, especially in the vicinity of the riparian/wetlands areas associated with Nipomo Creek, east of the US 101. This measure shall be included in the construction plan specifications. Specific water quality BMPs are specified in Section V.L.5 of this EIR.</p> <p>See Mitigation Measures F-1 through F-5, F-7, F-8, F-14, F-19, F-24, and F-25</p> <p>See Mitigation Measure F-16 above</p> <p>See Mitigation Measure F-16</p>	<p>Impacts to maritime chaparral habitats will be reduced to a less than significant level by implementing Mitigation Measure F-16 (Class II Impact).</p> <p>Impacts to freshwater marsh and willow riparian habitats will be reduced to a less than significant level by implementing Mitigation Measure F-16 (Class II Impact).</p>
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<p>There is a potential for invasive plant species to be imported to the adjacent native habitats and the Nipomo Creek drainage via contaminated construction equipment or imported materials such as soils.</p> <p>The construction of the proposed project will result in the direct removal of oak woodland habitat as well as individual oak trees. There are approximately 938 coast live oak trees within the current proposed project boundary, of which 810 are greater than 6 inches dbh.</p>	<p>See Mitigation Measure F-8 above</p> <p>See Mitigation Measure F-16 above</p> <p>F-15, Oak Tree Replacement. Mitigation for removal or damage of oak trees must be accomplished by replacing trees removed or damaged at a ratio in accordance with the County of San Luis Obispo standards. The County of San Luis Obispo recommends a 4:1 replacement of oak trees greater than 6 inches diameter at breast height (dbh) removed or damaged by development activities. Impacted or damaged trees shall be replaced at a 2:1 ratio. When work under drip-lines cannot be avoided, all limb trimming and root cutting shall follow good arborists' practices. An oak tree replacement plan shall be prepared along with the Habitat Creation, Conservation and Enhancement Plan described below prior to project grading for review and approval of the County of San Luis Obispo, Department of Planning and Building with the intent of successfully reestablishing the removed or damaged oak trees. At a minimum, the plan shall (a) identify the number of oak trees to be removed and impacted, (b) specify the number and location of oak trees to be planted, (c) provide replanting in compatible areas near project facilities, particularly in the vicinity of the US 101, and (d) identify all areas to be permanently set aside for oak replacement. Oak trees removed or damaged by project activities must be replaced by locally collected</p>	<p>Mitigation Measures F-8 will reduce impacts from invasive plant species to a less than significant level (Class II Impact).</p> <p>The proposed project would directly impact 28.8 acres of oak woodland habitat. Even with the preparation of an Oak Tree Replacement Plan and Oak Woodland Habitat Creation, Conservation and Enhancement program as prescribed in Mitigation Measures F-15 and F-16, project impacts to oak woodland and oak trees are considered significant adverse impacts until the replacement trees and restored/enhanced habitat is fully ecologically functional (Class I Impact).</p>
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<p>Approximately 0.19 acre of jurisdictional waters of the U.S. would be directly impacted by the proposed road extension crossing over Nipomo Creek.</p>	<p>acorns or other propagules, preferably collected from within the area of the proposed construction. Final numbers of oak trees and corresponding diameters shall be assessed prior to the start of construction based on final design.</p> <p>See Mitigation Measure F-17</p>	<p>Impacts to 0.19 acres of jurisdictional waters of the U.S. will be reduced to a level that is less than significant by implementing Mitigation Measure F-17 (Class II Impact).</p>
<p>Impacts to Wildlife Movements The proposed project could cause indirect effects on wildlife movement in the Nipomo Creek Corridor.</p>	<p>See Mitigation Measure F-21 above</p> <p>F-20, Creek Crossing Lighting. The use of lights on the new proposed creek crossing shall be minimized to reduce impacts on wildlife movement under the crossing. No artificial lighting shall be installed or used in or around the bridge/culvert unless otherwise required to meet Caltrans approval. If lights are required for the crossing, a biologist shall be retained to assist in the creation of a lighting plan design. Low-light features shall be used where feasible, including: (1) low-intensity street lamps, (2) lower elevation street poles, or (3) shielding by internal silvering of globes or external opaque reflectors. The responsible party shall ensure that this measure is shall be included on the construction specifications.</p>	<p>Implementing Mitigation Measures F-20 and F-21 will reduce impacts on wildlife movement in the Nipomo Creek corridor to a less than significant level (Class II Impact).</p>
<p>Indirect impacts associated with construction and operation of the proposed project such as dust, accidental fuel spills, activities outside designated</p>	<p>See Mitigation Measures C-1 through C-3 and F-24 and F-25 above</p>	<p>Indirect impacts to biological resources will be reduced to a less than significant level with the</p>

<p>construction areas, litter, traffic, runoff, increased human presence and use of the area, and increased fire risk could potentially have a significant impact on biological resources.</p>	<p>F-22, Dust Control Program. The County and construction contractor shall ensure that a dust control program is in place during construction so that native trees and shrubs are not damaged due to dust covering the leaves. A maximum speed limit of 15 miles per hour will be posted on all construction routes. Watering trucks shall be used regularly with sufficient frequency to eliminate visible dust behind construction vehicles.</p> <p>F-23, Speed Limits. The construction contractor shall ensure that all construction personnel obey speed limit rules both along public roads and designated project access. Driving off designated project routes shall not be permitted. This measure shall be included in the construction plan specifications.</p>	<p>implementation of Mitigation Measures C-1 through C-3, and F-22 through F-25 (Class II Impact).</p>
<p>General Impacts to Biological Resources Construction of the proposed project will result in direct and indirect impacts to vegetation and wildlife habitats.</p>	<p>See Mitigation Measures F-1 through F-8</p>	<p>General impacts to biological resources will be reduced to a less than significant level after the implementation of Mitigation Measures F-1 through F-8 (Class II Impact).</p>
<p>The proposed project will result in a direct loss of habitat as a result of vegetation removal during construction. This includes impacts to nesting birds</p>	<p>See Mitigation Measures F-1 through F-8</p>	<p>Mitigation Measures F-1 through F-8 will reduce impacts to nesting birds to a level that is less than significant (Class II Impact).</p>
<p>Cumulative Impacts Because there is an existing roadway along or immediately adjacent to most of the proposed project alignment and the native habitat and associated plant and wildlife species within the</p>	<p>See Mitigation Measures F-1 through F-25</p>	<p>By implementing Mitigation Measures F-1 through F-25, cumulative impacts to wildlife and vegetation will be less than</p>

<p>vicinity are currently subject to extensive disturbances already, project impacts will not cause a substantial contribution to cumulative impacts.</p>		<p>significant (Class II Impact).</p>
<p>G. CULTURAL AND PALEONTOLOGICAL RESOURCES</p> <p>The proposed project will impact a number of cultural resources. Some or all of these sites could be damaged or destroyed by construction of the proposed project. Damage or destruction may create a significant impact upon these resources.</p>	<p>G-1, Archaeological Monitoring Plan. Prior to initiating construction, the County Department of Public Works shall prepare a monitoring plan with written procedures for archaeological resource monitoring. The County has the responsibility for ensuring that sites to be preserved in place are not impacted by construction activities, for evaluating unanticipated discoveries, and for providing recommendations on the subsequent treatment of such discoveries. This plan shall include procedures for protecting sites that are to be preserved in place and for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of newly-discovered resources as appropriate. As part of the monitoring program, the County shall involve local Native Americans. If the archaeological resources are found and determined to be significant, the County will determine appropriate actions for their exploration and data recovery. The County shall prepare excavated material to the point of identification.</p> <p>Following the completion of grading, the County Department of Public Works shall prepare a report detailing the results of the monitoring program to be presented to the County Department of Planning and Building. A copy of the final report should also be submitted to the Central Coast Information Center at the</p>	<p>Impacts to known archaeological sites can be reduced to a less than significant level with the implementation of Mitigation Measures G-1 and G-2 (Class II Impact).</p>

	<p>University of California, Santa Barbara. The report shall follow the guidelines of the California Office of Historic Preservation (1990) <i>Archaeological Resource Management Reports</i> (ARMR). Excavated finds shall be offered for curatorial purposes to the San Luis Obispo County Archaeological Society or another qualified scientific institution.</p> <p>G-2, Data Recovery Plan. Prior to initiating construction, the County Department of Public Works shall prepare and execute a data recovery plan. The plan shall include a background section discussing the resource, present a research design that addresses important questions, and present appropriate methods for the collection of relevant data. This plan shall follow the guidelines of the California Office of Historic Preservation (1991). The data recovery plan shall be developed in consultation with the County Department of Planning and Building. Following the development of the data recovery plan, the County shall conduct the research program described in the plan. The County shall prepare excavated material to the point of identification. Following completion of the field and laboratory work, the County shall produce a report detailing the results of data recovery. A copy of the final report shall also be submitted to the Central Coast Information Center at the University of California, Santa Barbara. The report shall follow the guidelines of the California Office of Historic Preservation (1990) ARMR. Excavated finds shall be offered for curatorial purposes to the San Luis Obispo County Archaeological Society or another qualified scientific institution.</p>	
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<p>A home built in 1952 could suffer impacts from the visual effects of the proposed project. Since the house is not a historical resource for the purposes of CEQA, impacts will be less than significant.</p> <p>Besides impacts to known cultural resources, this project also has the potential to significantly impact cultural or paleontological resources that have not been discovered during the course of previous surveys, but may be encountered during construction.</p>	<p>No mitigation measures necessary</p> <p>See Mitigation Measure G-1 above</p> <p>G-3, Pre-Construction Archaeological Workshop. An archaeological workshop shall be conducted at the pre-construction meeting for construction personnel under the supervision of the County Department of Public Works. This workshop shall educate construction personnel about what types of cultural materials may be encountered during construction excavation. A procedure for notification of a qualified archaeologist about accidental discoveries and a communication network shall be developed so that if any suspected cultural materials are unearthed in areas not being monitored, they can be quickly examined and evaluated by qualified archaeologist and appropriate recommendations made. This workshop shall be repeated as needed for construction workers not attending pre-construction meetings and prior to their beginning any grading work.</p> <p>G-4, Procedure for Handling Unanticipated Discoveries. If any cultural or paleontological material is unearthed during grading or excavation associated with the project, work in that area shall be halted until such material can be examined by the County and appropriate recommendations made.</p> <p>G-5, Procedure for Handling the Discovery of Human Remains. If human remains are encountered during</p>	<p>No Impact (Class III Impact)</p> <p>By implementing Mitigation Measures G-1 and G-3 though G-5, potentially significant impacts to yet undiscovered cultural resources can be reduced to less than significant (Class II Impact).</p>
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<p>Although no known paleontological resources are known to be within the project limits, a paleontological literature and record search and geoaerchological trenching in the project area indicates that the proposed project is located on Pleistocene sediments that have a high potential for containing remains of vertebrate fossils at depths below six feet. Therefore, nonrenewable paleontological resources could be impacted by project related excavation, particularly at depths below six feet.</p>	<p>grading or excavation associated with the project, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of the origin and disposition of the materials pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC). The NAHC will determine and notify a Most Likely Descendent (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The descendent must complete the inspection within 24 hours of notification by the NAHC. The MLD may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials.</p> <p>G-6, Paleontological Resource Impact Mitigation Program. Prior to initiating construction, a County approved project paleontologist shall prepare a Paleontological Resource Impact Mitigation Program (PRIMP) for ensuring that paleontological resources are kept below a level of significance. The PRIMP shall include the following steps:</p> <ul style="list-style-type: none"> • The project paleontologist shall prepare a map to show where grading to depths below six feet would occur within Pleistocene formations, which is of primary concern for paleontological resources; • A trained paleontological monitor shall be present during rough grading below a depth of six feet and within Pleistocene sediments to the final depth of 	<p>By implementing Mitigation Measure G-6, potential impacts to paleontological resources will be reduced to a level that is less than significant.</p>
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<p>The proposed project contributes to incremental cumulative impacts on cultural resources in the</p>	<p>excavation for the entire length of the road alignment. The monitor will be empowered to temporarily halt or redirect construction activities to ensure avoidance of adverse impacts to paleontological resources. The monitor will be equipped to rapidly remove any large fossil specimens encountered during excavation. During monitoring, samples will be collected and processed to recover microvertebrate fossils. Processing will include wet screen washing and microscopic examination of the residual materials to identify small vertebrate remains;</p> <ul style="list-style-type: none"> • Upon encountering a large deposit of bone, salvage of all bone in the area will be conducted in accordance with modern paleontological techniques; • All fossils collected during the project will be prepared to a reasonable point of identification. Excess sediment or matrix will be removed from the specimens to reduce the bulk and cost of storage. Itemized catalogs of all material collected and identified will be provided to the museum repository along with the specimens; • A report documenting the results of the monitoring and salvage activities and the significance of the fossils will be prepared; • All fossils collected during this work, along with the itemized inventory of these specimens, will be deposited in a museum repository for permanent curation and storage. <p>See mitigation measures G-1, G-3 through G-5 above</p>	<p>By implementing Mitigation Measures G-1 and G-3 though G-</p>
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<p>project vicinity. The proposed project will facilitate other planned developments within the region. These planned projects will impact archaeological sites and other potentially significant cultural resources. Potentially significant impacts can be reduced on a project-by-project basis with appropriate mitigation measures. In the case of the proposed project, potentially significant impacts can also be reduced to a less than significant level so the project will not significantly contribute to cumulative impacts on cultural resources.</p>		<p>5, potentially significant cumulative impacts to cultural resources can be reduced to less than significant (Class II Impact).</p>
<p>H. AGRICULTURAL RESOURCES</p> <p>The proposed project will traverse areas currently being devoted to a variety of agricultural uses including dryland and irrigated farming, nurseries and greenhouse operations. Development and operation of the proposed project will have a less than significant impact on these agricultural uses.</p>	<p>H-1, Agricultural Vehicle Crossings. The County of San Luis Obispo Department of Public Works shall ensure that, as part of project design, all project roadways which traverse any lands under cultivation shall provide an adequate number of at-grade agricultural vehicle crossings. These concrete road crossing shall be striped and marked with appropriate signage to warn motorists of the potential for agricultural vehicles on the roadway and shall be located to provide safe vehicle sight distance.</p> <p>H-3, Cattle Undercrossing. Prior to initiating construction, the County of San Luis Obispo Department of Public Works shall contact property owners utilizing the existing cattle undercrossing. If the facility is still in use at that time, the County must provide a separate cattle undercrossing to allow unimpeded access through the interchange. If this is not possible, the County shall purchase the access rights to the cattle undercrossing.</p>	<p>Impacts to agricultural resources, nurseries, greenhouses, and prime agricultural soils will be reduced to less than significant levels after implementing Mitigation Measures H-1 and H-3 (Class II Impact).</p>

<p>Project road facilities will traverse through two existing Williamson Act Agricultural Preserves (parcel numbers 091-251-017 and 091-301-019). Construction on or through agricultural preserves is considered a significant impact.</p> <p>The proposed project will traverse areas containing potentially prime agricultural soils (when irrigated). These impacts are considered to be less than significant.</p> <p>Cumulative impacts to agricultural resources resulting from the proposed project could be significant. Provision of roadways and access facilities similar to those associated with the proposed project can eliminate a potential constraint upon development (i.e. lack of access) and, in turn, can create economic pressures and increased land values. These conditions can potentially hasten the conversion of adjacent agricultural lands and agricultural preserves as well as areas containing prime agricultural soils to developed uses.</p> <p>The proposed project also represents a contributing step in the long-range development of the list of cumulative projects in the project area. Development of these projects could impact agricultural land uses, preserves, and soils found in the project area. If all of the projects from the cumulative projects list are developed it is likely that there will be a significant cumulative impact</p>	<p>H-2, Williamson Act Notice. Prior to completion of right-of-way acquisition, the County of San Luis Obispo shall prepare all required notices pursuant to Section 51291 of the Williamson Act for any roadways within established agricultural preserves.</p> <p>No mitigation measure necessary</p> <p>There are no feasible mitigation measures to reduce cumulative impacts to agricultural resources</p>	<p>Impacts to two agricultural preserves are considered to be significant, unavoidable, and adverse even with implementation of Mitigation Measure H-2 (Class I Impact).</p> <p>Less than significant impact (Class III Impact).</p> <p>Cumulative impacts to agricultural resources resulting from the proposed project could be significant, unavoidable, and adverse (Class I Impact).</p>
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<p>on existing agricultural lands and operations.</p>		
<p>I. AESTHETICS</p> <p>Construction of an additional freeway interchange will represent a permanent change in the existing unobstructed, rural views of the project area from US 101. The proposed interchange is also within the US 101 Design Corridor which attempts to minimize impacts to scenic foreground and background views from US 101. Therefore, the proposed US 101 interchange represents a potentially significant impact upon views to motorists using US 101.</p> <p>Construction of the proposed project will result in the permanent alteration of the nature and appearance of the project area and its immediate surroundings through the removal of oak woodland habitat and hundreds of individual oak trees. This loss of oak trees is considered a potentially significant visual impact given their visibility from US 101 and their visual contribution to the landscape of the area.</p>	<p>I-1, Revegetation Plan. All slopes and areas disturbed by grading for any proposed project facilities shall be planted with drought resistant vegetation immediately following construction. A Re-vegetation Plan shall be prepared for approval by the County of San Luis Obispo, Department of Planning and Building prior to project grading. This plan shall specify the type and location of re-vegetation for all slopes and areas disturbed by grading for any of the project facilities. Larger shrubs and trees shall be planted in groupings or clusters in the vicinity of US 101 in order to buffer views from the freeway and to shield external views of the proposed interchange facility while also providing adequate line-of-sight for motorists. Sufficient topsoil will be stockpiled for use in all re-vegetation areas. The re-vegetation is intended to buffer views of project facilities while also providing adequate line-of-site for motorists. The location and type of vegetation are also important in screening facilities while also maintaining scenic background views.</p> <p>See Mitigation Measure I-1, F-15 and F-16 above</p>	<p>By implementing Mitigation Measure I-1 the visual impact of the highway interchange can be reduced or “softened” (Class II Impact).</p> <p>Impacts from alteration of the project area setting will be reduced to a less than significant level through the implementation of Mitigation Measures I-1, F-15, and F-16 (Class II Impact).</p>

<p>The extension of Willow Road over Nipomo Creek will result in the removal of riparian vegetation. However, given the lower elevation and the resulting lack of visibility of this area combined with the relatively small area of disruption (less than one acre), the vegetation removal is not considered to be a significant aesthetic impact.</p> <p>Operation of the proposed project has the potential of adding night lighting which may generate additional light and glare in the project area. Sources of nighttime lighting include automobile traffic and intersection lighting at the proposed interchange. The interchange configuration, proposed as an undercrossing, will significantly reduce light and glare impacts in that required lighting will be below or at the existing freeway elevation rather than elevated over the existing highway. Nevertheless, the additional lighting may cause a significant impact.</p> <p>Construction of the proposed project will result in short-term visual impacts by disrupting the existing surface appearance. Impacts to the views of the</p>	<p>No mitigation measure necessary</p> <p>I-2, Project Lighting. All project lighting shall comply with requirements of the County of San Luis Obispo while also conforming to the type of lighting and extent of illumination currently employed by the California Department of Transportation. To the extent allowed, illumination levels and light standard heights shall be as low as possible while still providing for adequate safety. The number of street lights designed for project roadways shall be minimized to reduce potential light and glare impacts while providing required illumination for access and safety. Lighting plans shall be included in the project design plans to be reviewed by the County Department of Planning and Building.</p> <p>I-3, Downward Shielding of Light Sources. All street and interchange lighting shall be designed in a manner which orients light downward and is shielded to prevent upward and side illumination. Where possible, all exterior lighting should involve low pressure sodium vapor lamps or equivalent lighting technology which reduces potential excess light and glare.</p> <p>No mitigation measures necessary</p>	<p>Visual impacts to riparian habitats are less than significant. (Class III Impact).</p> <p>Mitigation Measures I-2 , I-3, F-11 and F-20 in Biological Resources will reduce operation, long-term light and glare impacts to less than significant levels (Class II impact).</p> <p>No impact (Class III Impact)</p>
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<p>area during project construction are considered to be less than significant due to the short-term nature of construction activities and the relatively small area of disruption.</p> <p>The Willow Road Extension/US 101 Interchange project will create a potentially significant cumulative aesthetic impact since the interchange and road will change the visual appearance of the project area and introduce additional nighttime lighting. In addition, the project contributes to the long-range development of cumulative projects anticipated for the area. Development of these projects would further impact the visual appearance and light and glare conditions in the project area.</p>	<p>See Mitigation Measures I-1 through I-3, F-11, F-15 through F-17 and F-20</p>	<p>With implementation of the prescribed project specific mitigation measures, the project's contribution to the cumulative aesthetic visual environment would be reduced to less than significant. (Class II Impact).</p>
<p>J. GEOLOGY AND SOILS</p> <p>There is one fault that runs through the project area that poses a potential threat of surface rupture. The fault is a type, however, for which the potential for surface rupture is thought to be low. A major earthquake on the fault in this area could, however, cause potentially significant impacts through warping and fracturing of the ground surface.</p>	<p>J-1, Conformance to Applicable Standards. Project design and grading plans prepared by the Project Engineer shall conform to applicable County and State Construction Standards for roads and bridges. These standards must be implemented in the plans prior to County approval of the final plans, specifications, and estimates (PS&E).</p> <p>J-2, Project Design Assumptions. Project design shall assume that project facilities will be exposed to ground shaking commensurate with a Maximum Credible Earthquake. These design specifications shall be incorporated in the design plan prepared by the Project Engineer prior to County approval of the PS&E.</p> <p>J-3, Recommendations of the Geotechnical Engineer. The recommendations of a design-level geotechnical</p>	<p>Potential impacts related to surface rupture are not significant. The proposed project design will nevertheless be required to meet all applicable County and State standards as outlined in Mitigation Measures J-1 through J-3 (Class II Impact).</p>

<p>Offset along faults within the eastern and western ends of the project could produce uplift and/or tilting of the roadway. The probability of such offset is quite low, and the effects of this tilting would be minor such as cracking of pavement and structural sections. Therefore, this potential impact would be less than significant.</p> <p>Severe ground shaking will occur within the project area if an earthquake of great magnitude occurs on one of the nearby active or potentially active faults. The effects of such an event could cause potentially significant impacts such as cracking of the roadway and structural sections, slumping of slopes near the US 101 interchange, seismic settlement, and possible liquefaction and lateral spreading.</p> <p>Differential consolidation and seismic settlement may crack or warp roads. The chance for differential consolidation to occur is greater in the eastern portion of the project. Problems associated with differential consolidation can be addressed through routine road maintenance. Therefore, this impact is not significant.</p>	<p>investigation performed by a qualified Geotechnical Engineer shall be implemented in the design plan prepared by the Project Engineer prior to County approval of the final PS&E. These recommendations will include detailed geologic investigations related to liquefaction, lateral spreading, and collapsible/expansive soils.</p> <p>No mitigation measures are necessary</p> <p>See Mitigation Measures J-1 and J-2 above</p> <p>No mitigation measures necessary</p>	<p>Impacts resulting from offset along faults are not significant (Class III Impact).</p> <p>Potential impacts caused by seismic ground shaking can be reduced to less than significant levels with implementation of Mitigation Measures J-1 and J-2 (Class II Impact).</p> <p>No impact (Class III Impact).</p>
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<p>Saturated or nearly saturated soils may compress and lose shear strength when shaken during an earthquake causing the soil to behave as a viscous fluid or result in large fissures occurring along unsupported slopes. Liquefaction typically occurs in places where groundwater exists within 50 feet of the surface and groundwater likely occurs at depths of 70 feet or more throughout most of the project area.</p> <p>Soil collapse causes structures and roadway facilities to sink or contort. Expansive soils may repeatedly expand and contract, damaging structures that rest on them. The potential impacts of expansive soils can be mitigated to a less than significant level.</p>	<p>See Mitigation Measures J- 1 and J-3 above</p> <p>J-4, Mitigation of Potentially Liquefiable Soils. If areas of potentially liquefiable soils are identified during design-level geotechnical investigations, appropriate design measures shall be implemented in the design plan prepared by the Project Engineer prior to County approval of the final PS&E. These design measures will include:</p> <ul style="list-style-type: none"> • Realign interchange to avoid liquefiable soil; • Elevate the roadway on a compacted fill embankment; or • Densify liquefiable soils by accepted ground improvement methods including deep dynamic compaction or installation of stone columns. <p>Any project design modifications that expand the physical area of effect beyond the project limits of the as defined in the EIR will require subsequent environmental review and analysis by the County to conform to the requirements of CEQA.</p> <p>J-5, Mitigation of Potentially Collapsible Soils. If any potentially collapsible soil is identified during design-level geotechnical investigations, the affected area shall be temporarily flooded with water by the Project Engineer or Project Contractor to induce collapse before construction. This requirement shall be shown on all applicable construction plans.</p> <p>J-6, Mitigation of Potentially Expansive Soils. If any potentially expansive soil is identified during design-level geotechnical investigations, appropriate measures shall be</p>	<p>Mitigation Measures J-1, J-3 and J-4 will reduce potential impacts from liquefaction and lateral spreading to less than significant levels (Class II Impact).</p> <p>Mitigation Measures J-5 and J-6 will reduce potential impacts from soil collapse and soil expansiveness to less than significant levels (Class II Impact).</p>
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<p>Although the potential for landslides in the project area is very low, cut and fill slopes created during construction of the proposed project could create conditions conducive to landslides. Landslides could be potentially significant due to temporarily blocking roads and destabilizing road embankments.</p>	<p>implemented in the design plan prepared by the Project Engineer prior to County approval of the final PS&E. These measures will include:</p> <ul style="list-style-type: none"> • Remove and replace any excessively expansive material identified; • Water, condition, and control compaction of fill; and • Establish positive drainage to suitable points in a controlled manner without ponding. <p>J-7, Mitigation of Landslides. Landsliding potential of cut/fill slopes associated with the US 101 interchange can be reduced by implementing the following measures in the design plan prepared by the Project Engineer prior to County approval of the final PS&E:</p> <ul style="list-style-type: none"> • Design the freeway structures to withstand the maximum credible earthquake; • Construct fill and/or cut slopes no steeper than 2:1 (horizontal: vertical); • Establish vegetation along slopes immediately after construction pursuant to County requirements; • If required vegetation is not fully established by the beginning of the rainy season, additional erosion control measures shall be installed along slopes prior to the season and any rain events pursuant to County requirements; and • Plant native drought-resistant vegetation which requires limited irrigation pursuant to County requirements. 	<p>Mitigation Measure J-7 will reduce potential landslide impacts to a less than significant level (Class II Impact).</p>
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<p>Dunes to the west of US 101 readily erode when their vegetative cover is disturbed, such as during construction. Sand blowing across the roads as a result of this erosion can create potentially significant impacts because visibility would be reduced to hazardous levels and would require frequent clearing of the road. This impact is potentially significant but with mitigation can be reduced to a less than significant level.</p> <p>No mineral extraction activities are currently operating in the immediate project area, and no commercially valuable mineral resources are known to exist in the project area. Therefore, the proposed project would not preclude the future extraction of valuable mineral resources.</p>	<p>J-8, Mitigation of Potential Erosion. To control potential erosion, all slopes and areas disturbed by grading for any proposed project facilities shall be planted with native drought resistant vegetation by the County's designated landscape contractor immediately following each applicable phase of construction.</p> <p>J-9, Erosion Control Maintenance. Periodic maintenance of areas disturbed by construction of project facilities shall be conducted during and after project construction by the Project Contractor in order to control erosion gullying and wind erosion.</p> <p>No mitigation measures necessary</p>	<p>Mitigation Measures J-8 and J-9 will reduce impacts from potential erosion to less than significant levels (Class II Impact).</p> <p>No impact (Class III Impact).</p>
<p>K. DRAINAGE, EROSION AND SEDIMENTATION</p> <p>The proposed project will not expose people or structures to a significant risk of loss, injury, or death involving flooding, and the project poses no potentially significant impacts attributable to flooding.</p> <p>Construction of the project will increase the amount of impermeable paved surfaces in the area. However, the project will not significantly alter existing drainages or drainage patterns. Nevertheless, the County requires that all runoff</p>	<p>No mitigation measures necessary</p> <p>No mitigation measures necessary</p>	<p>No Impact (Class III Impact).</p> <p>No Impact (Class III Impact).</p>

<p>caused by impervious bituminous asphalt must be routed into infiltration basins to ultimately be absorbed by the soil. The proposed project includes a design feature to address this potential impact.</p> <p>Flowing water can erode soil and carry sediments to other areas. Such impacts are particularly likely during the winter, when the frequency and amount of rainfall is much higher. Winter storms could engender erosion and sedimentation within areas disturbed by construction. Disturbed areas could also be impacted by wind erosion during dry months. Over the longer-term, project features that collect surface runoff, such as culverts, may themselves contribute to erosion. Similarly, project components that would result in the steepening of existing slopes could potentially create more erosive surfaces. The project includes many design features for the control of erosion and sedimentation. With the implementation of these features, as well as mitigation measures, the proposed project will have less than significant impacts resulting from erosion and sedimentation.</p>	<p>K-1, Construction During the Dry Season. Prior to approval by the County, the final PS&E for the project shall specify that construction of any project facilities within or adjacent to Nipomo Creek east of the proposed US 101 interchange will take place during the dry season. As defined by County Land Use Ordinance Section 22.05.036, this season occurs between April 15 and October 15.</p> <p>K-2, Erosion Control Plan for Rainy Season Construction. Prior to approval of any grading plan or permit by the County, the project engineer shall complete an erosion control plan for any construction proposed to occur during the rainy season. The plan shall provide methods for controlling erosion, including—but not limited to—erosion fencing, hay bales, temporary salutation basins, and erosion control blankets. This plan shall conform to Section 22.05.036 of the County Land Use Ordinance. Replacement vegetation and landscaping should be planted sufficiently in advance of October 15 to allow plant roots time to become established and effectively protect the soil.</p> <p>K-3, Erosion Control Plan for Dry Season Construction. Prior to approval of any grading plan or permit by the County, the project engineer shall complete an erosion control plan for any construction on Nipomo Mesa proposed to occur during the dry season. This plan</p>	<p>The proposed project includes a number of design features that address both potential impacts to drainages and potential impacts arising from erosion and sedimentation caused by construction of the project. These design features, in combination with Mitigation Measures K-1 through K-5 will reduce these impacts to a less than significant level (Class II Impact).</p>
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<p>No large body of water exists in the surrounding inland region, the project area lies approximately 8 miles from the coast, and the narrow mountain valleys that foster large, fast-moving mud flows during rain storms do not exist near the project area. Therefore, the project will have no potentially significant impacts resulting from a seiche, tsunami, or mudflow.</p> <p>The watershed into which runoff from the project flows is the area for which cumulative project</p>	<p>shall provide methods for controlling wind erosion, including—but not limited to—using a water truck to apply water to disturbed and unvegetated surfaces. This plan shall conform to Section 22.05.036 of the County Land Use Ordinance.</p> <p>K-4, Monitoring of Project Area. Following completion of each project construction phase, the County monitor shall evaluate the area following storms to determine whether additional work must be done to stabilize areas subject to surface erosion. The County monitor shall document the post-storm condition of areas susceptible to erosion.</p> <p>K-5, Design of Equestrian Trails. Prior to approving a final PS&E for construction of the equestrian trails located adjacent to the proposed road extension, the County shall require that the PS&E specify the use of compacted native soils (where appropriate), Class 3 aggregate base materials, or similar long-lasting products to minimize erosion on the trail surfaces.</p> <p>No mitigation measures necessary</p> <p>See Mitigation Measures K-1 through K-5</p>	<p>No Impact (Class III Impact).</p> <p>With the implementation of Mitigation Measures K-1 though</p>
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<p>impacts are determined. The proposed project accommodates other, planned development in the cumulative project area. These projects will disturb the ground surface during construction and lead to the creation of more impermeable ground surfaces. Impacts from these projects, however, can be mitigated on a project-by-project basis. The proposed project's contribution to cumulative drainage impacts will be mitigated by project specific mitigation measures prescribed herein.</p>		<p>K-5, the project's contribution to the cumulative drainage impacts will be mitigated to a level that is less than significant (Class II Impact).</p>
<p>L. WATER QUALITY</p> <p>The proposed road construction and the proposed bridge construction over Nipomo Creek have the potential to introduce pollutants into Nipomo Creek thereby causing significant detrimental impacts. Pollutants of concern during construction include sediments, trash, petroleum products, and chemicals. Each of these pollutants on its own or in combination with other pollutants can have a detrimental effect on water quality and aquatic habitats.</p>	<p>Standard Procedures and Practices. The County and Caltrans will implement standard procedures and BMPs consistent with the County municipal code as well as the County SWMP and the Model Urban Runoff Program for small municipalities and consistent with the Caltrans SWMP as applicable.</p> <p>Structural Treatment Best Management Practices (BMPs) that will be incorporated as part of the project include two infiltration basins and vegetated swales or vegetated buffer strips. The vegetated swales/buffer strips would be located along the roadway perimeter.</p> <p>The California Stormwater BMP Handbooks have published removal efficiencies for Treatment BMPs as high, medium, or low. These removal efficiencies for the proposed Treatment BMPs are listed in Table V.L-9 (page V.L-16).</p> <p>L-1, NPDES Permit (County Compliance). Prior to the issuance of grading permits, the County shall ensure that</p>	<p>Implementing construction procedures and BMPs as prescribed in standard procedures and practices and Mitigation Measures L-1 and L-2, will reduce significant adverse water quality impacts associated with project construction to less than significant levels (Class II Impact).</p>

	<p>the project complies with the State General Construction Activity NPDES Permit. The construction contractor shall demonstrate to the County that coverage has been obtained under the State General Construction Activity NPDES Permit by providing a copy of the Notice of Intent (NOI) submitted to the State Water Resources Control Board (SWRCB) and a copy of the subsequent notification of the issuance of a Waste Discharge Identification (WDID) number or other proof of filing. In accordance with the permit, a Storm Water Pollution Prevention Plan (SWPPP) shall be prepared for the project. Implementation of the SWPPP shall reduce the discharge of pollutants to the maximum extent practical using management practices, control techniques and systems, design and engineering methods, and such other provisions as are appropriate. A copy of the SWPPP shall be kept at the project site and shall be available to the County upon request.</p> <p>L-2, NPDES Permit (Caltrans Compliance). Prior to the issuance of grading permits, Caltrans shall comply with the provisions of the <i>National Pollutant Discharge Elimination System (NPDES) Permit Statewide Storm Water Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation Order No. 99-06-DWQ NPDES No. CAS000003</i>, as they relate to construction activities for the portion of the project within their jurisdiction. This shall include a <i>Notification of Construction</i> to the Central Coast Regional Water Quality Control Board at least 30 days prior to the start of construction, preparation and implementation of a Storm Water Pollution Prevention Plan, and a <i>Notice of Completion</i> to the CCRWQCB upon completion of</p>	
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<p>The proposed project will increase the amount of impervious surface in the project area, which has the potential to significantly impact water quality. For example, increasing the volume of runoff during a storm more effectively transports pollutants to receiving waters and may lead to downstream erosion. Pollutants of concern include sediments, trash, petroleum products, metals, and chemicals. In addition, an increase in impervious surface will alter the character of the runoff (from agricultural runoff to road/vehicular runoff) increasing the amount of pollutants that reach surface water and groundwater.</p> <p>The increase in pollutant loading resulting from the proposed project would be offset by the Construction BMPs and Treatment BMPs proposed as part of the project. Likewise, other projects in the Nipomo Mesa HSA are required to be reviewed by local, regional, and State jurisdictions and would be evaluated against requirements similar to those for the proposed project. Should similar procedures, as those that are being followed for the proposed project, be followed for future projects within the watershed area, the cumulative projects would not substantially impact surface water or groundwater quality. Therefore, the proposed project will not, either by itself or in combination with other reasonably foreseeable projects, contribute significantly to cumulative water quality impacts.</p>	<p>construction and stabilization of the site.</p> <p>L-3, Best Management Practices. Prior to construction, the County and Caltrans shall follow the procedures outlined in the <i>Storm Water Quality Handbooks, Project Planning and Design Guide</i> and other applicable County guidelines for implementing treatment best management practices (BMPs) for the project. This shall include coordination with the Central Coast Regional Water Quality Control Board (CCRWQCB) with respect to feasibility, maintenance, and monitoring of Treatment BMPs as set forth in the County's Storm Water Management Program and Caltrans <i>Statewide Storm Water Management Plan</i>.</p> <p>See Standard Procedures and Practices and Mitigation Measures L-1 through L-3 above.</p>	<p>Utilizing of Source Control or Structural BMPs and Treatment BMPs and adherence to County and Caltrans requirements as presented in Mitigation Measure L-3 will reduce the proposed project's potential adverse impacts to water quality after construction to a level that is less than significant (Class II Impact).</p> <p>By complying with all applicable ordinances, regional and State water quality programs, standard procedures and practices, and proposed mitigation measures, cumulative impacts on water quality will be less than significant (Class II Impact).</p>
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M. HAZARDOUS MATERIALS		
<p>Elevated levels of soil contaminants, such as lead, may be present along the shoulders of US 101 due to airborne deposition from automobiles. If elevated levels of lead are confirmed within the soils adjacent to US 101, this will not in itself pose a significant potential impact to human or environmental health. However, if these soils are disturbed during grading activities, ingestion or inhalation of airborne dust may pose a potential threat to human health.</p>	<p>M-1, Soil Contamination. To confirm whether lead contaminants are present in surface soils adjacent to US 101, soil sampling and testing shall be conducted by a County-approved soil scientist prior to any grading or construction activities. Should elevated levels of lead or petroleum contaminants be found, a Health and Safety Plan shall be prepared by a qualified individual approved by the County. Work practices and worker health and safety must conform to California Code of Regulations, Title 8, Section 1532.1 (Construction Safety Orders). The compliance program required under this section, which would include the health and safety plan, must be prepared by an industrial hygienist certified by the American Board of Industrial Hygiene. A qualified person who is capable of taking corrective action must monitor the compliance program/Health and Safety Plan.</p>	<p>Potential impacts from ingestion or inhalation of contaminated soils will be reduced to less than significant levels with implementation of Mitigation Measure M-1 (Class II Impact).</p>
<p>Asphalt roadways containing petroleum compounds and oil drippings may be a source of adjacent soils contamination. Oil drippings and petroleum compounds do not generally seep through the roadway and, therefore, are not considered to cause significant impacts from a local or regional perspective.</p>	<p>No mitigation measures necessary</p>	<p>No Impact (Class III Impact).</p>
<p>Pacific Gas & Electric (PG&E) owns and operates an underground natural gas pipeline adjacent to and west of US 101. Construction activities have the potential to impact this pipeline.</p>	<p>M-2, Pacific Gas & Electric Pipeline. The existing PG&E pipeline along the western side of US 101 will require special consideration during project grading activities associated with proposed Willow Road and interchange alignment. Optional design considerations include:</p>	<p>With the implementation of Mitigation Measure M-2, potential impacts to the PG&E pipeline will be reduced to a less than significant level (Class II Impact).</p>

<p>Two Unocal pipelines, designated as the Orcutt and Santa Maria oil pipelines, transverse the agricultural land between Thompson Avenue and US 101. If the pipelines are disturbed by grading activities or if any leaks are currently present, hydrocarbon contamination of the subsurface soils may cause significant impacts.</p>	<ul style="list-style-type: none"> • Avoidance of the existing pipeline; • Stabilization of the existing pipeline through strengthening materials; • Relocation of the existing pipeline outside of the axis of grading. <p>Project design and construction plans shall include specifications for the appropriate method to avoid or remedy any impact to the pipeline. If avoidance is not feasible, the County shall consult PG&E for appropriate means to ensure that the pipeline is stabilized and strengthened. If it is determined that the pipeline must be relocated, the County of San Luis Obispo will analyze for the potential environmental impacts (e.g. archaeological, biological, etc.) caused by relocating the line. A Relocation Analysis will be conducted prior to construction activities and the County will either redesign construction plans or provide adequate mitigation measures to reduce potential impacts to less than significant levels. The mitigation measures will meet the performance criteria established by PG&E and the State Fire Marshall for pipeline stability, security and proper function to prevent leakage or other hazardous effects.</p> <p>M-3, Unocal Pipelines. The two existing Unocal pipelines along the eastern alignment of US 101, east of Nipomo Creek and west of Thompson Avenue will require special consideration during project grading activities associated with proposed Willow Road and interchange alignment. Considerations include:</p> <ul style="list-style-type: none"> • Avoidance of the existing pipelines; 	<p>With the implementation of Mitigation Measure M-3 and M-4, potential impacts to Unocal pipelines will be reduced to a less than significant level (Class II Impact).</p>
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	<ul style="list-style-type: none">• Stabilization of the existing pipelines through strengthening materials;• Relocation of the existing pipelines outside of the axis of grading. <p>If the pipelines cannot be avoided, and stabilization of the lines is feasible, Unocal shall be consulted on appropriate means to stabilize the pipelines. If it is determined that one or both of the lines must be relocated, the County of San Luis Obispo will analyze for potential environmental impacts of relocating the line. A relocation analysis will be conducted prior to construction activities and the County will either redesign construction plans or provide adequate mitigation measures to reduce potential impacts to less than significant levels. The mitigation measures will meet the performance criteria established by Unocal and the State Fire Marshall for pipeline stability, security and proper function to prevent leakage or other hazardous effects.</p> <p>M-4, Unocal Pipeline Monitoring. Due to the potential impacts of a leaky or broken oil pipeline, the Unocal pipeline and surrounding areas shall be monitored by a County-designated monitor for the presence or absence of leaks and contaminants prior to project construction in the affected areas. If leaks or contaminants are detected, proper corrective actions shall be taken to comply with all regulatory codes. At a minimum, the contractor shall notify the County engineer and Unocal to turn off the line, as necessary; the affected soil shall be removed and monitoring shall be conducted in accordance with the County Environmental Health Department.</p>	
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<p>There are no known areas of naturally occurring asbestos in the project vicinity. In the unforeseen event of the discovery of ultramafic rock or asbestos containing materials during project construction, implementation of the County's Asbestos Dust Mitigation Program will reduce the impact to a less than significant level.</p>	<p>See Standard Condition D-2 above</p>	<p>With the implementation of Standard Condition D-2, potential impacts from naturally occurring asbestos will be less than significant (Class II Impact).</p>
<p>Activities at C&M Nursery include temporary soil and equipment storage. No hazardous materials were identified and no potential impacts are anticipated.</p>	<p>No mitigation measures necessary</p>	<p>No Impact (Class III Impact).</p>
<p>Pismo Flowers could potentially cause environmental concern because of the prior or current use of pesticides. However, because the nursery is 800 feet south of the project area, impacts related to exposure of hazardous substances will be less than significant.</p>	<p>No mitigation measures necessary</p>	<p>No Impact (Class III Impact).</p>
<p>Although oil and propane tanks were identified on private property west of US 101 and south of the proposed Willow Road alignment, no hazardous materials were identified or determined within the tanks and, therefore, no potential impacts are anticipated.</p>	<p>No mitigation measures necessary</p>	<p>No Impact (Class III Impact).</p>
<p>The proposed project would create an additional roadway and highway interchange, and hazardous materials could potentially be transported on the roadway. However, the Willow Road extension would be a two lane arterial classification, and the</p>	<p>No mitigation measures necessary</p>	<p>No Impact (Class III Impact).</p>

<p>majority of the hazardous material transport is on regional routes including US 101. Therefore, there would be no significant impact related to the transport of hazardous materials on the proposed road extension.</p> <p>Use of the proposed roadway and interchange would not emit hazardous emissions or involve hazardous materials handling.</p> <p>Vehicular use of the proposed roadway extension and interchange would increase the potential fire hazard along the roadway perimeter; however, this change would not constitute significant wildland fire danger, or a significant risk of loss, injury or death involving wildland fire generation.</p> <p>Although there are potential significant impacts associated with the disturbance of the Pacific Gas & Electric and Unocal pipelines, implementation of the mitigation measures described below will ensure that the proposed Willow Road Extension/US 101 Interchange project will not add significantly to cumulative impacts due to hazardous materials. Potential cumulative impacts from hazardous materials from the other development projects in the study area would require mitigation on a project by project basis.</p>	<p>No mitigation measures necessary</p> <p>No mitigation measures necessary</p> <p>No mitigation measures necessary</p>	<p>No Impact (Class III Impact).</p> <p>No Impact (Class III Impact).</p> <p>No Impact (Class III Impact).</p>
<p>N. SOCIO-ECONOMICS</p> <p>The proposed project will neither have any direct impacts on the community's population or housing nor will it directly generate any new commercial</p>	<p>No mitigation measures necessary</p>	<p>No significant direct impacts upon the population or housing inventory or upon the existing</p>

<p>uses or employment.</p> <p>The proposed project could indirectly lead to an increase in Nipomo’s population and housing in the following ways: Provision of roadway and access facilities, which can increase land values and create economic pressures to develop in areas served by or adjacent to these roadways; Project roadways offer a logical point for the extension of public utilities (water, sewer, storm, drain, energy) to serve project areas; and Project roadways remove an impediment to growth potentially hastening the conversion of vacant or existing agricultural land to more developed uses including additional housing. The potential of the proposed project to indirectly generate additional population and housing could be a significant impact.</p> <p>The proposed project facilities will, through reduced traffic volumes and congestion, improved access and reduced travel times, represent a beneficial economic impact upon existing businesses in the Nipomo area.</p> <p>Completion of the proposed project is not expected to result in any direct cumulative or regional impacts upon the existing population and housing inventory nor directly impact the existing economic profile of the Nipomo area. However, the project will contribute to the cumulative impacts upon Nipomo’s existing population and housing will</p>	<p>There are no specific mitigation measures to reduce the potentially significant indirect generation of housing and population in the project area that would be caused by the proposed project.</p> <p>No mitigation measures necessary</p> <p>There are no specific mitigation measures to reduce the potentially significant indirect generation of housing and population in the project area that would be caused by the proposed project.</p>	<p>economic profile of the Nipomo area is anticipated (Class III Impact).</p> <p>The indirect or growth-inducing impacts of the proposed project are considered to be potentially significant unavoidable adverse impacts that cannot be feasibly be mitigated (Class I Impact).</p> <p>Existing businesses in the Nipomo area will benefit from implementation of the proposed project through improved access (Class IV Impact).</p> <p>Cumulative impacts as a result of the project’s indirect growth-inducing impacts will be significant, unavoidable and adverse (Class I Impact).</p>
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occur as a result of the indirect growth-inducing impacts potentially caused by new roadways and access facilities.		
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Table II-2: Summary of Residual Impacts after Mitigation

Issue	Class I	Class II	Class III	Class IV
Land Use and Planning			X	
Traffic and Circulation		X		X
Noise	X	X	X	
Air Quality		X	X	X
Public Services		X	X	
Biological Resources	X	X	X	
Cultural Resources		X	X	
Agricultural Resources	X	X	X	
Aesthetics		X	X	
Geology and Soils		X	X	
Drainage, Erosion and Sedimentation		X	X	
Water Quality		X		
Hazardous Materials		X	X	
Socio-Economics	X		X	X

II.B. MITIGATION MONITORING PROGRAM

The purpose of a Mitigation Monitoring Plan is to provide a program to examine, document and record compliance with the environmental plans and specifications pertinent to the proposed project, in order to comply with Section 21081.6 of the California Environmental Quality Act (CEQA).

The following pages include summaries of the proposed mitigation measures associated with the proposed Willow Road Extension/US 101 Interchange project. Included with each mitigation measure is a short summary of the specific action needed to fulfill the mitigation measure as well as the milestone date and the agency/agencies responsible for mitigation monitoring. The Mitigation Monitoring Program is anticipated to reflect the requirements of AB 3180 (Cortese) ensuring a monitoring program for all prescribed mitigation measures. Responsibility for ensuring successful implementation of the Mitigation Monitoring Plan lies with the County of San Luis Obispo, as the project proponent and Lead Agency for the project under CEQA.

Mitigation monitoring will be carried out by the Environmental Programs Division of the County's Department of Public Works. The Environmental Programs Division provides environmental services to the Department of Public Works, including mitigation compliance and monitoring, with oversight by the County's Environmental Coordinator.

Upon Approval of the CEQA document, and issuance of all required permits, the Environmental Programs Division will assign internal responsibility for compliance with each mitigation measure to one or more members of the project team. Responsible parties include the Environmental Programs Division, the Project Manager (PM), the Resident Engineer (RE), and/or on-site monitors.

Environmental monitoring will be required throughout all phases of the proposed project. Prior to, and during construction, mitigation monitoring shall minimize potential impacts to environmental and cultural resources. Monitoring is also necessary to ensure and verify implementation of the mitigation measures prescribed in the Supplemental Environmental Impact Report. As the County of San Luis Obispo is the ultimate monitoring agency for many of the mitigation measures, the County shall designate one or more Environmental Compliance Monitor. These Monitor(s) will prepare project mitigation plans, maintain all documentation associated with non-compliance and monitoring reports, and report compliance status to the County and other agencies. In certain cases, a mitigation measure shall require the expertise of a biological or archeological monitor. These technical monitors shall evaluate mitigation measure plans and eventual compliance. In accordance with County standards compliance levels are classified as "Acceptable," "Advisory," and "Non-Compliance," (Level 1, 2, and 3 respectively). In the event of unanticipated negative environmental effects, the Environmental Compliance Monitor shall bring such actions to the attention of the County. Monitors have the authority to halt work in specific construction areas if immediate adverse environmental impacts or significant non-compliance is noted.

Compliance with mitigation measures is documented in the project file through written reports, accompanied by project photos where necessary. Post construction monitoring of revegetation and other project components is documented by yearly reports, on a schedule typically determined by one or more of the project permits. Depending on the complexity of the post construction mitigation effort, task will be carried out by county staff or technical experts under contract to the County. Post construction monitoring is typically conducted for three to five years, depending on permit requirements and success criteria.

Where necessary, construction personnel will be required to attend a crew orientation meeting. The meeting will be conducted by the RE and will be used to acquaint the construction crews with the environmental sensitivities of the project site. The orientation meeting shall place an emphasis on the need for adherence to the mitigation measures and permit conditions as well as the need for cooperation and communication among all parties concerned (i.e., RE, Environmental Programs Division, Environmental Coordinator, construction personnel) in working together to solve problems and arrive at solutions in the field.

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
A. LAND USE AND PLANNING			
See Agricultural Resources.			
B. TRAFFIC			
<p>B-1. Willow Road Facilities Design. Design features of the Willow Road facilities should not preclude a second ramp lane from being added to the US 101 northbound on- and off-ramps. Prior to approval of final design, the County Department of Public Works shall ensure that the design could accommodate such future ramp lanes.</p>	<p>Consideration of future ramp design at Willow Road/Northbound US 101</p>	<p>Prior to approval of final design</p>	<p>County of San Luis Obispo Environmental</p>
C. NOISE			
<p>C-1, Construction Hours. The County shall restrict construction activities to the hours between 7:00 a.m. and 9:00 p.m. on Monday through Friday and 9:00 a.m. to 5:00 p.m. on Saturdays and Sundays. This condition shall be included in the construction plan specifications.</p>	<p>Restrict construction hours to reduce noise impacts</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>C-2, Caltrans Sound Control Requirements. To minimize the construction related noise impacts for existing residences adjacent to the project site, the County shall ensure that the project follows Caltrans Standard Specifications, Section 7-10/I, "Sound Control Requirements." This condition shall be included in the construction plan specifications.</p>	<p>Adhere to Caltrans Standard Specifications, Section 7-10/I</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>C-3, Construction Noise Restrictions.</p> <p>a. The County shall ensure that the contractor shall provide training for all crew members regarding all requirements to minimize construction related noise impacts. This condition shall be included in the construction plan specifications.</p> <p>b. The County shall require the construction of temporary barriers where construction activities will be conducted near residential receptors, and where complaints have been received. This condition shall be</p>	<p>Training of construction crews and erecting temporary noise barriers to reduce noise impacts during construction</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
included in the construction plan specifications.			
C-4, Portable Equipment. The County shall ensure that portable equipment is located as far as possible from the noise sensitive locations as is feasible. This condition shall be included in the construction plan specifications.	Position portable equipment as far as possible from noise sensitive sites	During construction activities	County of San Luis Obispo Environmental
C-5, Staging Areas. The County shall ensure that the construction vehicle staging areas and equipment maintenance areas are located as far as possible from sensitive receptor locations. This condition shall be included in the construction plan specifications.	Staging and maintenance areas as far as possible from sensitive sites	During construction activities	County of San Luis Obispo Environmental
C-6, Internal Combustion Engine Mufflers. The County shall ensure that each internal combustion engine used for any purpose on the job or related to the job shall be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without the muffler. This condition shall be included in the construction plan specifications.	Require use of mufflers on internal combustion engine equipment	During construction activities	County of San Luis Obispo Environmental
C-7, Sound Barrier No. 1. The County shall build a sound wall 10 feet high and approximately 129 feet long within the proposed County right-of-way along the north side of Willow Road between Guadalupe and Pomeroy Road to protect receptor location #1 (R-1).	Construction of Sound Barrier No. 1	Prior to construction activities	County of San Luis Obispo Environmental
C-8, Sound Barrier No. 2. The County shall build a sound wall 8 feet high and approximately 318 feet long within the proposed County right-of-way along Willow Road west of Hetrick Avenue to protect receptor location #8 (R-8).	Construction of Sound Barrier No. 2	Prior to construction activities	County of San Luis Obispo Environmental
C-9, Sound Barrier No. 3. The County shall build a sound wall six feet high and approximately 259 feet long within the proposed County right-of-way along Cherokee Place east of Hetrick Avenue to protect receptor location #15 (R-15).	Construction of Sound Barrier No. 3	Prior to construction activities	County of San Luis Obispo Environmental
D. AIR QUALITY			
D-1, APCD Asphalt Paving Regulations. The construction contractor shall adhere to the	Adhere to rules and regulations	During construction	County of San Luis Obispo

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
requirements of APCD rules and regulations on cutback and emulsified asphalt paving materials. Prior to application, the County shall contact APCD for verification.	regarding asphalt and paving materials.	activities	Environmental
<p>D-2, Pre-Construction Asbestos Detection Program. Prior to the start of any construction activities, the County shall conduct borings in the project area to test for the occurrence of ultramafic or asbestos containing materials. In the event that ultramafic or asbestos containing materials are discovered, the County shall comply with all requirements outlined in the Asbestos ATCM for Construction, Grading, Quarrying and Surface Mining Operations. These requirements may include, but are not limited to preparation of: 1) an Asbestos Dust Mitigation Plan that shall be approved by the APCD before construction begins, and 2) an Asbestos Health and Safety Program in accordance with the California Air Resources Board regulations. This program shall be prepared and reviewed as part of the final plan check. This condition shall be included in the construction plan specifications.</p>	Test for the occurrence of ultramafic or asbestos containing materials	Prior to construction activities	County of San Luis Obispo Environmental
<p>D-3, Procedure for Handling Unanticipated Discoveries of Asbestos. In the event of the discovery of ultramafic or asbestos containing materials during construction, construction operations in the affected area should cease immediately and the County shall comply with all requirements outlined in the Asbestos ATCM for Construction, Grading, Quarrying and Surface Mining Operations. These requirements may include, but are not limited to preparation of: 1) an Asbestos Dust Mitigation Plan that shall be approved by the APCD before construction gets back underway, and 2) an Asbestos Health and Safety Program in accordance with the California Air Resources Board regulations. This program shall be prepared and reviewed as part of the final plan check. This condition shall be included in the construction plan specifications.</p>	Adhere to all requirements in Asbestos ATCM regarding ultramafic or asbestos containing materials	During construction activities	County of San Luis Obispo Environmental

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>D-4, ARB Certified Equipment. Maximize to the extent feasible the use of diesel construction equipment meeting the ARB's 1996 or newer certification standard for off-road heavy-duty diesel engines during any construction activities. This condition shall be included in the construction plan specifications.</p>	<p>Maximize the use of diesel equipment meeting ARB 1996 standard, or newer certification</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>D-5, Installation of Emission Reduction Devices. The contractors shall install diesel oxidation catalysts (DOC), catalyzed diesel particulate filters (CDPF), or other District-approved emission-reduction retrofit devices prior to construction activities. The ARB has recently verified DOC and CDPF systems for HD diesel vehicles. DOCs have control efficiencies on the order of 25 percent, while CDPFs can achieve diesel PM reductions of 85 percent or better. In general, DOCs are effective at reducing the fine particle component, while CDPFs are effective at reducing both the fine particle and larger black soot components. Manufacturer data indicates that both types of devices can reduce about 90 percent of CO emissions and 50 to 70 percent of ROG emissions, some being a portion of the diesel PM component. Some devices/systems are being developed that have the added benefit of being able to reduce NOx emissions. Determination of the appropriate CBACT control device(s) for the project must be performed in consultation with APCD staff. This condition shall be included in the construction plan specifications.</p>	<p>Installation of emission reduction devices</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>D-6, Construction Activity Management Plan. The contractor shall develop a comprehensive construction activity management plan designed to minimize the amount of large construction equipment operating during any given time period prior to construction activities. This condition shall be included in the construction plan specifications.</p>	<p>Develop construction activity management plan</p>	<p>Prior to and during construction activities</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>D-7, Construction Truck Trips. The contractor shall schedule construction truck trips during non-peak hours to reduce peak hour emissions prior to and during any construction activities. This condition shall be included in the construction plan specifications.</p>	<p>Schedule truck trips to reduce peak emissions</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>D-8, Construction Work-Day. The County shall limit the length of the construction work-day period, if necessary. This condition shall be included in the construction plan specifications.</p>	<p>Limit the length of the construction work-day</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>D-9, Construction Phasing. The County shall phase construction activities, if appropriate so that fugitive dust and other emissions being generated do not exceed daily thresholds. Construction phasing shall be planned and reviewed as part of the final design.</p>	<p>Phase construction activities</p>	<p>Prior to and during construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>D-10, PM₁₀ and Dust Emissions Reduction. Proper implementation of the following measures during construction activities will achieve a significant reduction in PM₁₀ emissions. All PM₁₀ mitigation measures required shall be included on grading and building plans. In addition, the contractor must designate a monitor for the dust control program and order increased watering, as necessary, to prevent transport of dust off site. Their duties shall include holidays and weekend periods when work may not be in progress. The name and telephone number of such persons shall be provided to the APCD prior to land use clearance for map recordation and land use clearance for finish grading of the structure.</p> <ul style="list-style-type: none"> a. Reduce the amount of the disturbed area where possible. b. Use water trucks or sprinkler systems to prevent airborne dust from leaving the site. Increase watering frequency whenever wind speed exceeds 15 mph. Reclaimed (nonpotable) water should be used 	<p>Reduction in PM₁₀ including specific measures and steps to accomplish reduction of emissions.</p> <p>Adhere to APCD CEQA Air Quality Handbook and CBACT</p>	<p>Prior to and during construction activities</p>	<p>County of San Luis Obispo Environmental</p> <p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>whenever possible.</p> <p>c. Spray all dirt stock-pile areas daily as needed.</p> <p>d. Implement permanent dust control measures identified in the approved project revegetation and landscape plans as soon as possible following completion of any soil-disturbing activities.</p> <p>e. Sow exposed ground areas that are planned to be reworked at dates more than one month after initial grading with a fast-germinating native grass seed, and water until vegetation is established.</p> <p>f. Stabilize all disturbed soil areas not subject to revegetation using approved chemical soil binders, jute netting, or other methods approved in advance by the APCD.</p> <p>g. Complete all roadways, driveways, sidewalks, etc., to be paved as soon as possible. In addition, lay building pads as soon as possible after grading unless seeding or soil binders are used.</p> <p>h. Construction vehicles shall not exceed a speed of 15 mph on any unpaved surface at the construction site. SLOAPCD CEQA Air Quality Handbook 2003</p> <p>i. Cover trucks hauling dirt, sand, soil, or other loose materials or maintain at least two feet of freeboard (minimum vertical distance between top of load and top of trailer) in accordance with CVC Section 23114.</p> <p>j. Install wheel washers where vehicles enter and exit unpaved roads, or wash off trucks and</p>			

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>equipment leaving the site.</p> <p>k. Sweep streets at the end of each day if visible soil material is carried onto adjacent paved roads. Use water sweepers with reclaimed water where feasible.</p> <p>The construction contractor shall adhere to the requirements of APCD CEQA Air Quality Handbook to reduce fugitive dust emissions. The Best Available Control Technologies for construction equipment (CBACT) shall be adhered to during the project construction.</p>			
<p>D-11, Well -Tuned, Efficient Equipment. Prior approval of any grading permits, the construction contractor shall select the construction equipment used on site based on low emission factors and high energy efficiency. The contractor shall also ensure that all construction equipment is maintained in proper tune according to manufacturer's specification prior to and during any construction activities. The County shall ensure that construction grading plans include a statement that all construction equipment will be tuned and maintained in accordance with the manufacturer's specifications.</p>	<p>Use well tuned and efficient construction equipment</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>D-12, Alternative-Fuel-Powered Equipment. The construction contractor shall utilize electric or alternative-fuel powered equipment in lieu of gasoline and diesel powered engines where feasible during construction activities. This condition shall be included in the construction plan specifications.</p>	<p>Use electric or alternative-fuel powered equipment</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>D-13, ARB-Certified Fuel. The contractor shall ensure that all off-road and portable diesel powered equipment, including but not limited to bulldozers, graders, cranes, loaders, scrapers, backhoes, generator sets, compressors, auxiliary power units, are powered with ARB-certified motor vehicle diesel fuel (non-taxed version suitable for off-road use) during any construction activities. This condition shall be included in the</p>	<p>All diesel powered equipment uses ARB-certified fuel</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
construction plan specifications.			
D-14, Equipment Shut Off. Prior to approval of grading permits, the construction contractor shall ensure that construction grading plans include a statement that work crews will shut off equipment when not in use. This condition shall be included in the construction plan specifications.	Shut off equipment when not in use	Prior to Plan approval and during construction activities	County of San Luis Obispo Environmental
D-15, Construction Timing. During construction activities, the construction contractor shall time the construction activities so as not to interfere with peak hour traffic and to minimize obstruction of through traffic lanes adjacent to the site; if necessary, a flag-person shall be retained to maintain safety adjacent to existing roadways. This condition shall be included in the construction plan specifications.	Construction activity shall be timed as to not occur during peak hours	During construction activities	County of San Luis Obispo Environmental
D-16, Ridesharing. The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew during construction activities. This condition shall be included in the construction plan specifications.	Support ridesharing	During construction activities	County of San Luis Obispo Environmental
<p>The following standard conditions for construction equipment are recommended but are not mandatory.</p> <ul style="list-style-type: none"> • Electrify equipment where feasible. • Substitute gasoline-powered for diesel-powered equipment, where feasible. • Use equipment that has Caterpillar pre-chamber diesel engines. <p>Implement activity management techniques as described in Section 6.4, pages B-2 and B-3 in Appendix D (Air Quality Assessment).</p>			
E. PUBLIC SERVICES			
E-1, Emergency Access. The San Luis Obispo County Sheriff's Department shall review final project design plans of all project facilities and shall advise the County Public Works Department as to adequate emergency access and surveillance needs for Sheriff patrol cars. The County Public Works	County of San Luis Obispo Sheriff's Department shall review and advise on final project design	Prior to approval of final project design plans	County of San Luis Obispo Environmental

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
Department shall submit the final design plans to the Sheriff's Department prior to approval of final project design plans.			
E-2, Fuel Reduction. Prior to the approval of final project design plans of all project facilities, a Fuel Reduction Plan shall be submitted to the San Luis Obispo County Fire Department by the County Public Works Department for review and approval. This plan will provide for adequate brush clearance and vegetation removal pursuant to Fire Department and California Department of Forestry standards while preserving as much of the natural habitat as possible. This plan shall also provide a long-term maintenance program for these cleared areas.	A fuel reduction plan shall be sent to the San Luis Obispo County Fire Department for review and approval	Prior to approval of final project design plans	County of San Luis Obispo Environmental
E-3, Existing Service Mains. The County Department of Public Works shall submit the final project design plans to the Southern California Gas Company, Pacific Gas and Electric Company, the Nipomo Community Services District, Pacific Bell, State of California, Department of Water Resources and the local cable television provider for review no less than 90 days prior to construction in order to identify the location of existing service mains, provide for and necessary relocation of facilities and prevent any unexpected service interruptions.	Final project design plan shall be submitted to local utilities	On or before 90 days, prior to construction activities	County of San Luis Obispo Environmental
E-4, Construction Notification. The County Department of Public Works shall ensure that all project plans and specifications include the following note: "Please telephone Underground Service Alert (USA) toll free at 1-800-642-2444 forty-eight hours prior to the start of construction. For best response, provide as much notice as possible, up to ten working days". This notification will allow adequate time to locate and mark existing utility facilities.	Project plans include notification instructions for utilities	Prior to approval of final project design plans	County of San Luis Obispo Environmental
E-5, Stockpiling of Cut Soils. Prior to stockpiling of soil from project generated activities, the County Department of Public Works shall ensure that a designated soil stockpile location will be reviewed for	Designate a stockpile location that avoids sensitive resources	Prior to construction activities	County of San Luis Obispo Environmental

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
sensitive resources prior to placement of any soils.			
F. BIOLOGICAL RESOURCES			
<p>F-1, Construction Fencing. All construction-related activities shall be confined to the proposed boundaries by installing construction fencing along the boundary prior to any ground disturbance to prevent any construction activities from encroaching into adjacent areas. All construction staging will occur within the proposed roadway or in existing developed areas as these areas are less likely to contain habitat suitable for sensitive species. Project construction plans shall include this measure in the specifications. All fencing shall remain in good working order for the duration of all construction-related activities. All-weather signs stating “Sensitive Area – Stay Out” shall be posted every 50 feet.</p>	Fencing shall be installed along construction boundaries	Prior to and during construction activities	County of San Luis Obispo Environmental
<p>F-2, Project Biologist. Prior to initiating construction, the California Department of Transportation (Caltrans) and the County shall designate a qualified project biologist responsible for overseeing biological monitoring, regulatory compliance, and restoration activities in association with project construction in accordance with the adopted mitigation measures and applicable law.</p>	A project biologist shall be designated to oversee monitoring and compliance	Prior to construction activities	County of San Luis Obispo Environmental; Caltrans
<p>F-3, Biological Monitor. Prior to initiating construction, the County shall designate a qualified biologist to monitor all construction activities within and adjacent to native habitats to ensure that construction does not encroach into these areas.</p>	Designate a biological monitor	Prior to construction activities	County of San Luis Obispo Environmental
<p>F-4, Vegetation Removal Restriction/Nesting Birds. During construction, vegetation removal or construction activities shall not occur during the primary nesting season for local birds (April 1–August 31) where oak woodlands, wetlands, and maritime chaparral occur on, or adjacent to, the proposed project. If vegetation removal or construction activities must occur</p>	Remove vegetation outside of the breeding/nesting period (April 1-August 1)	During construction activities	County of San Luis Obispo Environmental

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>in these areas during this period, then preconstruction surveys shall be conducted in the appropriate habitats within and adjacent to the project boundary to identify nesting birds within or adjacent to the proposed project. If active nests are observed within or adjacent to the project boundary then a buffer is required until either the young have fledged or the nest becomes inactive. The preconstruction survey limits and buffer shall be designated by the project biologist prior to construction in the affected nesting areas. Limits and buffers shall be clearly marked in the field and shown on applicable construction plans.</p>			
<p>F-5, Monitoring Reports. During construction, the project biologist shall provide quarterly monitoring reports documenting compliance with the avoidance and minimization measures, and shall submit the mitigation report to Caltrans, the County, and the appropriate resource agencies. All recommended remedial work shall be completed within 30 days of identification unless the qualified biologist determines another time is more biologically appropriate.</p>	<p>Submit quarterly biological monitoring reports</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental; Caltrans</p>
<p>F-6, Avoidance of Work During the Rainy Season. Construction activities in the Nipomo Creek area shall occur outside the rainy season to minimize sedimentation within the drainage. Project construction plans shall include this measure in the specifications.</p>	<p>Construction activities shall occur outside the rainy season</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>F-7, Sensitive Habitat Buffers. Permanent fences or other approved methods (such as planting suitable native trees and shrubs in the buffer area between the side of the road and native habitats) shall be used to discourage off-road disturbance from pedestrians and vehicles in sensitive habitat areas. Project construction plans shall include these measures in the specifications.</p>	<p>Buffers shall be placed to protect sensitive habitat</p>	<p>Prior to and during construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>F-8, Non-Native Vegetation Removal. The construction contractor and project biologist shall ensure that no nonnative plant material shall be brought onto the construction site.</p>	<p>Non-native or exotic vegetation shall not be brought on the</p>	<p>Prior to and during construction activities</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>Due to the vegetative reproduction characteristics of the species in Table C of the Biological Resources Analysis (Appendix E) any occurrence of these species shall be removed from the site prior to vegetation-clearing activities at the direction of the project biologist. In addition, the potential for contribution of funds to programs, such as the removal of invasive species from riparian habitats like Nipomo Creek, should be considered in the mitigation and monitoring plan. The following measures shall be used as applicable to minimize impacts from non-native vegetation:</p> <ul style="list-style-type: none"> • Prior to exotic plant removal, the County shall retain a qualified biologist to conduct focused protocol surveys to determine the presence or absence of sensitive species within the area slated for exotic vegetation removal. • If sensitive species are observed within the areas slated for exotic vegetation removal, then consultation with the USFWS shall be required prior to implementing any work activities. • Exotic weed removal shall be completed during the fall and winter months. All material removed shall be bagged and disposed of at a landfill. • All exotic weed removal activities shall be monitored by a qualified biologist. • The County shall ensure that the habitat enhancement site is kept free of exotic reintroduction for a period of five years following the completion of the exotic plant removal. • All seed mixes used for erosion control purposes shall be native or considered non-aggressive by a qualified biologist and shown on all applicable plans. 	<p>construction site and existing populations shall be documented and eventually removed</p>		

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>F-9, Preconstruction Surveys. The project biologist shall perform preconstruction surveys in appropriate habitats, within and adjacent to the project boundary, for sensitive species, such as the California horned lizard. If sensitive species are found within the preconstruction survey area, a biological monitor (qualified to handle species, when required), designated by the County, should be present during vegetation clearing and grading activities to capture and relocate any sensitive wildlife species.</p>	<p>Preconstruction surveys for sensitive species</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>F-10, Bat Biologist. As the project area has the potential to provide suitable bat habitat, during the spring and summer (May–August) and prior to vegetation removal or alteration of existing structures, the County shall designate a qualified bat biologist to survey all potential roosting habitat proposed for removal by the proposed construction.</p> <p>If a roost is found, the bats shall be discouraged from returning to their roosting area and the resource removed immediately so that the bats cannot return and would be forced to find alternative roost sites. Since each roost situation is different, the qualified bat biologist shall determine the manner of exclusion. Tree removal shall be completed between September and November or March to April to avoid hibernating bats (December–February) and maternity season (May–August) if feasible. If tree removal must occur during hibernating or maternity season, then the designated qualified bat biologist shall conduct surveys prior to tree removal to determine if hibernating or maternity bats are present within or adjacent to the project limits. The limits of the buffer will be determined by the bat biologist. If they are present, then the bat biologist shall designate a buffer around the location where tree removal cannot occur until the bats have finished hibernating or the young have left the roost. If hibernating or maternity bats are not</p>	<p>A bat biologist shall survey during spring and summer</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>

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present, then tree removal shall be initiated within 30 days of the survey.			
<p>F-11, Temporary and Long-Term Lighting Minimization. During construction, if deemed necessary by the project biologist, lighting screens shall be used to reduce light pollution during evening construction. In addition, construction crews shall also reduce the number of times the lights are turned on and off to avoid sudden changes that may disturb wildlife and/or wildlife movement. The use of long-term lights on the proposed road shall be minimized to reduce impacts of the proposed road on sensitive wildlife species. Any lights at the interchange shall contain low light features where feasible, including (1) low-intensity street lamps, (2) lower elevation street poles, or (3) shielding by internal silvering of globes or external opaque reflectors.</p>	<p>The light intensity on the proposed road shall be reduced</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>F-12, Pismo Clarkia Surveys. The final project boundary shall be surveyed by the project biologist as designated by the County, during the blooming period for Pismo clarkia (May–July) prior to issuing the construction contract. If surveys locate Pismo clarkia within the portion of the project with federal involvement then a Biological Assessment would need to be prepared and submitted to the USFWS and CDFG and applicable requirements of the Federal and California Endangered Species Acts would need to be met prior to any construction or site preparation activities. A preservation plan shall be prepared that, at a minimum, would result in no net loss of the plant. If the Pismo clarkia is observed in the remaining project boundaries, the appropriate permit must be obtained from the CDFG.</p>	<p>The final project boundaries shall be surveyed for Pismo clarkia and reports shall be submitted to resource agencies</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>F-13, California Red-Legged Frog. Construction activities in the Nipomo Creek area shall occur outside the rainy season to ensure that the proposed project will not impact the California red-legged frog. If construction must occur during the rainy</p>	<p>If construction occurs during the rainy season, onsite surveys for red-legged frogs shall be</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>

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<p>season, then focused protocol surveys shall be conducted within and adjacent to the project area to determine whether this species is present. If red-legged frogs are found within the project limits, additional measures shall be developed in coordination with the USFWS to avoid impacts to this species during construction. These measures shall include the preparation and implementation of a Storm Water Pollution Prevention Plan (SWPPP) and Best Management Practices (BMPs).</p>	<p>conducted. If surveys find red-legged frogs in the project limits, additional measures will be required to avoid impacting the species.</p>		
<p>F-14, Trash Disposal. The contractor shall ensure that trash and debris deposits adjacent to native habitats shall be disposed of daily during construction to reduce impacts to sensitive habitats, such as maritime chaparral and oak woodland. Project construction plans shall include this measure in the specifications.</p>	<p>Trash and debris shall be removed on a daily basis</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>F-15, Oak Tree Replacement. Mitigation for removal or damage of oak trees must be accomplished by replacing trees removed or damaged at a ratio in accordance with the County of San Luis Obispo standards. The County of San Luis Obispo recommends a 4:1 replacement of oak trees greater than 6 inches diameter at breast height (dbh) removed by development activities. Impacted or damaged trees shall be replaced at a 2:1 ratio. When work under drip-lines cannot be avoided, all limb trimming and root cutting shall follow good arborists' practices. An oak tree replacement plan shall be prepared along with the Habitat Creation, Conservation and Enhancement Plan described below prior to project grading for review and approval of the County of San Luis Obispo, Department of Planning and Building with the intent of successfully reestablishing the removed or damaged oak trees. At a minimum, the plan shall (a) identify the number of oak trees to be removed and impacted, (b) specify the number and location of oak trees to be planted, (c) provide replanting in compatible</p>	<p>Removed or damaged oak trees shall be replaced</p> <p>Conduct final count of oak trees and their diameters</p>	<p>Prior to, during, and subsequent to construction activities</p> <p>Prior to Construction</p>	<p>County of San Luis Obispo Environmental</p> <p>County of San Luis Obispo Environmental</p>

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<p>areas near project facilities, and (d) identify all areas to be permanently set aside for oak replacement. Oak trees removed or damaged by project activities must be replaced by locally collected acorns or other propagules, preferably collected from within the area of the proposed construction. Final numbers of oak trees and corresponding diameters shall be assessed prior to the start of construction based on final design.</p>			
<p>F-16, Habitat Creation, Conservation, and Enhancement Plan. A Habitat Creation, Conservation and Enhancement Plan shall be prepared to mitigate maritime chaparral and oak woodland habitats, as well as any riparian habitats associated with Nipomo Creek, impacted or removed during construction in accordance with agency and County requirements. This Habitat Creation, Conservation and Enhancement Plan shall be prepared and at least initially implemented prior to initiation of construction. The plan shall discuss not only the creation, conservation, or enhancement of habitat, but the re-creation, conservation, or enhancement of the original ecological function of habitats impacted by the project. To accomplish this, the plan shall include identification of areas where native habitats are to be restored, conserved, or enhanced or other means of ensuring no net loss of sensitive native habitats. In addition, this plan shall identify the potential occurrence of the sensitive plant species such as sand almond, sand mesa manzanita, and California spineflower to provide the opportunity to include the mitigation for project-related impacts to these sensitive botanical resources.</p> <p>Three options have been identified to mitigate for impacts to oak woodland and maritime chaparral. These options include habitat creation, habitat conservation and habitat enhancement all of which may be used individually or in combination to fulfill the</p>	<p>A Habitat Restoration and Enhancement Plan shall be prepared identifying sensitive species and restoration measures</p>	<p>Prior to, construction activities</p>	<p>County of San Luis Obispo Environmental</p>

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<p>mitigation requirements for the impacts to both the sensitive habitat types and individual oak trees associated with this project. The following mitigation ratios shall be applied for the various options:</p> <ul style="list-style-type: none"> • Habitat creation shall be implemented at a 1:1 ratio. This option provides an opportunity to replace impacted chaparral and fulfill the County tree replacement standards by planting oak trees for habitat creation. • Sensitive habitat conservation shall be implemented at a 1:1 ratio. In addition, enhancement of the area set aside for conservation with new plantings provides an opportunity to fulfill the County tree replacement standard, as long as other existing sensitive habitats are not displaced from planted trees at maturity. • Habitat enhancement shall be implemented at a 2:1 ratio as this option includes sensitive habitats that are already been owned by the County and preserved that are not part of any other mitigation program. This option may provide an opportunity to fulfill the County tree replacement standards by planting oak trees where existing habitat is considered degraded or non-native. <p>Additional details, as described below, shall be incorporated into the plan where applicable to assist in the success of each of the mitigation options.</p> <p><u>Habitat Creation</u></p> <ul style="list-style-type: none"> • Oak trees should be replaced using locally collected acorns or other propagules, preferably collected from within the area of the proposed construction. • Sensitive plant species, including sand almond, sand mesa manzanita, and 			

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<p>California spineflower shall be propagated from local seed stock, preferably from seed or propagules salvaged from within the proposed alignment.</p> <ul style="list-style-type: none"> • Sufficient topsoil shall be stockpiled for use in the revegetation areas. • Grazing or other vegetation-disturbing activities shall not be permitted within areas proposed as mitigation. • These areas would be set aside in perpetuity after creation. • Monitoring by a qualified individual for no less than three years. <p><u>Habitat Conservation</u></p> <ul style="list-style-type: none"> • A conservation easement shall be selected to preserve a larger area of high-quality sensitive habitat that contains the same sensitive species, specifically the sand almond, sand mesa manzanita, and California spineflower, at similar population levels as will be impacted by the proposed project. • The development rights of the property shall be relinquished to another entity that has its primary purpose the preservation, protection, or enhancement of land in its natural condition or use; the CDFG; or to another State or local government entity if otherwise authorized to acquire and hold title to real property. • The easement should be created in such a way that further impact to sensitive species cause by edge effects are reduced and the ratio of surface area to the perimeter of conserved habitats is maximized. In this way, the area can provide suitable foraging and nesting habitat for native species. • Once a suitable site for land acquisition is found, a biological assessment of the resources present on site shall be performed, 			

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<p>and a report shall be generated that includes information on the baseline environmental data on the property.</p> <ul style="list-style-type: none"> The County Department of Public Works will be responsible for keeping track of the land, resources, and monitoring efforts and provide this information to the Planning and Building Department (Environmental Division). <p><u>Habitat Enhancement</u></p> <ul style="list-style-type: none"> Oak trees shall be replaced using locally collected acorns or other propagules, preferably collected from within the area of the proposed construction. As with habitat creation, the sensitive plant species including sand almond, sand mesa manzanita, and California spineflower shall be propagated from local seed stock, preferably from seed or propagules salvaged from within the proposed alignment. These areas would be monitored by a qualified individual for no less than 3 years and set aside in perpetuity after enhancement. 			
<p>F-17, Conditions of Approval to Address Impacts to Jurisdictional Waters. To reduce impacts to riparian habitats and associated drainages subject to Corps and/or CDFG jurisdiction, the following are required:</p> <ul style="list-style-type: none"> A U.S. Army Corps of Engineers (Corps) authorization pursuant to Section 404 of the Clean Water Act is required for any discharge of dredge or fill material into jurisdictional areas of Nipomo Creek. A Section 1602 Streambed Alteration Agreement with the California Department of Fish and Game (CDFG) will be required in the event of any alteration of Nipomo Creek or the associated riparian 	<p>Appropriate permits and approvals shall be obtained to address impacts to jurisdictional waters and riparian habitats</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>vegetation.</p> <ul style="list-style-type: none"> To obtain the Corps permit and CDFG streambed alteration agreement, a Habitat Mitigation and Monitoring plan shall be prepared by a qualified biologist for any impacts to areas subject to state or federal jurisdiction. There are no predetermined ratios for habitat replacement. The nature and extent of habitat replacement is determined on a regular case by case basis. Generally, habitat replacement ratios exceed 1 to 1 in order to compensate for the gradual nature of revegetation and off-site habitat replacement. As the vegetation within the Nipomo Creek crossing is degraded, this plan may include additional restoration either upstream or downstream of Nipomo Creek. If this type of restoration is not possible within the adjacent reaches of Nipomo Creek, the County shall contribute to a restoration program of the Nipomo Watershed at the replacement ratio established by the permit. Restoration within the watershed will result in the replacement of jurisdictional habitat lost by the proposed project. The mitigation plan must be submitted to the agencies for their approval, along with the permit applications. 			
<p>F-18, SWPPP and BMPs. Construction activities within or adjacent to drainages and Nipomo Creek (including roadside ditches that discharge to Nipomo Creek) should occur outside the rainy season (October–May) to ensure that construction activities do not cause sedimentation of the creek. If construction must occur during the rainy season, then the SWPPP shall be prepared and construction site BMPs shall be installed before any construction begins to include measures to keep sediment out of Nipomo creek during storm events (for example, excavation spoils being stored and trapped outside the creek, and siltation basins installed</p>	<p>If construction occurs during rainy season, a SWPPP shall be prepared and BMPs shall be installed</p>	<p>Prior to construction activities during rainy season</p>	<p>County of San Luis Obispo Environmental</p>

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down-gradient). In addition, the SWPPP and BMPs will identify measures to restrict dust.			
F-19, Construction Equipment Staging. No fueling, lubrication, storage, or maintenance of construction equipment within 46 meters (150 feet) of CDFG or Corps jurisdictional areas shall be permitted, which includes riparian and sensitive habitats. Spoil sites shall not be located within CDFG and Corps jurisdictional areas, including riparian and sensitive habitats, or in areas where it could be washed into Nipomo Creek.	Construction staging shall not occur within 46 meters of CDFG and Corps jurisdictional areas	During construction activities	County of San Luis Obispo Environmental
F-20, Creek Crossing Lighting. The use of lights on the proposed creek crossing shall be minimized to reduce impacts on wildlife movement under the crossing. No artificial lighting shall be installed or used in or around the bridge/culvert unless otherwise required to meet Caltrans approval. If lights are required for the crossing, a biologist shall be retained to assist in the creation of a lighting plan design. Low-light features shall be used where feasible, including: (1) low-intensity street lamps, (2) lower elevation street poles, or (3) shielding by internal silvering of globes or external opaque reflectors. This measure shall be included on the construction specifications.	Lighting on Willow Road over Nipomo Creek shall be minimized	Prior to final design approval and construction activities	County of San Luis Obispo Environmental
F-21, New Bridge. Prior to project design plan approval, the County of San Luis Obispo Public Works Department shall ensure that the design of the new bridge over Nipomo Creek shall include solid concrete railing, which decreases noise from traffic. In addition, the proposed Nipomo Creek crossing shall have an earthen bottom and the vegetation within the channel will be replanted with native species after construction is completed.	Design of new bridge over Nipomo Creek shall include specific characteristics	Prior to final design approval and construction activities	County of San Luis Obispo Environmental
F-22, Dust Control Program. The County and construction contractor shall ensure that a dust control program is in place during construction so that native trees and shrubs are not damaged due to dust covering the leaves. A maximum speed limit of 15 miles	Implement a dust control program	Prior to and during construction activities	County of San Luis Obispo Environmental

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per hour will be posted on all construction routes. Watering trucks shall be used regularly with sufficient frequency to eliminate visible dust behind construction vehicles.			
F-23, Speed Limits. The construction contractor shall ensure that all construction personnel obey speed limit rules both along public roads and designated project access. Driving off designated project routes shall not be permitted. This measure shall be included in the construction plan specifications.	A speed limit shall be enforced within the project area and project access roads	During construction activities	County of San Luis Obispo Environmental
F-24, Pollution Prevention. The County and construction contractor shall ensure that pollution prevention practices shall be employed to prevent contamination of native habitats by construction-related materials. All project-related trash shall be collected and properly disposed of at the end of each work day. This measure shall be included in the construction plan specifications.	Pollution prevention practices shall be used to prevent contamination of native habitats	During construction activities	County of San Luis Obispo Environmental
F-25, Best Management Practices. The County and construction contractor shall ensure that Best Management Practices (BMPs) are employed to minimize erosion from the construction of project facilities and deposition of soil or sediment in off-site areas, especially in the vicinity of the riparian/wetlands areas associated with Nipomo Creek, east of US 101. This measure shall be included in the construction plan specifications. Specific water quality BMPs are specified in Section V.L.5 of this EIR.	BMPs shall be employed to reduce erosion and deposition of soil	Prior to and during construction activities	County of San Luis Obispo Environmental
G. CULTURAL RESOURCES			
G-1, Archaeological Monitoring Plan. Prior to initiating construction, the County Department of Public Works shall prepare a monitoring plan with written procedures for archaeological resource monitoring. The County has the responsibility for ensuring that sites to be preserved in place are not impacted by construction activities, for evaluating unanticipated discoveries, and for providing recommendations on the subsequent treatment of such discoveries. This plan shall include	An archeological monitoring plan shall be developed and a post-grading report shall be prepared	Prior to, during, and subsequent to construction activities	County of San Luis Obispo Environmental

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<p>procedures for protecting sites that are to be preserved in place and for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of newly-discovered resources as appropriate. As part of the monitoring program, the County shall involve local Native Americans. If the archaeological resources are found and determined to be significant, the County will determine appropriate actions for their exploration and data recovery. The County shall prepare excavated material to the point of identification.</p> <p>Following the completion of grading, the County Department of Public Works shall prepare a report detailing the results of the monitoring program to be presented to the County Department of Planning and Building. A copy of the final report should also be submitted to the Central Coast Information Center at the University of California, Santa Barbara. The report shall follow the guidelines of the California Office of Historic Preservation (1990) <i>Archaeological Resource Management Reports (ARMR)</i>. Excavated finds shall be offered for curatorial purposes to the San Luis Obispo County Archaeological Society or another qualified scientific institution.</p>			
<p>G-2, Data Recovery Plan. Prior to initiating construction, the County Department of Public Works shall prepare and execute a data recovery plan. The plan shall include a background section discussing the resource, present a research design that addresses important questions, and present appropriate methods for the collection of relevant data. This plan shall follow the guidelines of the California Office of Historic Preservation (1991). The data recovery plan shall be developed in consultation with the County Department of Planning and Building.</p>	<p>A data recovery plan shall be developed by a qualified archaeological consultant</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>Following the development of the data recovery plan, the County shall conduct the research program described in the plan. The County shall prepare excavated material to the point of identification. Following completion of the field and laboratory work, the County shall produce a report detailing the results of data recovery. A copy of the final report shall also be submitted to the Central Coast Information Center at the University of California, Santa Barbara. The report shall follow the guidelines of the California Office of Historic Preservation (1990) ARMR. Excavated finds shall be offered for curatorial purposes to the San Luis Obispo County Archaeological Society or another qualified scientific institution.</p>			
<p>G-3, Pre-Construction Archaeological Workshop. An archaeological workshop shall be conducted at the pre-construction meeting for construction personnel under the supervision of the County Department of Public Works. This workshop shall educate construction personnel about what types of cultural materials may be encountered during construction excavation. A procedure for notification of a qualified archaeologist about accidental discoveries and a communication network shall be developed so that if any suspected cultural materials are unearthed in areas not being monitored, they can be quickly examined and evaluated by qualified archaeologist and appropriate recommendations made. This workshop shall be repeated as needed for construction workers not attending pre-construction meetings and prior to their beginning any grading work.</p>	<p>A pre-construction archeological training session will be scheduled for construction personnel</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>G-4, Procedure for Handling Unanticipated Discoveries. If any cultural or paleontological material is unearthed during grading or excavation associated with the project, work in that area shall be halted until such material can be examined by the County and appropriate recommendations made.</p>	<p>Construction shall be halted in an area where cultural materials are unearthed</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental</p>

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<p>G-5, Procedure for Handling the Discovery of Human Remains. If human remains are encountered during grading or excavation associated with the project, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of the origin and disposition of the materials pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC). The NAHC will determine and notify a Most Likely Descendent (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The descendent must complete the inspection within 24 hours of notification by the NAHC. The MLD may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials.</p>	<p>Notify the County Coroner if human remains are found</p>	<p>During construction activities</p>	<p>County of San Luis Obispo Environmental; Archeological Consultant</p>
<p>G-6, Paleontological Resource Impact Mitigation Program. Prior to initiating construction, a County approved project paleontologist shall prepare a Paleontological Resource Impact Mitigation Program (PRIMP) for ensuring that paleontological resources are kept below a level of significance. The PRIMP shall include the following steps:</p> <ul style="list-style-type: none"> • The project paleontologist shall prepare a map to show where grading to depths below six feet would occur within Pleistocene formations, which is of primary concern for paleontological resources; • A trained paleontological monitor shall be present during rough grading below a depth of six feet and within Pleistocene sediments to the final depth of excavation for the entire length of the road alignment. 	<p>A Paleontological Resource Impact Mitigation Program shall be prepared</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>

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<p>The monitor will be empowered to temporarily halt or redirect construction activities to ensure avoidance of adverse impacts to paleontological resources. The monitor will be equipped to rapidly remove any large fossil specimens encountered during excavation. During monitoring, samples will be collected and processed to recover microvertebrate fossils. Processing will include wet screen washing and microscopic examination of the residual materials to identify small vertebrate remains;</p> <ul style="list-style-type: none"> • Upon encountering a large deposit of bone, salvage of all bone in the area will be conducted in accordance with modern paleontological techniques; • All fossils collected during the project will be prepared to a reasonable point of identification. Excess sediment or matrix will be removed from the specimens to reduce the bulk and cost of storage. Itemized catalogs of all material collected and identified will be provided to the museum repository along with the specimens; • A report documenting the results of the monitoring and salvage activities and the significance of the fossils will be prepared; • All fossils collected during this work, along with the itemized inventory of these specimens, will be deposited in a museum repository for permanent curation and storage. 			
H. AGRICULTURAL RESOURCES			
<p>H-1, Agricultural Vehicle Crossings. The County of San Luis Obispo Department of Public Works shall ensure that, as part of project design, all project roadways which traverse any lands under cultivation shall provide an adequate number of at-grade agricultural vehicle crossings. These concrete road crossings shall be striped and marked</p>	<p>Provide an adequate number of at-grade agricultural vehicle crossings on roads that traverse agricultural land</p>	<p>During project design and prior to construction plan approval</p>	<p>County of San Luis Obispo Environmental</p>

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with appropriate signage to warn motorists of the potential for agricultural vehicles on the roadway and shall be located to provide safe vehicle sight distance.	under cultivation		
H-2, Williamson Act Notice. Prior to completion of right-of-way acquisition, the County of San Luis Obispo shall prepare all required notices pursuant to Section 51291 of the Williamson Act for any roadways within established agricultural preserves.	Williamson Act notices shall be prepared	Prior to completion of right of way acquisition	County of San Luis Obispo Environmental
H-3, Cattle Undercrossing. Prior to initiating construction, the County of San Luis Obispo Department of Public Works shall contact property owners utilizing the existing cattle undercrossing. If the facility is still in use at that time, the County must provide a separate cattle undercrossing to allow unimpeded access through the interchange. If this is not possible, the County shall purchase the access rights to the cattle undercrossing.	A separate cattle-crossing shall be provided or the County shall purchase access rights to existing cattle-crossing	Prior to construction activities	County of San Luis Obispo Environmental
I. AESTHETICS			
I-1, Revegetation Plan. All slopes and areas disturbed by grading for any proposed project facilities shall be planted with drought resistant vegetation immediately following construction. A Revegetation Plan shall be prepared for approval by the County of San Luis Obispo, Department of Planning and Building prior to project grading. This plan shall specify the type and location of re-vegetation for all slopes and areas disturbed by grading for any of the project facilities. Larger shrubs and trees shall be planted in groupings or clusters in the vicinity of US 101 in order to buffer views from the freeway and to shield external views of the proposed interchange facility while also providing adequate line-of-sight for motorists. Sufficient topsoil will be stockpiled for use in all re-vegetation areas. The re-vegetation is intended to buffer views of project facilities while also providing adequate line-of-site for motorists. The location and type of vegetation are also important in screening facilities while also maintaining scenic background views.	A revegetation plan shall be prepared for approval by the County	Prior to construction activities	County of San Luis Obispo Environmental

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<p>I-2, Project Lighting. All project lighting shall comply with requirements of the County of San Luis Obispo while also conforming to the type of lighting and extent of illumination currently employed by the California Department of Transportation. To the extent allowed, illumination levels and light standard heights shall be as low as possible while still providing for adequate safety. The number of street lights designed for project roadways shall be minimized to reduce potential light and glare impacts while providing required illumination for access and safety. Lighting plans shall be included in the project design plans to be reviewed by the County Department of Planning and Building.</p>	<p>Project lighting shall comply with County and Caltrans requirements</p>	<p>Prior to final design approval</p>	<p>County of San Luis Obispo Environmental</p>
<p>I-3, Downward Shielding of Light Sources. All street and interchange lighting shall be designed in a manner which orients light downward and is shielded to prevent upward and side illumination. Where possible, all exterior lighting should involve low pressure sodium vapor lamps or equivalent lighting technology which reduces potential excess light and glare.</p>	<p>Street and interchange lights shall be designed to prevent upward and side illumination</p>	<p>Prior to final design plan approval</p>	<p>County of San Luis Obispo Environmental</p>
<p>J. GEOLOGY AND SOILS</p>			
<p>J-1, Conformance to Applicable Standards. Project design and grading plans prepared by the Project Engineer shall conform to applicable County and State Construction Standards for roads and bridges. These standards must be implemented in the plans prior to County approval of the final plans, specifications, and estimates (PS&E).</p>	<p>Design and grading plans shall conform to applicable standards</p>	<p>Prior to approval of final design plans</p>	<p>County of San Luis Obispo Environmental; State Inspector</p>
<p>J-2, Project Design Assumptions. Project design shall assume that project facilities will be exposed to ground shaking commensurate with a Maximum Credible Earthquake. These design specifications shall be incorporated in the design plan prepared by the Project Engineer prior to County approval of the PS&E.</p>	<p>The project design shall prepare for exposure to Maximum Credible Earthquake</p>	<p>Prior to approval of final design plans</p>	<p>County of San Luis Obispo Environmental</p>
<p>J-3, Recommendations of the Geotechnical Engineer. The recommendations of a design-level geotechnical investigation performed by</p>	<p>Recommendations provided by a Geotechnical</p>	<p>Prior to approval of final design</p>	<p>County of San Luis Obispo Environmental</p>

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<p>a qualified Geotechnical Engineer shall be implemented in the design plan prepared by the Project Engineer prior to County approval of the final PS&E. These recommendations will include detailed geologic investigations related to liquefaction, lateral spreading, and collapsible/expansive soils.</p>	<p>Engineer shall be incorporated into project design</p>	<p>plans</p>	
<p>J-4, Mitigation of Potentially Liquefiable Soils. If areas of potentially liquefiable soils are identified during design-level geotechnical investigations, appropriate design measures shall be implemented in the design plan prepared by the Project Engineer prior to County approval of the final PS&E. These design measures will include:</p> <ul style="list-style-type: none"> • Realign interchange to avoid liquefiable soil; • Elevate the roadway on a compacted fill embankment; • Densify liquefiable soils by accepted ground improvement methods including deep dynamic compaction or installation of stone columns. <p>Any project design modifications that expand the physical area of effect beyond the project limits as defined in this EIR will require subsequent environmental review and analysis by the County to conform to the requirements of CEQA.</p>	<p>Identification of liquefiable soils shall be accompanied by appropriate design measures</p>	<p>Prior to approval of final design plans</p>	<p>County of San Luis Obispo Environmental</p>
<p>J-5, Mitigation of Potentially Collapsible Soils. If any potentially collapsible soil is identified during design-level geotechnical investigations, the affected area shall be temporarily flooded with water by the Project Engineer or Project Contractor to induce collapse before construction. This requirement shall be shown on all applicable construction plans.</p>	<p>Potentially collapsible soils shall be flooded</p>	<p>During design-level geotechnical investigations, prior to construction</p>	<p>County of San Luis Obispo Environmental</p>
<p>J-6, Mitigation of Potentially Expansive Soils. If any potentially expansive soil is identified during design-level geotechnical investigations, appropriate measures shall be implemented in the design plan prepared by</p>	<p>Potentially expansive soils shall be identified and appropriate design measures</p>	<p>Prior to approval of final design</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>the Project Engineer prior to County approval of the final PS&E. These measures will include:</p> <ul style="list-style-type: none"> • Remove and replace any excessively expansive material identified; • Water, condition, and control compaction of fill; and • Establish positive drainage to suitable points in a controlled manner without ponding. 	<p>shall be implemented</p>		
<p>J-7, Mitigation of Landslides. Landsliding potential of cut/fill slopes associated with the US 101 interchange can be reduced by implementing the following measures in the design plan prepared by the Project Engineer prior to County approval of the final PS&E:</p> <ul style="list-style-type: none"> • Design the freeway structures to withstand the maximum credible earthquake; • Construct fill and/or cut slopes no steeper than 2:1 (horizontal:vertical); • Establish vegetation along slopes immediately after construction pursuant to County requirements; • If required vegetation is not fully established by the beginning of the rainy season, additional erosion control measures shall be installed along slopes prior to the season and any rain events pursuant to County requirements; and • Plant native drought-resistant vegetation which requires limited irrigation pursuant to County requirements. 	<p>The possibility of landslides shall be reduced by including appropriate design measures</p>	<p>Prior to final design approval</p>	<p>County of San Luis Obispo Environmental</p>
<p>J-8, Mitigation of Potential Erosion. To control potential erosion, all slopes and areas disturbed by grading for any proposed project facilities shall be planted with native drought resistant vegetation by the County's designated landscape contractor immediately following each applicable phase of construction.</p>	<p>Drought resistant vegetation shall be planted on slopes to reduce erosion</p>	<p>Immediately following construction phases</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>J-9, Erosion Control Maintenance. Periodic maintenance of areas disturbed by construction of project facilities shall be conducted during and after project construction by the Project Contractor in order to control erosion gullying and wind erosion.</p>	<p>Periodic maintenance of disturbed areas shall be conducted</p>	<p>During and after construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>K. DRAINAGE EROSION SEDIMENTATION</p>			
<p>K-1, Construction During the Dry Season. Prior to approval by the County, the final PS&E for the project shall specify that construction of any project facilities within or adjacent to Nipomo Creek east of the proposed US 101 interchange will take place during the dry season. As defined by County Land Use Ordinance Section 22.05.036, this season occurs between April 15 and October 15.</p>	<p>Construction of project facilities east of US 101 interchange shall occur during dry season</p>	<p>Prior to approval of final design plans</p>	<p>County of San Luis Obispo Environmental</p>
<p>K-2, Erosion Control Plan for Rainy Season Construction. Prior to approval of any grading plan or permit by the County, the project engineer shall complete an erosion control plan for any construction proposed to occur during the rainy season. The plan shall provide methods for controlling erosion, including—but not limited to—erosion fencing, hay bales, temporary siltation basins, and erosion control blankets. This plan shall conform to Section 22.05.036 of the County Land Use Ordinance. Replacement vegetation and landscaping should be planted sufficiently in advance of October 15 to allow plant roots time to become established and effectively protect the soil.</p>	<p>An Erosion Control Plan specific to the rainy season shall be developed</p> <p>Install Replacement vegetation and landscaping</p>	<p>Prior to approval of grading plans</p> <p>Prior to Oct. 15</p>	<p>County of San Luis Obispo Environmental</p> <p>County of San Luis Obispo Environmental</p>
<p>K-3, Erosion Control Plan for Dry Season Construction. Prior to approval of any grading plan or permit by the County, the project engineer shall complete an erosion control plan for any construction on Nipomo Mesa proposed to occur during the dry season. This plan shall provide methods for controlling wind erosion, including—but not limited to—using a water truck to apply water to disturbed and unvegetated surfaces. This</p>	<p>An Erosion Control Plan specific to the dry season shall be developed</p>	<p>Prior to approval of grading plans</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
plan shall conform to Section 22.05.036 of the County Land Use Ordinance.			
K-4, Monitoring of Project Area. Following completion of each project construction phase, the County monitor shall evaluate the area following storms to determine whether additional work must be done to stabilize areas subject to surface erosion. The County monitor shall document the post-storm condition of areas susceptible to erosion.	A need for additional maintenance shall be determined following each construction phase	Following completion of each project construction phase	County of San Luis Obispo Environmental
K-5, Design of Equestrian Trails. Prior to approving a final PS&E for construction of the equestrian trails located adjacent to the proposed road extension, the County shall require that the PS&E specify the use of compacted native soils (where appropriate), Class 3 aggregate base materials, or similar long-lasting products to minimize erosion on the trail surfaces.	Equestrian Trail design shall include long-lasting material to minimize erosion	Prior to final design approval	County of San Luis Obispo Environmental
L. WATER QUALITY			
L-1, NPDES Permit (County Compliance). Prior to the issuance of grading permits, the County shall ensure that the project complies with the State General Construction Activity NPDES Permit. The construction contractor shall demonstrate to the County that coverage has been obtained under the State General Construction Activity NPDES Permit by providing a copy of the Notice of Intent (NOI) submitted to the State Water Resources Control Board (SWRCB) and a copy of the subsequent notification of the issuance of a Waste Discharge Identification (WDID) number or other proof of filing. In accordance with the permit, a Storm Water Pollution Prevention Plan (SWPPP) shall be prepared for the project. Implementation of the SWPPP shall reduce the discharge of pollutants to the maximum extent practical using management practices, control techniques and systems, design and engineering methods, and such other provisions as are appropriate. A copy of the SWPPP shall be kept at the project site and shall be available to the County upon request.	An NPDES permit shall be obtained. Notices shall be provided and a SWPPP shall be prepared	Prior to grading plan approval	County of San Luis Obispo Environmental

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>L-2, NPDES Permit (Caltrans Compliance). Prior to the issuance of grading permits, Caltrans shall comply with the provisions of the <i>National Pollutant Discharge Elimination System (NPDES) Permit Statewide Storm Water Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation Order No. 99-06-DWQ NPDES No. CAS000003</i>, as they relate to construction activities for the portion of the project within their jurisdiction. This shall include a <i>Notification of Construction</i> to the Central Coast Regional Water Quality Control Board at least 30 days prior to the start of construction, preparation and implementation of a Storm Water Pollution Prevention Plan, and a <i>Notice of Completion</i> to the CCRWQCB upon completion of construction and stabilization of the site.</p>	<p>Caltrans shall comply with NPDES statewide permit requirements</p>	<p>Prior to approval of grading plans</p>	<p>County of San Luis Obispo Environmental; Caltrans</p>
<p>L-3, Best Management Practices. Prior to construction, the County and Caltrans shall follow the procedures outlined in the <i>Storm Water Quality Handbooks, Project Planning and Design Guide</i> and other applicable County guidelines for implementing treatment best management practices (BMPs) for the project. This shall include coordination with the Central Coast Regional Water Quality Control Board (CCRWQCB) with respect to feasibility, maintenance, and monitoring of Treatment BMPs as set forth in the County's Storm Water Management Program and Caltrans <i>Statewide Storm Water Management Plan</i>.</p>	<p>BMPs shall be implemented by the County and Caltrans</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>M. HAZARDOUS MATERIALS</p>			
<p>M-1, Soil Contamination. To confirm whether lead contaminants are present in surface soils adjacent to US 101, soil sampling and testing shall be conducted by a County-approved soil scientist prior to any grading or construction activities. Should elevated levels of lead or petroleum contaminants be found, a Health and Safety Plan shall be prepared by a qualified</p>	<p>Soil sampling and testing shall be conducted</p> <p>A Health and Safety Plan shall be prepared if elevated levels of</p>	<p>Prior to grading or construction activities</p> <p>Prior to grading or construction activities</p>	<p>County of San Luis Obispo Environmental and a qualified monitor for the compliance program/Health and Safety Plan</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>individual approved by the County. Work practices and worker health and safety must conform to California Code of Regulations, Title 8, Section 1532.1 (Construction Safety Orders). The compliance program required under this section, which would include the health and safety plan, must be prepared by an industrial hygienist certified by the American Board of Industrial Hygiene. A qualified person who is capable of taking corrective action must monitor the compliance program/Health and Safety Plan.</p>	<p>contaminants are found</p>		
<p>M-2, Pacific Gas & Electric Pipeline. The existing PG&E pipeline along the western side of US 101 will require special consideration during project grading activities associated with proposed Willow Road and interchange alignment. Optional design considerations include:</p> <ul style="list-style-type: none"> • Avoidance of the existing pipeline; • Stabilization of the existing pipeline through strengthening materials; • Relocation of the existing pipeline outside of the axis of grading. <p>Project design and construction plans shall include specifications for the appropriate method to avoid or remedy any impact to the pipeline. If avoidance is not feasible, the County shall consult PG&E for appropriate means to ensure that the pipeline is stabilized and strengthened. If it is determined that the pipeline must be relocated, the County of San Luis Obispo will analyze for the potential environmental impacts (e.g. archaeological, biological, etc.) caused by relocating the line. A Relocation Analysis will be conducted prior to construction activities and the County will either redesign construction plans or provide adequate mitigation measures to reduce potential impacts to less than significant levels. The mitigation measures will meet the performance criteria established by PG&E and the State Fire Marshall for pipeline</p>	<p>Relocation, stabilization or avoidance of the PG&E pipeline shall be determined</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
<p>stability, security and proper function to prevent leakage or other hazardous effects.</p>			
<p>M-3, Unocal Pipelines. The two existing Unocal pipelines along the eastern alignment of US 101, east of Nipomo Creek and west of Thompson Avenue will require special consideration during project grading activities associated with proposed Willow Road and interchange alignment. Considerations include:</p> <ul style="list-style-type: none"> • Avoidance of the existing pipelines; • Stabilization of the existing pipelines through strengthening materials; • Relocation of the existing pipelines outside of the axis of grading. <p>If the pipelines cannot be avoided, and stabilization of the lines is feasible, Unocal shall be consulted on appropriate means to stabilize the pipelines. If it is determined that one or both of the lines must be relocated, the County of San Luis Obispo will analyze for potential environmental impacts of relocating the line. A relocation analysis will be conducted prior to construction activities and the County will either redesign construction plans or provide adequate mitigation measures to reduce potential impacts to less than significant levels. The mitigation measures will meet the performance criteria established by Unocal and the State Fire Marshall for pipeline stability, security and proper function to prevent leakage or other hazardous effects.</p>	<p>Relocation, stabilization or avoidance of the Unocal pipeline shall be determined</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>
<p>M-4, Unocal Pipeline Monitoring. Due to the potential impacts of a leaky or broken oil pipeline, the Unocal pipeline and surrounding areas shall be monitored by a County-designated monitor for the presence or absence of leaks and contaminants prior to project construction in the affected areas. If leaks or contaminants are detected, proper corrective actions shall be taken to comply with all regulatory codes. At a minimum, the</p>	<p>The presence or absence of leaks or contaminants in the Unocal Pipeline shall be determined</p>	<p>Prior to construction activities</p>	<p>County of San Luis Obispo Environmental</p>

Mitigation Measure Summary	Specific Action	Mitigation Milestone	Responsible Monitoring Party
contractor shall notify the County engineer and Unocal to turn off the line, as necessary; the affected soil shall be removed and monitoring shall be conducted in accordance with the County Environmental Health Department.			
N. SOCIO-ECONOMICS			
No mitigation measures feasible.			

II.C. ISSUES RAISED BY AGENCIES AND THE PUBLIC

In June 2004, the County of San Luis Obispo distributed a Notice of Preparation (NOP) of the SEIR. The purpose of the NOP was to identify the full range and scope of environmental issues to be examined in the SEIR. A public meeting was held during the public review period of the NOP to provide a forum for public input. Issues raised in response to the NOP and at the public meeting are listed below, including the source and date of the comment received.

Respondent	Date	Concern
U.S. Department of Homeland Security/FEMA	June 30, 2004	Development may require FIRM ¹ revision; Development must comply with County Flood Prevention Ordinance.
U.S. Department of Commerce NOAA/NMFS	June 15, 2004	Project impacts on steelhead and their habitat must be addressed.
U.S. Army Corps of Engineers	June 2, 2004	Development may require Corps of Engineers Section 404 Permit
County of San Luis Obispo Public Works Department	July 7, 2004	Location of proposed recreation trail must be determined.
Michael Winn, Nipomo	June 9, 2004	Phase 3 (US 101-Thompson Road) should be eliminated because of impacts to agricultural land, floodplain & riparian habitat
Jeanne Dougall, Arroyo Grande	June 9, 2004	Northbound ramps are being built years after southbound ramps yet they are needed equally.
State of California, Department of Water Resources	June 28, 2005	The County should be aware that the project area is in close proximity to the existing Coastal Aqueduct Pipeline and should contact the Department of Water Resources to coordinate any foreseeable work within the State Water Project right of way.

II.D. ISSUES TO BE RESOLVED

The following issue related to the proposed project remains to be resolved:

Approval of the proposed project interchange design and appurtenant facilities by the California Department of Transportation and Federal Highways Administration.

¹ Federal Insurance Rate Map