# **County of Santa Barbara Department of Public Works, Transportation**

# **Proposed Final Mitigated Negative Declaration**

# Kinevan Road Bridge 51C-214 Replacement Project 13NGD-00000-00002 SCH#2013031069 March 2013



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# **1.0 INTRODUCTION**

## **1.1 PURPOSE AND LEGAL AUTHORITY**

The California Environmental Quality Act (CEQA) requires that local, regional, and state agencies and special purpose districts prepare an Initial Study to identify potential environmental impacts associated with discretionary actions. An Initial Study is generally used to determine if significant impacts would occur, and to determine the need for preparation of either a Negative Declaration or further analysis in an EIR. The Santa Barbara County Public Works Department has prepared this Initial Study for the proposed replacement of the Kinevan Road bridge (51C-214) at San Jose Creek to comply with the provisions of CEQA.

## **1.2 PROJECT PROPONET**

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## **1.3 PROJECT BACKGROUND**

Kinevan Road is an east-west oriented, mountainous, rural collector road that that begins at its junction with West Camino Cielo Road approximately .22 miles west of the State Highway 154, and extends approximately one mile northwest and then turns back east roughly paralleling Highway 154 where it connects with the intersection of Stage Coach Road and State Highway 154. Bridge 51C-214 lies near the mid-point of Kinevan Road and crosses San Jose Creek. The exact age of the original bridge is unknown but likely was first built in 1886 as part of the Summit house and toll gate which was part of the original Col. Freemont trail of 1846. County bridge inspection records from 1968 describe the bridge as in fair condition. By 1978 the bridge was so deteriorated that a load limit was placed on it by the County Board of Supervisors of 8 tons per vehicle weight. Priority was given to strengthen the bridge for heavier loads due to possible fire access problems. In 1981, the bridge was reconstructed in its present day configuration with wooden deck timbers and concrete reinforced wing walls and abutments. Due to excessive decay in the bridge stringers in 2006 the bridge was determined to be structurally deficient with a sufficiency rating of 32.5 on a 100 scale. In 2011 the structure again had load limits placed on it and was determined to be eligible for replacement under the Federal Highway Bridge Replacement Program.

## **1.4 PROJECT LOCATION**

The bridge is located near the summit of San Marcos Pass (also known as State Highway 154), off Stagecoach Road on Kinevan Road (Figure 1). Kinevan Road connects to Stagecoach Road approximately 500 feet south of the intersection of Stagecoach Road and Highway 154. The bridge is located approximately one quarter mile from the intersection of Kinevan and Stagecoach Roads (Figure 2).

## **1.5 PROJECT OBJECTIVES**

The objective of the project is to improve the safety and reliability of the Kinevan Road bridge crossing San Jose Creek. The replacement of the bridge is funded under the Federal Highway Bridge Program and the Highway Toll Credit Program.

## **1.6 PROJECT APPROVALS AND PERMITS**

Project implementation may require the County to obtain permits and other forms of approval from Federal and State agencies. These agencies may include, but are not limited to the following:

#### 1.6.1 Federal Agencies

• No Federal permits are required as there is no construction activity within the creek bed and there are no federally listed species in the project vicinity.

#### 1.6.2 State Agencies

• California Department of Fish and Wildlife Streambed Alteration Agreement will be required for temporary impacts to riparian trees and the substantial changes to the creek bed caused by shading from the increased width of the bridge deck.

#### 1.6.3 Local Agencies

• Santa Barbara County Public Works Department requires a roadway encroachment permit for contractors to work within the County owned right of way.

## **1.7 PUBLIC COMMENTS**

In compliance with Section 15703 of the State Guidelines for the implementation of the California Environmental Quality Act, the Santa Barbara County Public Works Department accepted written comments on the adequacy of the information contained in the Draft MND during the public review period which ended on April 24, 2013.

One comment letter was received from the following party:

• Native American Heritage Commission

Section 15074(b) of the State Guidelines for the Implementation of the California Environmental Quality Act, requires the decision-making body to consider comments received on the MND when approving a project. The comment letter from the Native American Heritage Commission has been provided as Attachment A to the DFMND. No changes to the DFMND were warranted and no response to the public comment letter was provided.

## 2.0 PROJECT DESCRIPTION

Santa Barbara County is proposing to replace the Kinevan Road bridge (51C-214) over San Jose Creek, located on Kinevan Road, 1/2 mile west of State Route 154. The existing bridge is structurally deficient with a sufficiency rating of less than 50 which qualifies it to be replaced using Highway Bridge Program funding. Due to the constraints of the narrow approach roadways, the new bridge will need to be replaced essentially on the same alignment. The replacement plan is to leave the existing abutments, creek channel walls and wing walls in place avoiding any work within the creek channel. The new bridge will be longer than the existing bridge in order to place the new foundations in a location that spans over the creek, existing abutment and wing walls.

The existing bridge 51C-214 is a single-span bridge with timber stringers and a wood deck, it is approximately 1'-9" deep, 15'-6" wide and 24'-0" long with cut stone abutments and wing walls. The abutments and wing walls support the existing structure and are serving as the creek channel walls underneath the bridge.

The new bridge will be approximately 46.5 feet long, 22 feet wide and 17 inches deep with brown powder coated metal tube bridge railings. The bridge deck will be pre-cast and pre-stressed concrete with a polyester concrete overlay. The new foundation will consist of Cast in Drill Hole (CIDH) footing drilled into rock within the existing paved roadway. The approach road will be raised approximately one foot to conform with the new bridge and will be reconstructed with asphalt concrete for 60 feet on the northern approach and 110 feet on the eastern approach to correct the existing reverse super-elevation of the bridge conform to the roadway.

Total grading of the project is estimated to be 145 cubic yards. Approximately 45 cubic yards for roadway excavation and 100 cubic yards of cut for the bridge structure, with a maximum cut of eight feet in the paved roadway for the new CDIH foundations. Approximately 125 cubic yards of earth and rock material is projected to be exported from site and 20 cubic yards used as fill material.

Seven trees will be removed: one multi-trunked alder (trunk DBHs = 18", 18', 12", and 12"), one coast live oak (*Quercus agrifolia*) 7" DBH, however, it is being severely girdled by three strands of barbed fencing wire, three multi-trunked California bays (DBHs of 12', 8", and 6"; 4" and 4"; 8" and 8"), one 6" California bay, and one 4" bigleaf maple. Of those trees, only the multi-trunked alder is located within the creek bank, the other tree removals are required for proper sight distance and maintaining access to the private road and driveway. Most of the vegetation removal will consist of non-native species. Soil compaction is unlikely because most areas in the Project Impact Area (PIA) have already been disturbed and are already subject to vehicle and equipment travel. Permanent disturbance will be limited to the areas taken up by new railing posts (20 square feet) and by increases in paved road shoulders for bridge conforms of 658 square feet (0.0151 acres). Of the 1498 square feet (0.0344 acres) of impacts to natural communities and land uses, 840 square feet (0.0193 acres) will be temporary and 658 square feet (0.0151 acres) will be permanent. No impacts will occur to wetlands or waters of the U.S.. Biological monitoring will take place throughout the project. On site monitoring would include a worker education presentation, pre-construction surveys and monitoring during construction by a qualified biologist.

The project area will be restored after construction by a qualified restoration biologist. Plantings will consist of native trees and shrubs found in the local area with an extensive effort to remove non-native and invasive species. A compost blanket will be utilized on all disturbed areas. The restoration plan will be developed to meet the requirements of the California Department of Fish and Wildlife (CDF&W) Lake and Streambed Alteration Agreement (LSAA) for the project.

Kinevan Road will be closed just east of the bridge for the new bridge construction. The easterly portion and a portion of the north approach of Kinevan Road will be used for staging, stock piling and vehicle parking. Project plans depicting the bridge layout and impacts areas are shown in Figure 4 and 5. Preliminary construction plans (65%) are attached in Appendix 12.3.

# 2.1 SITE LOCATION MAP FIGURE 1



# 2.2 SITE PHOTOGRAPHS FIGURE 2



Eastern side creek channel view upstream

Western side creek bank view downstream



Eastern approach to Bridge 51C-214



Western approach to Bridge 51C-214

# 2.3 AERIAL PHOTOGRAPH FIGURE 3



## 2.4 BRIDGE LAYOUT FIGURE 4



2.5 BRIDGE LAYOUT FIGURE 5. Impact area subject to grading and erosion control measures



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	Site Information					
Comprehensive Plan	Rural, Existing Developed Rural Neighborhood, Residential Ranchette, Bridge 51C-					
Designation	214 is between AP	PN 153-808-022 & 002 in the Second Supervisorial District				
Zoning District, Ordinance	Santa Barbara Cou	nty Land Use Development Code, RR-20. Rural Residential				
	with a minimum	lot size of 20 acres.				
Site Size	Project area less that	an one acre				
Present Use & Development	Santa Barbara County Public Road Right of Way					
Surrounding Uses/Zoning	North: Existing Developed Rural Neighborhood					
	South: Existing De	eveloped Rural Neighborhood				
	East: Existing Dev	eloped Rural Neighborhood				
	West: Existing De	veloped Rural Neighborhood				
Access	Bridge 51C-214 s	pans San Jose Creek on Kinevan Road				
Public Services	Water Supply	N/A				
	Sewage:	N/A				
	Fire:Santa Barbara County Fire Department, Fire Station #12					
	Other: Goleta Union Elem. school district; Santa Barbara High School					
	District					

# **3.0 ENVIRONMENTAL SETTING**

# 3.1 PHYSICAL SETTING

All proposed construction would occur within the existing roadway right-of-way of Kinevan Road. However construction access and staging may cause partial disruptions to the driveway access of one adjacent parcel on Kinevan Road:

• APN 153-080-022, 15 Kinevan Road, 39.75 acres, zoned Residential Ranchette (RR-20); land use designation is Existing Developed Rural Neighborhood.

The immediate project area is rural and mountainous with residential homes in an area comprised of larger parcels from 39.75 acres to approximately 3 acres. The topography is generally steep along the sides of Kinevan Road. San Jose Creek runs along Kinevan Road and supports an oak woodland and riparian habitat along the creek banks. The general area along San Marcos Pass and West Camino Cielo was once frequented by the Chumash Indians and there are many known archeological sites including cave paintings. Kinevan Road is likely part of the original Col. Freemont trail of 1846 and was later used as the stage coach route from Santa Barbara to Santa Ynez in the 1880's.

The Biological Study Area (BSA) for the Kinevan Road bridge project covers 2.64 acres or 114,998 square feet of two natural communities and two land uses. The area within the BSA subject to both permanent and temporary disturbance is referred to as the Project Impact Area (PIA) and covers 0.0363 acres or 1581 square feet.

## **3.2 OTHER PENDING AND APPROVED DEVELOPMENT**

## **3.2.1 Santa Barbara County**

The following list of projects was obtained from Santa Barbara County Planning and Development cumulative projects list (dated June 2012) for the South Coast, detailing projects within approximately a four mile radius of the project in the unincorporated Goleta and Santa Barbara areas.

**Galbraith Lot Split**: Tentative Parcel Map 14,571 for a lot split into 2 lots. 08TPM-00000-00011 Residential, Tentative Parcel Map in process. APN 153-131-007.

**Painted Cave Mutual Water Company Tank Replacement**. Project to replace existing water storage tanks. 09CUP-00000-00018, Commercial, approved Minor Conditional Use Permit. APN 153-131-002.

Section 15355 of the State CEQA Guidelines states that "cumulative impacts refers to two or more individual effects which when considered together are considerable or which compound or increase other environmental impacts." Further, "the individual effects may be changes resulting from a single project or a number of separate projects", and "the cumulative impact from several projects is the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects." "Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time."

# 4.0 POTENTIALLY SIGNIFICANT EFFECTS CHECKLIST

The following checklist indicates the potential level of impact and is defined as follows:

**Potentially Significant Impact:** A fair argument can be made, based on the substantial evidence in the file, that an effect may be significant.

**Less Than Significant Impact with Mitigation:** Incorporation of mitigation measures has reduced an effect from a Potentially Significant Impact to a Less Than Significant Impact.

**Less Than Significant Impact:** An impact is considered adverse but does not trigger a significance threshold.

**No Impact:** There is adequate support that the referenced information sources show that the impact simply does not apply to the subject project.

**Reviewed Under Previous Document:** The analysis contained in a previously adopted/certified environmental document addresses this issue adequately for use in the current case and is summarized in the discussion below. The discussion should include reference to the previous documents, a citation of the page(s) where the information is found, and identification of mitigation measures incorporated from the previous documents.

Wi	ll the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	The obstruction of any scenic vista or view open to the public or the creation of an aesthetically offensive site open to public view?				Х	
b.	Change to the visual character of an area?			X		
c.	Glare or night lighting which may affect adjoining areas?				X	
d.	Visually incompatible structures?				X	

# 4.1 AESTHETICS/VISUAL RESOURCES

**Existing Setting:** The project site is located approximately .27 miles east of the intersection of State Highway 154 and Stage Coach Road in an existing developed rural area surrounded by the Los Padres National Forest. The project site is within a travel corridor in an area with a designed scenic value level of "One-Most Scenic" in the Open Space Element of the Santa Barbara County Comprehensive Plan. State Highway 154 is designated as a "scenic highway". Kinevan Road bridge 51C-214 is not visible from the State Highway 154, as it is lower in elevation, in a canyon and is completely obscured by a live oak woodland and steep topography. The County's Visual Aesthetics Impact Guidelines classify mountainous areas and travel corridors as "especially important" visual resources. The project will not impact important visual resources, obstruct public views, substantially alter the natural character of the landscape or involve extensive grading visible from public areas. Public views from the roadway are limited to immediately neighboring properties and are dominated by steep slopes covered in an oak woodland forest which precludes most skyline major features.

## **Impact Discussion:**

- a. The proposed replacement bridge would be constructed at the same location and elevation as the existing bridge and would not block public views or create an aesthetically offensive site. The project will call for vegetation removal in the immediate project area and for periodic heavy equipment activity over the construction period which may degrade the visual quality of the views along Kinevan Road. This impact is considered less than significant due to the very small area affected and to the fact that none of the disturbance would be visible from State Highway 154. Graded areas will treated with a compost blanket and a native seed mix and then will be replanted with native vegetation.
- b. The installation of the bridge deck and road shoulder widening requires the removal of seven trees along the side of Kinevan Road. These trees would be visible to users of Kinevan Road such as motorists, bicyclists and pedestrians. These trees are generally small and under the oak and riparian canopy, the removals may temporarily degrade the visual quality of Kinevan Road. All trees will be replaced as part of a habitat restoration plan to satisfy the CDF&W LSAA or 1602 permit. However, the large number of existing trees and remaining thick tree canopy would obscure the loss of the trees. Therefore, this impact to visual quality is considered less than significant.

- c. Project related construction activities will not require any night lighting. There will be no increase in ambient light level at the residences along Kinevan Road.
- d. The proposed replacement bridge would be constructed at the same location with roughly the same alignment and configuration. The only difference is the new bridge deck would be pre-cast and pre-stressed concrete with a polyester concrete overlay rather than wood. Therefore, the new bridge would be compatible with adjacent land uses.

#### Mitigation and Residual Impact:

No mitigation measures are required. The project would not create any significant project-specific aesthetic impacts or substantially contribute to cumulative impacts. Residual impacts would be less than significant.

# 4.2 AGRICULTURAL RESOURCES

Will the proposal result in:		Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Convert prime agricultural land to non-agricultural use, impair agricultural land productivity (whether prime or non-prime) or conflict with agricultural preserve programs?				Х	
b.	An effect upon any unique or other farmland of State or Local Importance?				Х	

#### Setting:

An important farmland map for the project area was reviewed by the California Department of Conservation. The project site is not within any lands designated as prime farmland, statewide-importance farmland and unique farmland. The project area is designated as other land. Other land is land not included in any other mapping category. Common examples include low density rural developments. brush timber, wetland and riparian areas not suitable for livestock grazing, confined livestock, poultry, or aquaculture facilities, strip mines, borrow pits, and water bodies smaller than 40 acres. Vacant and nonagricultural land surrounded by urban development and greater than 40 acres is mapped as other land. The nearest agricultural land to the project site is located approximately three miles either to the north in the Santa Ynez Valley area of State Highway 154 or to the south in the foothills of the unincorporated Goleta area. The project impact area is exclusively within County owned right-of-way adjacent to an existing developed mountainous rural neighborhood.

#### Impact Discussion:

- a. The proposed project would not involve the conversion of agricultural lands, or conflict with existing uses of preserve programs.
- b. The proposed project would not affect farmland of State or Local Importance.

**Mitigation and Residual Impact:** No impacts are identified. No mitigations are necessary. Residual impacts would be less than significant.

# 4.3 AIR QUALITY

Will the proposal result in:		Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	The violation of any ambient air quality standard, a substantial contribution to an existing or projected air quality violation, or exposure of sensitive receptors to substantial pollutant concentrations (emissions from direct, indirect, mobile and stationary sources)?				Х	
b.	The creation of objectionable smoke, ash or odors?				Х	
c.	Extensive dust generation?				Х	
Gı	eenhouse Gas Emissions	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
d.	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				Х	
e.	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				Х	

#### Setting:

The project site is located in Santa Barbara County within the South Central Coast Air Basin (SCCAB) which encompasses three counties: San Luis Obispo, Santa Barbara and Ventura. The Santa Barbara County portion of the SCCAB periodically fails to meet air quality standards and is a designated "non-attainment" area for the State 8-hour ozone standard and State particulate matter (PM<sub>10</sub>) standard.

Air pollution control is administered on three governmental levels. The U.S. Environmental Protection Agency (EPA) has jurisdiction under the Clean Air Act, the California Air Resources Board (CARB) has jurisdiction under the California Health and Safety Code and the California Clean Air Act, and the Santa Barbara County Air Quality Pollution District (SBCAPCD) shares responsibility with the CARB for ensuring that all State and Federal ambient air quality standards are attained within the Santa Barbara County portion of the SCCAB.

The SBCAPCD and Santa Barbara County Association of Governments adopted the 2010 Clean Air Plan in January 2011, which was prepared to address the requirements of the California Clean Air Act. The 2010 Clean Air Plan provides an update to the County's emission inventory, and all feasible measures to reduce emissions of ozone precursors by at least 5 percent per year. Overall, air quality in Santa Barbara County is improving, as the number of County exceedances of the State 1-hour ozone standard has declined from 37 days in 1990 to three days or less in recent years.

The project location sits on top of San Marcus pass between two air monitoring stations. The closest air quality monitoring station is about two and half miles north on Paradise Road in the Los Padres National Forest but does not monitor for particulate matter and most representative of the project site is the Goleta station, located about 4 miles southeast of the project site.

PM data from the nearest station most the representative of the project site is included in Table 1.

Table 1. Summary	y of Ambient	<b>Air Quality Data</b>
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Pollutant	2009	2010	2011					
Ozone: Paradise Road-Los Padres	Ozone: Paradise Road-Los Padres National Forest							
Highest 1-Hour concentration (ppm)	0.089	0.089	0.089					
Highest 8-Hour concentration (ppm)	0.081	0.083	0.083					
Number of State Exceedances (8 hour>0.070 ppm)	5	6	3					
Number of Federal Exceedances (8 hour>0.070 ppm)	2	1	1					
Particulate Matter less than 10 microns (H	PM10) -Gole	ta Station						
Highest Sample (micrograms/cubic meter)	N/A	45.2	70.0					
Number of State Exceedances (Samples>50)	N/A	0	0					
Particulate Matter less than 2.5 microns (PM 2.5) -Goleta Station								
Highest Sample (micrograms/cubic meter)	N/A	23.6	18.4					
Number of Federal Exceedances (Samples>35)	N/A	0	0					

Greenhouse gases (GHGs) include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydro fluorocarbons (HFCs), perfluorocarbons (PFCs), sulphur hexafluoride (SF<sub>6</sub>) and nitrogen trifluoride (NF<sub>3</sub>). Combustion of fossil fuels constitutes the primary source of GHGs. GHGs accumulate in the atmosphere, where these gases trap heat near the Earth's surface by absorbing infrared radiation. This effect causes global warming and climate change, with adverse impacts on humans and the environment. Potential effects include reduced water supplies in some areas, ecological changes that threaten some species, reduced agricultural productivity in some areas, increased coastal flooding, and other effects.

Following Executive Order S-3-05 in June 2005, which declared California's particular vulnerability to climate change, the California Global Warming Solutions Act of 2006 (AB 32) was signed by Governor Arnold Schwarzenegger on September 27, 2006. Greenhouse gases (GHGs) are defined as any gas that absorbs infrared radiation in the atmosphere. Greenhouse gases include, but are not limited to, water vapor, carbon dioxide (CO2), methane (CH4), and nitrous oxide (N2O). These greenhouse gases lead to the trapping and buildup of heat in the atmosphere near the earth's surface, commonly known as the Greenhouse Effect. There is increasing evidence that the Greenhouse Effect is leading to global warming and climate change.

In response to global warming, AB 32 requires the CARB to adopt a statewide greenhouse gas emissions limit equivalent to the statewide GHG emissions levels in 1990 to be achieved by 2020 and requires the CARB to adopt rules and regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. In June 2008, CARB developed a Draft Scoping Plan for Climate Change, pursuant to AB 32. This Draft Scoping Plan proposes a comprehensive set of actions designed to reduce overall carbon emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, and enhance public health while creating new jobs and enhancing the growth in California's economy.

Senate Bill 97, enacted in 2007, amends the CEQA statute to clearly establish that greenhouse gas emissions and the effects of GHG emissions are appropriate for CEQA analysis. It directs the California Office of Planning and Research (OPR) to develop guidelines addressing the analysis and mitigation of greenhouse gas emissions by July 1, 2009 and for the California Resources Agency to certify and adopt the CEQA Guidelines by January 1, 2010. Equipment and vehicles used to construct the new bridge would emit greenhouse gases

(primarily carbon dioxide), and may contribute to global climate change.

The Santa Barbara County Planning and Development Department (2008) has developed the following thresholds to determine the significance of long-term air emissions under the California Environmental Quality Act.

- Project emissions (mobile and stationary sources) greater than the daily trigger for offsets of 55 pounds per day for NOx and ROC, and 80 pounds per day for PM<sub>10</sub>,
- Emit less than 25 pounds per day of NOx or ROC from motor vehicle trips;
- Cause or contribute to a violation of any California or National ambient air quality standard (except ozone);
- Exceed the health risk public notification thresholds of the APCD; and
- Be inconsistent with the adopted 2010 Clean Air Plan.

No thresholds have been established for short-term impacts associated with construction activities. However, the County's Grading Ordinance requires standard dust control conditions for all projects involving grading activities. Long-term/operational emissions thresholds have been established to address mobile emissions (i.e., motor vehicle emissions) and stationary source emissions (i.e., stationary boilers, engines, paints, solvents, and chemical or industrial processing operations that release pollutants).

#### **Impact Discussion:**

## a-c. Potential Air Quality Impacts

**Short-Term Construction Impacts**. The proposed project would generate air pollutant emissions as a result of construction activities; primarily exhaust emissions from heavy-duty trucks, worker vehicles and heavy equipment. Emissions were estimated for a peak day, focusing on earthwork required for the bridge approaches. It was assumed that 4 truck trips (8 one-way trips) and 6 worker trips (12 one-way trips) would occur on a peak work day. Estimated project peak day emissions are listed in Table 2. Due to their small magnitude and duration, project emissions are considered a less than significant air quality impact.

Source		Pounds per Peak Day					
Source	ROC	NOx	СО	PM-10			
Equipment	9.3	127.0	60.0	7.4			
On-road vehicles	0.3	3.3	3.1	0.1			
Fugitive dust	0.0	0.0	0.0	86.6			
Total	9.6	130.3	63.1	94.1			

Table 2.	Construction	Emissions
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Construction-related earthwork at the project site would not have the potential to result in significant project-specific short-term emissions of fugitive dust and PM<sub>10</sub>, with the implementation of standard dust control measures that are required for all new development in the County.

Emissions of ozone precursors (NO<sub>x</sub> and ROC) during project construction would result primarily from the on-site use of heavy equipment. Due to the limited period of time that heavy equipment operation would occur on the project site, construction-related emissions of NO<sub>x</sub> and ROC would not be significant on a project-specific or cumulative basis. However, due to the nonattainment status of the air basin for ozone, the project should implement measures recommended by the SBCAPCD to reduce construction related emissions of ozone precursors to the extent feasible. Compliance with these measures are routinely required for all new development in the County.

**Long-Term Operation Emissions**. The proposed project is limited to replacement of an existing bridge at the same location and configuration, and would not result in an increase in traffic volumes or resulting air emissions following completion of construction. Therefore, the proposed project would not have any long-term air quality impacts.

#### d-e. Greenhouse Gas Emissions/Global Climate Change

The County's methodology to address Global Climate Change in CEQA documents is evolving. The County is currently working to develop a Climate Action Plan consistent with CEQA Guidelines Section 15183.5 (Tiering and Streamlining the Analysis of Greenhouse Gas Emissions). Until the Climate Action Plan is formally adopted, the County will follow an interim approach to evaluating GHG emissions. This interim approach will look to criteria adopted by the San Luis Obispo County Air Pollution Control District (SLOAPCD) for land use development projects.

Based on Table 2 Construction Emissions above, the GHG emissions from this project are considered to be less than 1,150 metric tons/year and cumulative impacts as a result of GHG emissions are considered to be less than significant.

The project involves direct replacement of an existing roadway bridge, and would not result in any longterm changes in traffic patterns or traffic volumes, and would not increase vehicle emissions. The project would not result in any greenhouse gas emissions from stationary sources during long-term operation or from non-stationary sources during long-term operation, and would not contribute to climate change (excluding short-term construction activities). The project does not involve any new land use plans or amendments to the General Plan.

#### **Cumulative Impacts:**

Projects not having an appreciable effect on existing emissions and not exceeding established thresholds for long-term air quality impacts for NOx and/or ROC emissions are considered as not having the potential to result in significant cumulative air quality impacts.

#### Mitigation and Residual Impact:

No significant impacts were identified; therefore, mitigation is not required. Residual impacts would be less than significant.

# 4.4 **BIOLOGICAL RESOURCES**

Wi	Will the proposal result in:		Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
Flo	ora					
a.	A loss or disturbance to a unique, rare or threatened			Х		
	plant community?					
b.	A reduction in the numbers or restriction in the range		X			
	of any unique, rare or threatened species of plants?					
c.	A reduction in the extent, diversity, or quality of			Х		
	native vegetation (including brush removal for fire					
	prevention and flood control improvements)?					
d.	An impact on non-native vegetation whether			Х		
	naturalized or horticultural if of habitat value?					
e.	The loss of healthy native specimen trees?		Х			
f.	Introduction of herbicides, pesticides, animal life,				Х	
	human habitation, non-native plants or other factors					
	that would change or hamper the existing habitat?					
Fa	una					
g.	A reduction in the numbers, a restriction in the range,			Х		
	or an impact to the critical habitat of any unique, rare,					
	threatened or endangered species of animals?					
h.	A reduction in the diversity or numbers of animals			Х		
	onsite (including mammals, birds, reptiles,					
	amphibians, fish or invertebrates)?					
i.	A deterioration of existing fish or wildlife habitat (for			Х		
	foraging, breeding, roosting, nesting, etc.)?					
j.	Introduction of barriers to movement of any resident			Х		
	or migratory fish or wildlife species?					
k.	Introduction of any factors (light, fencing, noise,			Х		
	human presence and/or domestic animals) which					
	could hinder the normal activities of wildlife?					

#### Setting: Existing Plant and Animal Communities and Conditions

The project area subject to biological survey consists of a 400-foot-long reach of San Jose Creek, as well as 100 feet in either direction perpendicular to bridge 51C-214. Within this Biological Study Area (BSA) there are a number of areas containing different natural vegetation communities. The Project Impact Area (PIA) is within the highly disturbed transportation corridor containing Kinevan Road, bridge 51C-214, Stagecoach Road, and a private dirt road that parallels the creek.

#### Vegetation:

The BSA includes all areas subject to disturbance, as well as an additional 200 feet upstream and downstream of bridge 51C-214. The project area contains a diversity of land use and habitat types, including a reach of San Jose Creek, a portion of Kinevan Road and a residential community. Vegetation and land uses present in the project area include:

- Coast live oak / California blackberry-poison oak woodland (Ow);
- White alder-California black walnut riparian woodland (Ri);
- Historic landscape (H);

• Ruderal (R) (including the dirt two-track road);

This section presents descriptions of natural and vegetation communities, including discussions of common and characteristic plant species. Other biological conditions described cover invasive species, followed by aquatic resources and common wildlife species in each community.

#### Coast Live Oak / California Blackberry – Poison Oak Woodland (Ow)

Evergreen coast live oak trees (Quercus agrifolia) predominate on the slopes that surround the stream at the Kinevan Road bridge. The oaks continue down to the deciduous woodland that runs along the stream. Shade cast by these mature trees limits understory development. California blackberry (Rubus ursinus) and poison oak (Toxicodendron diversilobum) are common. Shrubs characteristic of the coastal sage scrub community appear in openings, including sticky monkeyflower (Mimulus aurantiacus), fuchsia-flowered gooseberry (Ribes speciosa), basket brush (Rhus trilobata), coyote brush (Baccharis pilularis), and globe mallow (Sphaeralcea malvaefolia). California bay (Umbellularia californica) is a common associate near the creek, and one madrone (Arbutus menzeisii) grows on the opposite side of Kinevan Road downstream of the bridge site.

The area of coast live oak/California blackberry – poison oak woodland within the BSA is 1.04 acres. This natural community does not occur in the project impact area.

#### White Alder-California Black Walnut Riparian Woodland (Ri)

Kinevan Canyon is deep and narrow where the bridge is located, creating a local climate that is unusually moist and shaded. White alder (Alnus rhombifolia) and California black walnut (Junglans californica) are the most common along the stream, with big-leaf maple (Acer macrophyllum) and coast live oak. The road runs along the side of the creek, leaving little area for understory development beyond the bouldery streambed. California blackberry, poison oak, and periwinkle are the most common understory plants. Willows (Salix spp.) and panicled rush (Scirpus microcarpus) grow in the occasional sunny openings. Himalayan blackberry has invaded the creek along with a few apple (Malus domestica) trees and pear trees.

The area of white alder-black walnut riparian woodland in the BSA is 1.18 acres. The area of this land use type in the project impact area is 0.0286 acres

#### Historic Landscape (H)

The upper canyon in the vicinity of the bridge was part of the Kinevan Ranch. In addition to the remnant of an apple orchard, pear tree and a large and thriving Himalayan blackberry thicket, a mixture of cedar (Deodara sp.), incense-cedar (Calocedrus decurrens), pines (Pinus spp.), and other ornamental trees face the creek from the opposite side of the road, dating back at least to the early 20th century. Algerian ivy is the dominant understory plant beneath these introduced trees, with occasional foxglove (Digitalis purpurea).

The area of historic landscape in the BSA is 0.33 acres. The area of this land use type in the project impact area is 0.0018 acres

#### Ruderal (Ru)

This land use type occurs along the edges of Kinevan Road and a private dirt road. The strip of land between Kinevan Road and the creek just downstream of the bridge is frequently disturbed, and the sparse vegetation is composed of weedy, colonizing species. Smilo grass, Italian thistle, summer mustard, sow thistle, and wild oat are most common. The non-native vegetation extends down to the creek where some ornamental split-leafed philodendron (Monstera deliciosa) plants have become established. A private dirt road runs along the upstream inland side of the creek, inside the barbed wire fence line that parallels Kinevan Road as it rises out of the canyon. The vegetation on the road is ruderal, and dominated by smilo grass, Italian thistle, and oats. Vegetation on the road cut, however, is dominated by the native understory plants of the coast live oak / California blackberry – poison oak woodland. It is traveled often enough that plant cover on the road is very low.

The area of ruderal vegetation in the BSA is 0.09 acres. The area of this land use type in the in the project impact area is 0.0059 acres and includes 0.0046 acres of existing dirt access road that traverses the riparian habitat.

Natural Community/Land Use Type	Acreage in the Project Area Subject to Impacts				
	Temporary	Permanent	Total		
Coast Live Oak/California Blackberry – Poison Oak Woodland	0.000	0.000	0.000		
White Alder-California Black Walnut Riparian_Woodland	0.0149	0.0137	0.0286		
Historic Landscape	0.0012	0.0006	0.0018		
Ruderal	0.0051	0.0008	0.0059**		
TOTAL	0.0212	0.0151	0.0363		

#### Summary Table of Acreages of Natural Communities and Land Uses in the Project Area

\*\* Includes 0.0046 acres of existing dirt access road that traverses the riparian habitat.

Trees to be Removed		
Species	Single (S) or Multi-trunk (M)	DBH (in inches)
Coast live oak	S	7
White alder	М	18, 18, 12, 12
Big-leafed maple	S	4
California bay	М	12, 8, 6
California bay	М	4, 4
California bay	М	8, 8
California bay	S	6

\*Diameter at breast height

#### Wildlife

San Jose Creek and its riparian habitat provides important habitat for wildlife. The project area supports a large variety of bird species and varied wild life species associated with the mountainous and forest region adjacent to the Los Padres National Forest. Wildlife surveys of the project area recorded a wide range of wildlife species diversity and an overall high number of bird species.

Wildlife observed in the project area included larger mammals such as Coyote (*Canis Latrans*), Mule deer (*Odocooileus hemionus*) smaller mammals such as Brush rabbit (*Sylvilagus bachmani*) and Botta' pocket gopher (*Thomomys bachmani*). Raptors included the Red tailed hawk (*Buteo jamaicensis*), Cooper's hawk (*Accipiter cooperii*) and turkey vulture (*Cathartes aura*). Smaller birds included Pacific-slope flycatcher (*Empidonax difficilis*); Cassin's vireo (*Vireo cassinii*); Warbling vireo (*Vireo gilvus*); Hutton's vireo (*Vireo huttonii*); Steller's jay (*Cyanocitta steller*); Western scrub-jay (*Aphelocoma californicus*); American crow (*Corvus brachyrhynchos*); Oak titmouse (*Baeolophus inornatu*); Bushtit (*Psaltriparus minimus*); House wren (*Troglodytes aedon*); Wrentit (*Chamaea fasciata*); Yellow warbler (*Setophaga petechial*); Orange-crowned warbler (*Oreothlypis celata*); Spotted towhee (*Pipilo maculatus*); Dark-eyed junco (*Junco hyemalis*); Purple finch (*Carpodacus purpureus*); Lesser goldfinch (*Carduelis psaltria*); White-throated swift (*Aeronautes saxatalis*); Anna's hummingbird (*Calypte anna*); Nuttall's woodpecker (*Picoides nuttallii*); Hairy woodpecker (*Picoides villosus*); Northern flicker (*Colaptes auratus*) and Black phoebe (*Sayornis nigricans*). Other species observed include the Western fence lizard (*Sceloporus occidentalis*) and the Northern tree frog (*Pseudacris regilla*).

#### Wildlife Corridors

Within the San Marcus pass area the San Jose Creek riparian corridor is intact. San Jose Creek provides a protected corridor from the foothills of Goleta into the headwaters of San Jose Creek which accesses the Los Padres National Forrest. San Jose Creek allows for larger mammals and birds to move between the coastal foothills and Santa Ynez valley without having to cross developed areas, steep slopes with dense vegetation and State Highway 154. It is expected that wildlife use San Jose Creek as a movement corridor as evidenced by wildlife scat and tracks in the project area.

#### **Flora and Fauna Surveys**

The following discussion is based on the results of a Natural Environment Study (NES) prepared for the project by Tom Olson of Garcia and Associates. The NES is available for review upon request at Santa Barbara County Public Works. The NES included biological surveys for flora and fauna in the project area. Studies conducted to assess potential occurrence of, and project-related effects on, sensitive biological resources included those listed below. Following the completion of the surveys, vegetation types were described and lists of plants and wildlife observed were compiled.

- Vegetation mapping and general botanical surveys;
- Rare plant surveys;
- Counts of native trees subject to removal;
- An evaluation of San Jose Creek as steelhead habitat;
- An evaluation of San Jose Creek as habitat for California red-legged frog, western pond turtle, and South Coast newt;
- An evaluation of bat habitat within the environmental study limits; and General wildlife surveys.

The rare plant and habitat survey was conducted on June 18, 2012 by botanist Kathy Rindlaub and biologist Suzan Kissée. Although the survey was conducted in early June, many species were still in late flowering at that time. Evidence of the remains of annual species was present and plants were identifiable to at least the genus level. Observations were made from the bridge deck and ends of the bridge, as well as by walking under and around the bridge. The area covered by Ms. Kissée and Ms. Rindlaub was the BSA, which included 200 feet upstream and downstream along the creek and up to 100 feet out from the bridge, perpendicular to the creek. The biologists surveyed for occurrences of listed and sensitive species and evaluated the project area as potential habitat for such species. Vegetation types were identified and mapped. The listed and sensitive species searched for are discussed in vegetation section. A list of all plant species observed during the surveys was compiled and is included in this Appendix A.

#### **Invasive Plant Species**

Although work will be restricted to previously disturbed areas, there is potential for the transport of seed of invasive plants to nearby natural communities, including coast live oak/California blackberry – poison oak woodland. During field surveys, 48 plant species were observed, including 20 non-native plants. Of the non-native species total, 8 are included on either the Natural Resource Conservation Service's list of noxious weeds in California (U.S. Department of Agriculture 2011) or the California Invasive Species Advisory Committee Invasive Species List (a list compiled from the California Department of Food and Agriculture list, the Cal-IPC Invasive Plant Inventory, and Weeds of California book/list). Invasive species are included in the list of all plants observed in Appendix A.

- Algerian ivy;
- Summer mustard;
- Prickly lettuce;
- Smilo grass;
- Himalayan blackberry;
- Curly dock;
- Sowthistle; and
- Periwinkle.

The spread of invasive plant seeds by equipment will be controlled. Project vehicles and equipment will be thoroughly washed prior to the start of this project. No equipment or vehicles will be allowed in areas of natural communities.

The likelihood and magnitude of invasive plants impacting the project area will be minimized because all equipment and vehicles will be washed before work begins and the equipment will not be driven into natural communities. This is considered to be a less than a substantial impact.

Project impacts will be reduced to non-substantial levels by the implementation of standard best management practices. No impacts to federal or state listed species, waters of the U.S., or natural communities are expected. As such, no compensatory mitigation is necessary.

#### Habitats of Concern

Santa Barbara County considers oak woodlands, oak forests and individual oak trees as important biological resources. The County Deciduous Oak Tree Protection and Regeneration Ordinance (no. 4490) was adopted in 2003 to protect Valley and Blue oaks. The County's Grading Ordinance was subsequently revised to include native oak tree removal (Ordinance # 4491) which included Coast Live oak. The

ordinance set limits on the number of oak tree removals and required replacement thresholds. Valley oak trees are considered protected when they are six inches in diameter at breast height (four feet). Coast Live oaks are considered protected if they are at least eight inches diameter at breast height. Oak trees in the Coastal Zone are also protected by the Coastal Zoning Ordinance (Article II) with the same required replacement threshold if they are at least 8 inches diameter at breast height.

The State of California also recognizes oak forests as important biological resources. Senate Concurrent Resolution 17 – Protection of Oaks - This resolution identifies four species of native oaks (Valley oak [Quercus lobata], Blue oak [Q. douglasii], Coast live oak [Q. agrifolia], and Engelmann oak [Q. engelmannii]) as sensitive biological resources, and requires that impacts to oak habitats be avoided or lessened, and that losses be mitigated.

#### **Special Status Plant Species**

Special status plant species are either listed as endangered or threatened under the Federal or California Endangered Species Act, or rare under the California Native Plant Protection Act, or considered to be rare or of scientific interest (but not formally listed) by resource agencies, professional organizations (e.g. Audubon Society, California Native Plant Society) and the scientific community.

Only two listed species potentially occur in the region: Gambel's watercress (Nasturtium gambelii) and Santa Ynez false lupine (Thermopsis macrophylla). Neither was found during the survey. Both are perennials that would have been visible at the time of the survey. The project area generally lacks suitable habitat for Gambel's watercress (lack of marsh habitat) and Santa Ynez false lupine (lack of chaparral and sandy soils). Habitat was present in the project area for nine non-listed special-status plants, including:

- Slender silver moss (Anomobryum julaceum)
- Late-flowered mariposa-lily (Calochortus fimbriatus);
- Umbrella larkspur (Delphinium umbraculorum)
- Ojai fritillary (Fritillaria ojaiensis)
- Mesa horkelia (Horkelia cuneata ssp. puberula)
- Santa Lucia dwarf rush (Juncus luciensis)
- Coulter's goldfields (Lasthenia glabrata ssp. coulteri)
- Pale-yellow layia (Layia heterotricha)
- Santa Barbara honeysuckle (Lonicera subspicata var. subspicata)

The California Natural Diversity Database (CNDDB) and the California Native Plant Society's online 8th edition of the Inventory of Rare and Endangered Plants were queried for results on nine quadrangles including and surrounding the San Marcos Pass quadrangle, where the project is located. The 11 species listed above are described in the following sections.

#### Gambel's Watercress

Gambel's watercress (also known as swamp cress) is an aquatic perennial that ranges from the south Central Coast through the South Coast and into Baja California in below 350 m (1148 ft.) elevation. It is listed as Endangered by the USFWS and as Threatened by the CDFW. A related species, common watercress (*Nasturtium officinale*) is widely distributed and cultivated. Common watercress is found is most areas with open water. There are a few reports of intermediates between the two species (Al-Shehbaz, Ihsan A. 2012). Gambel's watercress usually is hairy, and has both narrower leaves and fruit than common watercress. The fruit width is affected by the seed arrangement: one row for Gambel's watercress and two rows for common watercress.

Gambel's watercress occurs in marshes, and along streams and lakeshores, generally below 350 m (1,148 ft.) elevation. Although there was running water in this narrow reach of Kinevan Creek, no Gambel's watercress was found. At just under 2,000 ft., the project site is above the elevation range of this species. The survey was conducted in late July, when common watercress was in both flower and fruit. The nearest population of Gambel's watercress is in the North County on Vandenberg Air Force Base, on a fen-like tributary to San Antonio Creek.

No Gambel's watercress plants were found and none are expected due to lack of suitable habitat.

#### Santa Ynez false lupine

Santa Ynez false lupine is listed as rare by the State of California. It has a very limited distribution between the end of pavement on West Camino Cielo at the Winchester Gun Club (about 3 miles west of Highway 154) and Refugio Canyon Road to the west. Historic reports of additional populations have not been verified recently, despite focused surveys by qualified botanists. One theory is that these outliers became established briefly following fires or other disturbance, but did not persist.

Santa Ynez false lupine is a shrub-like perennial that has broad, palmately arranged leaflets and golden flowers. Unlike lupine, it bears only three leaflets, and has 10 free stamens, making the genus fairly easy to identify. It would have been past flowering in July, when the project site was surveyed, but the distinctive fruits of the pea family would have been evident. This species prefers open areas in chaparral and on sandstone. The project site does not include chaparral vegetation, and little of the surrounding area has recently been disturbed. Although the habitat is not suitable the project site is within the elevational range for this species: 425 to 1400 meters elevation (1,400 - 4,593 ft.).

Santa Ynez false lupine is endemic to a small area of the Santa Ynez Mountains. It prefers open areas in chaparral on sandstone or sandstone-derived soils, and apparently tolerates disturbance generated by fuel break maintenance. The nearest known population is in chaparral habitat around Broadcast and Santa Ynez peaks, 7-8 miles west of the project site. Reports of Santa Ynez false lupine in other locations have been checked over the past 20 years by Mark Borchert, US Forest Service Ecologist, and Dr. Dieter Wilkin, of the Santa Barbara Botanic Garden. None of these historic locations now support Santa Ynez false lupine, according to the comments on occurrences in the CNDDB. This perennial should have been visible at the time of the survey.

No perennial lupines or false lupines were found.

#### **Slender Silver Moss**

Slender silver moss has a California Rare Plant Rank of 2. This species is often found on moist rock outcrops along road cuts. The habitats in which it is found include coniferous and upland broad-leaved forests and chaparral at elevations from 300 feet to 3,000 feet. The nearest reported occurrence is on West Camino Cielo near the Winchester Gun Club, more than two miles from the project area.

This species was not found during the survey of the project area. Slender silver moss would have been identifiable at the time of the survey if it was present. This species is not expected to be in the project area based on survey results.

#### Late-flowered Mariposa Lily

Late-flowered mariposa lily has a California Rare Plant Rank of 2. This species is often found within dry coastal woodlands and chaparral up to an elevation of 3000 feet, frequently on serpentine soils. The nearest reported occurrence of late-flowering mariposa lily is southeast of the site between Kinevan Road and Highway 154, more than one-half mile from the project area; however, that occurrence was observed in 1955.

This species was not found during the survey of the BSA. Late-flowering mariposa lily would have been identifiable at the time of the survey if it was present. This species is not expected to be in the project areas based on survey results.

#### Umbrella larkspur

Umbrella larkspur has a California Rare Plant Rank of 1B. This species is often found on mesic sites associated with cismontane woodlands at elevations from 1,312 feet to 5,249 feet. The nearest reported occurrence is in lower Oso Canyon, north of the Santa Ynez River, near Los Prietos Boys' Camp, more than two miles from the project area.

This species was not found during the survey of the project area. Umbrella larkspur would have been identifiable at the time of the survey if it was present. This species is not expected to be in the project area based on survey results.

#### Ojai fritillary

Ojai fritillary has a California Rare Plant Rank of 1B. This species is often found on rocky sites. The habitats in which it is found include upland broad-leaved forests, lower montane coniferous forests, and chaparral at elevations from approximately 1,000 feet to 2,200 feet. The nearest reported occurrence is north of the Santa Ynez River in Upper Oso Canyon at Nineteen Oaks Camp, more than two miles from the project area.

This species was not found during the survey of the BSA. Ojai fritillary would have been identifiable at the time of the survey if it was present. This species is not expected to be in the project area based on survey results.

#### Mesa Horkelia

Mesa horkelia has a California Rare Plant Rank of 1B. This species is often found in open areas of sandy or gravelly sites. The habitats in which it is found include chaparral, cismontane woodlands, and coastal scrub at elevations from 230 feet to 2,600 feet. The nearest reported occurrence is described only as being on the north side of San Marcos Pass in the Santa Ynez mountains and was observed in 1930. This location is more than one-half mile from the project area.

This species was not found during the survey of the BSA. Mesa horkelia is a perennial herb and would have been identifiable at the time of the survey if it was present. This species is not expected to be in the project area based on survey results.

#### Santa Lucia Dwarf Rush

Santa Lucia dwarf rush has a California Rare Plant Rank of 1B. This species is often found along streamsides. The habitats in which it is found include vernal pools, meadows, lower montane coniferous forests, chaparral, and Great Basin scrub at elevations from approximately 1,000 feet to 6,700 feet. The nearest reported occurrence is three miles west of San Marcos pass in the Camino Cielo region of the Santa Ynez mountains, approximately one mile from the project area.

This species was not found during the survey of the BSA. Santa Lucia dwarf rush would have been identifiable at the time of the survey if it was present. This species is not expected to be in the BSA based on survey results.

#### **Coulter's Goldfields**

Coulter's goldfields have a California Rare Plant Rank of 1B. This species is often found on alkaline soils in playas and sinks. The habitats in which it is found include grasslands, coastal salt marshes, and vernal pools at elevations from sea level to 4,600 feet. The nearest reported occurrence is in the Goleta Slough in the neighboring Goleta quad, more than six miles from the project area.

This species was not found during the survey of the project area. Coulter's goldfields would have been identifiable at the time of the survey if it was present. This species is not expected to be in the BSA based on survey results and no reported occurrences within the San Marcos Pass quad.

#### Pale Yellow Layia

Pale yellow layia has a California Rare Plant Rank of 1B. This species is often found in open areas on alkaline or clay soils. The habitats in which it is found include cismontane woodlands, pinyon-juniper woodlands, and grasslands at elevations from 900 feet to 4,480 feet. The nearest reported occurrence is three miles southeast of San Marcos Pass summit within neighboring the Santa Barbara quad, more than three miles from the project area.

This species was not found during the survey of the project area. Pale yellow layia would have been identifiable at the time of the survey if it was present. This species is not expected to be in the BSA based on survey results and lack of reported observations within the San Marcos Pass quad.

#### Santa Barbara Honeysuckle

Santa Barbara honeysuckle has a California Rare Plant Rank of 1B. The habitats in which it is found include chaparral, cismontane woodlands, and coastal sage scrub at elevations from sea level to 3,300 feet. The nearest reported occurrence is north of Santa Barbara, two miles east-southeast of Brush Peak, northwest of the San Marcos Trout Club, approximately three quarters of a mile from the project area.

This species was not found during the survey of the project area. Santa Barbara honeysuckle is a perennial evergreen shrub and would have been identifiable at the time of the survey if it was present. This species is not expected to be in the BSA based on survey results.

#### **Special Status Wildlife Species**

Thirteen species of special-status animals are known or have the potential to occur in the project area on more than just an occasional basis. Of that total, suitable habitat occurs near the project impact area for six species: California red-legged frog, foothill yellow-legged frog, South Coast newt, two-striped garter snake, Cooper's hawk, and yellow warbler. Seven other special-status animals potentially occur in the region, but suitable breeding/roosting habitat is lacking. However these species could occur on an uncommon to occasional basis during migration, dispersal, or foraging: western pond turtle (Emys marmorata), southwestern willow flycatcher (Empidonax traillii extimus), least Bell's vireo (Vireo bellii pusillus), western mastiff bat (Eumops perotis californicus), Yuma myotis bat (Myotis yumanensis), pallid bat (Antrozous pallidus), and big free-tailed bat (Nyctinomops macrotis). Southern California steelhead is also included in this section even though there are barriers to passage downgradient of the project area. If steelhead could get to this reach of San Jose Creek, there is marginally suitable habitat.

These species are described in the following sections. A list of all wildlife species observed has been included in Appendix B.

#### Southern California Steelhead

The Southern California steelhead is federally listed as endangered under the ESA (NMFS 1997) and is a state Species of Special Concern. This species migrates up coastal streams in Santa Barbara County during years with adequate rainfall.

The BSA was evaluated for a number of special-status wildlife species, including steelhead by biologists Larry Hunt and Tom Olson on July 26, 2012. No steelhead were observed and the water was too low to accommodate fish. This species is not expected to occur in the BSA. This observation was confirmed in a September 17, 2012 letter from NMFS which stated the reach of San Jose Creek in the project area is upgradient of barriers to fish passage. There is no steelhead habitat in the project impact areas. Although steelhead critical habitat occurs in San Jose Creek, it is substantially downgradient of the BSA. There is no critical habitat for steelhead in the project area or in the project impact area.

#### Foothill Yellow-legged Frog

The foothill yellow-legged frog is listed as a California Species of Concern. It frequents rocky streams and rivers with rocky substrate and open, sunny banks, in forests, chaparral, and woodlands, and is sometimes found in isolated pools, vegetated backwaters, and deep, shaded, spring-fed pools. This frog originally ranged from northern Oregon west of the Cascades south along the coast ranges to the San Gabriel Mountains, and south along the foothills of the western side of the Sierra Nevada Mountains to the Tehachapi Mountains, with an isolated population (now possibly extinct) in the San Pedro Martir Mountains of Baja California. There is one historic sighting of this species in the region, but it has not been observed in Santa Barbara County since the 1930s. It appears to be extirpated from the region.

No foothill yellow-legged frogs were observed during the July 26, 2012 survey. As noted above, none have been reported in about 80 years. This species appears to be extirpated from the region, even though habitat exists in some reaches of streams such as San Jose Creek. Foothill yellow-legged frogs are not expected to occur presently in or near the project area.

#### **California Red-legged Frog**

The California red-legged frog is federally listed under the Endangered Species Act as a threatened species throughout its range in California. It is also a Species of Special Concern in California. The main cause of its decline is habitat loss and destruction, but introduced predatory species such as bullfrogs, might also be a factor. California red-legged frogs occur in slow-moving or standing deep ponds, pools and streams. Tall vegetation, like grasses, cattails and shrubs, provide protection from predators and the sun. They cannot tolerate excessive heat. During times when streams have low or absent water, California red-legged frogs they may be noted in wet meadows or damp grasses.

No red-legged frogs were observed during the July 26, 2012 survey. The reach of San Jose Creek in the project area and associated riparian community represents good-quality habitat for this species. As such, there is 1.17 acres of red-legged frog habitat in the project area. Habitat for this species does not occur in the project impact area. Within the project area, the creek bed is damp in most places with surface water present in small scour pools beneath boulders just upstream and downstream of the bridge. Pools are less than 15 square feet in area and less than six inches deep and appear to be maintained by combination of a high water table and shaded location. Several late-stage Pacific tree frog (Pseudacris regilla) tadpoles were observed in a pool upstream of the bridge. The streambed is dry for at least 500-750 feet upstream of bridge. Red-legged frogs could use this area throughout the year, even during times when the water

level is low. There is no red-legged frog habitat in the project impact area. Work will occur in areas above the creek, on the road and in adjacent ruderal areas.

The nearest reported occurrence (CDF&W 2012) of this species is approximately 1.3 miles northnorthwest of the project area. Critical habitat for the California red-legged frog does not occur in the BSA, but is approximately 0.3 mile to the north.

#### South Coast Newt

The full species, Coast Range newt (Taricha torosa) from Monterey County south is considered by CDF&W to be a Species of Special Concern. By extension, the South Coast newt (T. t. torosa) subspecies is as Species of Special Concern. It is known to occur in coastal streams with bedrock pools in Santa Barbara County. This taxon is known to move up and down streams as suitable pools become available, particularly after years of high runoff and pool scour (Olson personal observations).

No South Coast newts were observed during the July 26, 2012 survey. Although there was only limited surface water at the time of the survey, the reach of San Jose Creek in the project area was considered to be good quality habitat for this taxon. The 1.17 acres of creek and riparian habitat in the project area are suitable habitat for this species. There is no South Coast newt habitat in the project impact area.

#### Western Pond Turtle

The western pond turtle is designated as a Species of Special Concern by CDF&W. Western pond turtles occur along the Central Coast of California east to the Sierra Nevada and along the southern California coast inland to the Mojave and Sonoran deserts. Western pond turtles appear to be locally abundant in a few areas and considerably less common over the majority of their range. This species' numbers have been reduced in excess of 90% from historic levels in substantial portions of their range, and many remaining populations are heavily adult biased (Holland 1991, 1994).

Western pond turtles are active year-round, with reduced activity in colder months (October–February). They are a highly aquatic species requiring upland habitats for nesting, overwintering, and movement (Holland 1994). Typical western pond turtle habitat includes slow-moving or stagnant pools at least three feet deep and 0.5 feet in diameter with bank cover, such as vegetation, tree roots, or riprap boulders (Rathbun et al. 1992). This species has been observed using pools as shallow as 18 inches in depth (Olson, personal observations). Suitable aquatic habitat also requires basking sites such as mats of emergent vegetation, submerged mats of aquatic vegetation, and exposed logs, rocks, or mud banks. Suitable upland habitat, for nesting and overwintering, includes areas with exposed south-facing slopes, open-scrub or grassland vegetation, and dense soils (Holland 1991).

No western pond turtles were observed during the July 26, 2012 survey. As described earlier, the water level was low at the time of the survey and only a few pools with surface water were present. This species is less able to utilize intermittent streams than the red-legged frog, South Coast newt, and two-striped garter snake. Western pond turtles are not expected to occur in this reach of San Jose Creek.

#### **Two-striped Garter Snake**

The two-striped garter snake is a California Species of Special Concern that occurs along the central and southern California coastal streams from Monterey County to northern Baja California. It is a highly aquatic species, and is dependent on freshwater aquatic habitats for breeding and foraging. It is typically found in streams, ponds, and reservoirs with permanent water and sufficient emergent vegetation. It appears to prefer relatively slow-moving waters in small streams with a large prey-base of tadpoles, frogs, and fish. Highest densities are associated with arroyos or coastal lagoons with open areas of bare soil,

short grass, or large, flat boulders with southern exposures for basking that are adjacent to deep pools with plentiful prey.

Two-striped garter snakes are active both day and night, and feed primarily on frogs, tadpoles, small fish, salamanders, and earthworms. Females give birth to live young in mid to late summer. Adults reach an average snout-vent length of about 24 to 28 inches. Populations have undergone a relatively recent decline brought about by modifications of streams and adjacent habitats.

No two-striped garter snakes were observed during the July 26, 2012 survey. The reach of San Jose Creek in the BSA, along with the 1.17 acres of white alder – black walnut riparian woodland, contains good quality habitat for this species. As such, there is potential that two-striped garter snakes occur in or near the BSA. There is no habitat for this species in the project impact area.

#### **Cooper's Hawk**

The Cooper's hawk is considered to be a Species of Special Concern by CDF&W. Habitat for this species has been declining statewide due to conversion of riparian and oak woodlands. In the northern Santa Barbara County area, the Cooper's hawk is a regular winter visitor and is known to nest in limited numbers in the area. It is regularly sighted, particularly during winter months, but is not a common breeding species. When they are observed in the region, Cooper's hawks tend to nest in oak trees, especially if the oaks are in or adjacent to riparian zones. Cottonwoods and large willows also provide potential nest sites.

During the June 20, 2012 survey by biologist Peter Gaede, one Cooper's hawk was observed west of the existing bridge soaring over oak woodland habitat. In addition, a stick nest was spotted in a large alder tree over the bridge. There is potential for this species to nest in and forage over the project area. The amount of habitat in the project area includes the 1.17 acres of white alder – black walnut riparian woodland and the 1.04 acres of coast live oak/California blackberry – poison oak woodland, a total of 2.31 acres. Cooper's hawks could potentially use the vicinity during winter, migration, and breeding times of the year.

#### Least Bell's Vireo

Least Bell's vireo is listed as Federal and State Endangered. It was formerly abundant in the riparian woodlands of California's Central Valley and low elevation riparian streams in southern California and northern Baja, Mexico. It was one of California's most abundant birds in the late 19th and early 20th centuries, but was reduced to just 300 pairs by 1986. Historically, the Least Bell's Vireo was a common to locally abundant species in lowland riparian habitat, ranging from coastal southern California through the Sacramento and San Joaquin Valleys as far north as Red Bluff. Populations also occurred in the foothill streams of the Sierra Nevada and Coast Ranges, and in Owens Valley, Death Valley, and scattered locations in the Mojave Desert. By the time the species was listed by the U.S. Fish and Wildlife Service in 1986, it had been extirpated from most of its historic range, and numbered just 300 pairs statewide. Populations were confined to eight counties south of Santa Barbara, with the majority of birds occurring in San Diego County. In the decade since listing, Least Bell's Vireo numbers have increased, and the species is expanding into its historic range.

The breeding season is mostly mid-April to early June (Baicich and Harrison 1997). The open-cup nest is constructed of a variety of items, such as pieces of bark, fine grasses, plant down, and horse hair, and is often placed on a slender branch of willow, other shrub, mesquite, or other small tree, usually 2–3 feet, but sometimes 1–10 feet, aboveground. Nests are typically located near dense thickets along water or along dry parts of intermittent streams, and are placed low in dense riparian vegetation with a large degree of vertical strata. This taxon is typically associated with willow, cottonwood, mule fat, wild blackberry, or mesquite in desert localities (Zeiner et al. 1990).

No least Bell's vireos were observed during surveys conducted in the project area on June 20, 2012 and July 26, 2012. The riparian vegetation lacks the density and structure below 10 feet to be suitable nesting habitat for this species. However least Bell's vireos could use the BSA during migration. The amount of potential migratory habitat in the project area is 1.17 acres.

The nearest reported occurrences in the CNDDB are two non-specific sightings to the north. These two observances reported by the CNDDB were within the San Marcos Quad were in 1980 when one individual was observed along the Santa Ynez River near the Paradise Campground downstream from Gibraltar Reservoir. Paradise Campground is approximately three miles from the BSA. The second occurrence is of a least Bell's vireo nest observed on Kelly's Creek, a tributary to the Santa Ynez River with no further location details. The sighting was from 1933 and noted that the nest was two feet from the ground in a willow. That location is approximately two miles from the project.

Critical habitat for this species does not occur in the project area, but is along the Santa Ynez River, approximately three miles from the project area.

No habitat for this species occurs in the project impact area.

#### Southwestern Willow Flycatcher

Southwestern willow flycatchers nest in riparian habitats, usually with surface water present. Vegetation is normally dense with a height of 10 feet or greater. Overstory vegetation may or may not be present as well. Nesting has been noted in habitat patches of about two acres to hundreds of acres in size (Sogge et al. 2010). This species is later arriving in the spring than many of the other migratory species. Nesting can be spread out from late May until mid-August. Nesting normally occurs in riparian habitats that are adjacent to flowing water.

No southwestern willow flycatchers were observed during surveys conducted in the BSA on June 20, 2012 and July 26, 2012. The riparian vegetation lacks the density and structure below 10 feet to be suitable nesting habitat for this species. However this species could use the project area during migration. The nearest reported occurrences in the CNDDB are two reports near Gibraltar Reservoir, about seven miles to the northeast. The amount of potential migratory habitat in the project area is 1.17 acres.

Critical habitat for this species does not occur in the project areas, but is along the Santa Ynez River, approximately three miles from the project area.

No habitat for this species occurs in the project area.

#### Yellow Warbler

The yellow warbler is a Species of Special Concern in California. It nests and forages in brushy habitat, especially in riparian zones. This species is also known to nest in lower densities in shrublands, edges of wooded habitats, residential areas, and parks. Prey items for yellow warblers are mostly insects, especially arthropods. Its distribution and population numbers have been reduced by the conversion of riparian habitats to other uses.

One yellow warbler was observed in the project area on June 20, 2012 by biologist Peter Gaede. Although a nest was not observed, the sighting could indicate nesting in the project area. The amount of nesting habitat in the project area is 1.17 acres.

#### Mammals: Bats

The potential for bats to utilize the bridge as roosting habitat by bats was evaluated by Paul Collins on June 13, 2012. Mr. Collins evaluated the project area and the bridge in particular for use by all species of bats. During the June 13, 2012 survey conducted by Paul Collins, there were no protected hallows under the existing bridge that would be suitable for bat night or day roosting. There was no evidence of any bat use in the under structure of the bridge. The bridge is too low (e.g. 5.0 to 6.5 foot clearance to the ground and creek corridor under the bridge. There was no urine staining or bat guano on the beams of the bridge or on the ground under the bridge. As the decking for the bridge is composed of planks laid side-by-side, the small crevices between each plank are open to the road above. Soil erodes through the small cracks between the bridge planks which makes them unsuitable for bat roosting. The existing bridge does not provide potential roosting habitat for bats. Because there is potential for some use of the project area to be used as foraging habitat, four special-status bats are discussed below:

#### Western Mastiff Bat

The western mastiff bat is Species of Special Concern in California and is found in many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, and chaparral. The western mastiff bat is primarily a cliff-dwelling species, where maternity colonies roost generally under exfoliating rock slabs (e.g., granite, sandstone or columnar basalt), but roosts can also be found in high buildings, trees and tunnels.

No western mastiff bats were identified within the project area at the time of the wildlife survey, either by sight, sound, or sign. No cliffs or crevices appropriate for roosting were observed within the project area or the surrounding area. Based on these results no bats of any species are expected to utilize the bridge for roosting. The 2.31 acres of oak woodland and riparian woodland habitat represent foraging habitat for bats, including this species that could be used on an irregular basis.

The only reported identification of western mastiff bats in the San Marcos quad occurred on June 13, 1998, in the White Rock recreation area in the upper Santa Ynez valley, north of Paradise Canyon. Bat(s) were repeatedly detected acoustically at dusk. The exact location unknown; however the source gives locality as "White Rock picnic area in the upper Santa Ynez valley, about 55 km east of Vandenberg AFB." The location was mapped at "White Rock recreation area" as a best estimate. Based upon the "best estimate" GPS coordinates, the location is approximately 2.70 miles from the project area,

#### Yuma Myotis

Yuma myotis is a Species of Special Concern in California. There was no evidence of bats, including Yuma myotis, using the existing bridge for roosting. Although this species is more likely to roost in crevices and caves instead of on bridges, it has the potential to forage in and near the project area.

No evidence of bat use was found under or on the existing bridge, however the 2.31 acres of oak woodland and riparian woodland in the project area represents foraging habitat for bat species, including the Yuma myotis.

#### Pallid Bat

The pallid bat is a Species of Special Concern in California. There was no evidence of bats, including pallid bats, using the existing bridge for roosting. Although this species is more likely to roost in

buildings, caves, or crevices instead of on bridges, it has the potential to forage in and near the project area.

The 2.31 acres of oak woodland and riparian woodland in the project area represents foraging habitat for bat species, including the pallid bat.

#### **Big Free-tailed Bat**

The big free-tailed bat is a Species of Special Concern in California. As described in Section 4.6, there was no evidence of bats, including big free-tailed bats, using the existing bridge for roosting. Although this species is more likely to roost in crevices instead of on bridges, it has the potential to forage in and near the project area.

The 2.31 acres of oak woodland and riparian woodland in the BSA represent foraging habitat for bat species, including the big free-tailed bat.

#### Wetlands

The project impact area for this project occurs outside of the bed and banks of San Jose Creek. As such, no wetlands or waters of the U.S. occur in the project impact area. There will be no impacts to wetlands or waters of the U.S.

#### Impact Discussion:

- (a) The project was designed to clear span San Jose Creek to minimize impacts. No construction will occur in the creek bed or banks. The wider bridge and roadway widening to conform the bridge to the road travel way will result in the removal of several small native trees. Due to the small area affected, this impact is considered less than significant.
- (b) The project would not result in permanent impacts to any rare or special status plant species. One special status plant species is found in the project area: Coast live oak. The County's Grading Ordinance protects native oak trees (Ordinance # 4491) which includes Coast live oak. The ordinance set limits on the number of oak tree removals and required replacement thresholds. The loss of a protected oak tree is considered potentially significant impact. Tree replacement requirements identified in Mitigation Measures BIO-1 would ensure impacts are reduced to less than significant. Two special status plant communities are found within the project area: Coast live oak woodland and White Alder-California Black Walnut Riparian Woodland. The loss of several native riparian trees is considered a potentially significant impact to the White Alder-California Black Walnut Riparian Woodland. At least one tree is proposed to be removal from the creek bank and six others nearby. The California Department of Fish and Wildlife (CDF&W) protects creeks and their riparian habitat under CDF&W code section 1602 (a). This code section states that an entity may not substantially change the bed, channel, or bank of, any river, stream, or lake. Tree replacement requirements identified in Mitigation Measures BIO-2 would ensure impacts are reduced to less than significant.
- (c) The proposed bridge project would not result in the loss of any other native vegetation. The removal of vegetation only affects an invasive species. Therefore impacts are less than significant.
- (d) The project would not result in the loss of any annual grassland. The project impact area contains mostly ruderal plants that are composed primarily of non-native species. This habitat does not provide significant habitat value because is not utilized by raptors or other wildlife species, etc.

- (e) 7 trees would be impacted, including the removal of one Coast live oak and 6 other native trees consisting of Bay Laurel, Alder and Big Leaf Maple. The tree removals will cause a temporary impact to the structure of the riparian corridor associated with San Jose Creek at the bridge. The impact to native specimen trees is considered less than significant because less than 10 percent of the native trees found in the project area would be removed. Any Oak, Maple, Alder and Bay trees removed that are greater than 3" DBH will be replaced at ratio of 10:1. Native understory species will also be planted in the area. Restoration will be conducted as required by a Lake and Streambed Alteration Agreement from the CDF&W.
- (f) The project would not result in other factors that would change the habitat. No chemicals, lighting, animals, human habitation or invasive species would be associated with the project implementation.
- (g) The project would not result in any impacts to rare or special status species.

**Steelhead.** The Southern Steelhead is a federally listed as an endangered species and is a State Species of Special Concern. Based on written correspondence with the Nation Marine Fisheries Service, letter dated September 17, 2012 the project is not likely to adversely affect steelhead even though San Jose Creek has the potential for steelhead in its lower reaches. The reach that contains the project location is upgradient of several obstacles such as waterfalls. Therefore, Steelhead are not expected to occur in San Jose Creek at the project area. There is no steelhead habitat in the project impact area therefore no impacts will occur and mitigation measures are not necessary.

**Foothill yellow-legged frog**. The foothill yellow-legged frog is listed as a California Species of Concern. No foothill yellow-legged frogs were observed during the July 26, 2012 survey. As noted above, none have been reported in about 80 years. This species appears to be extirpated from the region, even though habitat exists in some reaches of streams such as San Jose Creek. Foothill yellow-legged frogs are not expected to occur presently in or near the project area. Because this species has apparently been extirpated from the region, no impacts will occur and mitigation measures are not necessary.

**California red legged frog**. The California red-legged frog is federally listed under the Endangered Species Act as a threatened species throughout its range in California. It is also a Species of Special Concern in California The project impact areas does not include red-legged frog habitat, however, work will occur near San Jose Creek and accompanying riparian habitat. As such, it is unlikely that direct impacts to this species would occur, but indirect impacts are possible. Mitigation measures described in Bio 3 would be implemented, including the restriction of work areas; designating staging and parking areas to previously disturbed locations; environmental awareness training; a pre-construction survey; and biological monitoring during peak times of work near the creek. Mitigation measures described in Bio 3 will reduce these impacts to a less than significant level.

**Least Bell's vireo and Southwestern willow flycatcher – migratory habitat**. Both species are listed as Federal and State Endangered. Neither of these species were observed during surveys conducted in the project area on June 20, 2012 and July 26, 2012. Critical habitat for both of these species does not occur in the project area and no habitat for both of these species occurs in the project area. Because no take of individuals and little or no impacts to migratory habitat for this species are expected no mitigation measures are necessary.

**Yellow warbler.** The yellow warbler is a Species of Special Concern in California. One yellow warbler was observed in the project area on June 20, 2012 by biologist Peter Gaede. Although a nest was not observed, the sighting could indicate nesting in the BSA. The amount of nesting habitat in the project area is 1.17 acres. If workers need to enter the riparian zone to retrieve debris during the nesting season (March 1 through August 15), a biologist will accompany the workers to ensure that no yellow warbler nests will be disturbed. Implementation of mitigation

measures such as a pre-construction survey and biological monitoring will reduce this impact to a non-substantial level. Mitigation measures described in Bio 4 will reduce these impacts to a less than significant level.

**Cooper's hawk.** The Cooper's hawk is considered to be a Species of Special Concern by CDF&W. During the June 20, 2012 survey by biologist Peter Gaede, one Cooper's hawk was observed west of the existing bridge soaring over oak woodland habitat. In addition, a stick nest was spotted in a large alder tree over the bridge. There is potential for this species to nest in and forage over the project area. To reduce impacts to this species to less than substantial levels construction will be scheduled to coincide with the post-nesting time for Cooper's hawks. The potential occurrence of an active Cooper's hawk nest would be a focus of the pre-construction survey and biological monitoring. Mitigation measures described in Bio 5 will reduce these impacts to a less than significant level.

**Western mastiff bat and Big free-tailed bat** – **foraging habitat.** Both bat species are Species of Special Concern in California. No evidence of bat use was found under or on the existing bridge, however the 2.31 acres of oak woodland and riparian woodland in the project area represent foraging habitat for both bat species. An inspection of the bridge will be part of the biologist's pre-construction survey. If bats are found on the bridge, an exclusion plan will be developed before demolition can start. No night work is planned, if night lighting is needed for security purposes the lights will be directed inward to reduce potential impacts to bats foraging at night. No direct impacts to bats will occur due to demolition of the bridge, no mitigation measures are necessary

**South Coast newt and Two-striped garter snake.** Both of these species are California Species of Special Concern. No South Coast newts and no two-striped garter snakes were observed during the July 26, 2012 survey. However, this reach of San Jose Creek in the project area is considered to be good quality habitat for both of these taxon. The 1.17 acres of creek and riparian habitat in the project area contains are suitable habitat for both of these species. Mitigation measures described in Bio 3 would be implemented, including the restriction of work areas; staging and parking areas to previously disturbed locations; environmental awareness training; a preconstruction survey; and biological monitoring during peak times of work near the creek. Mitigation measures described in Bio 3 will reduce these impacts to a less than significant level.

**Western pond turtle.** The western pond turtle is designated as a Species of Special Concern by CDF&W. No western pond turtles were observed during the July 26, 2012 survey, the water level was low at the time of the survey and only a few pools with surface water were present. This species is less able to utilize intermittent streams. Western pond turtles are not expected to occur in this reach of San Jose Creek. However, the potential for impacts will be reduced by the implementation of avoidance and minimization measures described in Bio 3. Mitigation measures described in Bio 3 will reduce any potential impacts to a less than significant level.

- (h) The project related loss of habitat would be minimal and temporary. Constructions related disturbance such as noise, vibration and equipment activity would be localized and occur in previously disturbed areas of paved roadway and dirt shoulders. Therefore, a reduction in diversity or substantial reduction in the numbers of wildlife is not expected.
- (i) As discussed in e. and g. a small amount of temporary project related habitat loss would occur due to tree removals. However, such habitat loss is not anticipated to affect local wildlife populations.
- (j) San Jose Creek may be used as a corridor by wildlife moving through the area as it provides habitat and cover from the nearby State Highway 154. No barriers to wildlife would be involved and no work would occur at night, when most wildlife movement occurs. Therefore, impacts to wildlife movement are considered less than significant.

(k) Project implementation would not involve fencing. The project site is located within an existing roadway in a residential development, such that existing sources of lighting, noise, vehicle traffic and human presence are commonly present. The project would not result in a substantial increase in factors which may hinder normal activities of wildlife. Therefore, impacts to wildlife movement are considered less than significant.

#### **Cumulative Impacts:**

Since the project would not significantly impact biological resources onsite, it would not have a cumulatively considerable effect on the County's biological resources.

#### Mitigation and Residual Impact:

The following mitigation measures would reduce the project's biological resource impacts to a less than significant level

**Bio-1. Oak Trees.** The loss of any protected coast live oak tree greater than 8" Dbh would be mitigated by planting coast live oaks at a mitigation ration of 10:1, such that 10 coast live oak trees would be planted for each tree removed. Replacement coast live oak trees would be planted within the Kinevan Road right of way area near the project location. One to five gallon container oaks would be used and should be propagated from genetic stock originating from the southern Santa Barbara County region. Each mitigation tree should be protected against ground disturbance, soil compaction, over irrigation and should be fenced or provided with herbivore protection (wire cages or equivalent). Mitigation trees shall be irrigation when natural moisture conditions are inadequate to ensure survival of the plants. Irrigation shall be provided for a period of at least two years from initial planting: 80% of plantings must survive for three an additional years without irrigation to be considered successful. All planting shall be installed between October 1 and April 30 to take advantage of the rainy season.

**Plan Requirements and Timing:** Mitigation measures shall be included in the project plans and specifications. **MONITORING:** A qualified native plant specialist shall conduct the native tree planting and follow up biological monitoring. The County senior environmental planner shall ensure compliance with this measure.

**Bio-2. Riparian trees and vegetation.** Additional trees removed from the White Alder-California Black Walnut Riparian Woodland would be mitigated by planting at the following CDF&W mitigation ratios as required by the Lake and Stream bed Alteration Agreement for the project. Alders and Big Leaf Maple trees shall be replaced at a ratio of 10:1. such that 10 trees would be planted for each one removed. Other native riparian plants and shrubs shall be planted to restore the understory as directed by a CDF&W approved habitat restoration plan. The plan shall include removal of invasive species and the use of a compost blanket with a native seed mix on all areas subject to grading disturbance. Replacement trees and native plants would be planted within the Kinevan Road right of way area near the project location.

**Plan Requirements and Timing:** Mitigation measures shall be included in the project plans and specifications. **MONITORING:** A qualified native plant specialist shall conduct the native tree planting and biological monitoring. The County senior environmental planner shall ensure compliance with this measure.

**Bio-3.** California red legged frog and other aquatic invertebrate species. To prevent possible direct and indirect impacts to the California red legged frog, western pond turtles, South Coast newts and two-striped garter snakes the following measures shall be implemented. These measures include; 1) the restriction of work areas 2) staging and parking in areas of previous disturbance, locations such as the paved roadway

surface; 3) environmental awareness training; 4) a pre-construction survey; 5) and biological monitoring during peak times of work near the creek.

**Plan Requirements and Timing:** Mitigation measures shall be included in the project plans and specifications. **MONITORING:** A qualified biological shall conduct the pre-construction survey and biological monitoring. The County senior environmental planner shall ensure compliance with this measure.

**Bio-4.** Nesting birds. The project area shall be the focus of a pre-construction survey for nesting birds. If workers need to enter the riparian zone to retrieve debris during the nesting season (March 1 through August 15), a biologist will accompany the workers to ensure that no yellow warbler nests will be disturbed.

**Plan Requirements and Timing:** Mitigation measures shall be included in the project plans and specifications. **MONITORING:** A qualified biologist shall conduct the pre-construction survey and any biological monitoring. The County senior environmental planner shall ensure compliance with this measure.

**Bio-5.** Nesting raptors: Coopers hawk. The potential occurrence of a Cooper's hawk nest would be a focus of the pre-construction survey and biological monitoring. There is potential for this species to nest in and forage over the project area. If it is determined a stick nest spotted in a large alder tree over the bridge is an active Cooper's hawk nest, construction will be scheduled to coincide with the post-nesting time for Cooper's hawks.

**Plan Requirements and Timing:** Mitigation measures shall be included in the project plans and specifications. **MONITORING:** A qualified biological shall conduct the pre-construction survey and biological monitoring. The County senior environmental planner shall ensure compliance with this measure.

With the incorporation of these measures, residual impacts would be less than significant.
### 4.5 CULTURAL RESOURCES

Wi	ill the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
Archaeological Resources						
a.	Disruption, alteration, destruction, or adverse effect on				Х	
	a recorded prehistoric or historic archaeological site					
	(note site number below)?					
b.	Disruption or removal of human remains?				Х	
c.	Increased potential for trespassing, vandalizing, or				Х	
	sabotaging archaeological resources?					
d.	Ground disturbances in an area with potential cultural		Х			
	resource sensitivity based on the location of known					
	historic or prehistoric sites?					
Et	hnic Resources					
e.	Disruption of or adverse effects upon a prehistoric or				Х	
	historic archaeological site or property of historic or					
	cultural significance to a community or ethnic group?					
f.	Increased potential for trespassing, vandalizing, or				Х	
	sabotaging ethnic, sacred, or ceremonial places?					
g.	The potential to conflict with or restrict existing				Х	
	religious, sacred, or educational use of the area?					

### Setting:

**Regional Prehistoric Overview.** The following overview is part of the Archeological Study Report prepared for the project by Marc Linder of Applied Earth Works, Inc. The overview presents the prehistory of California and is demonstrated by the chronological breakdown developed by Glassow et al. (2007) that divides California into six periods:

- 1. Paleo-Indian (pre-7000 B.C.)
- 2. Milling Stone (7000–4500 B.C.)
- 3. Foundations of a Maritime Lifeway (4500–2000 B.C.)
- 4. Marine and Terrestrial Transitions from the Middle to Late Holocene (2000 B.C.- A.D. 1)
- 5. Important Technological and Social Developments (A.D. 1–1000)
- **6.** Complexity and Climatic Change (A.D. 1000–1542)

### Paleo-Indian (Prior to 7000 B.C.)

Humans were present in the Santa Barbara Channel by 12,000 years ago, as indicated by human bones from Santa Rosa Island that are at least that old (Erlandson et al. 2007:57). The earliest human presence on the mainland is reflected by a basal corner of a Clovis point, which may indicate a mainland occupation of a comparable age (Glassow et al. 2007:192). These are some of the oldest archaeological finds from North America. Coastal sites of California dating earlier than 7000 B.C. have been included in the Paleo-Coastal Tradition (Glassow et al. 2007:192). Following Davis et `al. (1969), Moratto (1984:104) uses the term "Paleo-Coastal" to refer to the possible descendants of Paleoindians who inhabited the coast at estuaries and bay shores. Not many sites have been found from this period. Besides the sites described above, only two additional sites from the Channel Islands and one other site from the Santa Barbara Channel mainland date prior to 7000 B.C. (Glassow et al. 2007:192). Sites from this period are characterized by an artifact assemblage of primarily flaked stone tools and people appear to have subsisted largely on plants, shellfish, and some vertebrate species (Erlandson et al. 2007:57). Fishing with gorge and line was practiced by about 7800 B.C.; however, milling implements were not used during this period (Glassow et al 2007:192).

### Milling Stone Period (7000–4500 B.C.)

After 7000 B.C. the population began expanding and use of metates and manos become common. Approximately 40 sites have been dated to the Milling Stone Period and many sites contain substantial deposits with hundreds of artifacts implying regular use and longer periods of residence (Glassow et al 2007:192-194). These ground stone implements have been interpreted as evidence for a subsistence focus on seeds and other plant materials, and may imply increased storage of food between seasons (Glassow 1996). Hammer stones, fire-altered rocks, and a variety of flaked stone tools are also abundant in site dating to this period (Glassow et al. 2007:194). Estuarine shell species are very common in sites of this age along the channel coast and appear to have been more important than other animal food sources (Erlandson 1991, 1994; Warren 1968). Additionally, artifacts made from exotic obsidian, imported from at least as far away as the southeastern Sierra Nevada, have been recovered from sites dating to the early phases of this era (Erlandson 1994). However, sites of this age contain few or no projectile points (Glassow et al. 2007:194). Olivella biplicata shelbeads make their first appearance during the Milling Stone Period, but they do not indicate social stratification as in later prehistory (Glassow et al. 2007;195). The patterned distribution of artifact types interred with burials indicate that social status was determined by an individual's own accomplishments rather than on inherited or ascribed social standing (Erlandson 1993; Glassow 1996; King 1990).

### Foundations of a Maritime Lifeway (4500–2000 B.C.)

This period represents a time of technological advances, population growth, and greater social complexity. Metates and manos continued to be used during this period, and mortars and pestles were added, indicating a reliance on a greater variety of plant foods, including acorns. There is also a significant increase in the quantity of projectile points (Glassow et al. 2007:197–199). Population densities and reliance on marine fish and mammals appear to have increased steadily from 3000 to 1000 B.C. (Glassow 1996). Settlement became more complicated with both large sites and smaller, less dense sites existed at the same time. The larger sites may have served as primary residential bases where a variety of specialized activities took place, while the smaller sites would have been occupied for much shorter periods. There is also an increase in the number of shell beads and ornaments found with burials, indicating greater social complexity (Glassow et al. 2007:197–199).

# Marine and Terrestrial Transitions from the Middle to Late Holocene (2000 B.C.–A.D. 1)

Changes in technology, subsistence, and settlement during this period reflect an increasingly maritime orientation with intensified fishing and regional exchange. Contracting stemmed points, notched stone sinkers or net weights, and circular shell fishhooks all made their first appearance during this period, these directly transformed hunting, warfare, and fishing. There was a broadening of diet to include a diverse array of marine and terrestrial species. There also is evidence for increased sedentism at sites based on their increased size and/or high density of faunal remains and artifacts, floral assemblages indicative of year-round habitation, formal architecture, ceremonial structures, and formal cemeteries (Glassow et al. 2007:200–202). This resource diversification is associated with changes in social organization and ideology. Sites from this period have yielded ceremonial enclosures and formal cemeteries with a wide range and abundance of beads, ornaments, and ritual items. These changes were the basis for socioeconomic and political complexity in the region (Glassow et al. 2007:200–202).

### Important Technological and Social Developments (A.D. 1–1000)

This era is considered to be a time of steady intensification of resource use to support increasing populations, reflected by increasing diversity of food sources taken from a wider range of

habitats (Erlandson 1993). This was enabled by technological changes that supported fishing and hunting. The most significant technological change is the introduction of the plank canoe, or *tomol*. The *tomol* was important in fishing and commerce between the mainland coast and the Channel Islands. The bow and arrow also was introduced during this period and influenced methods of hunting and warfare. Population growth and increased sedentism is reflected by larger midden deposits and the presence of well-developed cemeteries (Glassow et al. 2007:203–2004).

### Complexity and Climatic Change (A.D. 1000–1542)

Late prehistory represents the height of Chumash population, craft specialization, and social complexity. Island populations manufactured millions of shell beads that were exchanged for mainland products (Glassow et al. 2007:207). This was supported by microlithic blade technology, linked with production of standardized microdrills for perforating shell beads, that emerged by circa A.D. 900. During the next 250 years, these island chert microdrills are found at both island and mainland villages. Later developments, beginning circa A.D. 1150, include the appearance of a technologically superior microblade form; increases in production scale, labor investment, and product standardization; and decreased failure rates (Arnold 2001). The distribution of artifacts from mortuary contexts also underwent notable alterations circa A.D. 1150. King (1990:100-101, 153–154, 196–197) has interpreted the newly ubiquitous distribution of certain shell bead forms in all types of mortuary contexts as signaling a profound change in Chumash social and political organization-the final emergence of a secular economy no longer controlled and orchestrated by political leaders but accessible to the full population. This mortuary artifact-based interpretation stands in contrast with Arnold's model (based on data from habitation rather than mortuary contexts) of emerging chiefly status positions and sociopolitical complexity beginning circa A.D. 1150. Nevertheless, it appears clear that the period beginning at this time is marked by striking changes in Chumash society, economy, and political organization.

#### **Regional Ethnographic Overview.**

At the time of contact, the Chumash inhabited villages and towns in coastal and inland areas extending from the Santa Monica Mountains in the south to Paso Robles in the north as well as the Northern Channel Islands (Grant 1978a: 505; Milliken and Johnson 2003:144). The project area lies between zones of the Barbareño and Ynezeño Chumash. The Barbareño occupied the narrow coastal plain from Point Conception to Punta Gorda in Ventura County (Grant 1978b: 509). The Ynezeño Chumash occupied the Santa Ynez River watershed from the mouth of Zaca Creek eastward (Glassow 1979:155). Early Spanish expeditions to the Santa Barbara Channel area encountered heavily populated villages along the coast, some with as many as 800–1,000 residents. The inland areas were typically more sparsely populated, with villages of 100-200 individuals, although several larger communities existed in these areas as well (Johnson 1988; Glassow 1990:2-5). As with other inland groups, the Ynezeño appeared to have had lower population densities and greater seasonal mobility than coastal groups (Landberg 1965). Additionally, there were important differences in subsistence practices, social and political organization, and other cultural features between the different zones of Chumash territory. Ethnographic studies and early mission accounts indicate there were social and economic connections between Chumash villages in the Goleta area and settlements in the upper Santa Ynez Valley (Farris and Rivers 1992:12). The Chumash lived in semicircular houses that were covered by interwoven grasses. In every village there were one or more subterranean sweat houses (Grant 1978b:510). The abundant resources along the channel allowed the Barbareño Chumash leisure time to enjoy games, gambling, smoking tobacco, singing, and dancing (Grant 1978b:512). The Chumash were also skilled artisans who made a variety of objects. In addition to the shell beads, fishhooks, flaked tools, and tomol canoes described above, the Chumash also made spectacular stone bowls and pipes, baskets, and rock paintings (Grant 1978b:514–516). Chumash political traditions were centered on permanent, largely autonomous, named towns. Ethnohistoric accounts identify hereditary political leaders by village. The villages were composed of patrilineal descent groups and each village had three or four captains, one of whom would have been head chief (Grant 1978b:510). The strength of intervillage ties varied and apparently depended at least in part on the town's size,

geographical position relative to trade routes and social networks, and the level of personal influence wielded by individual political leaders. Shifting patterns of intervillage animosities also are recorded, and the shifting patterns of alliances suggest that some political leaders had influence over multiple villages (Johnson and McLendon 1999:29–35). Causes of war among the Chumash include infringement on a village's hunting and gathering preserve, the refusal of a chief to accept an invitation to a feast or dance, or the avenging of witchcraft (Grant 1978b:513).

### **Record Search**

Records at the Central Coast Information Center (CCIC) identified 13 previous surveys within 0.5 mile of Bridge 51C-214. These include studies for private parcel developments, roads/highways, power lines, and fire breaks. Other previous investigations include a UCSB archaeological class survey, and a description of the Mission/Fremont Trail. The CCIC records search identified four cultural resources within 0.5 mile of Bridge 51C-214. CA-SBA-2728/H is the trail established around 1800 to travel between Mission Santa Barbara and Mission Santa Ynez. Known as El Arrastradero (Hauling Road) in the mission era and also referred to as the Mission/Fremont Trail. CA-SBA-2685H is the stagecoach route over San Marcos Pass used between 1869 and the 1930s. Following the general course of the Mission/Fremont Trail, the road was constructed between 1868 and 1869, although a new route east of the original was built in 1889 and became County Road 80. The road has changed names and alignments over time, becoming State Route 80, Highway 150, and eventually Highway 154 (post-1951), but the segment passing through the project area is part of the original (1869–1880s) route. Two prehistoric sites are north of the project area near San Marcos Pass. CA-SBA-1310 is a diffuse scatter of chert lithic waste flakes and mussel shell fragments and CA-SBA-1311 is a sparse scatter of chert flakes found with a number of natural chert fragments. The Caltrans Historic Bridge Inventory lists Bridge 51C-214, constructed in 1968, as a Category 5 structure not eligible for inclusion in the National Register of Historic Places.

The record search did not identify any cultural resources in the project area during the survey. Kinevan Road has been repeatedly graded and filled, obscuring and altering its original alignment. No evidence of either of the two historic-era travel routes (CA-SBA-2728/H and -2685H) was found.

### **Field Investigation:**

Applied Earthworks archaeologist Marc Linder conducted a pedestrian survey of areas proposed for construction on July 17, 2012. The pedestrian survey included the existing structure and extended up to 150 feet from either end of the bridge and up to 50 feet from the road shoulders; however, due to the steep terrain in most of the project area, the survey was limited to an area measuring 325 feet long by 53 feet wide (average), a total of 0.397 acres (17,300 square feet). Linder closely examined the steep slopes to be graded along the road approaching the bridge from the northeast, the road shoulders to the south and west, the adjacent creek-side terrace, and the incised bed of San Jose Creek beneath the structure. Ground surface visibility averaged 15–25 percent, limited by pavement, steep slopes, vegetation, and duff/ leaf litter. Where leaf litter or other material covered the ground surface, Linder cleared areas to expose underlying sediments. He photographed the project area and took detailed notes on vegetation and landform.

The current survey did not identify any cultural resources in the project area. Kinevan Road has been repeatedly graded and filled, obscuring and altering its original alignment. No evidence of either of the two historic-era travel routes (CA-SBA-2728/H and -2685H) was noted. Bridge 51C-214 was not recorded due to its age and evaluation as a Category 5 bridge ineligible or the National Register of Historic Places.

### **Native American Consultation**

The Native American Heritage Commission (NAHC) was contacted on July 2, 2012 to request pertinent cultural resources information available for the project area. On July 10, 2012 the NAHC replied that a search of their Sacred Lands Inventory failed to indicate the presence of Native American cultural resources in the immediate project area. The NAHC also provided contact information for individuals/organizations that may have knowledge of cultural resources in the project area. Applied Earthworks mailed a letter to each of the 20 individuals identified by the NAHC and followed up by attempting to contact each person by phone. Of the 20 individual contacts identified, one expressed concern about previously undisturbed areas that may be disturbed by the project and one recommended monitoring. The Chumash Elder's council representatives stated they had no problem with the project, two others stated they had no concerns with project, while 14 others did not response to voice mail messages or written correspondence.

### **Cumulative Impacts:**

Since the project would not significantly impact archeological resources onsite, it would not have a cumulatively considerable effect on the County's archeological resources.

### **Impact Discussion:**

(a-g) The potential for undiscovered cultural resources to exist onsite is low. However, in the event that previously unidentified cultural resources are discovered during site development, the standard archaeological discovery conditions, Mitigation Measures ARC-1 & ARC-2 would mitigate impacts to cultural resources to less than significant levels.

### Mitigation and Residual Impact:

The following mitigation measure would reduce the project's cultural resource impacts to a less than significant level:

**ARC-1** In the event archaeological remains are encountered during grading, work in the vicinity of the find shall be stopped immediately or redirected until a County qualified archaeologist and Native American representative are retained to evaluate the significance of the find pursuant to Phase 2 investigations of the County Archaeological Guidelines. If remains are found to be significant, they shall be subject to a Phase 3 mitigation program consistent with County Archaeological Guidelines and funded by the applicant.

**ARC-2** If human remains are unearthed, State Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resource Code Section 5097.98. If the remains are determined to be of Native American decent, the coroner has 24 hours to notify the Native American Heritage Commission.

**Plan Requirements/Timing:** This condition shall be printed in the project specifics and included with the plans. **MONITORING:** A County qualified archeologist shall evaluate the significance of any archaeological remains and conduct the required investigation. The County senior environmental planner shall ensure compliance with this measure.

With the incorporation of this measure, residual impacts would be less than significant.

### 4.6 ENERGY

Wi	ll the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Substantial increase in demand, especially during peak				Х	
	periods, upon existing sources of energy?					
b.	Requirement for the development or extension of new				Х	
	sources of energy?					

### **Impact Discussion:**

- a. The project consists of bridge replacement and would not consume energy, with the exception of the fossil fuels used in the construction equipment to build the structure. Overall, no increase in demand for energy would occur.
- b. The project would not require or induce new development or extension of existing sources of energy.

### **Cumulative Impacts**:

Since the project would not impact County energy resources it would not have a cumulatively considerable effect on the County's energy resources.

#### Mitigation and Residual Impact:

No mitigation is required. Residual impacts would be less than significant.

### 4.7 FIRE PROTECTION

Wi	ll the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Introduction of development into an existing high fire				Х	
	hazard area?					
b.	Project-caused high fire hazard?		Х			
c.	Introduction of development into an area without				Х	
	adequate water pressure, fire hydrants or adequate					
	access for fire fighting?					
d.	Introduction of development that will hamper fire				Х	
	prevention techniques such as controlled burns or					
	backfiring in high fire hazard areas?					
e.	Development of structures beyond safe Fire Dept.				Х	
	response time?					

### Setting:

The project site consists of the existing bridge footprint and portions of Kinevan Road. The Kinevan Road area has been mapped as a high fire area on the State Fire Hazard Severity Zone map for Santa Barbara County. The project location lies entirely within the Los Padres National Forest/Fire Protection Services Boundary.

The Los Padres National Forest maintains fire protection resources located at 3505 Paradise Road about 3.7 miles to the north east. The Los Prietos station houses two patrol units and has access to a Type 2 Helicopter with helitack crew at the Santa Ynez Airport and an air attack plane located at the Santa Barbara airport. According to the Los Padres National Forest, the project location within this area is considered at high risk for fire hazard, especially during the designated fire season. Fire season is typically from early May to late November, but varies depending on meteorological conditions for the year.

County Fire Department Station #12 is the closest fire station to serve the project area and is located at 5330 Calle Real, approximately 4 miles southwest of the project site. The San Marcos Pass Volunteer Fire Department located at 5593 West Camino Cielo, about .70 miles to the west is also able to respond to the project location.

Predictions about the long-term effects of global climate change in California include increased incidence of wildfires and a longer fire season, due to drier conditions and warmer temperatures. Any increase in the number or severity of wildfires has the potential to impact resources to fight fires when they occur, particularly when the state experiences several wildfires simultaneously. Such circumstances place greater risk on development in high fire hazard areas.

### **Cumulative Impacts:**

Since the project would not add new development into an existing high fire hazard area and would not significantly impact fire protection resources, it would not have a cumulatively considerable effect on the County's fire resources.

#### **Impact Discussion:**

- a. The proposed project does not involve the construction of habitable structures, and would not directly or indirectly lead to any such structures that may increase the exposure of the public to increased fire hazard.
- b. Construction activities would occur in areas supporting potentially flammable vegetation and have the potential to significantly increase fire hazard to adjacent residential areas.
- c. The proposed project does not include any development.
- d. The proposed project does not include any development and would not hamper fire prevention activities.
- e. The proposed replacement bridge would be constructed of non-flammable materials such as Portland cement, steel and asphalt concrete and would not require fire protection.

### Mitigation and Residual Impact:

The following mitigation measures would reduce the project's fire hazard impacts to a less than significant level:

**FIRE-1.** To minimize potential construction related fire hazards, a Fire Awareness and Avoidance Plan. The Plan shall include the following:

- Fire preventative measures addressing cutting, grinding and welding;
- Maintaining fire extinguishers in every vehicle on site;
- Maintaining a water truck on site if working during fire season;
- No construction activity during red flag alerts; and
- Communication with emergency response agencies.

**FIRE-2.** The contractor shall ensure adequate access to the driveways of immediately adjacent properties for emergency vehicles at all times

**Plan Requirements/Timing:** This condition shall be printed in the project specifics and included with the plans. **MONITORING:** The County on site resident engineer (RE) shall ensure compliance with this measure.

With the incorporation of these measures, residual impacts would be less than significant.

### **1.8 GEOLOGIC PROCESSES**

Wi	ll the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Exposure to or production of unstable earth conditions					
	such as landslides, earthquakes, liquefaction, soil			Х		
	creep, mudslides, ground failure (including expansive,					
	compressible, collapsible soils), or similar hazards?					
b.	Disruption, displacement, compaction or overcovering				<b>N</b> Z	
	of the soil by cuts, fills or extensive grading?				X	
c.	Exposure to or production of permanent changes in				Х	
	topography, such as bluff retreat or sea level rise?					
d.	The destruction, covering or modification of any					
	unique geologic, paleontologic or physical features?				X	
e.	Any increase in wind or water erosion of soils, either					
	on or off the site?				X	
f.	Changes in deposition or erosion of beach sands or					
	dunes, or changes in siltation, deposition or erosion			Х		
	which may modify the channel of a river, or stream, or					
	the bed of the ocean, or any bay, inlet or lake?					
g.	The placement of septic disposal systems in					
	impermeable soils with severe constraints to disposal				Х	
	of liquid effluent?					
h.	Extraction of mineral or ore?				X	
i.	Excessive grading on slopes of over 20%?				Х	
j.	Sand or gravel removal or loss of topsoil?				Х	
k.	Vibrations, from short-term construction or long-term					
	operation, which may affect adjoining areas?			Х		
l.	Excessive spoils, tailings or over-burden?				Х	

### Setting

Based on the Geologic Maps of the San Marcus Pass and the Goleta Quadrangles (Dibble 1987), the project site in underlain by Coldwater Sandstone (Tcw). This formation is described as hard, tan, bedded arkosic sandstone with minor imbeds of greenish-gray siltstone and shell; local oyster beds common in upper part. These deposits are from the Narizian Stage of the late middle Eocene age . The nearest mapped fault is the Santa Ynez Fault approximately 4 miles to the north. The Santa Ynez fault is considered active with an estimated magnitude maximum credible earth quake at 7.2+. The project sites lies between the Brush Peak Anticline which is approximately ¼ mile to the south and the Laurel Canyon Syncline which is approximately 1 mile to the north. The Painted Cave Syncline lies 2.5 miles to the north from the project location. Approximately 2.5 mile to the south is the San Jose Fault, which is considered potentially active with an estimated magnitude maximum credible earth quake at 5.8. Approximately 3.5 miles south is the San Pedro Fault which is considered inactive.

### Impact Discussion:

- a. Based on the Seismic Safety and Safety Element of the Santa Barbara County Comprehensive Plan, the project site is located in an area assigned low problem ratings for liquefaction, tsunami, expansive soils, soil creep, and compressible-collapsible soils and moderate problem ratings for slope stability and seismic-tectonic. The bridge site does not include slopes, such that landslides and slope stability is not an issue. The immediate project area has been assigned a low-moderate overall geologic problems index. The proposed replacement bridge would be designed to withstand anticipated seismic stresses according to established engineering practices. The proposed project would not include any habitable structures; therefore, no persons would be exposed to geologic hazards.
- b. Earthwork associated with the proposed project would include placement of engineered fill for the bridge approaches, as the new bridge would be constructed at a slightly higher elevation than the existing bridge. Cut and fill slopes would only be approximately one foot high and not subject to substantial soil displacement or disruption.
- c. The ground surface would be mostly restored following bridge replacement, with only minor, localized changes in topography associated with the new bridge.
- d. Based on the Seismic Safety and Safety Element of the Santa Barbara County Comprehensive Plan, no Areas of Special Geologic Interest occur in the project area. A search of the University of California Museum of Paleontology data base did not identify any fossils from the project area. Project-related ground disturbance would occur in the previously disturbed roadway, such that intact paleontological resources would not be present. Overall, no impacts to unique geologic, paleontological, or physical features would occur.
- e. The project does not involve extensive hillside grading or other components that would increase soil erosion. Potential erosion associated with storm water flows during the construction period is addressed in Section 4.16 Water Resources. Construction activities would avoid San Jose Creek, such that increased water-related erosion is not anticipated.
- f. Bridge replacement would not involve stream diversion or excavation within San Jose Creek. A water pollution control plan would be implemented during bridge construction to minimize discharge of silt-laden storm water to San Jose Creek. Therefore, increases in erosion or siltation are not anticipated.
- g. The proposed project would not involve the placement of septic systems.
- h. The proposed project does not involve the extraction or processing of minerals or ore.
- i. No excessive grading of slopes is proposed. Minor grading of the road cut on the northern side of Kinevan Road is required for the road way conform and to maintain access to an existing dirt road on private property.
- j. Excavation associated with bridge replacement would occur within previously disturbed areas and would not result in the loss of topsoil.

- k. Vibration would be generated by heavy equipment during bridge replacement activities, but will not be detected at nearest residences (which are approximately 200 to 250 feet away) during periods of high heavy equipment activity. However, due to the distance to the nearest residence, and the small number of persons affected, vibration impacts are considered less than significant.
- 1. No spoils would be generated and any material excavated would be used on-site.

### **Cumulative Impacts**:

Since the project would not result in significant geologic impacts, it would not have a cumulatively considerable effect on geologic hazards within the County.

### Mitigation and Residual Impact:

Mitigation for potentially significant erosion and siltation impacts are addressed under Water Resources (Section 4.16). Residual impacts would be less than significant.

With the incorporation of these measures, residual impacts would be less than significant.

### 4.9 HAZARDOUS MATERIALS/RISK OF UPSET

Wi	ll the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
а.	In the known history of this property, have there been any past uses, storage or discharge of hazardous materials (e.g., fuel or oil stored in underground tanks, pesticides, solvents or other chemicals)?				Х	
b.	The use, storage or distribution of hazardous or toxic materials?			Х		
c.	A risk of an explosion or the release of hazardous substances (e.g., oil, gas, biocides, bacteria, pesticides, chemicals or radiation) in the event of an accident or upset conditions?				Х	
d.	Possible interference with an emergency response plan or an emergency evacuation plan?				Х	
e.	The creation of a potential public health hazard?				Х	
f.	Public safety hazards (e.g., due to development near chemical or industrial activity, producing oil wells, toxic disposal sites, etc.)?				X	
g.	Exposure to hazards from oil or gas pipelines or oil well facilities?				Х	
h.	The contamination of a public water supply?				Х	

#### Setting:

The project area supports residential and recreational land uses. No industrial land uses are located in the immediate area. Based on review of the GeoTracker (State Water Resources Control Board), ENVIROSTOR (California Department of Toxic Substances Control) and Environapper for Envirofacts

(United States Environmental Protection Agency) data bases no hazardous material sites or leaking underground storage tank cases are in the immediate area.

### **Impact Discussion:**

- **a.** The project site does not have a history of hazardous materials production, use or storage. Therefore, project implementation would not result in exposure of persons or the local environment to hazardous materials.
- **b.** Excluding fuels used by construction equipment and vehicles, the project does not involve the use, storage or distribution of hazardous or toxic materials. Equipment and vehicles associated with the project would be fueled from a maintenance vehicle located away from drainages and residences. No storage of fuel is proposed at or near the project site.
- c. No risk of explosion is expected as a result of project-related activities.
- **d.** The proposed project would not interfere with any emergency response plan. All traffic across San Jose Creek would be prohibited during construction. Residences on each side of the project location have vehicle access to and from their residences. Traffic control would be provided on Kinevan Road during construction, and would ensure emergency vehicles can safely transit the work area.
- **e.** The proposed project does not involve the creation, storage or handling of any hazardous materials, and would not create any potential health hazard.
- f. The proposed project does not include any new development near hazardous materials.
- **g.** No oil or gas wells or other oil production facilities, or oil or gas pipelines occur at the project site. Therefore, project implementation would not result in exposure of persons or property to these hazards.
- h. The proposed project does not include any activities that would affect public water supplies.

#### **Cumulative Impacts**:

Since the project would not create significant impacts with respect to hazardous materials and/or risk of upset, it would not have a cumulatively considerable effect on safety within the County.

**Mitigation and Residual Impact:** No impacts are identified. No mitigations are necessary. Residual impacts are less than significant.

### 4.10 HISTORIC RESOURCES

Will the proposal result in:		Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Adverse physical or aesthetic impacts on a structure or property at least 50 years old and/or of historic or cultural significance to the community, state or nation?				Х	
b.	Beneficial impacts to an historic resource by providing rehabilitation, protection in a conservation/open easement, etc.?				Х	

### Impact Discussion:

### Setting:

**Historic Period Overview.** The following overview is part of the Archeological Study Report and Historic Property Survey Report prepared for the project by Marc Linder of Applied Earth Works, Inc. Kinevan Road likely follows part of a route established around 1800 for travel between Mission Santa Barbara and Mission Santa Ynez. *El Arrastradero* (Hauling Road), as it was called in the mission era, may have followed a trail used prehistorically by native people to cross San Marcos Pass. The same route was reportedly used by John C. Fremont as he marched over the pass into Santa Barbara in 1846; hence, it was also referred to as the Mission/Fremont Trail. Established around 1869, a stagecoach route over San Marcos Pass followed the general course of the Mission/Fremont Trail (Costello 1994).

Irish Immigrant, Patrick Kinevan arrived in the area in 1868 and was hired by the Flint and Bixby stagecoach line to serve as station agent and stock tender. In 1870 a stagecoach station was established on the south side of the San Marcos Pass summit. Summit House, as it came to be known, was located on the Mission/Fremont Trail along the west side of San Jose Creek, where a bridge and toll gate was erected. Kinevan acquired an adjacent 160-acre homestead, where he planted apple and pear orchards. Together with his wife, Nora, Kinevan served toll paying travelers and raised 10 children at Summit House, two whom lived there until 1956 (Tompkins 1982:65–71).

A new stagecoach route east of the original was built in 1889 and became County Road 80 in 1898. Automobiles replaced stagecoaches by 1901, and the road changed names and alignments over time, becoming State Route 80, Highway 150, and eventually Highway 154 (post-1951). The segment passing through the project area is part of the original (1869–1880s) route.

Kinevan Road has been repeatedly graded and filled, obscuring and altering its original alignment. No evidence of either of the two historic-era travel routes (CA-SBA-2728/H and -2685H) was found.

**Historic Records Search** Applied Earth Works, Inc. contacted several local historical societies and other groups to solicit pertinent historical resource information available for the project area. The groups consulted are listed below.

- Anita Hodosy, Secretary to the Santa Barbara County Historical Landmarks, Advisory Commission
- Donald G. Sharpe, Director, Santa Barbara Conservancy
- Mike Imwalle, Archaeologist, Santa Barbara Trust for Historic Preservation
- Michael Redmon, Director of Research, Santa Barbara Historical Society
- Santa Ynez Valley Historical Society

A summary of historic identification efforts includes: National Register of Historic Places, California Register of Historical Resources, California Inventory of Historic Resources, California Historical Landmarks, California Points of Historical Interest, Caltrans Historic Highway Bridge Inventory and the Central Coast Information Center.

**Bridge Evaluation.** The Caltrans Historic Bridge Inventory lists Bridge 51C-214, constructed in 1968, as a Category 5 structure not eligible for inclusion in the National Register of Historic Places.

### **Impact Discussion:**

- **a.** The proposed development does not include the demolition or alteration of structures in excess of 50 years in age. The project would not alter the contextual nature of the site in a manner which would significantly degrade the historical significance of the existing area. As a result, no impacts to historic resources are anticipated.
- **b.** The project does not offer any opportunities for rehabilitation or protection of historic resources.

### **Cumulative Impacts:**

Since the project would not result in any substantial change in the historic character of the site, it would not have any cumulatively considerable effect on the region's historic resources.

**Mitigation and Residual Impact:** No impacts are identified. No mitigations are necessary. Residual impacts are less than significant.

### 4.11 LAND USE

Wi	ill the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Structures and/or land use incompatible with existing				X	
	land use?					
b.	Conflict with any applicable land use plan, policy,				Х	
	or regulation of an agency with jurisdiction over the					
	project (including, but not limited to the general					
	plan, specific plan, local coastal program, or zoning					
	ordinance) adopted for the purpose of avoiding or					
	mitigating an environmental effect?					
c.	The induction of substantial growth or concentration				Х	
	of population?					
d.	The extension of sewer trunk lines or access roads				Х	
	with capacity to serve new development beyond this					
	proposed project?					
e.	Loss of existing affordable dwellings through				Х	
	demolition, conversion or removal?					
f.	Displacement of substantial numbers of existing				Х	
	housing, necessitating the construction of					
	replacement housing elsewhere?					
g.	Displacement of substantial numbers of people,				Х	
	necessitating the construction of replacement					
	housing elsewhere?					
h.	The loss of a substantial amount of open space?				X	

Wi	ill the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
i.	An economic or social effect that would result in a physical change? (i.e. Closure of a freeway ramp results in isolation of an area, businesses located in the vicinity close, neighborhood degenerates, and buildings deteriorate. Or, if construction of new freeway divides an existing community, the construction would be the physical change, but the economic/social effect on the community would be the basis for determining that the physical change would be significant.)				Х	
j.	Conflicts with adopted airport safety zones?				Х	

### **Existing Setting:**

The project site is located approximately in an existing developed rural neighborhood of the San Marcos Pass region. The area is bounded by the Los Padres National Forest. Onsite resources and development are characterized by a rural mountain road with a small bridge along a creek within a riparian corridor.

### **Impact Discussion:**

- **a.** The proposed project is a bridge replacement, with the same number of traffic lanes and same basic configuration, and is entirely compatible with surrounding land uses
- b. The proposed project is consistent with all applicable plans and policies of the Santa Barbara General Plan.
- c. The proposed project does not involve any new development, and would not result in population growth or spatial reconfiguration of the existing population.
- d. The proposed project does not include the extension of sewer lines or roadways.
- e. The proposed project would not displace any dwellings.
- f. See e.
- g. See e.
- h. No loss of open space would occur as a result of the proposed project.
- i. No social or economic effect would occur that would result in a physical change in the local community. Temporary lane closures on Kinevan Road may occur during construction and the road will be closed at the bridge location but it would not result in isolation of any land uses.
- j. The project site is located approximately 5 miles south-west of the Santa Barbara Airport. The project would not conflict with any airport safety zones.

### **Cumulative Impacts**:

The implementation of the project is not anticipated to result in any substantial change to the site's conformance with environmentally protective policies and standards. Thus, the project would not cause a cumulatively considerable effect on land use.

**Mitigation and Residual Impact:** No impacts are identified. No mitigations are necessary. Residual impacts are less than significant.

### 12 NOISE

Wi	ill the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Long-term exposure of people to noise levels					
	exceeding County thresholds (e.g. locating noise				Х	
	sensitive uses next to an airport)?					
b.	Short-term exposure of people to noise levels		Х			
	exceeding County thresholds?					
c.	Project-generated substantial increase in the ambient		Х			
	noise levels for adjoining areas (either day or night)?					

### **Existing setting:**

Noise sensitive receptors in the immediate of the project include rural residences; the closest of these residences are approximately 200 to 250 feet away on each side of the bridge. The project site is approximately 1380 feet from State Highway 154 which is the only ambient noise source in the vicinity. The proposed project site is located outside of 65 dB (A) noise contours for roadways, public facilities, and airport approach and take-off zones. No measurements have been taken of the ambient noise levels at the project location.

### **Impact Discussion:**

- a. The proposed project involves the replacement of the existing Kinevan Road bridge at the same location and in the same general configuration. The project would not affect traffic volumes or long term noise increases on Kinevan Road.
- b. Heavy equipment activity would occur at various times at the site during the projected 85 day construction window. Short term construction noise is expected to be below 65dB (A) CNEL for exterior noise exposure at the nearest residences during peak construction due to the distance of the residences and the general topography. Santa Barbara County has not developed any short-term noise thresholds. However, since construction activities within 1600 feet of a residence are considered to generally result in a potentially significant impact, implementation of Mitigation Measure Noise-1 would ensure short term noise impacts are reduced to less than significant levels.
- c. Any project generated substantial increase in the ambient noise levels for adjoining areas would be mitigated with the implementation of Mitigation Measure Noise-1. No project construction activities will occur at night or on weekends. No pile driving is proposed therefore no project generated substantial increase in the ambient noise level for adjoining areas would occur.

### **Cumulative Impacts:**

The implementation of the project is not anticipated to result in any substantial noise effects. Therefore, the project would not contribute in a cumulatively considerable manner to noise impacts.

**Mitigation and Residual Impact:** The following mitigation measures would reduce the project's noise effects to a less than significant level:

**Noise-1**. To minimize potentially significant construction-related noise impacts to adjacent residences the following measure shall be implemented.

• Construction activities involving heavy equipment or heavy-duty truck traffic shall be limited from 7:00 a.m. to 5:00 p.m., Monday through Friday. No construction shall occur on State holidays (e.g., Thanksgiving, Labor Day). Construction equipment maintenance shall be limited to the same hours. Non-noise generating construction activities are not subject to these restrictions.

**Plan Requirements:** Three signs stating these restrictions shall be provided by the contractor and posted on site. **MONITORING:** The County on site resident engineer (RE) shall ensure compliance with this measure.

With the incorporation of these measures, residual impacts would be less than significant.

Wi	ill the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	A need for new or altered police protection and/or				Х	
	health care services?					
b.	Student generation exceeding school capacity?				Х	
c.	Significant amounts of solid waste or breach any				Х	
	national, state, or local standards or thresholds relating					
	to solid waste disposal and generation (including					
	recycling facilities and existing landfill capacity)?					
d.	A need for new or altered sewer system facilities				Х	
	(sewer lines, lift-stations, etc.)?					
e.	The construction of new storm water drainage or				Х	
	water quality control facilities or expansion of					
	existing facilities, the construction of which could					
	cause significant environmental effects?					

### 4.13 PUBLIC FACILITIES

### Impact Discussion:

The proposed project would not result in the increase of new homes within the area. The proposed new bridge would not have a significant impact on existing police protection or health care services. Existing service levels would be maintained by the proposed project. The proposed project would not generate solid waste in excess of County thresholds. The project would not cause the need for new or altered sewer system facilities. No additional drainages or water quality control facilities would be necessary to serve the proposed bridge project. Therefore, the project would have no impact to public facilities.

- **a.** The proposed project does not include any new development or any facilities that would require police protection or health care services.
- **b.** The project does not include any residential land uses, and would not generate demand for school capacity.
- **c.** Only the existing bridge wood deck would be demolished, and the project is not anticipated to exceed the 350 ton County solid waste CEQA threshold for construction and demolition. Wood from the old bridge will be recycled.

- **d.** The proposed project does not include any residential or commercial development, and would not generate demand for sewage collection or related facilities.
- e. The proposed project would not require the construction of any storm drain or water quality control facilities.

**Mitigation and Residual Impact:** No impacts are identified. No mitigation is necessary. Residual impacts are less than significant.

### 4.14 RECREATION

Wi	ill the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Conflict with established recreational uses of the area?				Х	
b.	Conflict with biking, equestrian and hiking trails?				Х	
c.	Substantial impact on the quality or quantity of				Х	
	existing recreational opportunities (e.g., overuse of an					
	area with constraints on numbers of people, vehicles,					
	animals, etc. which might safely use the area)?					

### Setting:

Public recreation facilities in the vicinity are located in the Los Padres National Forest Santa Ynez River recreation area approximately 3.5 miles to the north east. East and West Camino Cielo Roads also offer access into the Los Padres National Forest at several roadside locations. Painted Cave State Park lies approximately 2.15 miles to the east on Painted Cave Road.

### **Impact Discussion**:

- **a.** Project implementation would not limit access or otherwise conflict with existing recreational uses. No adverse impacts would result.
- **b.** The project site is not located in the immediate vicinity of any trails; use of Kinevan Road would be impeded during bridge construction but residents on each side of the proposed will still have access to their residences. Bicycle riders will have a viable detour along State Highway 154 when the road is closed. Detour routes will be posted with signs throughout construction.
- **c.** The project does not include residential land uses; therefore, it would not generate demand for recreational facilities or result in associated overuse.

**Mitigation and Residual Impact:** No mitigation is required. No cumulatively considerable or residual impacts are anticipated.

# 4.15 TRANSPORTATION/CIRCULATION

Wi	ll the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Generation of substantial additional vehicular movement (daily, peak-hour, etc.) in relation to existing traffic load and capacity of the street system?				Х	
b.	A need for private or public road maintenance, or need for new road(s)?				X	
c.	Effects on existing parking facilities, or demand for new parking?				Х	
d.	Substantial impact upon existing transit systems (e.g. bus service) or alteration of present patterns of circulation or movement of people and/or goods?				Х	
e.	Alteration to waterborne, rail or air traffic?				Х	
f.	Increase in traffic hazards to motor vehicles, bicyclists or pedestrians (including short-term construction and long-term operational)?				Х	
g.	Inadequate sight distance?				Х	
	ingress/egress?				X	
	general road capacity?				X	
	emergency access?				X	
h.	Impacts to Congestion Management Plan system?				Х	

### Setting:

The proposed project is limited to replacement of the Kinevan Road bridge 51C-214 and, as such, would not increase vehicular traffic to or from the site nor would it affect roadways; parking facilities; pedestrian, bicycle, or transit access; or any other type of transportation facility.

The alignment of Kinevan Road approaching the bridge has both a non-standard vertical profile and is configured with a reverse super elevation. The profile is very steep and appears to have a non-standard transition as it approaches the bridge. The reverse super-elevation is transitioning from around 9% to 2% as it crosses over the bridge which is not ideal for safety. The bridge location has a low design speed and a low average daily traffic (ADT) count of 37. The County is proposing to correct the existing super-elevation condition at the bridge and approaches. To correct the existing roadway deficiencies of Kinevan Road would be cost prohibitive and result in excessive impacts to the creek and surrounding oak and riparian woodland.

### **Impact Discussion:**

- **a.** Project short-term construction related traffic would not substantially increase additional vehicular movement. In addition Kinevan Road will be closed and local traffic re-routed.
- **b.** The proposed project involves roadway improvements and would not result in a need for new roads or maintenance of existing roads.
- **c.** Parking facilities do not occur in the project area. Construction equipment and worker vehicles will park in the closed sections of Kinevan Road.
- **d.** The proposed project would not create a demand for transit or interfere with the exiting transit system or circulation of people and goods.

- e. The proposed project would not affect waterborne or rail traffic and is not located in either clear zones or approaches of any airport.
- **f.** Kinevan Road will be closed and local traffic detoured eliminating any potential hazards to motor vehicles, bicyclists or pedestrians.
- **g.** The proposed project would not affect sight distance.
- **h.** Kinevan Road will be closed and local traffic detoured. The proposed project would not significantly affect ingress/egress to and from Stage Coach Road and Highway 154.
- i. The proposed project would not affect roadway capacity.
- **j.** The proposed project would not affect emergency access.
- **k.** Roadways and intersections in the project area operate at acceptable levels of service and are not subject to Congestion Management Plan requirements.

**Mitigation and Residual Impact:** No mitigation is required. No cumulatively considerable or residual impacts are anticipated.

### 4.16 WATER RESOURCES/FLOODING

Will the proposal result in:		Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
a.	Changes in currents, or the course or direction of			X		
	water movements, in either marine or fresh waters?					
b.	Changes in percolation rates, drainage patterns or the			Х		
	rate and amount of surface water runoff?					
c.	Change in the amount of surface water in any water			Х		
	body?					
d.	Discharge, directly or through a storm drain system,		Х			
	into surface waters (including but not limited to					
	wetlands, riparian areas, ponds, springs, creeks,					
	streams, rivers, lakes, estuaries, tidal areas, bays,					
	ocean, etc) or alteration of surface water quality,					
	including but not limited to temperature, dissolved					
	oxygen, turbidity, or thermal water pollution?					
e.	Alterations to the course or flow of flood water or				Х	
	need for private or public flood control projects?					
f.	Exposure of people or property to water related				Х	
	hazards such as flooding (placement of project in 100			Х		
	year flood plain), accelerated runoff or tsunamis, sea					
	level rise, or seawater intrusion?					
g.	Alteration of the direction or rate of flow of				Х	
	groundwater?					
h.	Change in the quantity of groundwater, either through				Х	
	direct additions or withdrawals, or through					
	interception of an aquifer by cuts or excavations or					
	recharge interference?					

Will the proposal result in:		Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
i.	Overdraft or over-commitment of any groundwater basin? Or a significant increase in the existing				Х	
	overdraft or over-commitment of any groundwater basin?					
j.	The substantial degradation of groundwater quality including saltwater intrusion?				Х	
k.	Substantial reduction in the amount of water otherwise available for public water supplies?				Х	
1.	Introduction of storm water pollutants (e.g., oil, grease, pesticides, nutrients, sediments, pathogens, etc.) into groundwater or surface water?			Х		

### Setting:

### Surface waters:

San Jose Creek is located in the Goleta area of coastal Santa Barbara County. The watershed extends from the Santa Ynez Mountains to the Pacific Ocean, encompassing all tributaries to San Jose Creek and traversing approximately 8 miles before draining into the Goleta Slough. The headwaters of San Jose Creek originate at an elevation of 2,760 feet at the coastal side of the Santa Ynez Mountains. The San Jose Creek watershed serves to drain approximately 9.5 miles of urban, suburban, and rural land.

The United States Geologic Survey maintains two stream gauges along San Jose Creek. The uppermost gauge is identified as gauge number 11120500 and is referred to as "San Jose Creek near Goleta". The lower gauge is identified as gauge number 11120510 and is referred to as San Jose Creek at Goleta. The upper gauge is located northeast of Goleta, near the base of the Santa Ynez Mountains and records runoff from the upper 5.54 miles of the San Jose Creek drainage basin. Continuous historical stream gauge records are available from 1941 to 2001 for the upper gauge and from 1970 to 2000 for the lower gauge.

During the period of record, mean monthly creek flow levels varied from a low of zero during several dry seasons at both stations, to 308 cubic feet per second (cfs) at the upper station and 174 cfs at the lower station during the peak of the rainy season (February 1998). After the rainy season, creek flow decreased considerably, and remained at low levels throughout ensuing summer and fall. Peak flows in a given year at the upper gauge station have varied from a peak of 5.2 cfs during 1951 to a peak of 2,520 cfs during 2001. Peak flows in a given year at the lower gauge station have varied from a peak of 5.2 cfs during 1951 to a peak of 112 cfs during 1987 to a peak of 2,470 cfs during 1998.

San Jose Creek is classified by the California State Regional Water Quality Control Board (RWQCB) as a fully appropriated stream system, which means that all available surface water from San Jose Creek is legally allocated for domestic use, irrigation, or water storage (SWRCB, 2000). According to the RWQCB Basin Plan, designated uses of San Jose Creek water include municipal and domestic supply, agricultural supply, cold fresh water habitat, water fresh water habitat, and spawning reproduction and/or early development. As of November 7, 2002, legal year-round water diversions from San Jose Creek exceeded 6,546 gallons per day (gpd), with an additional 577,501 gpd of seasonally restricted diversions (SWRCB, 2002).

### Floodplain:

The project site is depicted on the National Flood Insurance Program Flood Insurance Rate Map Panel 06083C1140F; however, a regulatory floodplain has not been identified for San Jose Creek in the project area.

#### Groundwater:

Kinevan Road bridge 51C-214 lies outside of the South Coast ground water basins which lie between the Santa Ynez Mountains and the Pacific Ocean. In general these basins are composed of the unconsolidated material that accumulated as a result of the uplift and erosion of the ancestral Santa Ynez mountains.

### **Impact Discussion:**

- a) Proposed new bridge construction would not involve placement of fill or other materials in the creek, or otherwise disturb the San Jose Creek channel. Flow diversion during construction would not be required. Therefore, the project would not affect water movement.
- b) No changes in creek or storm drain locations, dimensions or hydraulic characteristics would occur. The new bridge would be constructed over the existing, and the San Jose Creek channel would not be disturbed. Therefore, no change in percolation rates or surface runoff would occur.
- c) As discussed in a. and b. above, temporary stream diversion would not be required and no change in run-off patterns would occur. Therefore, no change in the amount of surface water present in any water body would occur as a result of the project.
- d) Storm run-off from the project site during construction may cause increased turbidity and siltation, and discharge of hydrocarbons and other pollutants. This impact is considered potentially significant. Any groundwater discharged to San Jose Creek (see h. below) would meet water quality standards, and would not result in significant impacts to surface water quality.
- e) Temporary stream diversion would not be required, and no changes to storm drains would occur. The new bridge would be constructed above the existing bridge; therefore, the new bridge would not impede floodwaters. Overall, no changes in the course or flow of flood waters would occur, and no new flood control facilities would be required.
- f) The existing bridge soffit is within the predicted 100-year peak flow water surface elevation. The new bridge would be constructed slightly above the existing bridge. Therefore, the new bridge would not meet Federal Highway Administration (FHWA) and California Department of Transportation (Caltrans) criterion of passing the 100-year and 50-year design discharge with 2 feet of freeboard to allow passage of drift and debris that could be carried to the site during an extreme storm event. The proposed bridge will have the capacity to pass approximately 910 cfs under the structure. This flow rate corresponds to the 25 year clear water flow under the soffit of the proposed bridge (Drake Haglan & Associates, 2012). Overtopping of the bridge would occur during a 36 year clear flow event and would also overtop the surrounding roadway approaches. The county will receive a design exception to address the situation. The design exception can be granted due to the rural nature of the single lane road with a very low daily traffic volume of 37 vehicles per day passing over the bridge. The new bridge will not increase the existing exposure of persons or property to flooding hazards.
- g) The project site is not located within an identified groundwater basin area. The proposed project would not affect groundwater flow as project-related groundwater pumping would not occur, and recharge from San Jose Creek would not be affected.

- h) Groundwater may be encountered during drilling of holes for bridge abutment piles. A very small amount of this groundwater may be pumped from the hole, clarified and discharged to San Jose Creek. The project does not involve substantial or long-term extraction of groundwater, excavation of aquifers or interference with recharge.
- i) The project would not involve groundwater pumping. Therefore, the proposed project would not contribute to overdraft of any groundwater basin.
- j) The proposed project would not contribute to seawater intrusion.
- k) The project would not require water and would not affect public water supplies.
- Storm run-off from Kinevan Road and adjacent land uses likely contributes pollutants to San Jose Creek. Proposed bridge replacement would not affect the type or volume of these pollutants generated, or substantially increase the discharge of these pollutants to San Jose Creek.

### Mitigation Measures and Residual Impacts:

**Water Quality-1**. The project would require a Water Pollution Control Plan (WPCP) be prepared, which would include best management practices to be implemented and a monitoring program. The following Best Management Practices shall be incorporated into the WPCP to minimize potential water quality impacts. Impacts to water quality would be mitigated to a less than significant level with the implementation of these measures.

- a) All ground disturbance shall be limited to the dry season or periods when rainfall is not predicted, to minimize erosion and sediment transport to surface waters;
- b) Disturbed areas shall be stabilized or re-vegetated prior to the start of the rainy season;
- c) Impacts to vegetation within and adjacent to creeks and storm drains shall be minimized. The work area shall be flagged to identify its limits. Vegetation shall not be removed or intentionally damaged beyond these limits.
- d) Construction materials and soil piles shall be placed in designated areas where they could not enter creeks or storm drains due to spillage or erosion.
- e) Waste and debris generated during construction shall be stored in designated waste collection areas and containers away from watercourses, and shall be disposed of regularly.
- f) During construction, washing of concrete trucks, paint, equipment, or similar activities shall occur only in areas where polluted water and materials can be contained for subsequent removal from the site. Wash water shall not be discharged to the storm drains, street, drainage ditches, creeks, or wetlands. Concrete washout area shall be isolated from the creek, wash water and waste shall be removed from project site. The location of the washout area shall be clearly noted at the construction site with signs.
- g) All fueling of heavy equipment shall occur in a designated area removed from San Jose Creek and other drainages, such that any spillage would not enter surface waters. The designated refueling area shall include a drain pan or drop cloth and absorbent materials to clean up spills.
- h) Vehicles and equipment shall be maintained properly to prevent leakage of hydrocarbons and coolant, and shall be examined for leaks on a daily basis. All

maintenance shall occur in a designated offsite area. The designated area shall include a drain pan or drop cloth and absorbent materials to clean up spills.

i) Any accidental spill of hydrocarbons or coolant that may occur on the construction site shall be cleaned immediately. Absorbent materials shall be maintained on the construction site for this purpose.

**Plan Requirements/Timing**: These measures shall be included in the project specifications and WPCP. **MONITORING**: The County resident engineer (RE) shall ensure the measures are fully implemented.

Mitigation measures are provided in letter sequence above.

With the incorporation of these measures, residual impacts of construction-related water quality impacts will be reduced to a level of less than significant.

### 5.0 INFORMATION SOURCES

### 5.1 County Departments Consulted

Police, Fire, <u>Public Works</u>, Flood Control, Parks, Environmental Health, Special Districts, Regional Programs, Other : \_\_\_\_\_

#### 5.2 Comprehensive Plan

5.3

	Seismic Safety/Safety Element Open Space Element Coastal Plan and Maps ERME	XConservation ElementXNoise ElementXCirculation ElementAgricultural Element
v	Field work	A g Preserve mans
Λ	Calculations	X Eload Control mona
		A Flood Collifor maps
X	Project plans	X Other technical references
	Traffic studies	(reports, survey, etc.)
	Records	Planning files, maps, reports
	Grading plans	X Zoning maps
	Elevation, architectural renderings	X Soils maps/reports
Х	Published geological map/reports	X Plant maps
Х	Topographical maps	X Archaeological maps and reports
		X Other

FEMA Floodplain maps

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### 6.0 PROJECT SPECIFIC (short- and long-term) AND CUMULATIVE IMPACT SUMMARY

### 6.1 Significant Unavoidable Impacts

None Identified.

### 6.2 Significant but Mitigable Impacts.

**Biological Resources.** The project may result in:

- Critical root zone impacts one coast live oak tree protected under the County Grading Ordinance and several other native riparian trees protected by CDF&W.
- Construction related impacts to habitat of Species of Special Concern.

### Cultural Resources. The project may result in:

• Potential disturbance of unanticipated buried cultural resources in the area.

### Fire Protection. The project may result in:

• Increased fire hazard to adjacent rural residential development associated with construction activities in a high fire area with potentially flammable vegetation.

Noise. The project may result in:

• Exposure of adjacent residences to temporary noise generated by heavy equipment and heavy duty truck traffic.

### Water Resource/Flooding. The project may result in:

• Temporary degradation of surface water quality associated with discharge of storm water from the project construction area.

### 6.3 Cumulative Impacts

Cumulative impacts are defined as two or more individual effects which, when considered together are considerable, or which compound or increase other environmental impacts. Under Section 15064 of the State CEQA Guidelines, the lead agency (Santa Barbara County Public Works Department) must identify cumulative impacts, determine their significance and determine if the effects of the project are cumulatively considerable.

### 6.3.1 Air Quality

Other land development projects would generate both short-term construction emissions and long-term vehicle emissions. The proposed project would not contribute to cumulative long term vehicle emissions, but may contribute to cumulative construction emissions, should construction of these projects occur at the same time as the proposed project. However, construction emissions of both the proposed project and other projects would be mitigated by standard measures required by the Santa Barbara County APCD. Implementation of these measures is considered to prevent significant projectspecific and cumulative air quality impacts from construction. Therefore, the incremental air quality impact associated with project construction would not be cumulatively considerable.

### 6.3.2 Water Resources

Most other projects would require potable water service and may affect groundwater supplies. The proposed project would not require a water supply and would not contribute to this impact. Cumulative development would increase pollutant concentrations in storm run-off and may adversely affect surface water quality. During the construction period, the proposed project may contribute to cumulative surface water quality impacts. However, mitigation measures are provided to avoid and minimize impacts to surface water quality. Similar to the proposed project, some of the cumulative projects are located near drainages and inadvertent spills of fuel or lubricants could occur and percolate into groundwater supplies. The proposed project would contribute to this cumulative impact; however, mitigation measures are provided to avoid and minimize impacts to groundwater quality. The project's contribution to groundwater impacts would not be considerable.

### 6.3.3 Biological Resources

### **Protected Trees**.

Coast live oak trees are common in the project area, and other projects may result in removal of these trees. Therefore, the proposed project would contribute to a cumulative impact to this species.

### Southern California Steelhead

There is no suitable steelhead habitat in the project area due to the creek maintaining water levels that are too low to accommodate fish for most of the year. This species is not expected to occur in the project area due to upgradient barriers to fish passage. Although steelhead critical habitat occurs in San Jose Creek, it is substantially downgradient of the project area. The proposed project is not anticipated to substantially contribute to a cumulative impact to the Southern California Steelhead.

### Least Bell's vireo and Southwestern willow flycatcher - migratory habitat.

Critical habitat for both of these species does not occur in the project area and no habitat for both of these species occurs in the project impact area. Because no take of individuals and little or no impacts to migratory habitat for this species are expected the proposed project is not anticipated to substantially contribute to a cumulative impact the Least Bell's vireo and Southwestern willow flycatcher.

#### California Red-Legged frog.

This species occurs in other drainages in the region, including the Santa Ynez River. Other proposed or recently approved projects may result in habitat loss and/or indirect impacts (such as water quality degradation) to California red-legged frog. The proposed project is not anticipated to substantially contribute to cumulative impacts to this species.

#### Foothill yellow-legged frog.

This species appears to be extirpated from the region has not been reported in about 80 years, even though habitat exists in some reaches of streams such as San Jose Creek. The proposed project is not anticipated to substantially contribute to a cumulative impact to the foothill yellow-legged frog.

### Southwestern Pond Turtle, Two-Striped Garter Snake and South Coast newt.

These species occur in several drainages in the region, including the Santa Ynez River, and it is likely that other projects may adversely affect suitable habitat. However, the proposed project is not anticipated

to substantially contribute to a cumulative impact to southwestern pond turtle and two-striped garter snake or the South Coast newt.

### Western mastiff bat and Big free-tailed bat – foraging habitat.

Both of these bat species occur in the region and forage in the oak woodland and riparian habitat along Kinevan Road. The proposed project is not anticipated to substantially contribute to a cumulative impact to the foraging habitat of the Western mastiff bat and Big free-tail bat.

### Cooper's Hawk, Yellow Warbler and Yellow-breasted Chat.

These species occur in other riparian corridors in the region, and other projects may result in loss of suitable habitat. However, project-related loss of habitat would be minimal and would not substantially contribute to a cumulative impact to Cooper's hawk, yellow warbler and yellow-breasted chat.

#### 6.3.4 Cultural Resources

Most cumulative projects summarized in Section 3.2 are located in previously developed areas and are unlikely to adversely affect intact archeological resources. However, some projects are located in potentially sensitive areas that may result in disturbance of known or unknown cultural resources. The proposed project may impact unknown cultural resources along San Jose Creek under Kinevan Road, and could contribute to a cumulative impact. However, mitigation measures are provided to avoid and minimize potential impacts to archeological resources. The project's contribution to cumulative cultural resources impacts would not be considerable.

#### 6.3.5 Noise

Other projects would generate both short-term construction noise and long-term traffic noise. The proposed project would not contribute to cumulative long-term traffic noise, but may contribute to cumulative construction noise. However, the proposed project is not located in close proximity to other projects and/or would not be implemented at the same time, and would not have a considerable contribution to cumulative impacts at noise sensitive receptors affected by these projects.

### 7.0 MANDATORY FINDINGS OF SIGNIFICANCE

Wi	Il the proposal result in:	Poten. Signif.	Less than Signif. with Mitigation	Less Than Signif.	No Impact	Reviewed Under Previous Document
1.	Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self- sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, contribute significantly to greenhouse gas emissions or significantly increase energy consumption, or eliminate important examples of the major pariods of California history or prehistory?		X			
2.	Does the project have the potential to achieve short- term to the disadvantage of long-term environmental goals?				Х	
3.	Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects and the effects of probable future projects.)			х		
4.	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?		Х			
5.	Is there disagreement supported by facts, reasonable assumptions predicated upon facts and/or expert opinion supported by facts over the significance of an effect which would warrant investigation in an EIR ?				Х	

### **Impact Discussion:**

- 1. The proposed project does not have the potential to substantially degrade the quality of the environment. Implementation of the mitigation measures Bio-1 through Bio-5 will ensure there is no substantial reduction in the habitat of a fish or wildlife species, will not cause a fish or wildlife population to drop below self-sustaining levels or threaten to eliminate a plant or animal community, or substantially reduce the number or restrict the range of a rare or endangered plant or animal. The proposed project will not contribute significantly to greenhouse gas emissions or significantly increase energy consumption, or eliminate important examples of the major periods of California history or prehistory.
- 2. The proposed project does not have the potential to achieve short-term to the disadvantage of longterm environmental goals. The proposed project is designed to achieve the goal of the Public Works Department to replace all structurally deficient bridges with the County owned roadway system.
- **3.** The proposed project does have impacts that are individually limited to the project location, but are cumulatively considerable. There are no proposed bridge projects in the area or other projects in the

vicinity that may create cumulative impacts which when considered together would be considerable, or which compound or increase other environmental impacts.

- 4. The proposed project will not create environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly. Construction equipment will generate short term noise. Construction noise impacts will be minimized with the implementation of mitigation measure Noise-1.
- **5.** Is there no disagreement supported by facts or any reasonable assumptions predicated upon facts and/or expert opinion supported by facts over the significance of an effect which would warrant investigation in an EIR.

### 8.0 **PROJECT ALTERNATIVES**

No significant, adverse unmitigable impacts were identified; therefore, no project alternatives were considered

### 9.0 INITIAL REVIEW OF PROJECT CONSISTENCY WITH APPLICABLE SUBDIVISION, ZONING AND COMPREHENSIVE PLAN REQUIREMENTS

An analysis of the consistency of the proposed project with applicable policies of the Comprehensive Plan is provided below. The proposed project, with incorporated mitigation measures is expected to be consistent with all land use and development policies.

### HILLSIDE AND WATERSHED PROTECTION POLICIES

1. Plans for development shall minimize cut and fill operations. Plans requiring excessive cutting and filling may be denied if it is determined that the development could be carried out with less alteration of the natural terrain.

**Consistency**: The proposed new bridge structure minimizes cut and fill by retaining the old abutments and wing walls in the creek bed. The construction of the new bridge limits alternation of the natural terrain.

2. All developments shall be designed to fit the site topography, soils, geology, hydrology, and any other existing conditions and be oriented so that grading and other site preparation is kept to an absolute minimum. Natural features, landforms, and native vegetation, such as trees, shall be preserved to the maximum extent feasible. Areas of the site which are not suited to development because of known soil, geologic, flood, erosion or other hazards shall remain in open space.

**Consistency**: The proposed new bridge structure fits to the site topography and limits grading and impacts to the surrounding natural features.

7. Degradation of the water quality of groundwater basins, nearby streams, or wetlands shall not result from development of the site. Pollutants, such as chemicals, fuels, lubricants, raw sewage,

harmful waste, shall not be discharged into or alongside coastal streams or wetlands either during or after construction.

**Consistency**: Mitigation measures for the proposed project protect the nearby stream from pollutants and prohibit discharge of fuels, lubricants and cement washout into San Jose Creek.

### STREAMS AND CREEKS POLICIES

1. All permitted construction and grading within stream corridors shall be carried out in such a manner as to minimize impacts from increased runoff, sedimentation, biochemical degradation, or thermal pollution.

**Consistency**: Mitigation measures for the proposed project protect the nearby stream from sedimentation and erosion into San Jose Creek.

### FLOOD HAZARD AREA POLICIES

1. All development, including construction, excavation, and grading, except for flood control projects and non-structural agricultural uses, shall be prohibited in the floodway unless off-setting improvements in accordance with federal regulations are provided. If the proposed development falls within the floodway fringe, development may be permitted, provided creek setback requirements are met and finished floor elevations are two feet above the projected 100-year flood elevation, and the other requirements regarding materials and utilities as specified in the Flood Plain Management Ordinance are in compliance.

**Consistency**: The new bridge is proposed to be constructed within a portion the floodway as are most bridges supporting public transportation facilities. The proposed bridge will be within the 100-year flood plain elevation of San Jose Creek. The County will receive a design exception to achieve policy consistency. The design exception can be granted due to the rural nature of the single lane road with a very low daily traffic volume of 37 vehicles per day passing over the bridge.

### HISTORICAL AND ARCHAEOLOGICAL SITES POLICIES

1. All available measures, including purchase, tax relief, purchase of development rights, etc., shall be explored to avoid development on significant historic, prehistoric, archaeological, and other classes of cultural sites.

**Consistency**: The proposed bridge location was thoroughly studied and documented with a Historic Property Survey Report and an Archaeology Survey report that determined no archaeological or historic resources would be impacted. Mitigation measures for the proposed project are in place in the unlikely event that cultural materials are found during excavation of the roadway.

5. Native Americans shall be consulted when development proposals are submitted which impact significant archaeological or cultural sites.

**Consistency:** Native Americans were notified and consulted during the drafting of the Historic Property Survey Report and an Archaeology Survey Reports.

### 10.0 RECOMMENDATION BY P&D STAFF

#### On the basis of the Initial Study, the staff of Planning and Development:

 Finds that the proposed project WILL NOT have a significant effect on the environment and,
therefore, recommends that a Negative Declaration (ND) be prepared.

- X Finds that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures incorporated into the REVISED PROJECT DESCRIPTION would successfully mitigate the potentially significant impacts. Staff recommends the preparation of an ND. The ND finding is based on the assumption that mitigation measures will be acceptable to the applicant; if not acceptable a revised Initial Study finding for the preparation of an EIR may result.
- \_\_\_\_\_ Finds that the proposed project MAY have a significant effect on the environment, and recommends that an EIR be prepared.
- Finds that from existing documents (previous EIRs, etc.) that a subsequent document (containing updated and site-specific information, etc.) pursuant to CEQA Sections 15162/15163/15164 should be prepared.

Potentially significant unavoidable adverse impact areas:

With Public Hearing	x	Without Public Hearing
with r uono moang		Without I done Houms

#### PREVIOUS DOCUMENT: N/A

#### PROJECT EVALUATOR: Morgan M. Jones

**DATE:** March 15, 2013

### 11.0 DETERMINATION BY ENVIRONMENTAL HEARING OFFICER

I agree with staff conclusions. Preparation of the appropriate document may proceed.
I DO NOT agree with staff conclusions. The following actions will be taken:
I require consultation and further information prior to making my determination.

SIGNATURE:	INITIAL STUDY DATE:
SIGNATURE:	NEGATIVE DECLARATION DATE: <u>7/18/12</u>
SIGNATURE:	REVISION DATE:
SIGNATURE:	FINAL NEGATIVE DECLARATION DATE: $\frac{5/1/25}{25}$

# 12.0 Appendices

# **12.1** Appendices A list of all plant species observed during the surveys.

Common Name	Scientific Name	Habit <sup>1</sup>	Habitat <sup>2</sup>	I/N <sup>3</sup>
Unidentified shrub		S	Н	Ι
Big-leaf maple	Acer macrophyllum	Т	Ri	N
White alder	Alnus rhombifolia	Т	Ri	N
Madrone	Arbutus menziesii	Т	H, OW	N
Alum root	Arecaceae (cf. Arum)	Р	Ru	Ι
Coyote brush	Baccharis pilularis	S	OW	N
Beggar ticks	Bidens pilosa	А	Ru	Ι
Incense cedar	Calocedrus decurrens	Т	Н	Calif.
Italian thistle	Carduus pycnocephalus	А	Ru	Ι
Cedar	Cedrus spp.	Т	Н	Ι
California thistle	Cirsium cf. californica	А	Ru	N
Orchard grass	Dactylis glomerata	А	Ru	N
Foxglove	Digitalis purpurea	Р	Ru	Ι
Coastal wood fern	Dryopteris arguta	Р	Ri	Ν
California fuchsia	Epilobium canum	Р	OW	N
Green everlasting	Gnaphalium californicum	А	OW	N
Algerian ivy	Hedera canariensis	V	H, OW	Ι
Summer mustard	Hirschfeldia incana	Р	Ru	Ι
Black walnut	Juglans californica	Т	Ri	Ν
Prickly lettuce	Lactuca serriola	А	Ru	Ι
Wild rye	Leymus triticoides	Р	Ru	N
California honeysuckle	Lonicera hispidula vacillans	S	OW, Ri	Ν
Apple	Malus domestica	Т	F	Ι
White sweet-clover	Melilotus albus	А	Ru	Ι
Sticky monkeyflower	Mimulus aurantiacus	S	OW	Ν
Split-leafed philodendron	Monstera deliciosa	Р	OW, Ri	Ι
Rock phacelia	Phacelia imbricata	Р	OW	N
Smilo grass	Piptatherum mileaceum	Р	OW, Ri, Ru	Ι
English plantain	Plantago lanceolata	Р	Ru	Ν
Cherry plum	Prunus cf. cerasifera	Т	Н	Ι
Bracken	Pteridium aquilinum	Р	OW	Ν
Coast live oak	Quercus agrifolia	Т	OW	Ν
Basket bush	Rhus trilobata	S	OW	Ν
Fuchsia-flowered gooseberry	Ribes speciosum	S	OW	Ν
Himalaya blackberry	Rubus cf. discolor	V	H, Ri	Ι
California blackberry	Rubus ursinus	V	Ri	Ν
Curly dock	Rumex crispus	Р	Ri	Ι
White sage	Salvia apiana	S	OW	Ν
Hummingbird sage	Salvia spathacea	Р	OW	Ν
Panicled rush	Scirpus microcephala	Р	Ri	Ν
Sow thistle	Sonchus oleraceus	А	Ru	Ι
Globe mallow	Sphaeralcea malvaefolia	Р	OW	Ν
Knotted hedge parsley	Torilis nodosa	А	OW, Ru	Ι
Poison oak	Toxicodendron diversilobum	V	OW, Ri	Ν
Common Name	Scientific Name	Habit <sup>1</sup>	Habitat <sup>2</sup>	I/N <sup>3</sup>
--------------------	--------------------------------	--------------------	----------------------	------------------
California bay	Umbellularia californica	Т	OW, Ri	Ν
Giant creek nettle	Urtica dioica ssp. holosericea	Р	Ri	Ν
Periwinkle	Vinca major	V	OW, Ri	Ι
Grape	Vitus cf. vinifera	V	OW, Ri	Ι

- <sup>1</sup>  $\mathbf{A} = \mathbf{Annual}$ 
  - P = Perennial
  - $\mathbf{S}=\mathbf{Shrub}$
  - $\mathbf{T} = Tree$
  - $\mathbf{V} = \mathbf{Vine}$
- <sup>2</sup> H = Historic Landscape OW = Coast Live Oak Woodland Ri = Riparian Ru = Ruderal
- <sup>3</sup>  $\mathbf{I} =$ Introduced species  $\mathbf{N} =$ Native species
  - **Calif**. = native to California, but not to the BSA

Common Name	Scientific Name	Comments
Northern Pacific treefrog	Pseudacris regilla	Late-stage larvae in pools
Western fence lizard	Sceloporus occidentalis	
Turkey vulture	Cathartes aura	Soaring overhead
Red-tailed hawk	Buteo jamaicensis	Flying overhead
Cooper's hawk	Accipiter cooperii	Flying overhead, possible inactive nest platform in BSA
White-throated swift	Aeronautes saxatalis	
Anna's hummingbird	Calypte anna	
Nuttall's woodpecker	Picoides nuttallii	
Hairy woodpecker	Picoides villosus	
Northern flicker	Colaptes auratus	
Black phoebe	Sayornis nigricans	Inactive nests under bridge
Pacific-slope flycatcher	Empidonax difficilis	
Cassin's vireo	Vireo cassinii	
Warbling vireo	Vireo gilvus	
Hutton's vireo	Vireo huttonii	
Steller's jay	Cyanocitta stelleri)	
Western scrub-jay	Aphelocoma californicus	
American crow	Corvus brachyrhynchos	
Oak titmouse	Baeolophus inornatus	
Bushtit	Psaltriparus minimus	
House wren	Troglodytes aedon	
Wrentit	Chamaea fasciata	
Yellow warbler	Setophaga petechia	
Orange-crowned warbler	Oreothlypis celata	

## **12.2** Appendices **B** List of all wildlife species observed during surveys

Spotted towhee	Pipilo maculatus	
Dark-eyed junco	Junco hyemalis	
Purple finch	Carpodacus purpureus	
Lesser goldfinch	Carduelis psaltria	
Botta's pocket gopher	Thomomys bottae	Burrows
Brush rabbit	Sylvilagus bachmani	
Coyote	Canis latrans	Scat, tracks
Mule deer	Odocoileus hemionus	

# 12.3 Appendices C 65% Preliminary Construction Plans



PROVED – CHAIRMAN, BOARD OF SUPERVISORS DATE PROVED – DIRECTOR OF PUBLIC WORKS DATE	VER SAN JOSE CREEK NTY PROJECT NO. 862328
DWG NO.TITLETS-1TTLE SHEETT-1TYPICAL CROSS SECTIONPC-1PROJECT CONTROL PLANL-1, L-2LAYOUTP-1PROFILESE-1SUPER ELEVATION DIAGRAMCD-1, CD-2CONSTRUCTION DETAILSCG-1, CG-2CONTOUR GRADINGWPC-1WATER POLLUTION CONTROL PLANEC-1ECOSION CONTROL PLANEC-1CONSTRUCTION AREA SIGNSSC-1STAGE CONSTRUCTION - STAGE 1SC-2ASTAGE CONSTRUCTION - STAGE 2ASC-2BSTAGE CONSTRUCTION - STAGE 2ASC-2BSTAGE CONSTRUCTION - STAGE 2ASC-2ASTAGE CONSTRUCTION - STAGE 2ASC-2BSTAGE CONSTRUCTION - STAGE 2ASC-2BSTAGE CONSTRUCTION - STAGE 2ASC-2ASTAGE CONSTRUCTION - STAGE 2ASC-2BSTAGE CONSTRUCTION - STAGE 2ASC-2BSTAGE CONSTRUCTION - STAGE 2BST-1GENERAL PLANST-2DECK CONTOURSST-3FOUNDATION PLANST-4BRIDGE REMOVAL DETAILSST-5ABUTMENT 1 LAYOUTST-6ABUTMENT 2 LAYOUTST-10PRECAST SLAB LAYOUTST-11, ST-12PRECAST SLAB LAYOUTST-13, ST-14STEL TUBE RAIL DETAILSST-15 TO ST-18LOG OF TEST BORINGS	KINEVAN ROAD BRIDGE NO. 51C-0372 O FEDERAL PROJECT NO. BRLO-5951(138) COUI
TITLE SHEET TS-1 REVISION DATES (PRELIMINARY STAGE ONLY) N DATES	COUNTY OF SANTA BARBARA DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION

### <u>NOTES</u>

- 1. FOR ROADWAY CROSS SLOPES, SEE "SUPERELEVATION DIAGRAM" SHEET.
- 2. REFER TO CONTOUR GRADING SHEETS FOR DITCH AND CONFORM GRADING.
- 3. REFER TO LAYOUT SHEET AND CONSTRUCTION DETAILS FOR LIMITS OF TRANSITION RAILING (MOD).
- 4. TRAFFIC INDEX = 5, "R" VALUE = 51, DESIGN SPEED < 10MPH
- 5. EXISTING STRUCTURAL SECTION: 0.1'± AC, AB SECTION DEPTH UNKNOWN



CONSTRUCTION STARTED:	PROJECT ENGINEER:
CONSTRUCTION COMPLETED:	
RECORD DRAWING APPROVED BY:	

Exp.09/30/13

CIVIL

DATE

DRAWN BY:

S. JONES

CONSTRUCTABILITY REVIEW BY:

				<u> </u>			
SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE SHEET NO.					
			OVER SAN JOSE CREEK	2 OF 35			
NTS 862328				FILE NO.			
			BRIDGE NO. SIC-0372	*			
ISREGARD PRINTS BEARING ARLIER REVISION DATES			REVISION DATES (PRELIMINARY STAGE	ONLY)			
				• • •			
				• • •			

**TYPICAL CROSS SECTION** 

V 4

SAN JOSE CREEK

SAN JOSE CREEK

SAN JOSE CREEK

SURVEYOR'S NOTES:

ELEVATIONS (ORTHOMETRIC HEIGHTS) WERE DERIVED BY GPS OBSERVATION AND CONVERTED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) USING THE NATIONAL GEODETIC SURVEY'S PROGRAM GEOIDO9 HOLDING CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) COPR, ORES AND OZST BY HOLDING THE PUBLISHED CSRC ELIPSOID HEIGHTS.

ALL COORDINATE VALUES SHOWN ARE GRID VALUES. ALL DISTANCES ARE BASED ON THE U.S. SURVEY FOOT (ONE SURVEY FOOT = 1200/3937 METERS).

BASIS OF BEARINGS: THE BASIS OF BEARINGS IS BETWEEN CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) COPR AND OZST BY HOLDING THE CALIFORNIA COORDINATE SYSTEM 1983 (CCS83) ZONE 5, 2007.0 EPOCH PUBLISHED CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) VALUES, CALCULATED AND MEASURED AS N59'15'31.34"E 186,124.979'.

BOUNDARY NOTE: NO RIGHT-OF-WAY BOUNDARY LINES ARE SHOWN. FOR RIGHT OF WAY INFORMATION, SEE RECORDS AT COUNTY OFFICE.

NOTE: FOR COMPLETE PROJECT CONTROL AND MONUMENTATION DATA, SEE THE SURVEY RECORDS ON FILE IN THE SURVEYOR DIVISION AT THE COUNTY OFFICE.

ORES (

	CONTROL FOR DESIGN AND CONSTRUCTION								
PT. # NORTHING EASTING ELEVATION DESCRIPTION									
CP101	2011778.243	6011703.448	2004.76	SET 1" IRON PIPE W/PLASTIC PLUG "HZ CONTROL"					
P102	2011836.157	6011647.328	2002.56	SET 1" IRON PIPE W/PLASTIC PLUG "HZ CONTROL"					
P103	2011782.620	6011831.148	1999.40	SET MAG NAIL					
P104	2011841.663	6011965.765	1990.39	SET MAG NAIL					
P105	2011967.711	6012010.979	2029.37	SET MAG NAIL					
P106	2011944.894	6011939.141	2022.15	SET MAG NAIL					
P107	2011889.490	6011831.804	2012.59	SET MAG NAIL					
P108	2011880.809	6011723.538	2003.71	SET MAG NAIL					

## 95% PRELIMINARY DESIGN, NOT FOR CONSTRUCTION

KEVIN ROSS	COUNTY OF SANTA BARBARA No. C49652     DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION     DESIGN BY: S. JONES     CH S. JONES       COUNTY OF SANTA BARBARA DEPARTMENT OF PUBLIC WORKS CIVIL     DESIGN BY: S. JONES     CH S. JONES       FOR REDUCED PLANS     0     1     2     3	CHECKED BY:	SC	
B No. C49652	DEPARTMENT OF PUBLIC WORKS	S. JONES	D. MELIS	
DATE → Exp. <u>09/30/1</u> 3 ★ CIVIL →	TRANSPORTATION DIVISION	DRAWN BY: S. JONES	CONSTRUCTABILITY REVIEW BY: *	1"
OF CALIFOR	FOR REDUCED PLANS     0     1     2     3       ORIGINAL SCALE IN INCHES			DISR EARL

PROJECT ENGINEER: CONSTRUCTION STARTED CONSTRUCTION COMPLETED: RECORD DRAWING APPROVED BY:

10+00~

(CP101

CP102

12+00

KINEVAN ROAD

CP103

DROFESS/0

HORIZONTAL POSITIONS WERE DERIVED FROM GPS OBSERVATION HOLDING CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS), COPR, ORES AND OZST BY HOLDING THE CALIFORNIA COORDINATE SYSTEM 1983 (CCS83) ZONE 5, 2007.0 EPOCH PUBLISHED CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) VALUES.

### BASIS OF BEARINGS



### PROJECT CONTROL PLAN

PC-1 PROJECT NO. SHEET NO. CALE: KINEVAN ROAD BRIDGE 3 OF 35 OVER SAN JOSE CREEK = 20' 862328 FILE NO. BRIDGE No. 51C-0372 REVISION DATES (PRELIMINAR) REGARD PRINTS BEARING LIER REVISION DATES —



SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE SHEET N						KINEVAN ROAD BRIDGE					
		OVER SAN JOSE OPEEK					4	OF	35				
1" = 5'	862328		BRIDGE No. 51C-0372					FILE	NO.				
								*					
DISREGARD PRINTS BEARING					REVISION	I DATES	(PRELIM	NARY	STAGE	ONLY)			
EARLIER REVISION DATES		-	•	•		*	•	•	•	•	•		



										L-2	2	
SCALE:	PROJECT NO.		KINEVAN ROAD BRIDGE					KINEVAN ROAD BRIDGE SHEET NO.				
									5	OF	35	
1" = 5' 862328			OVER SAN JUSE CREEK					FILE	NO.			
			BRIDGE No. 51C-0372						*			
SREGARD PRINTS BEARING				REVISION	DATES	(PRELIMI	NARY	STAGE	ONLY)			
					•	•	ŀ	ŀ				

CURVE DATA								
No.	R	Δ	Т	L				
(C9)	300.00	8°36'30"	22.58	45.08				
(10)	200.00	12•40'20"	22.21	44.24				
(C1)	100.00	5*37'10"	4.91	9.81				

LAYOUT

ALIGNMENT CURVE DATA						
No.	R	Δ	Т	L		
C3	250.00	12°44'05"	27.90	55.57		

	120	pr-
/ / /		
/ / .	/ _	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
/ / / / / / / / / / / / / / / / / / / /		

8725 M2



PROFILE P-1

SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE SHEET NO.											
10' 1007													35
=10 HORZ =2' VERT		OVER SAN JOSE CREEK									NO.		
			BRIDGE No. 51C-0372								*		
ISREGARD PR	INTS BEARING			REVISI	ON	DATES	(PRELI	MINARY	STAGE	ONLY)	)		
ARLIER REVISION DATES			•	•		•	•	•	•	•			



## SUPERELEVATION DIAGRAM SE-1

SCALE:	PROJECT NO.		KINEVAN ROAD BRIDGE SHEET NO. 7 of 35									
												OF
" = 10' 862328			BRIDGE No. 51C-0372							FILE *	NO.	
ISREGARD PR				REVIS	ION	DATES	(PRELIMI	NARY	STAGE	ONLY)		
ARLIER REVIS	•	•	•		•			•	•		•	



RECORD DRAWING APPROVED BY:







HMA DRIVEWAY APRON DETAIL NO SCALE

 PROJECT ENGINEER:	K <u>EVIN ROS</u> S 50 No. <u>C49652</u> ★ Exp. <u>09/30/13</u> CIVIL	COUNTY OF SANTA BARBARA DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION	DESIGN BY: S. JONES DRAWN BY: S. JONES	CHECKED BY: D. MELIS CONSTRUCTABILITY REVIEW BY: *	4
	PTE OF CALIFORS	FOR REDUCED PLANS     0     1     2     3       ORIGINAL SCALE IN INCHES			

# CONSTRUCTION DETAILS CD-1

SCALE:	PROJECT NO.		KINEVAN ROAD BRIDGE								KINEVAN ROAD BRIDGE SHEET NO.									
			OVER SAN JOSE OPEEK									OF	35							
S SHOWN		BRIDGE No 51C-0372							FILE NO. *											
ISREGARD PR	INTS BEARING		REVISION DATES (PRELIMINARY STAGE ONLY)																	
ARLIER REVISION DATES			•	•			•		·	·										



											С	D-2	2		
SCALE:	PROJECT NO.		KIN	(INEVAN ROAD BRIDGE								SHEET NO.			
										9	OF	35			
S SHOWN	862328			BRIDGE No. 51C-0372							FILE *	NO.			
ISREGARD PR	INTS BEARING				REVISIO	ON D	ATES	(PRELIMI	NARY	STAGE	ONLY)				
ARLIER REVISION DATES															



### CONTOUR GRADING CG-1

										•	<u> </u>	-
SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE SHEET NO.										
			OVER SAN JOSE CREEK BRIDGE No. 51C-0372								) of	35
1" = 5'	862328										NO.	
ISREGARD PR			REVISION	N DATE	S (PRELIN	IINARY	STAGE	ONLY)				
ARLIER REVISION DATES			•	•		•		•	•			



<u>+61.07 7.55' LT</u> FL ELEV 2012.00 +46.02 7.81' LT FL ELEV 2011.00 G \_<u>+66.00</u> CONFORM 10 2013. 5 2012.; 20 2012. - EP 2012 4 fl Ś 2012. 2011.50 2011 25 2011.00 2011. 22 2010. 2010. 5 2010. 2005 199× TE ABU CONTOUR GRADING CG-2 SCALE: PROJECT NO. SHEET NO. KINEVAN ROAD BRIDGE 11 OF 35 OVER SAN JOSE CREEK 1" = 5' 862328 FILE NO. BRIDGE No. 51C-0372 REVISION DATES (PRELIMINARY STAGE ONLY 



12+98 WATER POLLUTION CONTROL NOTES:

- I. THE INFORMATION ON THESE PLANS IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER POLLUTION CONTROL PLAN (WPCP).
- 2. FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THESE DRAWINGS.
- 3. PERMANENT EROSION CONTROL WILL BE INSTALLED AS AREAS ARE DETERMINED TO BE SUBSTANTIALLY COMPLETE.
- 4. SEE STAGE CONSTRUCTION FOR LOCATION AND LIMITS OF CONSTRUCTION.
- 5. LINEAR SEDIMENT CONTROLS (FIBER ROLLS) WILL BE DEPLOYED ON DISTURBED SLOPES. THE CONTRACTOR SHALL APPLY LINEAR SEDIMENT CONTROLS ALONG THE TOE OF THE CUT AND FILL SLOPES AND AT THE GRADE BREAKS OF THE SLOPE. ADDITIONALLY, LINEAR SEDIMENT CONTROLS WILL BE USED AS A PERIMETER CONTROL TO CONTAIN SEDIMENT WITHIN THE PROJECT AREA.
- 6. A STAGING AREA WILL BE DESIGNATED AT THE PROJECT SITE BY THE CONTRACTOR AND APPROVED BY THE RESIDENT ENGINEER. BMPS SELECTED FOR THE CONSTRUCTION SITE WILL ALSO BE IMPLEMENTED IN THE STAGING AREA. SPECIAL ATTENTION TO THE FOLLOWING BMPS WILL BE TAKEN AT THE STAGING AREA: WE-1, NS-8, NS-9, NS-10, WM-1, WM-2, WM-3, WM-4, WM-5, WM-6, WM-8, AND WM-9.
- 7. ANY STOCKPILES WILL BE LOCATED AS FAR AS POSSIBLE, PREFERABLY A MINIMUM OF 50 FEET, AWAY FROM CONCENTRATED FLOWS OF STORM WATER AND DRAINAGE COURSES. ALL STOCKPILES SHALL BE BERMED. ADDITIONALLY, STOCKPILES WILL BE COVERED AT ALL TIMES (TO PROTECT THEM FROM THE WIND AND RAIN) WHEN THEY ARE NOT ACTIVELY BEING USED. STOCKPILES THAT ARE DESTABILIZED DURING CONSTRUCTION ACTIVITIES WILL BE SPRAYED WITH WATER AS NEEDED FOR DUST CONTROL.
- 8. AN ABOVE GRADE OR MOBILE CONCRETE WASHOUT WILL BE CONSTRUCTED OR PLACED AT THE STAGING AREA IF CONCRETE TRUCKS OR CONCRETE EQUIPMENT WILL BE WASHED ON-SITE. THE WASHOUT WILL BE LOCATED AS FAR AS POSSIBLE, PREFERABLY A MINIMUM OF 50 FEET, AWAY FROM CONCENTRATED FLOWS OF STORM WATER AND DRAINAGE COURSES. ADDITIONAL WASHOUTS WILL BE UTILIZED AS NEEDED.
- 9. A LICENSED SERVICE WILL DELIVER AND MAINTAIN PORTABLE RESTROOMS TO THE PROJECT AREA AS NEEDED. THE RESTROOMS WILL BE LOCATED AWAY FROM DRAINAGE FACILITIES ON LEVEL HARD-PACKED OR PAVED SURFACES.

# WATER POLLUTION CONTROL PLAN

WPC-1

SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE									
		OVER		12	2 OF	35					
' = 10'	862328	B	RIDG	E No.	. 510	-0372	2	`	FILE *	NO.	
SREGARD PR		RE	VISION	DATES	G (PRELIN	IINARY	STAGE	ONLY)			
ARLIER REVIS	ION DATES	 		•		•	•				



EROSION CONTR	ROL QUANTITIES
HYDROSEED	FIBER ROLL
SQYD	LF
141	325

# EROSION CONTROL PLAN EC-1

SCALE:	PROJECT NO.		KINEVAN ROAD BRIDGE									SHEET NO.						
			OVER SAN JOSE CREEK										35					
" = 10'	862328																	
			BRIDGE No. 51C-0372															
ISREGARD PR	INTS BEARING				REVIS	ION I	DATES	(PRELIM	INARY	STAGE	ONLY)							
ARLIER REVISION DATES			•	•					•	•								

INSTALL TRAFFIC CONTROL BARRIER (TYPE II) HEGHNMER BEGINNER	All of the second secon	STATIONAR LETTER CODE A R11-3b B R11-3b C W20-3 D R11-2 E G20-2 NOTE: 1. EXACT SIGN L 2. REFER TO STA 3. ALL CONSTRUC AND 2010 CA 4. WHEN FLAGGE USED. 5. THE CONTRAC SIGN, AS DIRE 6. ANY SIGHT DIS TRIMMED. 7. ROAD CLOSED LIGHTS (AMBE
CONSTRUCTION STARTED: CONSTRUCTION COMPLETED: RECORD DRAWING APPROVED BY:	PROJECT ENGINEER: PROJECT ENGINEER: DATE PROJECT ENG	STRUCTION CHECKED BY: D. MELIS CONSTRUCTABILITY REVIEW BY: NO

	ED CONSIR	OCHON	AREA SIGNS
PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
60" × 30"	1 – 4" × 4"	1	BRIDGE CLOSED 0.5 MILES AHEAD LOCAL TRAFFIC ONLY
60" × 30"	1 – 4" × 4"	1	BRIDGE CLOSED 1000 FEET AHEAD LOCAL TRAFFIC ONLY
36" x 36"	1 – 4" × 4"	2	ROAD CLOSED AHEAD
48" × 30"	MOUNTED ON TYPE III BARRICADES	3	ROAD CLOSED
36" x 18"	1 – 4" × 4"	1	END ROAD WORK

RY MOUNTED CONSTRUCTION AREA SIGNS

LOCATIONS TO BE DETERMINED BY THE ENGINEER.

AGE CONSTRUCTION PLANS FOR LOCATIONS OF BARRICADES.

JCTION AREA SIGNS MUST CONFORM TO 2012 (CA) MUTCD ALTRANS STANDARD PLANS.

ERS ARE USED, CALTRANS STANDARD PLAN T13 IS TO BE

TOR MUST COVER ANY CONFLICTING MESSAGES ON ANY ECTED BY THE ENGINEER,

ISTANCE OBSTRUCTION CAUSED BY VEGETATION MUST BE

SIGNS MOUNTED ON BARRICADES MUST HAVE WARNING ER FLASHING LIGHTS).



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											S	C-'	1
SCALE:	PROJECT NO.		KIN	FVZ	ΔN	RO	۵D	BRI	DGE	-	SHEE	ET NO.	
		OVER SAN JOSE OPEEK 15 OF 3					VER SAN IOSE CREEK					35	
" = 10'	= 10' 862328		OVER SAN JUSE CREEK						FILE	NO.			
			_	BRIDGE No. 51C-0372						*			
ISREGARD PE	RINTS BEARING		REVISION DATES (PRELIMINARY STAGE C						ONLY)				
ARLIER REVIS	SION DATES	-		•			•		•				





# **STAGE CONSTRUCTION - STAGE 2B**

PROJECT NO.		KIN	FVΖ	VN I	RO		BRI	DGE	-	SHEE	T NO.	
			FR SAN JOSE CREEK						-	17	<sup>7</sup> OF	35
862328		BRIDGE No. 51C-0372										
				REVISI	ON D	ATES	(PRELIM	INARY	STAGE	ONLY)		
ION DATES	-	•	•			•	•	ŀ				
	PROJECT NO. 862328 INTS BEARING ION DATES	PROJECT NO. 862328 INTS BEARING ION DATES	PROJECT NO.     KIN       862328     OVE       INTS BEARING ION DATES     INTERPOSE	PROJECT NO.     KINEVA       862328     OVER S       INTS BEARING ION DATES     INTS BEARING	PROJECT NO.     KINEVAN       862328     OVER SAN       BRIDGE NO.     BRIDGE NO.       INTS BEARING     REVISI       ION DATES     INTERVISION	PROJECT NO.     KINEVAN RO       862328     OVER SAN J       BRIDGE No.     BRIDGE No.       INTS BEARING     REVISION D	PROJECT NO.       KINEVAN ROAD         862328       OVER SAN JOS         BRIDGE No. 51C         INTS BEARING ION DATES	PROJECT NO.       KINEVAN ROAD BRI         862328       OVER SAN JOSE CR         BRIDGE No. 51C-0372         INTS BEARING         INTS BEARING         INTS BEARING	PROJECT NO.       KINEVAN ROAD BRIDGE         862328       OVER SAN JOSE CREE         BRIDGE No. 51C-0372         INTS BEARING ION DATES       REVISION DATES (PRELIMINARY	PROJECT NO.       KINEVAN ROAD BRIDGE         862328       OVER SAN JOSE CREEK         BRIDGE No. 51C-0372         INTS BEARING ION DATES       REVISION DATES (PRELIMINARY STAGE)	PROJECT NO.       KINEVAN ROAD BRIDGE       SHEE         862328       OVER SAN JOSE CREEK       17         BRIDGE NO. 51C-0372       FILE       18         INTS BEARING       REVISION DATES (PRELIMINARY STAGE ONLY)       NUMBER	PROJECT NO.       KINEVAN ROAD BRIDGE OVER SAN JOSE CREEK BRIDGE No. 51C-0372       SHEET NO. 17 OF FILE NO.         INTS BEARING ION DATES       REVISION DATES (PRELIMINARY STAGE ONLY)



	CORVE D	ATA	
R	Δ	Т	L
7.00'	110*49'32"	24.65'	32.88'
00.00	13°55'39"	12.21'	24.31'

# **GENERAL PLAN** ST-1

SCALE:	PROJECT NO.	KIN	FVAN I	ROA	D	RRII	ŊĠĔ	•	SHEE	ET No.	
AS SHOWN	10WN 862328 NINE VAN ROAD BRIDGE 1 BRIDGE No. 51C-0372				8 OF No.	35					
DISREGARD PE	INTS BEARING		REVISI	ON DA	TES (P	RELIMI	NARY	STAGE	ONLY)		
EARLIER REVIS	SION DATES	09/0/12	01/14/13 04/24/13	*	*	*	*	*	*	*	*



<u>Drawing</u>	<u>Title</u>
ST-1	General Plan
ST-2	Deck Contours
ST-3	Foundation Plan
ST-4	Bridae Removal Details
ST-5	Abutment 1 Layout
ST-6	Abutment 2 Layout
ST-7	Abutment Details No. 1
ST-8	Abutment Details No. 2
ST-9	Typical Section
ST-10	Precast Slab Layout
ST-11	Precast Slab Details No. 1
ST-12	Precast Slab Details No. 2
ST-13	Metal Tube Bridge Railing Details No. 1
ST-14	Metal Tube Bridge Railing Details No. 2
ST-15	Log of Test Borings No. 1
ST-16	Log of Test Borings No. 2
ST-17	Log of Test Borings No. 3
ST-18	Log of Test Borings No. 4

CONTOURS	DECK
ST-2	

SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE	SHEE	T No.		
AS SHOWN	862328	OVER SAN JOSE CREEK BRIDGE No. 51C-0372				
DISREGARD PE	INTS BEARING	REVISION DATES (PRELIMINARY STAGE	ONLY)			
EARLIER REVIS	SION DATES	09/07/12 01/10713 04/25/13 * * * * *	*	*	*	





<u>PLAN</u> 1"=10'

	HYD Drainag	ROLOGIC e Area =	SUMMA	ARY e miles			
	Design	Flood <sup>2</sup>	Base	Flood	Overtoppi	ng Flood³	Flood
	Clear— water	Bulked flow	Clear— water	Bulked flow	Clear— water	Bulked	Recor
Frequency (Years)	6	2	100	100	36	7	N/A
Discharge (Cubic feet per second)	470	470	1,080	1,805	850	850	N/A
Water Surface Elevation, ft (Elevation at bridge)	2,000	2,000	2,004	2,005	2,003	2,003	N/A

1. Flood plain data is based upon information available when the plans were prepared and are shown to meet federal requirements. The accuracy of said information is not warranted by the State, County or City and interested or affected parties should make their own investigation.

2. Provide 2'-0'' of freeboard within the existing channel walls.

3. Overtopping of the roadway.

### Note:

The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

# 95% PRELIMINARY DESIGN, NOT FOR CONSTRUCTION

í I	before ordering or labricating a	ny material.				,		
$\sum_{i=1}^{n}$	CONSTRUCTABILITY REVIEW BY: *		PROJECT ENGINEER:	<u>-</u> *	COUNTY O	F SANTA BARBARA	DESIGN BY:	CHECKED BY:
	LAYOUT BY:			S			J. GRANT	*
-	SPECIFICATIONS BY	CHECKED BY	· \[		DEPARIMENT	OF PUBLIC WORKS	DETAILS BY:	CHECKED BY:
5	*	*	DATE	CIVIL	IRANSPO	DRIATION DIVISION	K. DRESBACH	*
2	FLOOD CONTROL CHECK BY:	PLANS & SPECS COMPARED BY:	LIVE LOADING: HS20-44 AND ALTERNATIVE	OF CALIFOR	FOR REDUCED PLANS	0 1 2 3	QUANTITIES BY:	CHECKED BY:
;	*	*	AND PERMIT DESIGN LOAD		ORIGINAL SCALE IN INCHES		J. GRANI	*

PROFESS/OAL

### **BENCHMARK:**

See "Road Plans"

LEGEND:

O

### PILE DATA - CIDH PILES

Location	Pile Type	Cut off Elev (ft)	Compression (k)	Tension (k)	Design * Tip Elev (ft)	Specified Tip Elev (ft)
Abut 1	30" CIDH	1997.25	270	0	1967.00(1); 1967.00(2)	1967.00
Abut 2	30" CIDH	1997.25	280	0	1967.00(1); 1967.00(2)	1967.00

\* Design Tip Elevation is controlled by the following demands; (1) Compression; (2) Lateral Loads

1
- · · ·
· . · ·
Contraction of the local division of the loc
/
_
/

BEARING LOCATIONS						
€ Brg Abut 1	€ Brg Abut 2					
(1) Sta 10+89.78 N 2011852.3236 E 6011673.6833	2 Sta 11+32.28 N 2011868.2702 E 6011713.0949					

Indicates Bottom of Footing Elevation

Indicates 30"ø CIDH Pile with 36"ø Isolation Casing

## FOUNDATION PLAN ST-3

SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE	SHEET No.			
AS SHOWN	862328	OVER SAN JOSE CREEK BRIDGE No. 51C-0372	20 OF 35 FILE No. *			
DISPEGARD PRINTS REARING		REVISION DATES (PRELIMINARY STAGE C	DNLY)			
EARLIER REVIS	SION DATES		*	*		



# ST-4

SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE					
AS SHOWN	862328	OVER SAN JOSE CREEK BRIDGE No. 51C-0372	21 OF 35 FILE No. *				
DISREGARD PR	INTS BEARING	REVISION DATES (PRELIMINARY STAGE (	DNLY)				
EARLIER REVIS	SION DATES		*		*		



ABUTMENT SEAT ELEVATIONS AT BRG (Note 4)					
Location Elevation					
1	2001.69				
2	2001.56				

Indicates Limits of Neoprene Strip

2. For Neoprene Strip Detail, see "Detail 1" on "Abutment Details No. 1" sheet. For Section C-C and Section D-D, see "Abutment Details No. 2" sheet. 4. Abutment seat elevations are based on  $\frac{3}{4}$ " thick neoprene strip. 5. For dowel details, see "Precast Slab Details No. 1" sheet.

### **ABUTMENT 1 LAYOUT** ST-5

SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE	SHEET No.			
AS SHOWN	862328	OVER SAN JOSE CREEK BRIDGE No. 51C-0372	VER SAN JOSE CREEK BRIDGE No. 51C-0372			
DISREGARD PR	INTS BEARING	REVISION DATES (PRELIMINARY STAGE	ONLY)			
EARLIER REVIS	SION DATES		*	*		



ABUTMENT SEAT ELEVATIONS AT BRG (Note 4)					
Location	Elevation				
1	2002.07				
2	2002.21				

Indicates Limits of Neoprene Strip

1. For Section B-B, see "Abutment Details No. 1" sheet.

For Neoprene Strip Detail, see "Detail 1" on "Abutment Details No. 1" sheet. For Sections E-E and F-F, see "Abutment Details No. 2" sheet.

Abutment seat elevations are based on  $\frac{3}{4}$ " thick neoprene strip.

For dowel details, see "Precast Slab Details No. 1" sheet.

## **ABUTMENT 2 LAYOUT** ST-6

SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE				
AS SHOWN	862328	OVER SAN JOSE CREEK BRIDGE No. 51C-0372	23 OF 35 FILE No. *			
DISREGARD PR	INTS BEARING	REVISION DATES (PRELIMINARY STAGE	ONLY)			
EARLIER REVIS	SION DATES	09/04/12 01/14/13 04/26/13 * * * * * *		*		



# ST-7

SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE				
AS SHOWN	862328	OVER SAN JOSE CREEK BRIDGE No. 51C-0372	24 OF 35 FILE No. *			
DISREGARD PR	NTS BEARING	REVISION DATES (PRELIMINARY STAGE (	ONLY)			
EARLIER REVIS	SION DATES	09/04/12 01/14/13 04/26/13 * * * * * *		*	•	





TYPICAL SECTION 1/2"=1'-0"

The Contractor shall verify all controlling field dimensions before ordering or fabricating any material. 95% PRELIMINARY DESIGN, NOT FOR CONSTRUCTION CONSTRUCTABILITY REVIEW BY: \* DESIGN BY: CHECKED BY: COUNTY OF SANTA BARBARA PROJECT ENGINEER: GRANT LAYOUT BY: No. \* DEPARTMENT OF PUBLIC WORKS 5.\*\_\_\_\_ Exp.\*\_\_\_\_ CIVIL ETAILS BY: CHECKED BY: SPECIFICATIONS BY: CHECKED BY: TRANSPORTATION DIVISION DATE C. DRESBACH FLOOD CONTROL CHECK BY: PLANS & SPECS COMPARED BY: UANTITIES BY CHECKED BY LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD FOR REDUCED PLANS ORIGINAL SCALE IN INCHES OF CF GRANT

-1½" Min & varies Polyester Concrete Overlay. Thickness varies to match

### LEGEND:

(A)PC/PS Concrete Slab (Type SIII-48 Modified) (B) PC/PS Concrete Slab (Type SIII-48) (C)PC/PS Concrete Slab (Type SIII-36)

### NOTE:

See "Precast Slab Details No. 2" sheet for PC/PS Concrete Slab details.

## **TYPICAL SECTION** ST-9

SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE	DGF SHEET No.				
		OVER SAN JOSE CREEK	26 OF	35			
AS SHOWN	862328	BRIDGE No. 51C-0372	FILE No. *				
DISREGARD PR	INTS BEARING	REVISION DATES (PRELIMINARY STAGE (	ONLY)				
EARLIER REVIS	SION DATES		*	*			

270 ksi low relaxation strand:

P-jack 280 kips

Anchor set: ¾"

The Contractor shall submit working drawings to the Engineer for approval. The working drawings shall include any addition or rearrangement of reinforcing steel from that shown on the plans.

Design is based on u=0.15 and k=0.0002.

The post tensioning tendons shall be tensioned to snug tight conditions to close bottom gaps between girders.

After post tensioning tendons are snug tight, grout the key-ways and holes at abutments with non-shrink grout with minimum compressive strength of 5000 psi (in 24 hours). Allow grout to cure for 24 hours before stressing to final force.

Pressure grout duct and fill recess with non-shrink grout.

Differential deflection is anticipated between the girders. The Contractor shall be prepared to temporarily correct the differential camber in order to align the openings for installing the post tensioning.

P-jack specified is per diaphragm, total 2 diaphragms.



-∉ Bridge

See Transverse

Prestressing Notes-

### TRANSVERSE PRESTRESSING NOTES







GRANT

09/04/12 01/14/13 04/24/13



SCALE:	PROJECT NO.	KINEVAN ROAD BRIDGE SHEET NO.			
			30	0 OF	35
AS SHOWN	862328	UVER SAN JUSE UREEN	FILE N	۱o.	
		BRIDGE No. 51C-03/2	*		
		REVISION DATES (PRELIMINARY STAGE	ONLY)		
EARLIER REVISION DATES			<u> </u>		*





	\ \	DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
N. N	$\backslash$	05	SB	C.R.		32	35
7		OFR			CIET SISTER	ED GEOLOGIA. KIT	
V O		UER	TIFIED ENGINE	LEKING GEULG	Ta	No. 2412	
14	```	PLA	NS APPROVA	L DATE			
X		3911 West	West Cop	nto, CA	e 95691-2116	EOLOGIST	
0. /		JOB NO	2011-019	7–3	LOCATION: 3411	9-E7: 025N;	224W
+		NOTES: 1. Field "Descri	classification ption and Ident	of soils was in tification of Soi	accordance with ASTM Is (Visual-Manual Proce	D 2488-10 edure)".	
		2. Rock of the Geology	c classification Interior, "Engin y", (Compton, F	according to B neering Geology Robert R.).	ureau of Reclamation, Field Manual", and "Ma	U.S. Departm inual of Field	nent I
	>	1586-1 rods w liners.	10 using a ham ere 1 5/8-inch	nmer operated n diameter "A"-	with an automated dro -rods; sampler was dri	p system. Di ven with bra	rill SS
2005		4. The log. W resistan foot of the "st	length of each whole number b nce" interval in penetration is tandard penetro	sampled inter- low counts ("N accordance wi achieved, the ation resistance	val is shown graphically ") represent the "stand ith ASTM D1586-10. W blow count shown is fo " interval actually pene	on the bori lard penetrat here less th or that fract trated.	ng tion an 1 ion of
		5. When that fr	re indicated by action of the i	an asterisk (* nitial 0.5 ft. "s	) the number of blows eating drive" interval p	shown is for enetrated.	only
		6. SP (ERi) n	T hammer mea neasurements i	surements were ndicate an ERi:	e not taken. Recent ha =83% on 5/4/2012.	mmer energy	ratio
		7. Rock Bedding describ in the	Quality Desigr g, and Fracture e all rock core field.	nation (RQD), W Density, as sl from borings	leathering, Rock Hardne nown on this sheet, we drilled in. Descriptors	ss/Strength, re used to were determ	ined
		8. REC	= Core Recove	ery (percent). v Designation (	nercent)		
	2010	10. Gro Log of	undwater surfa Test Boring St d date.	ice (GWS) eleva heets reflect th	tions in the borings ind e fluid level in the bor	dicated on ti ings on the	ne
		11. Gra may or particu	oundwater surfa ccur at higher lar time.	ice elevations o or lower elevat	are subject to seasonal ions depending on the	fluctuations conditions a	and t any
, dry ND. moist	2000	12. Bor person	ing elevations nel in the field.	and channel pr	ofile were surveyed by	Taber Consu	ltants
silty clay with fine sand	1	13. Ele July 18	ctronic media 1 1, 2012.	for plan view p	rovided by Santa Barba	ra County Di	PW on
ed, soft, highly fracture	"1990	14. The with Se	e "Log of Test action 2-1.03 of	Borings" drawir of Caltrans "Ste	ng is included with plan andard Specifications".	s in accorda	ince
							EET)
, soft, highly ine GRAVEL ard, intensely fractured						198	0_ <sup>⊑</sup>
rd, 6" thick ed below 35.8', to 20.7',							0 -
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ISION DATES						32	35





	DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
	05	SB	C.R.		34	35
	CER	TIFIED ENGINE	EERING GEOLO	DGIST	ED <u>GEOLOG</u> A. K/TZA	NW ST
	PLA TABE 3911 West	NS APPROVAL ER CONSUL <sup>-</sup> West Cap Sacramer	L DATE TANTS hitol Avenu hto, CA S	e 95691−2116	CERTIFIED GINEERING EOLOGIST OF CALIFOR	
	JOB NOTE	<u>2011–019</u>	7–3	LOCATION: 3411	9-E7: 025N;	<u>224W</u>
	1. Fie "Desc	eld classification cription and Ide	n of soils was intification of S	in accordance with AST ioils (Visual—Manual Pro	M D 2488-1 cedure)".	10
	2. St 1586 rods liners	–10 using a ho were 1 5/8–in a.	and tests were ammer operated ch diameter "A	with an automated d "-rods; sampler was d	rop system. rop system. riven with b	m D Drill rass
	3. Th log. resist foot	e length of ead Whole number tance" interval of penetration	ch sampled inte blow counts (' in accordance is achieved, th	erval is shown graphical 'N") represent the "star with ASTM D1586-10. e blow count shown is	ly on the b ndard peneti Where less for that fra	oring ration than 1 ction of
	4. SP	standard penet T hammer mea measurements	ration resistant surements wer indicate on FF	ce interval actually per e not taken. Recent ha Ri=83% on 5/4/2012	netrated. Immer energ	iy ratio
	5. Bo perso	oring elevations	and channel pi	rofile were surveyed by	Taber Consu	ultants
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	7. Th with	e "Log of Test Section 2–1.03	Borings" drawi of Caltrans "S	ng is included with plar Standard Specifications".	ns in accord	ance
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E [	OG OI	F TFS	TRO	RINGS		
PRINTS BEARING	R	EVISION DATES (F		GE ONLY)	SHEET 34	OF 35
#### WEATHERING DESCRIPTORS

Descriptora	Diagnostic features						
	Chemical weathering-Di and/or oxidati	Mechanical weathering- Grain boundary conditions	Texture and solutioning		General characteristic		
	Body of rock	Fracture surfaces †	(disaggregation) primarily for granitics and some coarse—grained sediments	Texture	Solutioning	(strength, excavation, etc.) 9	
Freah	No discoloration, not oxidized	No discoloration or oxidation	No separation, intact (tight)	No change	No solutioning	Hammer rings when crystalline rocks are struck. Almost always rock excavation except for naturally wask or weakly cemented rocks such as siltstones or sholes.	
Slightly weathered to fresh						A.	
Slightly weathered	Discoloration or oxidation is limited to surface of, or short distance from, fractures; some feldspar crystals are dull	Minor to complete discoloration or oxidation of most surfaces	No visible separation, Intact (tight)	Preserved	Minor leaching of some soluble minerals may be noted	Hammer rings when crystalline rocks are struck. Body of rock not weakened. With few exceptions, such as slitstones or shales, classified as rock excavation.	
Moderately to slightly weathered						1000 CON6-	
Moderately weathered	Discoloration or oxidation extends from fractures usually throughout; Fe-Mg minerals are "rusty", feldspor crystals are "cloudy".	All fracture surfaces are discolored or oxidized	Partial separation of boundaries visible	Generally preserved	Soluble minerals may be mostly leached	Hammer does not ring when rock is struck. Body of rock is slightly weakened. Depending on fracturing, usually is rock excavation except in naturally weak rocks such as slitstones or shales	
Intensely to moderately weathered					1		
Intensely weothered	Discoloration or exidation throughout; all feldspars and Fe-Mg minerals are altered to clay to some extent; or chemical alteration produces in situ disaggregation, see grain boundary conditions.	All fracture surfaces are discolored or oxidized, surfaces friable	Partial separation, rack is friable; in semiarid conditions granitics are disoggregated	Texture oltered by chemical disintegration (hydration, argillation)	Leaching of soluble minerals may be complete	Dull sound when struck with hammer, usually can be broken with moderate to heavy manual pressure or by light hammer blow without reference to planes of weakness such as incipient or hairline fractures, or veinlets. Rock is significantly weakened. Usually common servantion.	
Very Intensely weathered						Common excertation.	
Decomposed	Discolared or oxidized throughout, but resistant minerais such as quartz may be unaitered; all feldspars and Fe-Mg minerais are completely altered to clay.		Complete separation of grain boundaries (disaggregated)	Resembles a soli, partial or complete remnant rock structure may be preserved; leaching of soluble minerals usually complete		Can be granulated by hand. Always common excavation. Resistant minerals such as quartz may be present as "stringers" or "dikes".	



NOTE: This chart and its horizontal categories are more readily applied to rocks with feldspars and mafic minerals. Weathering in various sedimentary rocks, particularly limestones and poorly indurated sediments, will not always fit the categories established. This chart and weathering categories may have to be modified for particular site conditions or alterations such as hydrothermal effects; however, the basic framework and similar descriptors are to be used.

Combination descriptors are permissible where equal distribution of both weathering characteristics are present over significant intervals or where characteristics present are "In between" the diagnostic feature. However, dual descriptors should not be used where significant, identifiable zones can be delineated. When given as a range, only two adjacent terms may be combined (i.e., decomposed to slightly weathered or moderately weathered to fresh) are not acceptable.

<sup>†</sup> Does not include <u>directional</u> weathering along shears or faults and their associated features. For example, a shear zone that carried weathering to great depths into a fresh rock mass would not require the rock mass to be classified as weathered.

§ These are generalizations and should not be used as diagnostic features for weathering or excavation classification. These characteristics vary to a large extent based on naturally weak materials or cementation and type of excavation.

#### **ROCK HARDNESS/STRENGTH DESCRIPTORS**

Descriptor	Criteria				
Extremely hard	Core, fragment, or exposure cannot be scratched with knife or sharp pick; can only be chipped with repeated heavy hammer blows.				
Very hard	Can be scratched with knife or sharp pick. Core or fragment breaks with repeated heavy hammer blows.				
Hard	Can be scratched with knife or sharp pick with difficulty (heavy pressure). Heavy hammer blow required to break specimen.				
Moderately hard	Can be scratched with knife or sharp pick with light or moderate pressure. Core or fragment breaks with moderate hammer blow.				
Moderately soft	Can be grooved 1/16 Inch (2 mm) deep by knife or sharp pick with moderate or heavy pressure. Core or fragment breaks with light hammer blow or heavy monual pressure.				
Soft	Can be grooved or gouged easily by knife or sharp pick with light pressure, can be scratched with fingernail. Breaks with light to moderate manual pressure.				
Very soft	Can be readily indented, grooved or gouged with fingernaïi, or carved with a knife. Breaks with light manual pressure.				
Any bedrock unit	softer than very soft, is to be described using USBR 5000 consistency descriptors				

Descriptor	Thickness/spocing	
Mossiva	Greater than 10 ft (3 m)	
Very thickly, (bedded, foliated, or banded)	3 to 10 ft (1 to 3 m)	
Thickly	1 to 3 ft (300 mm to 1 m)	
Moderately	0.3 to 1 ft (100 to 300 mm)	
Thinly	0.1 to 0.3 ft (30 to 100 mm)	

#### BEDDING, FOLIATION, OR FLOW TEXTURE DESCRIPTORS

0.03 [3/8 in] to 0.1 ft (10 to 30 mm)

Less than 0.03 ft [3/8 in] (<10 mm)

FRACTURE DENSITY — Based on the spacing of <u>all natural</u> fractures in an exposure or core recovery lengths in drill holes; <u>excludes mechanical brecks, shears, and shear zones</u>; however, shear-distributed zones (fracturing outside the shear) are included. Descriptors for fracture density apply to all rock exposures such as tunnel walls, dozer trenches, outcrops, or foundation cut slopes and inverts, as well as borcholes. Descriptive criteria presented below are based on drill hole cores where lengths are measured along the core axis, for other exposures the criteria is distance measured between fractures (size of blocks). UNFRACTURED: No/observed fractures. VERY SLIGHTLY FRACTURED: Core recovered mostly in lengths greater than 3 feet (1 m). SLIGHTLY TO VERY SLIGHTLY FRACTURED SLIGHTLY FRACTURED: Core recovered mostly in lengths from 1 to 3 feet (300 to 1000 mm) with few scattered lengths less than 1 foot (300 mm) or greater than 3 feet (1000 mm). MODERATELY TO SLIGHTLY FRACTURED

MODERATELY FRACTURED: Core recovered mostly in 0.33 to 1.0 foot (100 to 300 mm) lengths with most lengths about 0.67 foot (200 mm).

INTENSELY TO MODERATELY FRACTURED

INTENSELY FRACTURED: Lengths average from 0.1 to 0.33 foot (30 to 100 mm) with scattered fragmented Intervals. Core recovered mostly in lengths less than 0.33 foot (100 mm).

VERY INTENSELY TO INTENSELY FRACTURED

VERY INTENSELY FRACTURED: Core recovered mostly as chips and fragments with a few scattered short core lengths.

Combinations of fracture densities (e.g. very intensely to intensely fractured or moderately to slightly fractured) are used where equal distribution of both fracture density characteristics are present over a significant interval or exposure, or where characteristics are "In between" the descriptor definitions.

	Source	ce: U.S. Department of In	terior, Bureau of Rec	lamation "Engineering Geology Field Mo	anual".			
	DESIGN OVERSIGHT	DRAWN BY	M. D. Robertson	K. M. Kajiwara FIELD INVESTIGATOR	PREPARED FOR		BRIDGE NO. 21C-214	ſ
SIGN OFF DATE	CHECKED BY	D. A. Kitzmann	DATE June 2012	JANTA BAKBAKA LUUNTI DEPARTMENT DF PUBLIC WORKS	PROJECT ENGINEER	POST MILE		
/07/2012 USBRSHEET.dwg							DISREGARD PRINT	IS I

Very thinly

Laminated (Intensely foliated or banded)

0



FRACTURE DENSITY

Average crystal diameter Descriptor Very coarsa-grained or pegmotic > 3/8 inch Coorse-grained 3/16-3/8 Inch

1/32-3/16 inch

0.04-1/32 inch

<0.04 Inch

Medium-grained

Aphanitic (cannot be seen with the unaided eye)

Fine-grained

GRAIN SIZE DESCRIPTORS

IGNEOUS AND METAMORPHIC ROCK

# 12.4 Appendices D Public Comment Letter

**STATE OF CALIFORNIA** 

#### NATIVE AMERICAN HERITAGE COMMISSION

915 CAPITOL MALL, ROOM 364 SACRAMENTO, CA 95814 (916) 653-6251 (916) 657-5390 - FAX

April 2, 2013

Morgan Jones

## **County of Santa Barbara**

123 E. Anapamu Street Santa Barbara, CA 93101-2065

> RE: SCH# 2013031698 CEQA Notice of Completion; proposed Mitigated Negative Declaration – "**Kinevan Road Bridge 51C-214 Bridge Replacement Project;**" located in the Gol;eta area; Santa Barbara County, California

#### **Dear Morgan Jones**

The Native American Heritage Commission (NAHC) has reviewed the CEQA Notice regarding the above referenced project. In the 1985 Appellate Court decision (170 Cal App 3<sup>rd</sup> 604), the court held that the NAHC has jurisdiction and special expertise, as a state agency, over affected Native American resources impacted by proposed projects, including archaeological places of religious significance to Native Americans, and to Native American burial sites.

The California Environmental Quality Act (CEQA) states that any project that causes a substantial adverse change in the significance of an historical resources, which includes archeological resources, is a significant effect requiring the preparation of an EIR (CEQA guidelines 15064(b)). To adequately comply with this provision and mitigate project-related impacts on archaeological resources, the Commission recommends the following actions be required:

Contact the appropriate Information Center for a record search to determine :If a part or all of the area of project effect (APE) has been previously surveyed for cultural resources, which we know that it has. The NAHC recommends that known cultural resources recorded on or adjacent to the APE be listed in the draft Environmental Impact Report.

If an additional archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey. We suggest that this be coordinated with the NAHC, if possible. The final report containing site forms, site significance, and mitigation measurers should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for pubic disclosure pursuant to California Government Code Section 6254.10. Contact has been made to the Native American Heritage Commission for :a Sacred Lands File Check. A list of appropriate Native American Contacts for consultation

concerning the project site has been provided and is attached to this letter to determine if the proposed active might impinge on any cultural resources. Lack of surface evidence of archeological resources does not preclude their subsurface existence.

Lead agencies should include in their mitigation plan provisions for the identification and evaluation of accidentally discovered archeological resources, per California Environmental Quality Act (CEQA) §15064.5(f). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American, with knowledge in cultural resources, should monitor all ground-disturbing activities. Lead agencies should include in their mitigation plan provisions for the disposition of recovered artifacts, in consultation with culturally affiliated Native Americans. Lead agencies should include provisions for discovery of Native American human remains in their mitigation plan. Health and Safety Code §7050.5, CEQA §15064.5(e), and Public Resources Code §5097.98 mandates the process to be followed in the event of an accidental discovery of any human remains in a location other than a dedicated cemetery.

Sincerely Dave Singleton Program-Analyst (916) 653-6251

CC: State Clearinghouse

Attachment: Native American Contacts list

### Native American Contacts Santa Barbara County April 2, 2013

Ernestine DeSoto 1311 Salinas Place # 5 Santa Barbara CA 93103 805-636-3963

Chumash

Chumash

Tataviam

Ferrnandeño

Patrick Tumamait 992 El Camino Corto Ojai , CA 93023 (805) 640-0481 (805) 216-1253 Cell

Chumash

Beverly Salazar Folkes 1931 Shadybrook Drive Thousand Oaks, CA 91362 805 492-7255 (805) 558-1154 - cell San Luis Obispo County Chumash Council Chief Mark Steven Vigil 1030 Ritchie Road Chumash Grover Beach CA 93433 (805) 481-2461 (805) 474-4729 - Fax

Santa Ynez Band of Mission Indians Vincent Armenta, Chairperson P.O. Box 517 Chumash Santa Ynez, CA 93460 varmenta@santaynezchumash.

(805) 688-7997 (805) 686-9578 Fax

Barbareno/Ventureno Band of Mission Indians Julie Lynn Tumamait-Stennslie, Chair 365 North Poli Ave Chumash Ojai , CA 93023 jtumamait@sbcglobal.net (805) 646-6214 John Ruiz 1826 Stanwood Drive Santa Barbara CA 93103 (805) 965-8983

Chumash

Gilbert M. Unzueta Jr. 571 Citation Way Thousand Oaks, CA 91320 uhuffle@aol.com (805) 375-7229

Chumash

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed SCH#2013031069; CEQA Notice of Completion; proposed Mitigated Negative Declaration for the Kinevan Raod Bridge 51C-214 Bridge Replacement; located in the Goleta area; Santa Barbara County, California.

**Owl Clan** Qun-tan Shup 48825 Sapaque Road Chumash , CA 93426 Bradley mupaka@gmail.com (805) 472-9536 phone/fax (805) 835-2382 - CELL

Stephen William Miller 189 Cartagena Chumash , CA 93010 Camarillo (805) 484-2439

**Native American Contacts** Santa Barbara County April 2, 2013

> Coastal Band of the Chumash Nation Toni Cordero, Chairwoman P.O. Box 4464 Chumash Santa Barbara CA 93140 cordero44@charter.net 805-964-3447

Charles S. Parra P.O. Box 6612 Oxnard , CA 93031 (805) 340-3134 (Cell) (805) 488-0481 (Home)

Chumash

Santa Ynez Tribal Elders Council Adelina Alva-Padilla, Chair Woman P.O. Box 365 Chumash Santa Ynez , CA 93460 elders@santaynezchumash.org (805) 688-8446 (805) 693-1768 FAX

Santa Ynez Band of Mission Indians Tribal Admin/Counsel Sam Cohen P.O. Box 517 Chumash Santa Ynez CA 93460 info@santaynezchumash.org

(805) 688-7997 (805) 686-9578 Fax

Randy Guzman - Folkes 6471 Cornell Circle , CA 93021 Moorpark ndnRandy@yahoo.com (805) 905-1675 - cell

Chumash Fernandeño Tataviam **Shoshone Paiute** Yaqui

Carol A. Pulido **165 Mountainview Street** Chumash Oak View , CA 93022 805-649-2743 (Home)

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Melissa M. Parra-Hernandez 119 North Balsam Street Chumash Oxnard , CA 93030 envyy36@yahoo.com 805-983-7964 (805) 248-8463 cell

Frank Arredondo PO Box 161 Chumash Santa Barbara CA 93102 ksen\_sku\_mu@yahoo.com 805-617-6884 805-893-1459 ksen\_sku\_mu@yahoo.com

Santa Ynez Tribal Elders Council Freddie Romero, Cultural Preservation ConsInt P.O. Box 365 Chumash Santa Ynez , CA 93460 805-688-7997, Ext 37

freddyromero1959@yahoo. com

Barbareno/Ventureno Band of Mission Indians Kathleen Pappo 2762 Vista Mesa Drive Rancho Pales Verdes CA 90275

310-831-5295

#### Native American Contacts Santa Barbara County April 2, 2013

Barbareno/Ventureno Band of Mission Indians Raudel Joe Banuelos, Jr. 331 Mira Flores Court Chumash Camarillo , CA 93012 805-987-5314

Coastal Band of the Chumash Nation Janet Darlene Garcia P.O. Box 4464 Chumash Santa Barbara CA 93140 805-689-9528

Coastal Band of the Chumash Nation Crystal Baker P.O. Box 4464 Chumash Santa Barbara CA 93140 805-689-9528

Coastal Band of the Chumash Nation Michael Cordero 5246 El Carro Lane Chumash Carpinteria , CA 93013 805-684-8281

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