

# **Interstate 8 Culvert Rehabilitation**

In San Diego County at various locations from 0.7 miles west of Flinn Springs Road

Undercrossing to 0.2 miles east of Crestwood Road Undercrossing

District 11 – SD – 8 – PM R23.0/R61.3

Project ID:1115000178, EA: 11-42210

## **Initial Study with Proposed Mitigated Negative Declaration**



Prepared by the  
State of California Department of Transportation

**May 2019**



## General Information About This Document

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The California Department of Transportation (Caltrans) has prepared this Initial Study to examine the potential environmental impacts of the alternatives considered for the proposed project located in San Diego County, California.

You can also view this document online at <http://www.dot.ca.gov/d11/environmental/> and the following locations:

- Campo-Morena Village Library, 31356 Highway 94, Campo, CA 91906
- El Cajon Library, 201 East Douglas Avenue, El Cajon, CA 92020
- Caltrans District 11 Office, 4050 Taylor Street, San Diego, CA 92110

If you have any concerns about the project, please send your written comments to Caltrans by the deadline. Submit comments via U.S. mail to the following address:

Caltrans District 11  
Attn: San Li  
4050 Taylor Street, MS 242  
San Diego, CA 92110

Submit comments via email to: [san.li@dot.ca.gov](mailto:san.li@dot.ca.gov).

Submit comments by the deadline: **June 11, 2019**

After comments are received from the public and reviewing agencies, Caltrans may 1) give environmental approval to the proposed project, 2) do additional environmental studies, or 3) abandon the project. If the project is given environmental approval and funding is appropriated, Caltrans could design and build all or part of the project.

For individuals with sensory disabilities, this document is available in Braille, in large print, on audiocassette, or on computer disk. To obtain a copy in one of these alternate formats, please write to or call Caltrans, Attn: San Li, 4050 Taylor Street, MS 242, San Diego, CA 92110; 619-688-3139, 619-688-6650 (TTY), or use California Relay Service 1 (800) 735-2929 (Voice and TTY) or 711.

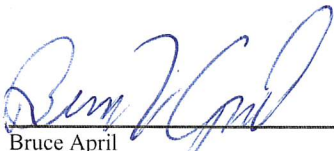
Rehabilitate culverts at various locations in San Diego County on Interstate 8 from 0.7 miles west of Flinn Springs  
Road Undercrossing to 0.2 miles east of Crestwood Road Undercrossing

**INITIAL STUDY WITH PROPOSED MITIGATED NEGATIVE  
DECLARATION**

Submitted Pursuant to: (State) Division 13, California Public Resources Code

THE STATE OF CALIFORNIA  
Department of Transportation

5/9/2019  
Date

  
\_\_\_\_\_  
Bruce April  
Deputy District Director, Environmental  
District 11  
California Department of Transportation



## **Proposed Mitigated Negative Declaration**

Pursuant to: Division 13, Public Resources Code

### ***Project Description***

The California Department of Transportation (Caltrans) proposes to rehabilitate thirteen culverts at various locations on Interstate 8 from post mile R23.0 near Flinn Springs Road to post mile R61.3 near Crestwood Road in San Diego County.

### ***Determination***

This proposed Mitigated Negative Declaration is included to give notice to interested agencies and the public that it is Caltrans' intent to adopt a Mitigated Negative Declaration for this project. This does not mean that Caltrans' decision on the project is final. This Mitigated Negative Declaration is subject to change based on comments received by interested agencies and the public.

Caltrans has prepared an Initial Study for this project and, pending public review, expects to determine from this study that the proposed project would not have a significant effect on the environment for the following reasons.

The proposed project would have no impact on the following:

- Aesthetics
- Agriculture and Forest Resources
- Air Quality
- Geology and Soils
- Greenhouse Gas Emissions
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation/Traffic
- Utilities and Service Systems
- Wildfire

In addition, the proposed project would have no significant impact on the following:

- Hazards and Hazardous Materials
- Hydrology and Water Quality



With the incorporation of mitigation measures, the proposed project would have less than significant impacts on the following resources:

Biological Resources:

- Work windows at culvert locations 2 through 6 will be implemented to avoid impacts to listed species.
- At the other culvert locations, if work extends into the nesting and breeding season, pre-construction surveys will be conducted by a qualified biologist and a no-work buffer will be determined.
- Environmentally Sensitive Areas (ESAs) will be established where listed species and their habitat may occur.
- Temporary stream diversions will be implemented when necessary during culvert work to preserve downstream habitat. Best Management Practice (BMP) measures shall be installed and maintained to prevent any discharge from flowing downstream.

Cultural Resources/Tribal Cultural Resources:

- An ESA Action Plan will be implemented during construction to establish avoidance and buffer zones to prevent impacts to cultural resources.

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Bruce April  
Deputy District Director, Environmental  
District 11  
California Department of Transportation

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Date





# Project Description and Background

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## ***Project Title***

Interstate 8 Culvert Rehabilitation and Repair

## ***Project Location***

The project is located on Interstate 8 (I-8) near the communities of Flinn Springs, Los Terrenitos, Pine Valley, and Live Oak Springs in the eastern part of San Diego County. There are thirteen individual culvert locations across both eastbound and westbound I-8 between post mile R23.0 near Flinn Springs Road and post mile R61.3 near Crestwood Road in San Diego County.

## ***Project Description***

The California Department of Transportation (Caltrans) proposes to rehabilitate thirteen culverts at various locations on Interstate 8 from post mile R23.0 to post mile R61.3 in San Diego County. Work includes either invert paving the bottom of the culvert pipe or slip lining the culvert interior and streambed improvements and/or energy dissipation remediation at the outlet. No culvert replacement is proposed.

Temporary construction impacts include vegetation removal at the culvert ends, debris flushing to clean the inside of the culvert, temporary staging areas, and temporary access paths.

Table 1 lists the location and summary of work for each culvert.

**Table 1: Culvert Locations and Proposed Scope of Work**

<b>Culvert Location No.</b>	<b>Post Miles</b>	<b>Description of Culvert</b>	<b>Proposed Scope of work</b>
1	R23.73	This is a 13 feet diameter, corrugated steel pipe (CSP) culvert.	The inside of the culvert would be cleaned, and the bottom would be paved with concrete (i.e. invert paving). Excess deposits at the inlet would be removed. Rock slope protection (RSP) would be installed in eroded areas in the embankment and channel.
2	R37.35	This is a 24 inch and 48 inch diameter, double inlet CSP culvert.	The inside of the culvert would be cleaned and slip-lined. Debris would be removed at the outlet.

3A - 3B	R39.99 — R40.01	This culvert complex involves five multiple inlets joining together into one outlet. The culverts are all CSP and vary from 24 inch to 48 inch in diameter.	The inside of the five pipes will be cleaned and slip-lined. Debris would be removed at the single outlet.
4	R41.19	This is a 36 inch diameter, CSP culvert.	The inside of the culvert would be cleaned and slip-lined. The bottom of the culvert outlet will be repaired.
5	R41.58	This is a 36 inch diameter, CSP culvert	The inside of the culvert would be cleaned and slip-lined.
6	R48.30	This is a double culvert complex. Both culverts are parallel side-by-side and are each 7 feet in diameter with individual inlets and outlets.	Debris would be removed at both inlets. The inside of both culverts would be cleaned and the bottoms would be paved with concrete.
7	R57.41	This is a 48 inch diameter, CSP culvert.	No work inside the culvert pipe is proposed. The outlet end requires remediation to better dissipate water energy and flow. This includes removing unstable soil, importing new material to replace eroded material, and adding RSP to the channel bed.
8	R58.00	This is a 6 feet diameter, CSP culvert.	No work inside the culvert pipe is proposed. The outlet end requires remediation to better dissipate water energy and flow. This includes removing unstable soil, importing new material to replace the eroded material, and may include adding a combination of RSP and gabion cages along the streambed. Work may extend outside Caltrans right-of-way by approximately 100 feet. Existing guardrail will be removed and replaced with Midwest guardrail system (MGS).
9	R58.65	This is a 48 inch diameter, CSP culvert.	No work inside the culvert pipe is proposed. The outlet end requires remediation to better dissipate water energy and flow. This includes removing unstable soil, importing new

			material to replace the eroded material, and may include adding a combination of RSP and gabion cages along the streambed. Work may extend outside Caltrans right-of-way by approximately 100 feet.
10	R58.85	This is a 36 inch diameter, CSP culvert.	No work inside the culvert pipe is proposed. The outlet end requires remediation to better dissipate water energy and flow. This includes removing unstable soil, importing new material to replace the eroded material, and may include adding a combination of RSP and gabion cages along the streambed. Work may extend outside Caltrans right-of-way by approximately 100 feet.
11	R59.05	This is a 36 inch diameter, CSP culvert.	No work inside the culvert pipe is proposed. The outlet end requires remediation to better dissipate water energy and flow. This includes removing unstable soil, importing new material to replace the eroded material, and may include adding a combination of RSP and gabion cages along the streambed. Work may extend outside Caltrans right-of-way by approximately 100 feet. Existing guardrail will be removed and replaced with MGS.
12	R61.10	This is a 9 feet diameter, CSP culvert.	The inside of the culvert would be cleaned and the bottom would be paved with concrete. The outlet embankment would be stabilized with RSP and imported soil. Existing guardrail will be removed and replaced with MGS.

*CSP: Corrugated steel pipe. RSP: Rock slope protection. MGS: Midwest guardrail system.*

Caltrans is the lead agency for both the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). Caltrans is the NEPA lead agency on behalf of the Federal Highway Administration per 23 United States Code 326 because the proposed project has federal funding. The project is anticipated to be Categorical Excluded under NEPA.

### ***Purpose and Need***

The purpose of this project is to extend the service life of the roadway. The culverts in this project either have deterioration inside the culvert pipe and/or erosion at the outlet. The culverts with damaged pipes need to be rehabilitated in order to prevent culvert failure and roadway collapse. The culverts with erosion at the outlet need energy dissipation remediation to prevent slope failure adjacent to the shoulder and roadway.

### ***Surrounding Land Uses and Setting***

The project is located along a rural section of Interstate 8 between the communities of Flinn Springs and Live Oak Springs. Surrounding land uses include rural residential, open space, and agriculture.

### ***Other Public Agencies Whose Approval is Required***

<b>Agency</b>	<b>Permit/Approval</b>	<b>Status</b>
U.S. Fish and Wildlife Service	Federal Endangered Species Act Section 7 Consultation	In progress
U.S. Army Corps of Engineers	Clean Water Act Section 404 Nationwide Permit	In progress
California Department of Fish and Wildlife	Fish and Game Code Section 1602 Lake and Streambed Alteration Agreement	In progress
Regional Water Quality Control Board	Clean Water Act Section 401 Certification	In progress
Bureau of Indian Affairs	Archaeological Resources Protection Act Permit Waiver	Obtained 12/18/18
State Historic Preservation Officer	National Historic Preservation Act Section 106 Consultation Concurrence	In progress



1:633,600  
0 10 Miles

Figure 1  
Project Location Map



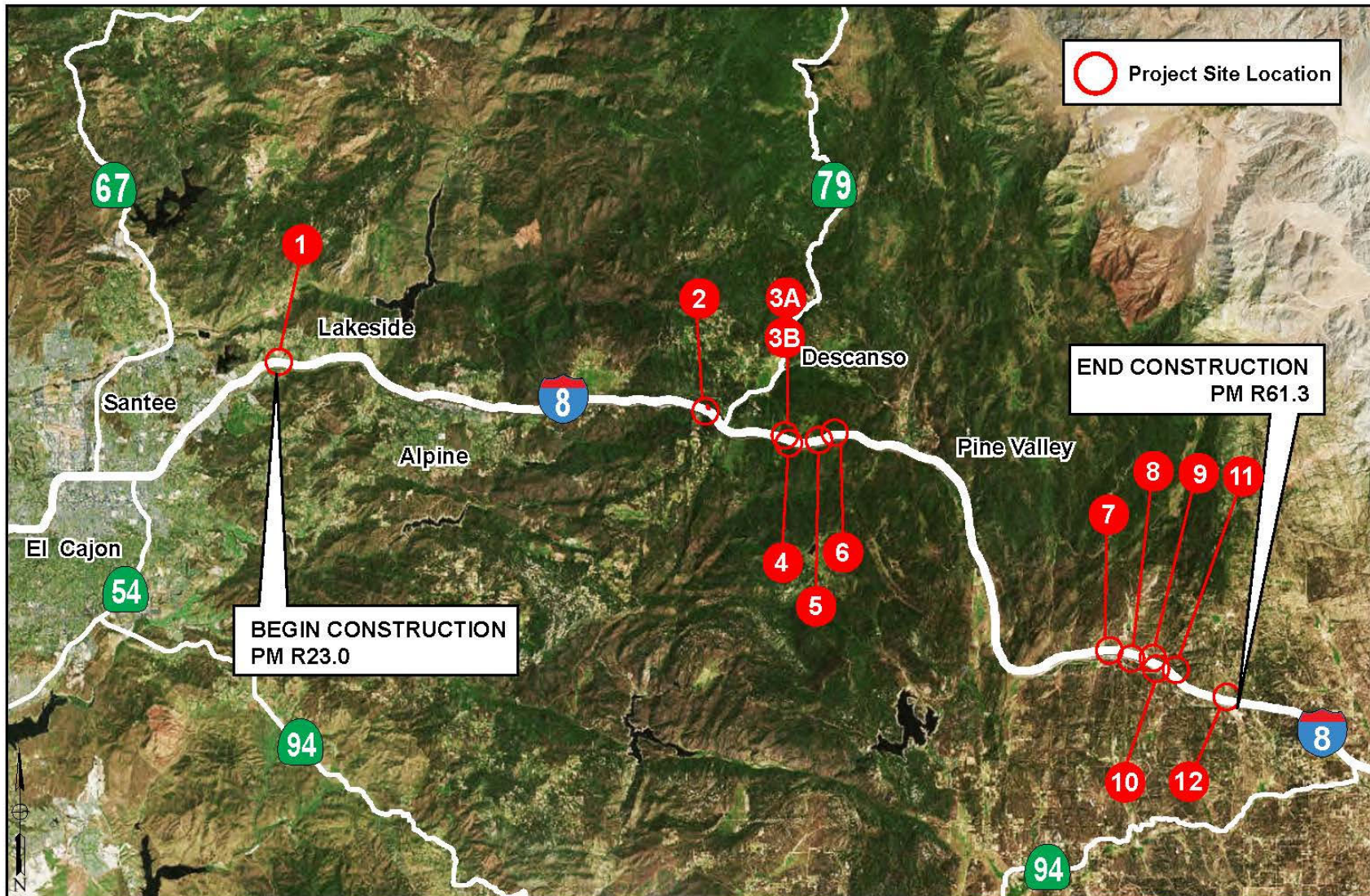


Figure 2  
Project Vicinity Map

# CEQA Environmental Checklist

11 SD 8

R23.0/PM R61.3

11-42210

Dist.-Co.-Rte.

P.M/P.M.

E.A.

This checklist identifies physical, biological, social and economic factors that might be affected by the proposed project. In many cases, background studies performed in connection with the projects indicate no impacts. A NO IMPACT answer in the last column reflects this determination. Where there is a need for clarifying discussion, the discussion is included either following the applicable section of the checklist or is within the body of the environmental document itself. The words "significant" and "significance" used throughout the following checklist are related to CEQA, not NEPA, impacts. The questions in this form are intended to encourage the thoughtful assessment of impacts and do not represent thresholds of significance.

CEQA Environmental Checklist	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
<b>I. AESTHETICS:</b> Except as provided in Public Resources Code Section 21099, would the project:				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>II. AGRICULTURE AND FOREST RESOURCES:</b> In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<b>CEQA Environmental Checklist</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant with Mitigation</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>III. AIR QUALITY:</b> Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>IV. BIOLOGICAL RESOURCES:</b> Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife, U.S. Fish and Wildlife Service, or NOAA Fisheries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



CEQA Environmental Checklist	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
<b>V. CULTURAL RESOURCES:</b> Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>VI. ENERGY:</b> Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>VII. GEOLOGY AND SOILS:</b> Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CEQA Environmental Checklist	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
<b>VIII. GREENHOUSE GAS EMISSIONS:</b> Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	Caltrans has used the best available information based to the extent possible on scientific and factual information, to describe, calculate, or estimate the amount of greenhouse gas emissions that may occur related to this project. The analysis included in the climate change section of this document provides the public and decision-makers as much information about the project as possible. It is Caltrans' determination that in the absence of statewide-adopted thresholds or GHG emissions limits, it is too speculative to make a significance determination regarding an individual project's direct and indirect impacts with respect to global climate change. Caltrans remains committed to implementing measures to reduce the potential effects of the project. These measures are outlined in the climate change section of the document.			
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				
<b>IX. HAZARDS AND HAZARDOUS MATERIALS:</b> Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>X. HYDROLOGY AND WATER QUALITY:</b> Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<b>CEQA Environmental Checklist</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant with Mitigation</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the project may impede sustainable groundwater management of the basin?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
(i) result in substantial erosion or siltation on- or off-site;	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(iv) impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XI. LAND USE AND PLANNING:</b> Would the project:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XII. MINERAL RESOURCES:</b> Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XIII. NOISE:</b> Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<b>CEQA Environmental Checklist</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant with Mitigation</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XIV. POPULATION AND HOUSING:</b> Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XV. PUBLIC SERVICES:</b>				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XVI. RECREATION:</b>				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<b>CEQA Environmental Checklist</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant with Mitigation</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>XVII. TRANSPORTATION:</b> Would the project:				
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XVIII. TRIBAL CULTURAL RESOURCES:</b> Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>XIX. UTILITIES AND SERVICE SYSTEMS:</b> Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XX. WILDFIRE:</b> If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				

<b>CEQA Environmental Checklist</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant with Mitigation</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XXI. MANDATORY FINDINGS OF SIGNIFICANCE</b>				
a) 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 or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) 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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Additional Explanations for CEQA Environmental Checklist Questions

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This section will focus only on environmental factors that either have less than significant impact or less than significant with mitigation including biological resources, cultural resources, hazards and hazardous material, hydrology and water quality, and tribal cultural resources. All other environmental factors have been determined to have no impact and do not warrant additional explanation.

### **IV. BIOLOGICAL RESOURCES**

#### **Threatened and Endangered Species (question a and b)**

##### ***Affected Environment***

The United States Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW) have regulatory responsibility for protection of federal and state threatened, endangered, proposed threatened, or proposed endangered species (listed species) and/or their designated habitat. Listed species are selected for protection because they are rare or subject to population and/or habitat declines. The highest level of protection is given to endangered or threatened species since these species are formally listed or proposed for listing under the Federal Endangered Species Act (FESA) and/or the California Endangered Species Act (CESA).

There are several listed species with the potential to occur within the project limits. Table 2 below identifies all federal and state listed species that may occur within the project limits.

**Table 2: Listed Species within Project Limits**

Common Name	Scientific Name	Status
Peninsular bighorn sheep	<i>Ovis canadensis nelsoni</i>	FE
California condor	<i>Gymnogyps californianus</i>	FE
Coastal California gnatcatcher	<i>Poliophtila californica californica</i>	FT
Least Bell's vireo	<i>Vireo bellii pusillus</i>	FE, SE
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	FE
Arroyo toad	<i>Anaxyrus californicus</i>	FE, CH
Laguna Mountains skipper	<i>Pyrgus ruralis lagunae</i>	FE
Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	FE
Hermes copper butterfly	<i>Lycaena Hermes</i>	FC
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	FE
Encinitas baccharis	<i>Baccharis vanessae</i>	FT
San Bernardino bluegrass	<i>Poa atropurpurea</i>	FE

San Diego ambrosia	<i>Ambrosia pumila</i>	FE
San Diego thornmint	<i>Acanthomintha ilicifolia</i>	FT
Willow monardella	<i>Monardella viminea</i>	FE

Status: Federal Endangered (FE); Federal Threatened (FT); Federal Candidate (FC); State Endangered (SE)  
Critical Habitat [CH]: Project footprint is located within a designated critical habitat unit but does not necessarily mean that appropriate habitat is present.

A Biological Assessment was completed in October 2018. Due to the potential for presence of listed species within the project's biological study area (BSA), preliminary habitat suitability assessments were conducted using vegetation maps, aerial photographs, and site visits to verify mapping. A habitat assessment was conducted in February 2018 to determine if potential habitat appropriate for least Bell's vireo and arroyo toad. This assessment was based on the composition of native vegetation communities and historic and current locations of the listed species in the vicinity of the proposed project area.

### ***Environmental Consequences***

The project is anticipated to impact both federal and state listed species. All other listed species within the BSA are not anticipated to be impacted by this project. See below for more information on impacts to listed species:

#### *Least Bell's vireo (LBV):*

LBV is listed as a federally and state endangered species. The project may affect, not likely to adversely affect, the least Bell's vireo (*Vireo bellii pusillus*). The species have historically been observed within the biological study area (BSA) of culverts 2-6.

#### *Hermes copper butterfly:*

The Hermes copper butterfly is a federal candidate species. The project may affect, not likely to adversely affect, the Hermes copper butterfly (*Lycaena hermes*). Chaparral habitat is present and the species have historically been observed within the BSA of culverts 2-6

#### *Arroyo toad:*

The arroyo toad is a federally endangered species. The project may affect, likely to adversely affect, arroyo toad (*Anaxyrus californicus*). The species has been observed historically within the BSA of culverts 2-6. The BSA at culvert 6 also includes designated critical habitat.

### ***Avoidance, Minimization, and/or Mitigation Measures***

The following conservation measures were proposed per the October 2018 Biological Assessment:

- The work at culverts 2-6 will occur between November to February to avoid arroyo toad and least Bell's vireo breeding seasons and the larval emergence and flight season of the Hermes copper butterfly. Clearing may commence



earlier in the fall if the Project Biologist demonstrates to the satisfaction of USFWS that all breeding is complete.

- For all other culvert locations (locations 1 and 7-12), if work extends to the nesting season a pre-construction survey for nesting birds will be conducted by the Project Biologist. If active nests are found, a no-work buffer zone will be placed around the nest until the Project Biologist has determined that the adults are no longer using the nest or the fledglings have left. The extent of the no-work buffer shall be determined by the Project Biologist in coordination with USFWS and CDFW and will depend on the level of noise or construction disturbance, line-of-sight between the nest and the disturbance, ambient levels of noise and other disturbance, and other topographical or artificial barriers.
- All earth movement will occur within the project footprint. No earth movement will occur in designed environmentally sensitive areas (ESAs) where arroyo toads may be present. All stockpiles with earthen material will be stored within the project footprint and outside arroyo toad habitat. All stockpiles will also be fenced to prevent arroyo toads from burrowing into the stockpiles.
- Spiny redberry (*Rhamnus crocea*) and California buckwheat (*Eriogonum fasciculatum*) are hosts and nectar plants to the Hermes copper butterfly and damage to these plants will be avoided to the extent practicable.
- Temporary stream diversions will be implemented when necessary during culvert work to preserve downstream habitat. Best Management Practice (BMP) measures shall be installed and maintained to prevent any discharge from flowing downstream.
- A biologist approved by USFWS (Project Biologist) will be on site at culverts 2-6 during initial clearing and grubbing and then weekly during project construction to ensure compliance with all conservation measures. The Project Biologist will be familiar with arroyo toad, LBV, Hermes copper butterfly, and their habitat and will have experience monitoring these species.
- Arroyo toad, LBV, and Hermes copper butterfly habitat outside of the construction area at these locations will be designated as an ESA on the project plans. Temporary protective fencing for arroyo toad will be installed around the designated ESA areas under the supervision of the Project Biologist. Construction personnel will be instructed to take care to avoid effects from construction activities including, but not limited to, trampling during construction activities and herbicide drift during restoration activities to areas with suitable arroyo toad, LBV, and Hermes copper butterfly habitat. If work occurs beyond the fenced or demarcated limits of impact, all work will cease until the project has been remedied to the satisfaction of USFWS. The Project Biologist will oversee installation of and inspect the arroyo toad fencing a minimum of once per week to ensure that all breaks in the fencing

will be repaired immediately. Temporary fencing and markers will be removed upon project completion.

- An employee education program will be developed and implemented by the Project Biologist. All personnel involved with construction will receive a training and awareness program prior to working on the proposed project. They will be advised of the potential impacts to the listed species and the potential penalties for species take. At a minimum, the project will include the following:
  - Occurrence of listed species in the area (including photographs), their general ecology, and sensitivity to human activities
  - The legal protection afforded to the listed species, penalties for non-compliance with Federal and State laws and reporting requirements
  - Project features designed to reduce the impacts to the listed species and promote continued successful occupation of the project area
- The Project Biologist will request that the Resident Engineer halt work, if necessary, and confer with Caltrans to ensure the proper implementation of arroyo toad, LBV, and Hermes copper butterfly habitat protection measures. The Project Biologist will confer with USFWS and report any non-compliance issues to USFWS within 24-hours of the occurrence.
- Appropriate erosion and siltation controls will be installed prior to the onset of vegetation clearing and be maintained in good repair until the completion of construction. Erosion and sediment control devices used for the proposed project, including fiber rolls and bonded fiber matrix, will be made from bio-degradable materials, such as jute, to avoid creating a wildlife entanglement hazard. No plastic mesh will be used.
- All equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other such activities will be restricted to designated areas that are outside of suitable habitat for arroyo toad, LBV, and Hermes copper butterfly and are a minimum of 100 feet from drainages and associated plant communities.
- Impacts from fugitive dust will be avoided and minimized through watering, monitoring, and other appropriate best management practices (BMPs).
- The project site will be kept as clean of debris as possible. All food-related trash items will be enclosed in sealed containers and regularly removed from the site. All spoils and material disposal will be disposed of properly.
- If fill must be borrowed from or disposed of offsite, the construction contractor will identify any necessary borrow and disposal sites and provide this information to Caltrans for review.

- If nighttime construction is necessary, all lighting used at night (e.g., lighting of staging areas, equipment storage sites, or the roadway) will be selectively placed and directed onto the roadway or construction site and away from sensitive habitats. Light glare shields will be used to reduce the extent of illumination into sensitive habitats.
- Project personnel will be prohibited from bringing domestic pets to construction sites to ensure that domestic pets do not disturb or depredate wildlife in adjacent habitats.
- An Arroyo Toad Translocation Monitoring Program will be developed and implemented for work at culverts 2-6. The program will be provided to the USFWS for review and approval. See the October 2018 Biological Assessment for requirements regarding the Arroyo Toad Translocation Monitoring Program.

Consultation per Section 7 of the Federal Endangered Species Act (Section 7) with USFWS was initiated on October 30, 2018 and is currently in progress. All the conservation measures for Section 7 listed above also fulfill requirements under the California Endangered Species Act (CESA).

Since the impacts to arroyo toad are temporary, a Fish and Game Code 2081 Incidental Take Permit from CDFW will not be required.

#### *Wetlands and Other Waters of the U.S. (question c)*

#### ***Affected Environment***

Both upland and wetland habitat exist within the project footprint. The United States Army Corps of Engineers (USACE) has jurisdiction over the federal waterways and CDFW has jurisdiction over streambed habitat.

Most locations include waterways or wetlands under the jurisdiction of both USACE and CDFW.

#### ***Environmental Consequences***

For locations with invert paving and culvert lining (culverts 1-6, 12), all wetland impacts will be temporary and limited to the culvert ends, staging/storage areas, and access paths.

Locations that require streambed improvements (culverts 7-11) will have both temporary and permanent wetland impacts. Temporary impacts include construction at the culvert ends, staging/storage areas, and access paths. Impacts beyond the culvert ends in the streambed will be permanent. This includes regrading the channel slope, fabric lining, and installing a combination of RSP and/or gabion cages in the streambed. The extent of streambed improvements will be determined during design but will not extend further than 150 feet past Caltrans' right-of-way.

Table 3 below shows more information about wetland and upland impacts at certain culvert locations.

**Table 3: Wetland and Upland Impacts**

Culvert Number	PM	ACOE Impacts	ACOE Impacts	CDFW Impacts	CDFW Impacts	Habitat	Temporary Upland Impacts	Temporary Upland Impacts
-	-	Permanent	Temporary	Permanent	Temporary	-	CSS- Chaparral	Oak Woodland
1	23.73	0.08	0.10	0.25	0.26	Southern Coast Live Oak Riparian Forest	-	-
2	37.35	-	0.05	-	0.17	Streambed	0.20	-
3A, 3B	39.99 40.01	-	0.04, 0.04	-	0.10, 0.19	Streambed	0.05, 0.45	0.10, -
4	41.19	-	0.10	-	0.13	Streambed	0.39	0.05
5	41.58	-	0.14	-	0.21	Streambed	0.31	-
6	48.30	-	0.05	-	0.10	Streambed	0.11	-
7	57.41	0.08	-	0.08	-	Streambed	0.20	-
8	58.00	0.14	-	0.14	-	Streambed	0.12	0.05
9	58.65	0.07	-	0.07	-	Streambed	0.17	-
10	58.85	0.08	-	0.08	-	Streambed	0.20	-
11	59.05	0.06	-	0.06	-	Streambed	0.28	-
12	61.10	-, 0.04	0.05, 0.06	-, 0.06	0.10, 0.10	Southern Coast Live Oak Riparian Forest, Riparian Scrub	0.17	-
<b>Totals</b>	-	<b>0.55</b>	<b>0.63</b>	<b>0.74</b>	<b>1.36</b>	<b>Wetland Impacts</b>	<b>2.65</b>	<b>0.20</b>

### ***Avoidance, Minimization, and/or Mitigation Measures***

Measures proposed in the October 2018 Biological Assessment also mitigate for temporary impacts to wetlands and upland habitats.

Since there are impacts to wetlands and Waters of the U.S., Caltrans will be obtaining the following permits during the design phase:

<b>Agency</b>	<b>Permit/Approval</b>
U.S. Army Corps of Engineers	Clean Water Act Section 404 Nationwide Permit
California Department of Fish and Wildlife	Fish and Game Code Section 1602 Lake and Streambed Alteration Agreement
Regional Water Quality Control Board	Clean Water Act Section 401 Certification

Compensatory mitigation will be purchased at the Rancho San Diego Mitigation Bank for permanent wetland impacts. Areas with temporary impacts to wetlands and upland habitats will be restored and seeded with native species.

## **V. CULTURAL RESOURCES**

### ***Archaeological Resources (questions a & b)***

#### ***Affected Environment***

The term “cultural resources,” as used in this document, refers to the “built environment” (e.g., structures, bridges, railroads, water conveyance systems, etc.), places of traditional or cultural importance, and archaeological sites (both prehistoric and historic), regardless of significance. Under state laws, cultural resources that meet certain criteria of significance are referred to by various terms including “historical resources” and “tribal cultural resources.” The California Environmental Quality Act (CEQA) requires the consideration of cultural resources that are historical resources and tribal cultural resources, as well as “unique” archaeological resources. California Public Resources Code (PRC) Section 5024.1 established the California Register of Historical Resources (CRHR) and outlined the necessary criteria for a cultural resource to be listed on, or considered eligible for listing in, the CRHR and, therefore, a historical resource. Historical resources are defined in PRC Section 5020.1(j). In 2014, Assembly Bill 52 (AB 52) added the term “tribal cultural resources” to CEQA, and AB 52 is commonly referenced instead of CEQA when discussing the process to identify tribal cultural resources (as well as identifying measures to avoid, preserve, or mitigate effects to them). Defined in PRC Section 21074(a), a tribal cultural resource is a CRHR or local register listed or eligible site, feature, place, cultural landscape, or object which has a cultural value to a California Native American tribe. Tribal cultural resources must also meet the definition of a

historical resource. Unique archaeological resources are referenced in PRC Section 21083.2.

PRC Section 5024 requires state agencies to identify and preserve, when prudent and feasible, state-owned historical resources that meet the National Register of Historic Places (NRHP) or the California Historical Landmarks (CHL) listing criteria. It further requires the Department to inventory state-owned structures in its rights-of-way. Sections 5024(f) and 5024.5 require state agencies to provide notice to and consult with the State Historic Preservation Officer (SHPO) before altering, transferring, relocating, or demolishing state-owned historical resources that are listed on or are eligible for inclusion in the NRHP or are registered or eligible for registration as CHLs.

### ***Environmental Consequences***

An archaeological survey identified seven archaeological resources within the vicinity of the project. Of the seven identified, four archaeological resources were identified within the project archaeological footprint (i.e. project area limits). The four archaeological resources are:

- CA-SDI-22,460
- CA-SDI-22,461
- CA-SDI-22,497
- CA-SDI-22,498

For the purpose of this project, these four resources will be considered eligible for the National Register of Historic Places (NRHP) without formal evaluations. Thus, impacts to these resources will be avoided.

Also, culvert locations 7-11 are located adjacent to the La Posta Band of Diegueño Mission Indians (La Posta) Reservation. Streambed improvements at these locations are expected to extend past Caltrans' easement and into reservation land. The extent of these improvements will be determined during the Design Phase but are anticipated to be less than 100 feet past Caltrans' right-of-way. Caltrans staff has conducted two field reviews of culverts 7-11 with La Posta first on January 16, 2019 and again on February 26, 2019. Caltrans also attended a teleconference with La Posta and several other state and federal agencies on November 27, 2018 to discuss erosion and streambed concerns. The teleconference discussed both this culvert project and a separate Bureau of Reclamation project.

### ***Avoidance, Minimization, and/or Mitigation Measures***

Below are proposed measures within the Historic Property Survey Report (HPSR) that were submitted to the State Historic Preservation Officer (SHPO) in May 2019.

The HPSR also includes an Archaeological Survey Report (ASR) and Environmentally Sensitive Area (ESA) Action Plan.

To ensure avoidance of archaeological resources, an Action Plan was prepared by Caltrans Professionally Qualified Staff (PQS) for pre-historic archaeology. The Action Plan proposes the following avoidance and minimization measures:

Before Construction:

- ESAs will be established to avoid impacts to known cultural resources.

During Construction:

- ESA fencing will be installed prior to construction activities.
- If buried cultural resources are encountered during Project activities, it is Caltrans policy that work stop in that area until a qualified archaeologist can evaluate the nature and significance of the find.
- In the event that human remains are found, the county coroner shall be notified and all construction activities within 60 feet of the discovery shall stop. Pursuant to Public Resources Code Section 5097.98, if the remains are thought to be Native American the coroner will notify the Native American Heritage Commission (NAHC) who will then notify the Most Likely Descendent (MLD).

After Construction:

- A field visit will be conducted to document the results.

## **IX. HAZARDS AND HAZARDOUS MATERIALS**

### **Hazardous Materials (question b)**

#### ***Affected Environment***

Hazardous materials, including hazardous substances and wastes, are regulated by many state and federal laws. Statutes govern the generation, treatment, storage and disposal of hazardous materials, substances, and waste, and also the investigation and mitigation of waste releases, air and water quality, human health, and land use.

California regulates hazardous materials, waste, and substances under the authority of the CA Health and Safety Code and is also authorized by the federal government to implement the Resource Conservation and Recovery Act (RCRA) of 1976 in the state.

Worker and public health and safety are also key issues when addressing hazardous materials that may affect human health and the environment. Proper management

and disposal of hazardous material is vital if it is found, disturbed, or generated during project construction.

A Hazardous Waste Review Memo was prepared in April 2019. Per the memo, review of various databases including EnviroStor, GeoTracker, and historic aerials reveal that there are currently no corrective actions at hazardous waste facilities or site cleanup projects within the project limits. The GeoTracker review also revealed that no sites within the project limits would impact groundwater or have the potential to impact groundwater. No potential hazardous waste concerns were identified on historic aerials either.

Aerially deposited lead (ADL) from the historical use of leaded gasoline, exists along roadways throughout California. If encountered, soil with elevated concentrations of lead as a result of ADL on the state highway system right of way within the limits of the project will be managed under the July 1, 2016, ADL Agreement between Caltrans and the California Department of Toxic Substances Control. This ADL Agreement allows such soils to be safely reused within the project limits as long as all requirements of the ADL Agreement are met.

### ***Environmental Consequences***

Earth material will be excavated and/or disturbed when constructing temporary roads to access the impact areas (e.g. culvert ends, streambed) from the state highway. Since surplus soil is anticipated, earth material were screened at these locations using a field portable x-ray fluorescence (XRF) instrument. The results confirmed that the soil in these areas are non-hazardous and are characterized as “clean.”

Minimal soil disturbance is anticipated for culvert invert paving/lining, erosion remediations, and guard rail replacement. Surplus soil is not anticipated and all disturbed soil must be reused in the immediate area of disturbance and may not be transported elsewhere.

### ***Avoidance, Minimization, and/or Mitigation Measures***

A Certified Industrial Hygienist prepared Lead Compliance Plan (LCP) will be implemented during construction for all workers involved with excavation and soil disturbance.

Any excess soil that will need to be hauled off will be tested and analyzed before leaving the project area and will be disposed of at an appropriate permitted landfill.

All imported soil should be obtained from an established commercial source. If a commercial source within the State of California is not possible, then analytical test results for the imported soil will be required and must be “clean soil” as defined by the *July 2016 Caltrans and Department of Toxic Substances Control Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils*.



## **X. HYDROLOGY AND WATER QUALITY**

### **Drainage and Streambed Alterations (question c, i-iii)**

#### ***Affected Environment***

California's Porter-Cologne Act, enacted in 1969, provides the legal basis for water quality regulation within California. This act requires a "Report of Waste Discharge" for any discharge of waste (liquid, solid, or gaseous) to land or surface waters that may impair beneficial uses for surface and/or groundwater of the state. It predates the Clean Water Act (CWA) and regulates discharges to waters of the state.

The State Water Resources Control Board (SWRCB) and Regional Water Quality Control Boards (RWQCBs) are responsible for establishing the water quality standards (objectives and beneficial uses) required by the CWA and regulating discharges to ensure compliance with the water quality standards.

#### ***Environmental Consequences***

There are several ephemeral drainages that are piped under the highway via culverts in this section of I-8. These culverts are needed to channel water down the stream to prevent flooding and water overtopping the highway. Most of the culverts are dry throughout the year except immediately after a rain event.

For culverts 7-11, there is severe incision and channel destabilization at the culvert outlets due to the large quantity of surface runoff that gets funneled through the pipes. The surrounding soils consist of a rocky, loamy, coarse sand soil that contains low amounts of silt. Combined with the lack of vegetation nearby, these soils are highly unstable and erodible even during short rain events. For these culverts, the channel will be regraded to a more natural channel shape. Rock slope protection (RSP) and gabion cages will also be installed in the streambed to slow down water flow and minimize future and downstream erosion. The remaining locations (culverts 1-6, 12) do not have severe erosion and do not require channel restoration. For these locations, work will be limited to the culvert ends. Impacts to the channel and streambed are not anticipated.

#### ***Avoidance, Minimization, and/or Mitigation Measures***

All work within the channel will improve the hydrology of the channel and will restore the streambed. No mitigation measures are needed for hydrology and water quality.

## **XVIII. TRIBAL CULTURAL RESOURCES** (questions a & b)

#### ***Affected Environment, Environmental Consequences, and Avoidance, Minimization, and/or Mitigation Measures***

Refer to Chapter V. Cultural Resources for a discussion of tribal cultural resources.



## **Appendix A** Distribution List

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### **FEDERAL, STATE, AND LOCAL ELECTED OFFICIALS**

Honorable Dianne Feinstein  
U.S. Senator  
880 Front Street, Suite 4236  
San Diego, CA 92101

Honorable Randy Voepel  
State Assembly, District 71  
8760 Cuyamaca Street, Suite 201  
Santee, CA 92071

Honorable Kamala Harris  
U.S. Senator  
600 B Street, Suite 2240  
San Diego, CA 92101

Honorable Kevin Faulconer  
Mayor of City of San Diego  
202 C Street, 11th Floor  
San Diego, CA 92101

Honorable Juan Vargas  
U.S. Representative  
333 F Street, Suite A  
Chula Vista, CA 91910

Honorable Mark Arapostathis  
Mayor of City of La Mesa  
8130 Allison Avenue  
La Mesa, CA 91942

Honorable Duncan Hunter  
U.S. Representative  
1611 N. Magnolia Avenue, Suite 310  
El Cajon, CA 92020

Honorable Bill Wells  
Mayor of City of El Cajon  
200 Civic Center Way  
El Cajon, CA 92020

Honorable Gavin Newsom  
Governor of California  
1303 10th Street, Suite 1173  
Sacramento, CA 95814

Honorable John Minto  
Mayor of City of Santee  
10601 Magnolia Avenue  
Santee, CA 92071

Honorable Brian W. Jones  
State Senator, District 38  
500 Fesler Street, #201  
El Cajon, CA 92020

Honorable Dianne Jacob  
San Diego County Board of Supervisors,  
District 2  
1600 Pacific Highway, Room 335  
San Diego, CA 92101

Honorable Ben Hueso  
State Senator, District 40  
303 H Street, Suite 200  
Chula Vista, CA 91910

Honorable William D. Gore  
San Diego County Sherriff  
9621 Ridgehaven Court  
San Diego, CA 92123

Honorable Ernest J. Dronenburg, Jr.  
County Assessor, Recorder, Clerk,  
1600 Pacific Highway, Suite 100  
San Diego, CA 92101

## **FEDERAL, STATE, AND LOCAL AGENCIES**

Cleveland National Forest  
10845 Rancho Bernardo Road,  
Suite 200  
San Diego, CA 92127

State Water Resources Control Board  
P.O. Box 100  
Sacramento, CA 95812

Bureau of Reclamation  
Southern California Region  
27708 Jefferson Avenue # 201  
Temecula, CA 92590

State Clearinghouse  
Governor's Office of Planning and  
Research  
P.O. Box 3044  
Sacramento, CA 95812

U.S. Environmental Protection Agency  
Region 9  
610 West Ash Street, Suite 905  
San Diego, CA 92101

California Highway Patrol  
Border Division  
9330 Farnham Street  
San Diego, CA 92123

U.S. Fish and Wildlife Service  
Carlsbad Office  
2177 Salk Avenue, Suite 250  
Carlsbad, California 92008

Federal Transit Administration,  
Region 9  
90 7th Street, #15, Federal Building  
San Francisco, CA 94103

Bureau of Land Management  
El Centro Region  
1661 S. 4th Street  
El Centro, CA 92243

Native American Heritage Commission  
1550 Harbor Boulevard, Suite 100  
West Sacramento, CA 95691

Bureau of Land Management  
Palm Springs Region  
1201 Bird Center Drive  
Palm Springs, CA 92262

California Regional Water Quality  
Control Board, Region 9  
Attn: Michael Porter  
2375 Northside Drive, Suite 100  
San Diego, CA 92108

California Department of Toxic  
Substances Control  
San Diego Field Office  
2375 Northside Drive, Suite 100  
San Diego, CA 92108

San Diego Association of Governments  
Attn: Richard Chavez  
401 B Street, #800  
San Diego, CA 92101

California Department of Fish and  
Wildlife, Region 5  
3883 Ruffin Road  
San Diego, CA 92123

San Diego County Air Pollution Control  
District  
10124 Old Grove Road  
San Diego, CA 92131

California Department of Water  
Resources, South Central Region  
770 Fairmont Avenue, #102  
Glendale, CA 91203

San Diego River Conservancy  
1350 Front Street, Suite 3024  
San Diego, CA 92101

California Transportation Commission  
1120 N Street, MS-52 Room 2221  
Sacramento, CA 95814

Sweetwater Authority  
505 Garrett Avenue  
Chula Vista, CA 91910

County Department of Public Works  
Transportation Division  
5510 Overland Avenue, Suite 410,  
Room 470  
San Diego, CA 92123

Office of Historic Preservation  
1725 23rd Street, Suite 100  
Sacramento, CA 95816

## **NATIVE AMERICAN GROUPS**

Viejas Band of Kumeyaay Indians  
1 Viejas Grade Road  
Alpine, CA 91901

La Posta Band of Diegueño Mission  
Indians  
8 Crestwood Road  
Boulevard, CA 91905

Ewiiapaayp Band of Kumeyaay Indians  
4054 Willows Road  
Alpine, CA 91901

Manzanita Band of Kumeyaay Nation  
P.O. Box 1302  
Boulevard, CA 91905

Campo Band of Diegueno Mission  
Indians  
36190 Church Road, Suite 1  
Campo, CA 91960

Jamul Indian Village  
P.O. Box 612  
Jamul, CA 91935

San Pasqual Band of Diegueno Mission  
Indians  
P.O. Box 365  
Valley Center, CA 92082

Sycuan Band of the Kumeyaay Nation  
1 Kwaaypaay Court  
El Cajon, CA 92019

Mesa Grande Band of Diegueno Mission  
Indians  
P.O. Box 270  
Santa Ysabel, CA 92070

Kwaaymii Laguna Band of Mission  
Indians  
P.O. Box 775  
Pine Valley, CA 91962

Inaia-Cosmit Band of Indians  
2005 S. Escondido Boulevard  
Escondido, CA 92025

Kumeyaay Cultural Repatriation  
Committee  
P.O. Box 507  
Santa Ysabel, CA 92070

Iipay Nation of Santa Ysabel  
P.O. Box 130  
Santa Ysabel, CA 92070

Barona Band of Mission Indians  
1095 Barona Road  
Lakeside, CA 92040

## **INTERESTED GROUPS AND INDIVIDUALS**

Oak Glen Park, LLC  
Attn: Norm Sangalang  
5694 Mission Center Road, #400  
San Diego, CA 92108

Robert Pierce  
15105 Olde Highway 80, #13  
El Cajon, CA 92021

Stanley Anderson  
1030 Channel Road  
Lakeside, CA 92040

Gary Blount  
15105 Olde Highway 80, #12  
El Cajon, CA 92021

David L. Miller  
15105 Olde Highway 80, #5  
El Cajon, CA 92021

Dustin L. Hart  
15105 Olde Highway 80, #1  
El Cajon, CA 92021

Christina Whipple  
864 N. 2nd St, #122  
El Cajon, CA 92021

Mark E. Cropp  
15105 Olde Highway 80, #6  
El Cajon, CA 92021

Resident  
15105 Olde Highway 80, #7  
El Cajon, CA 92021

Raul Quintana  
15105 Olde Highway 80, #3  
El Cajon, CA 92021

Kheyrsten N. Maasch  
15105 Olde Highway 80, #11  
El Cajon, CA 92021

Robert B. McCommins  
3100 Calle Grande Ves  
San Clemente, CA 92672

David & Marilyn J. Boulton  
15105 Olde Highway 80, #10  
El Cajon, CA 92021

Maria Hodson  
36536 Old Hwy 80  
Pine Valley, CA 91962

John W. Shirley  
15105 Olde Highway 80, #14  
El Cajon, CA 92021

## **LOCAL SCHOOLS AND LIBRARIES**

Blossom Valley Elementary School  
9863 Oakmont Terrace  
El Cajon, CA 92021

Dehesa Elementary School District  
4612 Dehesa Road  
El Cajon, CA 92019

Cajon Valley Union School District  
750 E. Main Street  
El Cajon, CA 92020

Mountain Empire Unified School District  
3291 Buckman Springs Road  
Pine Valley, CA 91962

Alpine Union School District  
2001 Tavern Road  
Alpine, CA 91901

El Cajon Library  
201 E. Douglas Avenue  
El Cajon, CA 92020

The Heights Charter School  
2710 Alpine Blvd E.  
Alpine, CA 91901

Campo-Morena Village Library  
31356 Highway 94  
Campo, CA 91906





# Appendix B Title VI Policy Statement

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STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY

EDMUND G. BROWN Jr., Governor

## DEPARTMENT OF TRANSPORTATION

OFFICE OF THE DIRECTOR  
P.O. BOX 942873, MS-49  
SACRAMENTO, CA 94273-0001  
PHONE (916) 654-6130  
FAX (916) 653-5776  
TTY 711  
[www.dot.ca.gov](http://www.dot.ca.gov)



*Making Conservation  
a California Way of Life.*

April 2018

### NON-DISCRIMINATION POLICY STATEMENT

The California Department of Transportation, under Title VI of the Civil Rights Act of 1964, ensures *"No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance."*

Related federal statutes and state law further those protections to include sex, disability, religion, sexual orientation, and age.

For information or guidance on how to file a complaint, please visit the following web page:  
[http://www.dot.ca.gov/hq/bep/title\\_vi/t6\\_violated.htm](http://www.dot.ca.gov/hq/bep/title_vi/t6_violated.htm).

To obtain this information in an alternate format such as Braille or in a language other than English, please contact the California Department of Transportation, Office of Business and Economic Opportunity, 1823 14<sup>th</sup> Street, MS-79, Sacramento, CA 95811. Telephone (916) 324-8379, TTY 711, email [Title.VI@dot.ca.gov](mailto:Title.VI@dot.ca.gov), or visit the website [www.dot.ca.gov](http://www.dot.ca.gov).

  
LAURIE BERMAN  
Director

*"Provide a safe, sustainable, integrated and efficient transportation system  
to enhance California's economy and livability"*