State Route 12 Capital Preventive Maintenance Project

SONOMA COUNTY, CALIFORNIA CALTRANS DISTRICT 4 State Route 12, POST MILE 11.0-17.4 EA# 04-0K520 EFIS#: 0416000098

Initial Study with Proposed Mitigated Negative Declaration



Prepared by Caltrans



January 2020

General Information about this Document

What is in this document:

The California Department of Transportation (Caltrans) has prepared this Initial Study (IS) with Proposed Mitigated Negative Declaration (MND) for the State Route (SR) 12 Capital Preventive Maintenance (CAPM) Project in Sonoma County, California (the Project). The Project proposes resurface the existing pavement on SR 12, including the shoulders, between Llano Road (Post Mile [PM] 11.0) and Farmers Lane (PM 17.4) from the outskirts of the City of Sebastopol to the City of Santa Rosa in Sonoma County. Additional work includes upgrading 4 curb ramps to meet American with Disabilities Act (ADA) standards, replacing up to 38 existing concrete approach slabs with 1.25-foot-thick new slabs, reconstructing drainage infrastructure, and upgrading up to 10,000 linear feet of the existing metal beam guardrail (MBGR) to Midwest Guardrail System (MGS). The shoulder of the connector between southbound U.S. Highway 101 (U.S. 101) and westbound SR 12 would be widened to approximately 10 feet and require the removal of approximately 7 to 10 landscaped trees. Along the eastbound SR 12 to southbound U.S. 101 connector, a 300-linear-foot drainage system would be reconstructed on the outside shoulder from the end of the existing retaining wall to the existing sound wall. All work proposed would be within the Caltrans right of way (ROW). As the lead agency under the California Environmental Quality Act (CEQA), Caltrans has prepared this document describing why the Project is being proposed, how the existing environment could be affected by the Project, potential environmental impacts resulting from the Project, and the proposed Project Features, Avoidance and Minimization Measures, and Mitigation Measures.

What you should do:

- Please read this document.
- The document, maps, project information, and supporting technical studies are available for review weekdays from 8:00 am to 5:00 pm at the Caltrans District 4 Office, 111 Grand Avenue, Oakland, CA 94612. The document is also available to download at the Caltrans environmental document website (https://dot.ca.gov/caltrans-near-me/district-4/d4-popular-links/d4-environmental-docs). Additionally, the document will be made available at the following two locations in the vicinity of the proposed Project:

- 1) Sonoma County Library, Sebastopol Regional Library, 7140 Bodega Avenue, Sebastopol, CA 95472; and
- 2) Sonoma County Library, Central Santa Rosa Library, 211 E Street, Santa Rosa, CA 95404.
- We would like to hear what you think. Send comments, including requests that Caltrans holds a public meeting, to:

Caltrans, District 4

ATTN: Arnica MacCarthy, Senior Environmental Planner

P.O. Box 23660,

Oakland, CA 94623-0660

Or Arnica.MacCarthy@dot.ca.gov

• Be sure to send comments by the deadline: February 3, 2020

What happens next:

Per CEQA Section 15073, Caltrans will circulate the IS-MND for review for 30 days. During the 30-day public review period, the general public and responsible and trustee agencies can submit comments on this document to Caltrans. Caltrans will consider the comments and will respond to the comments after the 30-day public review period. After comments have been received from the public and reviewing agencies, Caltrans may (1) grant environmental approval to the proposed Project, (2) conduct additional environmental studies, or (3) abandon the Project. If the Project is granted environmental approval and funding is obtained, Caltrans could design and construct all or part of the Project.

Alternative formats:

For individuals with sensory disabilities, the document can be made available in Braille, in large print, on audiocassette, or on computer disk by writing to the above address or email or by calling California Relay Service (800) 735-2929 (TTY), (800) 735-2922 (Voice), or 711.

An ADA-compliant electronic copy of this document is available to download at: <u>the Caltrans environmental document website</u> (https://dot.ca.gov/caltrans-near-me/district-4/d4-popular-links/d4-environmental-docs).

Initial Study with Proposed Mitigated Negative Declaration

04-SON-12	11.0-17.4	04-0K520
Dist. – Co. – Rte.	PM	E.A.

Project title:	State Route 12 Capital Preventive Maintenance Project	
Lead agency name and address:	California Department of Transportation 111 Grand Avenue, Oakland, CA 94612	
Contact person and phone number:	Arnica MacCarthy, Senior Environmental Planner (510) 286-7195	
Project location:	Sonoma County, California	
General plan description:	Highway	
Zoning:	Transportation Corridor	
Other public agencies whose approval is required (e.g., permits, financial approval, or participation agreements)	 California Transportation Commission United States Fish and Wildlife Service Biological Opinion Consistency Determination from California Department of Fish and Wildlife 	

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Stefan Galvez-Abadia

Date

Caltrans District 4, District Division Chief

Division of Environmental Planning and Engineering

SCH No. _____ 04-SON-12: EA 04-0K520

Proposed Mitigated Negative Declaration

Pursuant to Division 13, Public Resources Code

Project Description

Caltrans is proposing the Project. The Project would resurface the existing pavement on SR 12, including the shoulders, between Llano Road (PM 11.0) and Farmers Lane (PM 17.4) from the outskirts of the City of Sebastopol to the City of Santa Rosa in Sonoma County. Improvements on SR 12 would include installing rumble strips at the centerline and shoulder, as well as reconstructing loop detectors, upgrading existing electrical signals at intersections, and rebuilding 5 feet of shoulder backing. Additional work includes upgrading 4 curb ramps to meet ADA standards, replacing up to 38 existing concrete approach slabs with 1.25-foot-thick new slabs, reconstructing drainage infrastructure, and upgrading up to 10,000 linear feet of the existing MBGR to MGS. The shoulder of the connector between southbound U.S. 101 and westbound SR 12 would be widened to approximately 10 feet and require the removal of approximately 7 to 10 landscape trees. Along the eastbound SR 12 to southbound U.S. 101 connector, a 300-linear-foot drainage system would be reconstructed on the outside shoulder from the end of the existing retaining wall to the existing sound wall. The area between the sound wall and the travel lane would be re-graded so that the area drains to the edge of the pavement towards the new drainage system on the outside shoulder. The Project is needed to extend the life of the existing pavement, improve the ride quality, and bring curb ramps up to ADA standards.

Determination

This Proposed MND is included to provide notice to the public and reviewing agencies that Caltrans intends to adopt an MND for the proposed Project. This does not mean that Caltrans' decision regarding the Project is final. This MND is subject to change based on comments received by the public and reviewing agencies. Caltrans has prepared an IS for the proposed Project. Pending public review, Caltrans expects to determine that the proposed Project would not have a significant effect on the environment for the reasons described below.

The proposed Project would have no impact on agriculture and forest resources, land use and planning, mineral resources, population and housing, public services, recreation, and tribal cultural resources. In addition, the proposed Project would have less than significant impacts to aesthetics, air quality, cultural resources, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, transportation and traffic, utilities and service systems, wildfire. As discussed in Chapter 3 Biological Resources, there is a potential for suitable refugial or dispersal habitat for the California Tiger Salamander (CTS; *Ambystoma californiense*), a federally endangered and state threatened species, to occur within the biological study area (BSA). The potential to adversely affect this species would be reduced with the implementation of Mitigation Measure BIO-1, California Tiger Salamander, which states that if CTS habitat is disturbed during construction, then impacts to CTS upland habitat with small mammal burrows will be mitigated at a ratio of 2:1, in accordance with the Santa Rosa Conservation Strategy Plan (SRPCS). Mitigation will be provided by purchase of conservation credits from a United States Fish and Wildlife (USFWS) and California Department of Fish and Wildlife (CDFW) approved conservation bank. Therefore, as described in Chapter 3 Biological Resources, the Project would have a less than significant impact with mitigation.

As discussed in Chapter 3, Noise, there are sensitive receptors 50 feet from project limits. As such, temporary construction activities such as sawcutting would generate noise levels above 86 dBA at 50 feet from the project limits from 9:00 p.m. to 6:00 a.m. Implementation of Mitigation Measure NOI-1, Temporary Noise Barriers, will reduce noise levels to less than 86 dBA with the use of plywood panels between the sensitive receptors and construction noise. Therefore, as described in Chapter 3, Noise, the Project would have a less than significant impact with mitigation.

Melanie Brent	Date
Deputy District Director, Environmental Planning and Engineering	
District 4-California Department of Transportation	

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Chapter 1 Proposed Project

1.1 Introduction

Caltrans is the lead agency under CEQA for the Project. The Project proposes improvements on a continuous segment of SR 12 between Llano Road (PM 11.0) and Farmers Lane (PM 17.4) from the outskirts of the City of Sebastopol to the City of Santa Rosa in Sonoma County (see Figure 1-1). Starting from the western end of the Project limits at the Llano Road intersection (PM 11.0), SR 12 consists of a two-lane conventional highway, with 12-foot-wide lanes, approximately 6-foot-wide outside shoulders in each direction, and approximately 5-foot wide shoulder backing that consists of a mixture of dirt and gravel. Approximately 0.5 mile west of the Fulton Road intersection, SR 12 transitions into a four-lane divided freeway. From this point, moving east to the eastern end of the Project limits at Farmers Lane (PM 17.4), SR 12 has 12-foot-wide lanes, approximately 8-foot-wide outside shoulders, and 2- to 5-foot-wide inside shoulders in each direction, with a vegetated median barrier approximately 44 to 46 feet wide.

Total project costs, including capital and support costs for the proposed Project, are estimated at \$36.4 million and would be funded through the State Highway Operation and Protection Program under the CAPM Program (201.121) for the 2021/2022 Fiscal Year.

1.2 Purpose and Need

The purpose of the Project is to extend the life of the existing pavement, improve the ride quality, and bring select curb ramps up to ADA standards. An additional purpose of the Project is to comply with the Transportation Asset Management (Caltrans 2018) policy which requires Caltrans assets within the project limits such as curb ramps, drainage systems, pavement, MBGR, and electrical signals to be up to current standards.

The Pavement Condition Detailed Report prepared by Caltrans (Caltrans 2015) characterized the existing pavement on SR 12 within the project limits as being distressed. The pavement's distressed characteristic has resulted in poor ride quality. The distressed characteristic has the potential to result in the failure of the pavement.



LEGEND

Project Limits

USGS 7.5 minute quad maps: Santa Rosa, Sebastopol Township 007N Range 007W, 008W

Service Layer Credits: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.



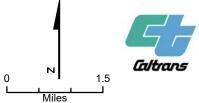


FIGURE 1-1

Regional Setting
State Route 12 Capital Preventive Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4 Sonoma County, California

The Pavement Condition Detailed Report characterized the existing pavement on SR 12 from PM 11.0 to 12.7 as being in fair to poor condition. The shoulder pavement within these limits has transverse cracks. From PM 12.7 to 17.4 the existing slabs have severe cracking, and the shoulder pavement within this segment has many transverse cracks. The existing MBGR connecting to the bridge rails are nonstandard, and the four existing curb ramps at Fulton Road and two crosswalks at Llano Road do not meet ADA standards.

Chapter 2 Project Description

The Project proposes to resurface the existing pavement on SR 12, including the shoulders, between Llano Road (PM 11.0) and Farmers Lane (PM 17.4). Improvements on SR 12 would include installation of rumble strips at the centerline and shoulder, as well as reconstructing loop detectors, upgrading electrical signals at intersections, and rebuilding 5 feet of shoulder backing. Additional work includes upgrading 4 curb ramps at the SR 12/Fulton Road and SR 12/ Llano Road intersections to meet ADA standards, replacing up to 38 existing concrete approach slabs with new 1.25-foot-thick slabs, reconstruct drainage infrastructure, and upgrading up to 10,000 linear feet of the existing MBGR to MGS. At bridge transition railings, the MBGR connections to bridge railings would be replaced with current standard bridge railing transition and concrete anchor blocks. Improvements would be made to bicycle lane striping at the Fulton Road and SR 12 intersection.

The shoulder of the connector between southbound U.S. 101 and westbound SR 12 would be widened to approximately 10 feet and require the removal of approximately 7 to 10 landscape trees. Drainage improvements are proposed along the eastbound SR 12 to southbound U.S. 101 connector and the southbound U.S. 101 to westbound SR 12 connector.

- Along the eastbound SR 12 to southbound U.S. 101 connector, it is proposed to supplement the drainage on the inside shoulder, with inlets and pipes as necessary. On the outside shoulder, a dike would be constructed from the end of the existing retaining wall to the existing soundwall, which is approximately 300 linear feet, located at the edge of pavement. The low point along the connector would be confirmed and additional drainage provided during the design phase. The area between the soundwall and the travel lane would be re-graded so that this area drains over the dike to the edge of pavement. The existing pipe and flared end section in this area would be removed.
- The connector from southbound U.S. 101 to westbound SR 12, is at grade at U.S. 101 and climbs to meet the Olive St. undercrossing structure on SR 12. The Project proposes to remove the existing E curb, a standard curb frequently placed at the edge of traveled way with a 5-foot paved section that drains towards the curb, and provide an 8-inch shoulder to match the shoulder width on the undercrossing structure and to match the shoulder width at U.S. 101. A dike would be constructed from the end of the structure to the point where the fill

height and slope would allow sheet flow off the pavement. Inlets with downdrains and/or hot mix asphalt overside drains, outletting at the toe of slope would be provided as necessary. It is recommended that the toe of slope ditch be re-graded. In addition, the location of the low point along the connector would be confirmed and the drainage supplemented during the design phase.

Figure 2-1 includes maps 1 through 9, which show the project components described above in a west to east direction, including several proposed staging areas.

2.1 Build Alternative

2.1.1 Project Components

The following sections describe the components included in the proposed Project.

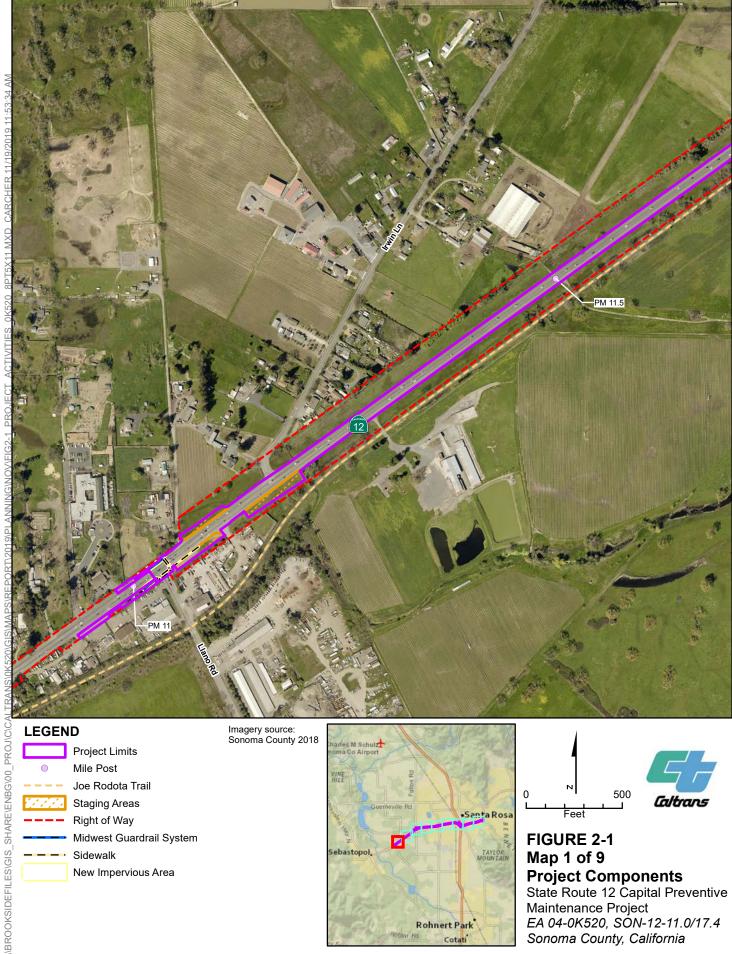
2.1.2 Complete Streets

A "complete street" is a transportation facility that is planned, designed, operated, and maintained to provide safe mobility for all users, including bicyclists, pedestrians, transit vehicles, truckers, and motorists, appropriate to the function and context of the facility (Caltrans 2019a). Within the project limits, improvements would be made to existing bicycle lanes along Fulton Road near the intersection with SR 12. The Project includes the following complete street improvements to bicycle and pedestrian facilities:

- On Fulton Road, add dashed bicycle lane striping to connect the existing bicycle lanes to the bicycle pockets (bicycle lane striping at the intersection) that are on the left hand side of the right-turn-only vehicle lane.
- On the eastbound SR 12 right-turn slip lane and the westbound SR 12 right-turn slip lane onto Fulton Road (a slip lane is a lane that allows motorists to make a right turn at an intersection without entering the intersection), add dashed bicycle lane striping with green markings between the dashes to provide continuity of the bicycle lanes on Fulton Road and draw attention for drivers using the slip lanes to yield to bicycles.

2.1.3 Right of Way

All proposed improvements are within the Caltrans ROW. No temporary construction easements (TCEs) or permanent easements are anticipated to be needed for construction activities.



LEGEND

Project Limits Mile Post

Joe Rodota Trail

Staging Areas

Right of Way

Midwest Guardrail System

Sidewalk

New Impervious Area

Imagery source: Sonoma County 2018



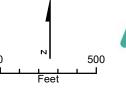
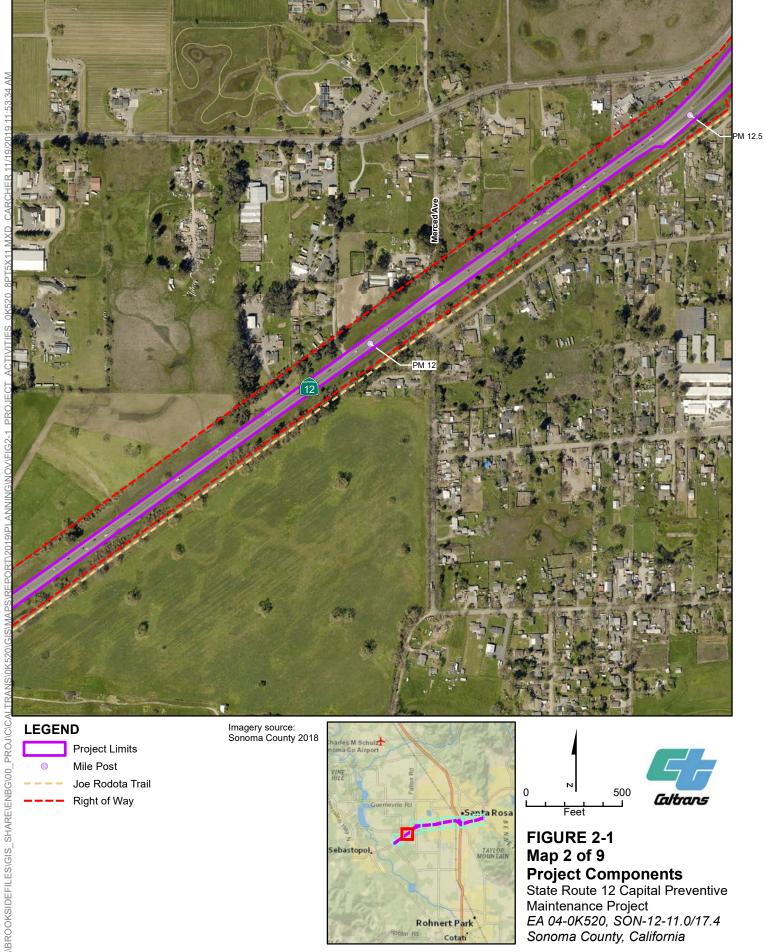




FIGURE 2-1 Map 1 of 9





Project Limits Mile Post

Joe Rodota Trail

Right of Way



Rohnert Park

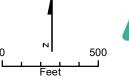
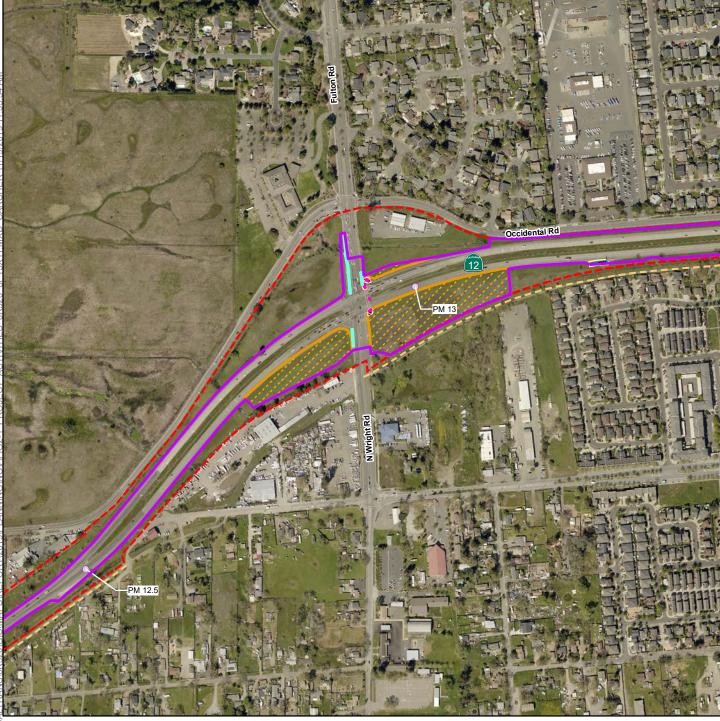




FIGURE 2-1 Map 2 of 9



LEGEND

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Project Limits

Mile Post

Joe Rodota Trail

Staging Areas

Bicycle Lane Striping

Right of Way

Americans with Disabilities Act Curb Ramp Upgrades

Midwest Guardrail System

Sidewalk

New Impervious Area

Imagery source: Sonoma County 2018



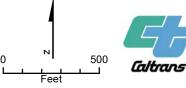
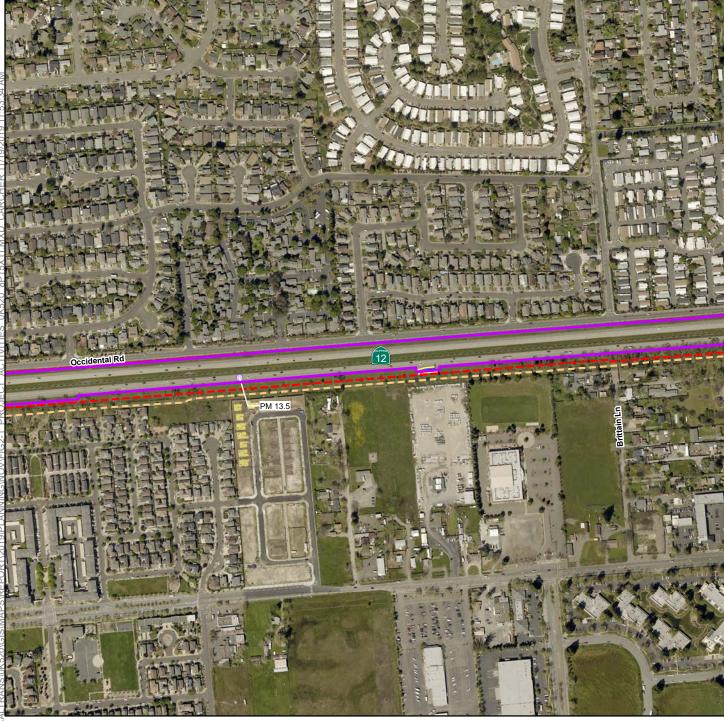


FIGURE 2-1 Map 3 of 9



LEGEND

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Project Limits

Mile Post

Joe Rodota TrailRight of Way

Midwest Guardrail System

New Impervious Area

Imagery source: Sonoma County 2018



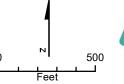
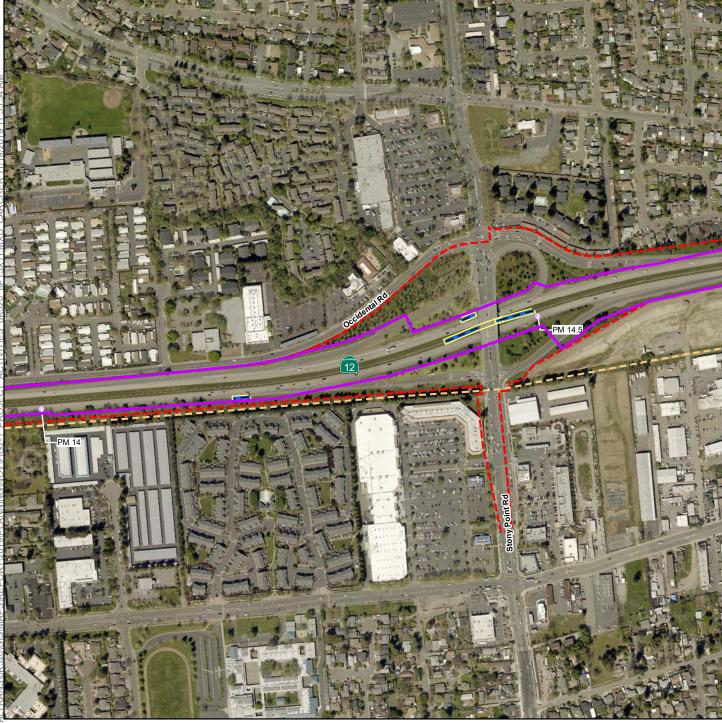




FIGURE 2-1 Map 4 of 9 Project Components





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Project Limits

Mile Post

Joe Rodota Trail
Right of Way

Midwest Guardrail System

New Impervious Area

Imagery source: Sonoma County 2018



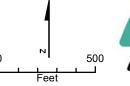
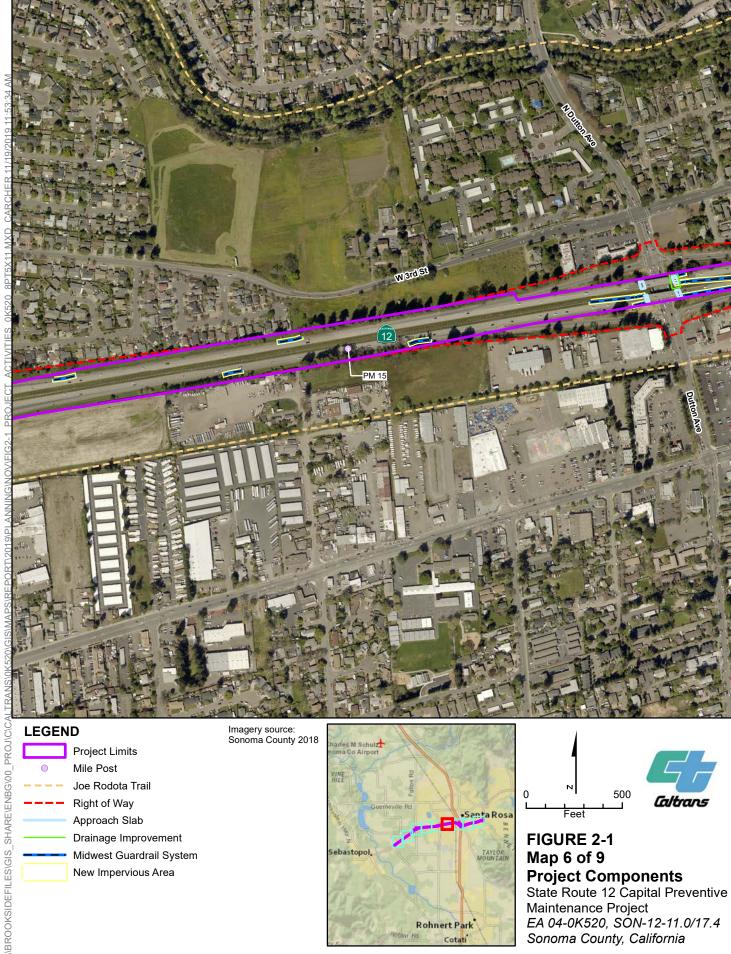




FIGURE 2-1 Map 5 of 9 Project Components





Project Limits

Mile Post

Joe Rodota Trail Right of Way

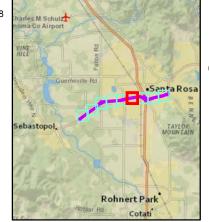
Approach Slab

Drainage Improvement

Midwest Guardrail System

New Impervious Area

Imagery source: Sonoma County 2018



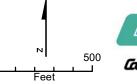
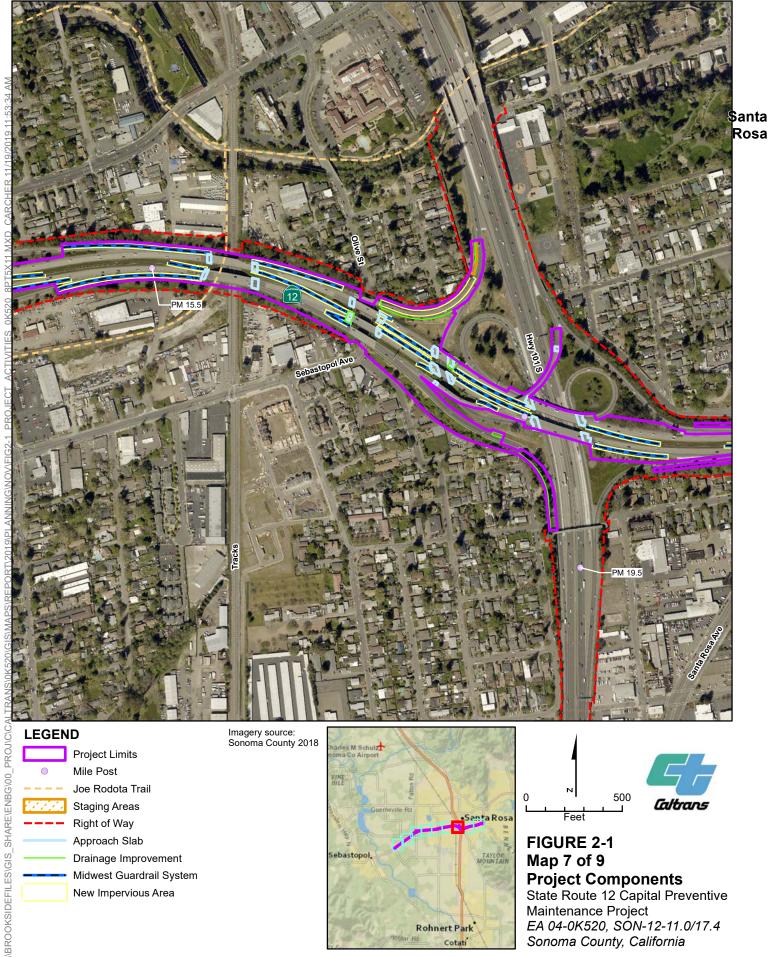




FIGURE 2-1 Map 6 of 9





Project Limits

Mile Post

Joe Rodota Trail

Staging Areas

Right of Way

Approach Slab

Drainage Improvement

Midwest Guardrail System

New Impervious Area



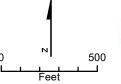
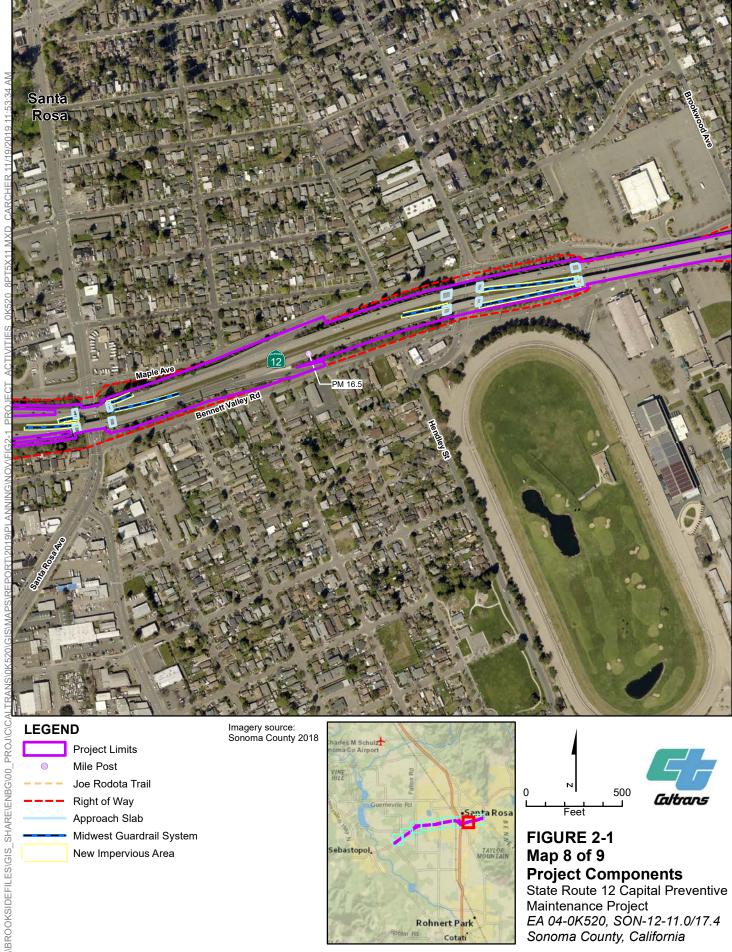




FIGURE 2-1 Map 7 of 9





Project Limits Mile Post

Joe Rodota Trail Right of Way

Approach Slab

New Impervious Area

Midwest Guardrail System



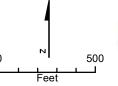
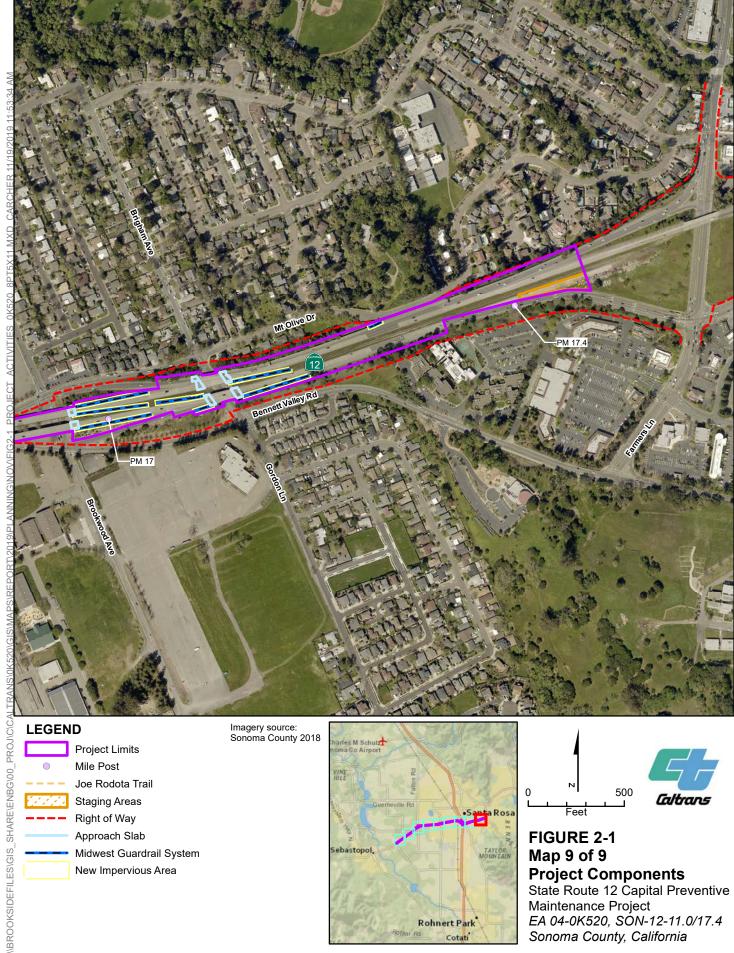




FIGURE 2-1 Map 8 of 9





Project Limits

Mile Post

Joe Rodota Trail

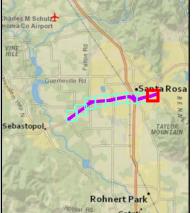
Staging Areas

Right of Way

Approach Slab

Midwest Guardrail System

New Impervious Area



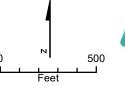




FIGURE 2-1 Map 9 of 9

2.1.4 Utilities

Underground utility relocation may be necessary during construction activities for ADA curb ramp work at Fulton Road and Llano Road. Pacific Gas and Electric Company (PG&E) and American Telephone and Telegraph (AT&T) facilities are located within the project limits. Verification of utility locations and necessary relocations would be determined during the design phase.

2.1.5 Staged Construction

Construction of the proposed Project is anticipated to be completed in three phases.

- The first phase of construction would involve installation of construction area signs, traffic control systems, environmentally sensitive area (ESA) fencing, temporary K-rail (as required), and crash cushions, as well as clearing and grubbing. The first phase would take approximately 20 working days.
- The second phase would involve removing existing features, resurfacing the roadway, rebuilding shoulder backing that would be damaged by equipment and construction work-related activities during grinding and paving operations, installing rumble strips, construction of drainage improvements, upgrading the existing curb ramps to ADA standards at Fulton Road and Llano Road intersections, installing the new MGS, construction of up to 38 concrete approach slabs, electrical work, bike lane improvements, and striping. The second phase would take approximately 80 working days, with some potential overlap between the phases.
- The third phase would take approximately 20 working days and would entail
 removing all construction infrastructure from the project limits, installing
 permanent erosion control measures and restoring the construction area to its
 preconstruction condition in accordance with applicable permits and Caltrans
 requirements.

2.1.6 Construction Activities

In order to complete the proposed Project, typical construction best management practices (BMPs) would be implemented by Caltrans, including but not limited to, lane and shoulder closure, detours, staging, construction waste, construction noise, and night work.

Rehabilitations of the SR 12 mainline is proposed to occur at nighttime, requiring lane and shoulder closures to allow for construction activities, while drainage work

on the SR 12 and U.S. 101 connectors would require temporary full closures and the implementation of detours.

Sidewalk closures would occur in areas where improvements to the curb ramps are proposed. Temporary pedestrian detours would be provided to ensure safe access to businesses during construction. Access to private properties and driveways would be maintained throughout construction. Temporary K-rails would be installed for daylight construction to provide safe pedestrian access.

The majority of construction activities associated with curb ramps and drainage improvements would occur during daylight hours. Some night work may be needed for drainage improvements at SR 12/U.S. 101 connectors. All fences within the project limits that are affected by construction activities would be replaced following project completion.

Construction equipment and materials would be staged outside the paved areas and within the ROW. Construction activities would use equipment such as excavators, backhoes, dump trucks, saw cutting machines, loader, forklifts, roller, pavers, and flatbeds. Rebuilding shoulder backing would require up to 7 feet from edge of pavement during construction.

2.1.7 Construction Schedule

Project construction is anticipated to require two construction seasons, beginning in the spring of 2021 and ending in the winter of 2023. The Project would require a total of approximately 220 working days to complete weather permitting. Duration of paving in any given area would be up to 2 weeks, meaning equipment and/or staging would occur on the same segment of highway for 2 weeks at a time. Construction equipment and materials would be staged outside the paved areas and within the ROW east of the Fulton Road intersection. West of the Fulton Road intersection, staging will be at the locations shown on Figure 2-1.

2.1.8 Vegetation Trimming and Removal

Vegetation clearing and grubbing would occur within the project limits immediately adjacent to construction activities. The Project is expected to require minimal vegetation removal in order to clear obstructions for construction equipment where work is proposed off pavement, to replace MBGR, and to rebuild shoulder backing. In addition, the shoulder on the connector of the southbound U.S. 101 to westbound SR 12 would require 10 feet of shoulder widening, which would require removal of approximately 7 to 10 landscaped trees.

2.1.9 Project Features

The proposed Project contains a number of standardized project components which are employed on most, if not all, of Caltrans projects and were not developed in response to any specific environmental impact resulting from the proposed Project. These components are referenced as Project Features in Chapter 3 as they pertain to different environmental resources, and are separated out from AMMs and Mitigation Measures, which directly relate to the impacts resulting from the proposed Project.

Table 2-1 lists the Project Features that would be implemented Caltrans to reduce or avoid potential impacts to the human and natural environment.

Table 2-1 Project Feature Summary

Resource Area	Project Feature Reference	Project Feature
Aesthetics	Feature AES-1	Vegetation Protection. Existing trees and vegetation would be preserved to the extent feasible, aside from landscape trees already determined to be removed. Trees and vegetation outside of clearing and grubbing limits would be protected from the contractor's operations, equipment, and materials storage. Tree trimming and pruning, where required, would be under the direction of a qualified biologist.
Aesthetics	Feature AES-2	Erosion Control. After construction, all areas cleared within the project limits for uses such as contractor access, staging and trenching operations would be treated with appropriate erosion control measures where required.
Aesthetics	Feature AES -3	Construction Staging. Except as detailed in the Contract Plans, staging areas would not affect existing landscaped areas resulting in death and/or removal of trees, shrubs and groundcover, or disruption and destruction of existing irrigation facilities.
Aesthetics	Feature AES-4	Construction Waste. During construction operations unsightly material and equipment in staging areas would be placed where they are less visible and/or covered where possible.
Aesthetics	Feature AES-5	Construction Lighting. Construction activities would limit all construction lighting to within the immediate vicinity of active work during daytime and night hours and avoid light trespass through directional lighting, shielding, and other measures as needed. This would reduce and avoid light impacts on travelers, nearby residences, and nearby recreational facility users.

	Project Feature	
Resource Area	Reference	Project Feature
Air Quality	Feature AIR-1	Dust Control. A dust control measure would be included in the Storm Water Pollution Prevention Plan (SWPPP) and implemented to minimize construction impacts to existing communities. The plan would incorporate measures such as sprinkling, speed limits, transport of materials, and timely revegetation of disturbed areas as needed, as well as posting a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints and at the Bay Area Air Quality Management District (BAAQMD) regarding compliance with applicable regulations. Water or dust palliative would be applied to the site and equipment as often as necessary to control fugitive dust emissions. Fugitive emissions generally must meet a "no visible dust" criterion either at the point of emissions or at the ROW line, depending on air pollution control district and air quality management district regulations and local ordinances.
Air Quality	Feature AIR-2	Idling and Access Points. Idling times would be minimized either by shutting off equipment when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage would be provided for construction workers at all access points. Construction activities involving the extended idling of diesel equipment or vehicles would be prohibited, to the extent feasible.
Air Quality	Feature AIR-3	Maintaining Construction Equipment and Vehicles. All construction equipment and vehicles would be maintained and properly tuned in accordance with manufacturer's specifications. All equipment would be checked by a certified mechanic and determined to be running in proper condition prior to operation.
Air Quality	Feature AIR-4	Contractor Air Quality Compliance. The construction contractor must comply with the Caltrans Standard Specifications in Section 14-9, which require contractor compliance with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances.
Biological Resources – Natural Communities	Feature BIO-1	Designated Construction Areas, Delineated ESAs, Work Areas, and Equipment and Materials Storage Sites. Caltrans would delineate construction areas and ESAs (areas containing sensitive habitats adjacent to or within the project limits for which physical disturbance is not allowed) on the final construction plans. The agency-approved biologist would be onsite to direct the installation of ESA fencing, flagging, or other approved means of delineation prior to the start of construction, to prevent encroachment of personnel and equipment into sensitive areas during construction. When feasible staging, storage, and parking areas would be located on paved or graveled surfaces within the Caltrans ROW and away from any designated ESAs, to minimize construction impacts to protected resources. Equipment and materials storage sites would also be located as far away from residential uses as practicable. At the discretion of the agency-approved biologist, limits would also be defined near other environmentally sensitive locations, such as bird nests, when necessary. The ESA fencing, flagging, or other material would be removed when construction activities are complete in the immediate vicinity.

Resource Area	Project Feature Reference	Project Feature
Biological Resources – Natural Communities	Feature BIO-2	Wildlife Exclusion Fencing. Before starting construction, Wildlife Exclusion Fencing (WEF) would be installed around staging areas located within 1.3 miles of CTS breeding pools, as mapped by the SRPCS. The WEF would remain in place throughout the duration of the Project related activities at the staging area, which is expected to be one to two weeks for a given location. The final plans would depict all locations where WEF would be installed and indicate how it would be installed. The special provisions in the bid solicitation package would clearly describe acceptable fencing material. The WEF would be removed at the end of construction.
Biological Resources – Animal and Plant Species	Feature BIO-3	Construction Work Windows. Construction work windows would be incorporated into the Project including, but not limited to: vegetation removal would be scheduled outside the bird nesting season (February 1 to September 30) and biological restrictions to avoid impacts to California tiger salamander require avoidance of working in wet weather by restricting ground disturbing activities in suitable CTS habitat to be between April 15 and October 15. This work window would not apply to activities within the edge of pavement, such as resurfacing existing pavement.
Biological Resources – Animal and Plant Species	Feature BIO-4	Worker Environmental Awareness Training. All construction personnel would attend a mandatory environmental education program, to be delivered by an agency-approved biologist, prior to beginning construction, or prior to beginning work on the Project. This program would provide information on special-status species and the employees' personal responsibility in avoiding impacts to species during construction. At a minimum, the training would include: a description of CTS and migratory birds and their habitats; a discussion of the potential occurrence of these species within the project limits; an explanation of the status of these species and protection under FESA and CESA; the description of measures to be implemented to conserve listed species and their habitats as they relate to the work site. Information would be provided on protected species to construction personnel, along with compliance reminders and relevant contact information. Documentation of the training and sign-in sheets would be kept on file and available on request.
Biological Resources – Animal and Plant Species	Feature BIO-5	Pre-construction Surveys and Biological Monitoring. An agency-approved biologist would conduct pre-construction surveys for special-status species. The biologist would be present during construction activities, including establishment of ESAs, vegetation clearing and grubbing, ground disturbance, and other work activities when special-status species may be harmed or harassed. If at any point, any listed species is discovered within the project limits, a 50-foot-wide work restriction buffer would be applied until the animal moves out of the area or the animal is relocated out of harm's way; the regulatory agency(ies) would be notified.

Resource Area	Project Feature Reference	Project Feature		
Biological Resources – Animal and Plant Species	Feature BIO-6	Pre-construction Surveys for Nesting Birds. Bird Protection Special Provision would be included in the construction contract. A preconstruction survey for migratory birds and raptors would be required within fourteen (14) days prior to construction if construction activities occur within migratory bird nesting season (February 1 through September 30) and subsequent surveys would be required every three days throughout the nesting season. If migratory birds or raptors are found nesting adjacent to a work area during construction activities, the following ESA buffers would be required: If an active raptor nest is observed, a 300-foot ESA buffer must be implemented to avoid impacting the young until they have fledged; a 50-foot ESA buffer around any active nests of non-raptor migratory birds is required to protect the young until they have fledged, or as otherwise determined by the agency-approved biologist.		
Biological Resources – Animal and Plant Species	Feature BIO-7	Biologist Authority to Stop Construction. The agency- approved biologist would stop work, as directed by the RE, in the vicinity of any protected species that are discovered. Work would not begin again until the individual species is either relocated by the monitor or moves out of harm's way by itself.		
Biological Resources – Animal and Plant Species	Feature BIO-8	Avoidance of Entrapment. To prevent inadvertent entrapment of animals during construction, excavated, steep-walled holes or trenches more than 1 foot deep would be covered at the close of each working day using plywood or similar materials, or provided with one or more escape ramps constructed of earth fill or wooden planks. Before such holes or trenches are filled, they must be thoroughly inspected for trapped animals. Pipes, culverts, or similar structures stored in the project limits overnight would be inspected before they are subsequently moved, capped, and/or buried.		
Biological Resources – Animal and Plant Species	Feature BIO-9	Construction Site Management Practices. The following site restrictions would be implemented to avoid or minimize potential effects on listed species and their habitats: a. Enforce a speed limit of 15 mph on unpaved areas within the project limits to reduce dust and soil disturbance. b. Locate construction access, staging, storage, and parking areas within Caltrans ROW outside any designated ESAs. Access routes, staging and storage areas, and contractor parking would be limited to the minimum necessary to construct the proposed Project. Routes and boundaries of roadwork would be clearly marked before initiating construction or grading. c. Certify, to the maximum extent practicable, borrow material is non-toxic and weed free. d. Enclose food and food-related trash items in sealed trash containers and remove them from the site at the end of each day. e. Prohibit pets from entering the project limits during construction. f. Prohibit firearms within the project limits, except for those carried by authorized security personnel or local, state, or federal law enforcement officials.		

Resource Area	Project Feature Reference	Project Feature	
1,00001,007,1100	7.010101100	g. Maintain equipment to prevent the leakage of vehicle fluids, such as gasoline, oils, or solvents and developing a spill response plan. Hazardous materials, such as fuels, oils, and solvents, would be stored in sealable containers in a designated location that is at least 200 feet from aquatic habitats.	
Biological Resources – Invasive Species	Feature BIO-10	Landscaping and Erosion Control Plan. A landscaping and erosion control plan would be prepared to restore disturbed areas with climate-adapted species.	
Biological Resources – Invasive Species	Feature BIO-11	Cleaning of Equipment. Equipment would be thoroughly cleaned before arriving in the project limits to prevent the spread of noxious weeds from other locations.	
Biological Resources – Invasive Species	Feature BIO-12	Reduce Spread of Invasive Species. Noxious weeds would be controlled within the project construction site in accordance with Caltrans' Highway Design Manual Topic 110.5, "Control of Noxious Weeds – Exotic and Invasive Species," and Executive Order 13112 (Invasive Species), and by methods approved by a Caltrans' landscape architect or vegetation control specialist.	
Biological Resources – Threatened and Endangered Species	Feature BIO-13	Special-Status Species Handling. An agency-approved biologist would handle threatened and endangered species using approved handling techniques. Standard species-handling protocols would be used if individuals are discovered within the project limits.	
Biological Resources – Threatened and Endangered Species	Feature BIO-14	Consultation with Agencies. Coordination with the regulatory agency(ies) would occur if individuals of species under federal and/or state jurisdiction are found within the project limits during construction.	
Biological Resources – Threatened and Endangered Species	Feature BIO-15	Night Work . Nighttime work would be avoided to the maximum extent practicable. For unavoidable nighttime work, all lighting would be directed downwards and towards the active construction area.	
Biological Resources – Threatened and Endangered Species	Feature BIO-16	No Monofilament Netting. Plastic monofilament netting (erosion control matting) or similar material would not be used because wildlife may become entangled or trapped in it. Acceptable substitutes include coconut coir matting or tackifier hydroseeding compounds.	
Cultural Resources	Feature CUL-1	Discovery of Cultural Resources. If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area would be diverted until a Caltrans qualified archaeologist can assess the nature and significance of the find.	

Resource Area	Project Feature Reference	Project Feature		
Cultural Resources	Feature CUL-2	Discovery of Human Remains. If remains are discovered during excavation, all work within 60 feet of the discovery would halt and Caltrans' Cultural Resource Studies office would be called. Caltrans' Cultural Resources Studies Office Staff would assess the remains and, if determined human, would contact the County Coroner as per Public Resources Code (PRC) Sections 5097.98, 5097.99, and 7050.5 of the California Health and Safety Code. If the Coroner determines the remains to be Native American, the Coroner would contact the Native American Heritage Commission who would then assign and notify a Most Likely Descendant. Caltrans would consult with the Most Likely Descendant on respectful treatment and reburial of the remains. Further provisions of PRC 5097.98 are to be followed as applicable.		
Greenhouse gas emissions	Feature GHG-1	Waste Reduction. If practicable, nonhazardous waste and excess material would be recycled. If recycling is not practicable, the material would be disposed of appropriately.		
Greenhouse gas emissions	Feature GHG-2	Energy Reduction. Solar sign boards would be used when feasible.		
Hazards and Hazardous Materials	Feature HAZ-1	Aerially Deposited Lead Work Plan. A work plan for aerially deposited lead if required would be prepared during the design (Plans, Specifications and Estimate [PS&E]) phase.		
Hazards and Hazardous Materials	Feature HAZ-2	Hazardous Materials Incident Contingency Plan. A hazardous materials incident contingency plan would be prepared to report, contain, and mitigate roadway spills. The plan would designate a chain of command for notification, evacuation, response, and cleanup of roadway spills.		
Hydrology and Water Quality	Feature HYD-1	Stormwater Pollution Prevention Plan. A SWPPP would be developed and erosion control BMPs would be implemented in compliance with the requirements of the North Coast Regional Water Quality Control Board (RWQCB). SWPPP must be prepared by the Contractor and approved by Caltrans, pursuant to Caltrans 2018 Standard Specification 13-3. Protective measures would include, at a minimum:		
		 a. Disallowing any discharging of pollutants from vehicle and equipment cleaning into any storm drains or watercourses. b. All grindings and asphaltic-concrete waste would be stored within previously disturbed areas absent of habitat and at a minimum of 50 feet from any downstream riparian habitat, aquatic habitat, culvert, or drainage feature. 		
		c. Dedicated fueling and refueling practices would be designated as part of the approved SWPPP. Dedicated fueling areas would be protected from stormwater run-on and would be located at least 50 feet from downslope drainage facilities and water courses.		
		d. Fueling must be performed on level-grade areas. Onsite fueling would only be used when and where it is impractical to send vehicles and equipment offsite for fueling. When fueling must occur onsite, the contractor would designate an area to be used subject to the approval of the Caltrans Resident Engineer. Drip pans or absorbent pads would be used during onsite vehicle and equipment fueling.		

Resource Area	Project Feature Reference	Drainet Footure		
Resource Area	Reference	Project Feature		
		e. Spill containment kits would be maintained onsite at all times during construction operations and/or staging or fueling of equipment.		
		f. Dust control measures consistent with Air Quality Project Features would be implemented. Dust control would be addressed during the environmental education session.		
		g. Coir logs or straw wattles would be installed in accordance with the Caltrans BMP Guidance Handbook, to capture sediment.		
		h. Graded areas would be protected from erosion using a combination of silt fences, erosion control netting (such as jute or coir), and fiber rolls along edges of designated staging areas and as appropriate on sloped areas in accordance with the Caltrans BMP Guidance Handbook.		
		 The Contractor is responsible for securing locations for staging and storage, as approved by the Resident Engineer. 		
Hydrology and Water Quality	Feature HYD-2	Water Quality BMPs. To address the temporary water quality impacts resulting from the construction activities in the project limits, BMPs would include the measures of sediment control, pH control, material and job site management, and erosion control.		
Hydrology and Water Quality	Feature HYD-3	Low-Impact Development Controls. The proposed added impervious area is more than 1 acre (1.34 acres) therefore, water quality permanent BMPs are required. The Municipal Regional Permit prioritizes the use of low-impact development measures for stormwater treatment controls. These measures are harvesting and use, infiltration, evapotranspiration, and biotreatment. Other conventional treatment measures (such as basins and vaults) are allowable under special conditions outlined in the permit. Caltrans has an approved list of treatment BMPs that have been studied and verified to provide pollutant removal from stormwater. The permanent BMPs would be incorporated during construction phase to reduce the pollutants in stormwater discharges.		
Hydrology and	Feature HYD-4	Seasonal Restrictions for Water Quality.		
Water Quality		 a. Grading would be conducted between April 15 and October 15, depending on the level of rainfall and/or site conditions. b. Work within drainages would occur between June 1 and October 15. 		
Noise	Feature NOI-1	Idling of Internal Combustion Engines. Unnecessary idling of internal combustion engines would be avoided within 100 feet of sensitive receptors.		
Noise	Feature NOI-2	Maintaining Internal Combustion Engines. All internal combustion engines would be maintained properly to minimize noise generation.		
Noise	Feature NOI-3	Equipment Deliveries. No construction equipment would be delivered and dropped off before 6:00 a.m.		

Resource Area	Project Feature Reference	Project Feature
Transportation and Traffic	Feature TRA-1	Traffic Management Plan (TMP). A TMP would be developed by Caltrans with input from the local community. The TMP would include elements such as haul routes, one-way traffic controls to minimize speeds and congestion, flag workers, and phasing, to reduce impacts to local residents as feasible and maintain access for police, fire, and medical services in the local area. Temporary pedestrian and bicyclist access would be provided during construction.
Utilities and Service Systems	Feature UTI-1	Trash Management. All food-related trash items such as wrappers, cans, bottles, and food scraps would be disposed of in closed containers and removed at least once daily from the project limits. A Trash Reduction System would also be developed and implemented per Caltrans Statewide National Pollution Discharge Elimination System (NPDES) Permit and San Francisco RWQCB Cease and Desist Order.
Utilities and Service Systems	Feature UTI-2	Notify Utility Owners of Construction Schedule to Protect Utilities. All affected utility companies, including PG&E and AT&T, would be notified of construction schedules for proposed project work so that they can relocate cable or provide special instructions for cable protection if needed, and minimize disruption of utility service.

2.2 No-Build Alternative

The No-Build Alternative would mean that the Project would not be constructed, and there would be no improvements to the pavement or existing ancillary infrastructure within the project limits. As such, this segment of SR 12 would continue to deteriorate, and there would be no improvement to ride quality. The MBGR and curb ramps would continue to be nonstandard. This alternative does not meet the purpose and need for the Project.

2.3 Permits and Approvals Needed

Table 2-2 summarizes the permits anticipated for the proposed Project by the respective agencies as well as permit status. Approval of project funding is required by the California Transportation Commission board for each phase of the Project.

Table 2-2 Required Permits

Agency	Permit	Permit Status	
California Department of Fish and Wildlife	Consistency Determination	The target date to submit a request for a Consistency Determination is spring 2021.	
United States Fish and Wildlife Service	Biological Opinion with Incidental Take Statement	Application submittal target date is January 2020	

Chapter 3 California Environmental Quality Act Evaluation

The following discussions evaluate potential environmental impacts of the proposed Project, as described in Chapter 2 as they relate to the CEQA checklist to comply with State CEQA Guidelines (Title 14 California Code of Regulations, Division 6, Chapter 3, Section 15091).

Environmental Factors Potentially Affected

As part of the scoping and environmental analysis carried out for the proposed Project, the following environmental issues were considered, but no adverse impacts were identified. As a result, there is limited discussion in this document on the following resources: agriculture and forestry, cultural resources, land use and planning, mineral resources, population and housing, public services, recreation, and tribal cultural resources. The environmental factors checked below in Table 3-1 would be potentially affected by the proposed Project. Further analyses of these environmental factors are included in the following sections.

Table 3-1 Environmental Factors Potentially Affected

Х	Aesthetics		Agriculture and Forestry	Х	Air Quality
Х	Biological Resources		Cultural Resources	Х	Energy
Х	Geology/Soils	X	Greenhouse Gas Emissions	X	Hazards and Hazardous Materials
Х	Hydrology/Water Quality		Land Use/Planning		Mineral Resources
Х	Noise		Population/Housing		Public Services
	Recreation	Х	Transportation/Traffic		Tribal Cultural Resources
Х	Utilities/Service Systems	Х	Wildfire	Х	Mandatory Findings of Significance

Determination

On the basis of this initial evaluation:

	I find that the proposed Project COULD NOT have a significent environment, and a NEGATIVE DECLARATION will be proposed.				
X	I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.				
	I find that the proposed Project MAY have a significant effect environment, and an ENVIRONMENTAL IMPACT REPORT				
	I find that the proposed Project MAY have a "potentially significant unless mitigated" impact on the enviroleast one effect 1) has been adequately analyzed in an earlier pursuant to applicable legal standards, and 2) has been addressures based on the earlier analysis as described on attach ENVIRONMENTAL IMPACT REPORT is required, but it the effects that remain to be addressed.	ronment, but at document ssed by mitigation ed sheets. An			
Sign	I find that although the proposed Project could have a significant environment, because all potentially significant effects (a) has adequately in an earlier EIR or NEGATIVE DECLARATIO applicable standards, and (b) have been avoided or mitigated earlier EIR or NEGATIVE DECLARATION, including review measures that are imposed upon the proposed Project, nothing required	N pursuant to pursuant to that sions or mitigation ag further is			
	nature:	Date:			
Printed Name: Stefan Galvez-Abadia					

CEQA Environmental Checklist

This checklist (presented at the beginning of each resource section below in the form of a table listing the pertinent questions applicable to the resource and four columns where the degree of impact is indicated) identifies physical, biological, social, and economic factors that might be affected by the proposed Project. In many cases, technical studies performed in connection with the Project indicate that there are no impacts to a particular resource. A "no impact" answer in the last column reflects this determination. The words "significant" and "significance" used throughout the checklist are related to CEQA impacts. The questions in this form are intended to encourage the thoughtful assessment of impacts and do not represent thresholds of significance.

As noted previously, Project Features, which may include both design elements of the proposed Project and standardized measures that are applied to all or most Caltrans projects, such as BMPs and measures included in the Standard Plans and Specifications or as Standard Special Provisions, are considered to be an integral part of the Project and are considered prior to any significance determinations. A list of the proposed Project's Project Features, AMMs, and Mitigation Measures can be reviewed in the Environmental Commitments Record in Appendix B.

Aesthetics

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?				Х
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				Х
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?			X	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			Х	

A Scenic Resource Evaluation and Visual Impact Assessment was completed for the Project in September 2019 (Caltrans 2019b). The west end of the project corridor is predominately rural in character with a grassy road edge and scattered groups of mature trees and views to adjacent agricultural uses. East toward Santa Rosa, adjacent land use transitions to single-family residential and commercial use. After crossing U.S. 101, the roadway is bordered by soundwalls and downslope mature trees, which are considered a dominant feature of the project corridor. At the eastern end of the Project, from PM 16.0 to 17.4, SR 12 is eligible, but currently not designed as, a State Scenic Highway.

a, b) No Impact

The Project would have no impact on scenic vistas, or visual resources. There are no scenic vistas within the project limits and the current views from SR 12 would not be degraded. Overall, the Project would not impact or degrade the existing visual quality of the project limits or its surroundings.

SR 12 is eligible for designation as a State Scenic Highway, but not designated as such. Designated scenic highways are eligible depending on how much of the natural landscape can be seen by the travelling public. Although there would be temporary visual impacts related to construction equipment use and staging, fencing, and K-rails which would decrease the scenic views of passerby travelers on SR 12 and recreationalists on the Joe Rodota Trail, this would be minimal during construction activities because passerby traffic's focus would be ahead, on the road. However, with implementation of Project Features AES-1 through AES-5 in Table 2-1, the Project would result in no impact.

c) Less than Significant Impact

The Project would not substantially degrade the existing visual character or quality of public view of the site and its surroundings. The Project would be compatible with the existing visual character and quality of the corridor despite temporary construction activities.

The replacement of the MBGR with MGS would be in-kind and would require minimal vegetation removal, which would include tree trimming to clear obstructions for construction and clearing and grubbing. Approximately 7 to 10 landscape trees would be removed to widen the shoulder of the southbound U.S. 101 connector to SR 12 westbound. Staging areas would require removal of existing landscaped vegetation and removal of existing irrigation facilities. However, with implementation of AMM-AES-1, Replace Removed Trees, and Project Features AES-1 through AES-5 in Table 2-1, the Project would result in less than significant impact.

d) Less than Significant Impact

The Project would not create a new source of light or glare. Construction activities would require the need for temporary lighting primarily due to nighttime paving of SR 12. Daytime construction activities may also require lighting. However, this lighting would be temporary and would only be used for the duration of construction activities. Construction lighting would be arranged and/or shielded to minimize glare to oncoming traffic. The Project would not require or create new permanent sources of substantial light or glare. Travel lanes would be restriped after paving is completed with reflective paint, since this is replacement in-kind it would not be a new source of light or glare. Project Feature AES-5 as described in Table 2-1 would minimize glare impacts to less than significant.

Avoidance and Minimization Measure for Trees

AMM AES-1: Replace Removed Trees. During construction, work would result in the removal of existing trees. Caltrans or its contractor, at the direction of Caltrans, would replace all removed trees within the project limits to the extent feasible before operation of the Project. Landscape trees removed would be replanted where feasible. Irrigation damaged and/or removed as a result of the Project would require repair/replacement as part of the Project.

Agriculture and Forest Resources

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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 nonagricultural use?				Х
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				Х
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))?				х
d) Result in the loss of forest land or conversion of forest land to non-forest use?				Х
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?				Х

The west end of the project corridor is predominately rural in character with adjacent agricultural uses. Per Sonoma County Important Farmland map (Sonoma County 2017), within the project area there are farmlands of statewide importance, farmland of local importance, as well as urban and build up land. East toward Santa Rosa, adjacent land use transitions to single-family residential and commercial use. The project limits do not include areas that would qualify as forestland or timberland (California Department of Conservation 2016).

a, b) No Impact

The Project would not impact agricultural land and would not change land use within the project limits. All project work adjacent to agricultural land would occur within the Caltrans ROW.

c, d, e) No Impact

The proposed Project would not conflict with existing zoning for forest land or timberland or convert forest land to non-forest use land. The Project would not involve other changes in the existing environment that would result in conversion of forest or agricultural land. There would be no impact.

Air Quality

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?				Х
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?			x	
c) Expose sensitive receptors to substantial pollutant concentrations?			×	
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?				х

The Bay Area Air Quality Management District is the regulatory agency of the San Francisco Bay Area Air Basin (SFBAAB) in which the Project is located. The SFBAAB is considered to be in federal and state nonattainment for ozone and fine particulate matter 2.5 micrometers (PM_{2.5}) and in state nonattainment for particulate matter 10 micrometers (PM₁₀). It is in attainment or unclassified for other state and federal air quality standards.

a, d) No Impact

Construction activities would not be in conflict with an air quality plan or generate emissions resulting in excessive odors. There would be no impact.

b, c) Less than Significant Impact

The Project is exempt from the requirement to determine air quality conformity per 40 Code of Federal Regulations (CFR) 93.126 which covers pavement resurfacing and rehabilitation projects; therefore, an Air Quality Study is not required.

Construction air pollutants are expected to be short-term. Potential impacts to air quality, including violation of air quality standards, criteria pollutants, and exposure of sensitive receptors to pollutants, would not be significant based on the construction activities of the proposed Project. However, the Project would be required to comply with Caltrans Standard Specification 14-9, Air Quality, which requires compliance

with applicable air-pollution control rules, regulations, ordinances, and statutes. With implementation of Project Features AIR-1 through AIR-4, described in Table 2-1, impacts to air quality would be less than significant.

Biological Resources

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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 or U.S. Fish and Wildlife Service, or NOAA Fisheries?		X		
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				X
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				X
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?				X
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				х
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?				х

Caltrans has prepared a Natural Environment Study (NES) for the Project (Caltrans 2019h). The following text summarizes and analyzes the information presented in the NES.

The Biological Study Area (BSA) encompasses the entire extent of the project limits and extends beyond project limits to the immediately adjacent areas within Caltrans ROW. The 247-acre BSA was surveyed to evaluate the habitat and identify natural resources in the vicinity of the Project. The project limits cover approximately

122 acres and encompass the areas that would be directly affected by construction activities, staging areas, and access routes. The BSA and project limits are shown on aerial photographs in Figure 3-1 in the California Tiger Salamander section below.

Vegetation in the BSA includes a mix of open grassland, oak woodland, ruderal, and landscaped areas, with occasional willow thickets along drainage ditches and swales. Open grasslands are generally found along the western end of the BSA to the west of Stony Point Road and at the eastern end of the BSA around Farmers Lane. Oak woodland is found in scattered locations in the western part of the BSA between Llano Road and Stony Point Road. Areas within the BSA east of Stony Point Road, in the City of Santa Rosa, are characterized as planted landscaped areas. Planted landscape areas are highly variable and range from open grassy areas with scattered trees to densely wooded and shrubby areas with little understory. Willow thickets occur at scattered locations along drainages, ditches and swales in the western part of the BSA between Llano Road and Stony Point Road, with one small willow thicket also present at the east end of the BSA near Farmers Lane.

A regional list of special-status wildlife and plant species was compiled by querying databases from the USFWS (USFWS 2019), California Native Plant Society (CNPS 2019), and California Natural Diversity Database (CNDDB) (CDFW 2019). Each special-status wildlife and plant species on these regional lists was evaluated to determine its potential to occur within the project BSA and project limits. Special-status species with at least some potential to occur within the BSA include special-status plants, migratory birds, and *Ambystoma californiense* (CTS), as well as CTS critical habitat.

Biological resources reconnaissance-level surveys were conducted on September 13, 19, and 26, 2019 within the project BSA. The purpose of the surveys was to characterize the dominant habitat types, evaluate the potential presence for special-status plant and wildlife species, identify potential locations of aquatic resources, and recommend biological surveys to be completed prior to project implementation.

a) Less than Significant with Mitigation

SPECIAL-STATUS PLANT SPECIES

According to the Project NES (Caltrans 2019h), 27 special-status plants have some potential to occur in the BSA. Six federally-listed endangered plants have some possibility of occurring in the BSA, including Sebastopol meadowfoam (*Limnanthes vinculans*), which has been previously reported from the Caltrans ROW along SR 12

between Llano Road and Merced Avenue (CDFW 2019). The other five federally-listed species, Clara Hunt's milk-vetch (*Astragalus claranus*), Sonoma sunshine (*Blennosperma bakeri*), Vine Hill clarkia (*Clarkia imbricata*), Burke's goldfields (*Lasthenia burkei*) and two-fork clover (*Trifolium amoenum*), have all been reported from the regional vicinity and are considered to have limited potential to occur in the BSA. Sonoma sunshine and Vine Hill clarkia are also state listed endangered species and Clara Hunt's milkvetch is a state listed threatened species. Additional special-status plants with potential to occur in the BSA that are not federally or state listed include 11 species with a California rare plant rank of 1B (considered rare, threatened, or endangered), three species with a rare plant rank of 2B (rare, threatened, or endangered in California but more common elsewhere), and eight species with a rare plant rank 4 (a watch list).

The SRPCS establishes specific guidelines and protocols for four federal and state listed plant species that are found on the Santa Rosa Plain, including Sonoma sunshine, Burke's goldfields, Sebastopol meadowfoam, and many-flowered navarretia (*Navarretia leucocephala* ssp. *plieantha*) (USFWS 2005). These species typically occur in vernal pool habitats, but on occasion can be found in seasonally wet swales and constructed ditches. No vernal pools are present in the BSA and the project limits have been designed to avoid impacts to ditches, swales, and other potentially seasonally wet areas.

Detailed floristic surveys have not been completed; however, the following special-status plants have blooming periods extending through September and were not observed during the reconnaissance surveys: bristly sedge (*Carex comosa*), congested-headed hayfield tarplant (*Hemizonia congesta* ssp. *congesta*), and Gairdner's yampah (*Perideridia gairdneri* ssp. *gairdneri*). Detailed protocol-level floristic surveys would be conducted at the appropriate time of year prior to the start of project construction.

The project limits would avoid impacts to natural communities and avoid all potentially seasonally wet areas identified in the BSA. Project impacts would occur immediately adjacent to the paved roadway in areas where the grassland habitat is regularly mowed. Overall the potential for special-status plants to occur in the project limits is considered low. Potential impacts, including indirect impacts, on special-status plants and natural communities would be reduced with the implementation of Project Features BIO-1, BIO-4, BIO-5, BIO-7, BIO-9, BIO-10, BIO-11, BIO-12, and BIO-14, as described in Table 2-1. In the event that a special-status species is

identified in or adjacent to the project limits during the detailed protocol-level floristic surveys, the work/staging area would be adjusted to avoid affecting the species. Therefore, no project impacts on special-status plant species are anticipated.

Avoidance and Minimization Measures for Rare Plants

In addition to the Project Features referenced above, the following AMM would also avoid project impacts to listed plants:

AMM BIO-1: Pre-construction Surveys for Rare Plants. Detailed protocol-level floristic surveys would be conducted at the appropriate time of year prior to the start of the Project for all locations of suitable habitat within the project limits. If a special-status plant is detected, the project limits boundary would be adjusted to avoid impacting the species.

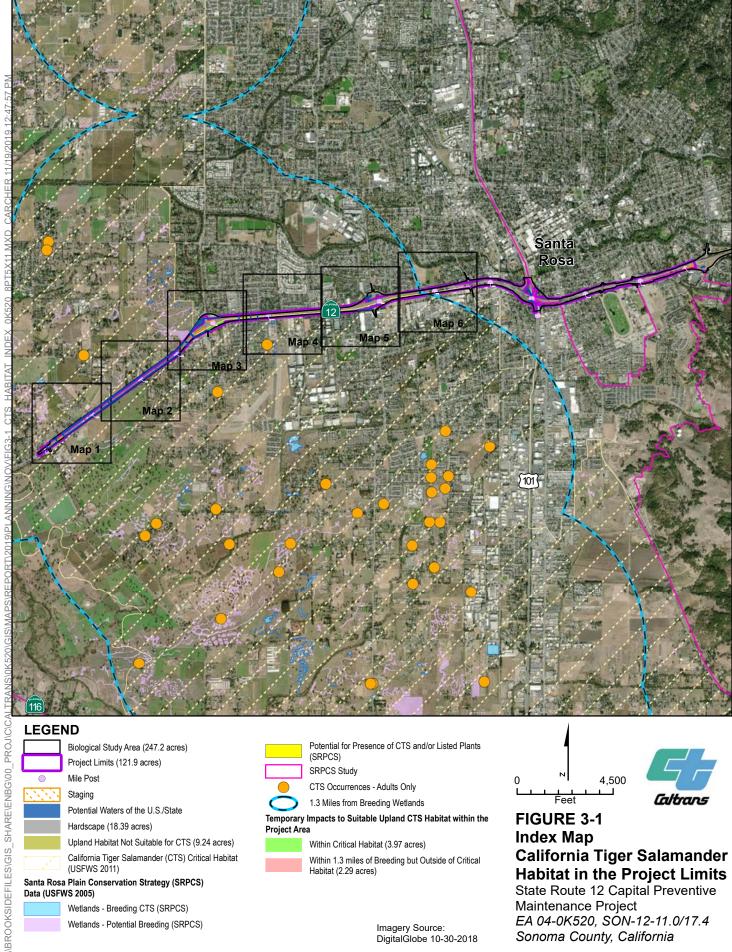
SPECIAL-STATUS WILDLIFE SPECIES

The NES identified special-status wildlife species that have the potential or are known to occur in the BSA, which are discussed in the following sections.

California Tiger Salamander (Ambystoma californiense)

CTS is a federally endangered and state threatened species that occurs in central and northern California where temporary ponded environments (e.g., vernal pools or human-made ponds providing water for at least three months) are surrounded by open upland grasslands that support small mammal burrows. Portions of the BSA occur within the boundaries of the SRPCS, which provides a protocol for managing potential impacts on threatened and endangered species associated with the Santa Rosa Plain, including CTS. Additionally, portions of the BSA occur within the borders of designated critical habitat for Sonoma County CTS (USFWS 2011) (see Figure 3-1).

The NES concludes that suitable dispersal and upland CTS habitat is present in portions of the BSA and project limits. Aquatic habitat for CTS is absent from the project limits, but numerous breeding ponds and CNDDB occurrences occur within dispersal distance (1.3 miles) of the western section of the project limits (CDFW 2019, USFWS 2005). CTS may occasionally disperse into or through portions of the BSA from nearby breeding sites.



Mile Post

Staging

Potential Waters of the U.S./State

Hardscape (18.39 acres)

Upland Habitat Not Suitable for CTS (9.24 acres) California Tiger Salamander (CTS) Critical Habitat (USFWS 2011)

Santa Rosa Plain Conservation Strategy (SRPCS) Data (USFWS 2005)

Wetlands - Breeding CTS (SRPCS) Wetlands - Potential Breeding (SRPCS)

SRPCS Study

CTS Occurrences - Adults Only

1.3 Miles from Breeding Wetlands

Temporary Impacts to Suitable Upland CTS Habitat within the Project Area

Within Critical Habitat (3.97 acres)

Within 1.3 miles of Breeding but Outside of Critical Habitat (2.29 acres)

Imagery Source: DigitalGlobe 10-30-2018

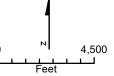
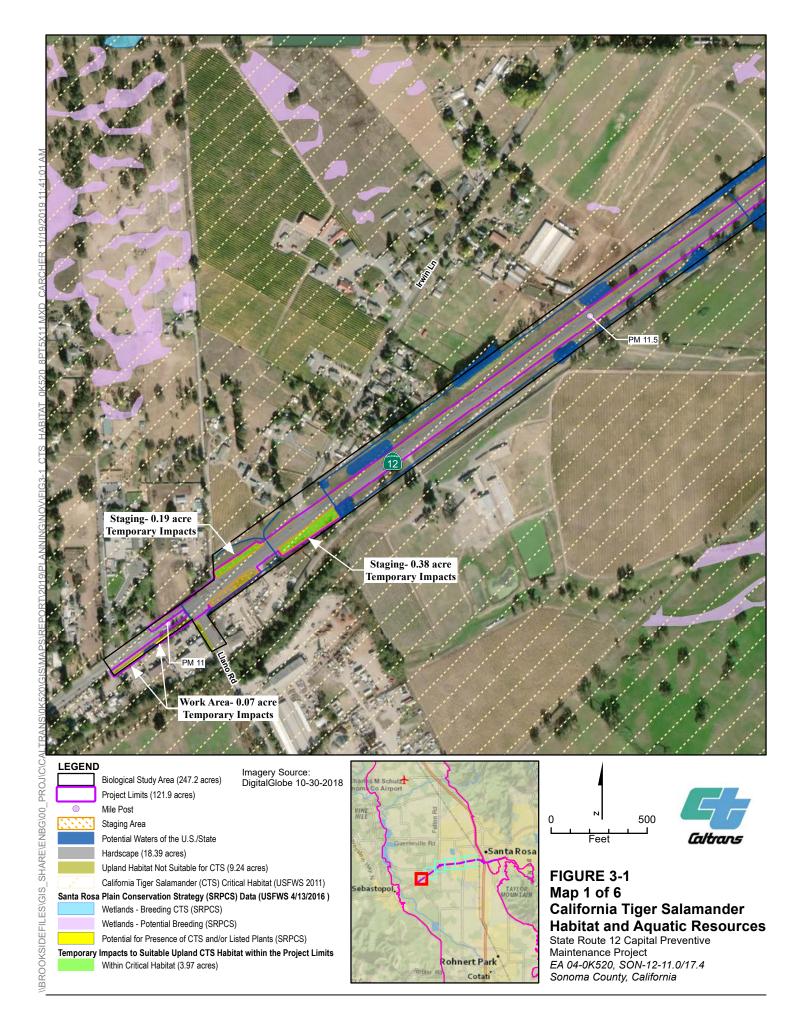
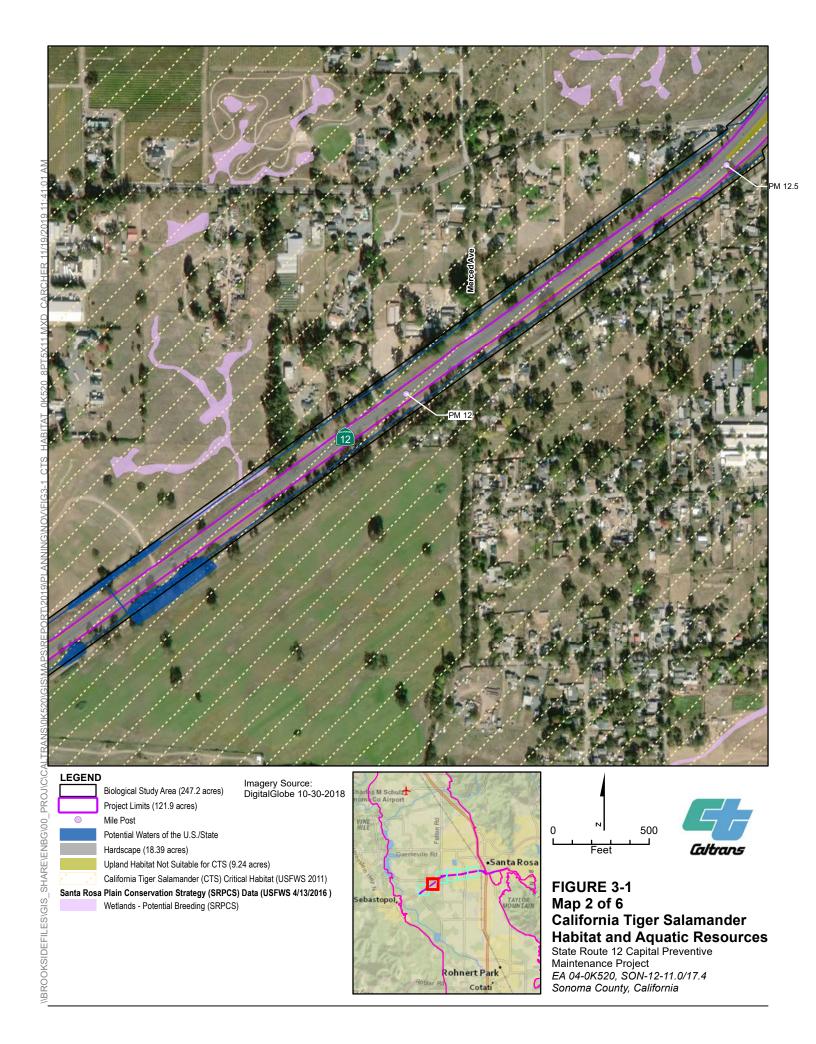


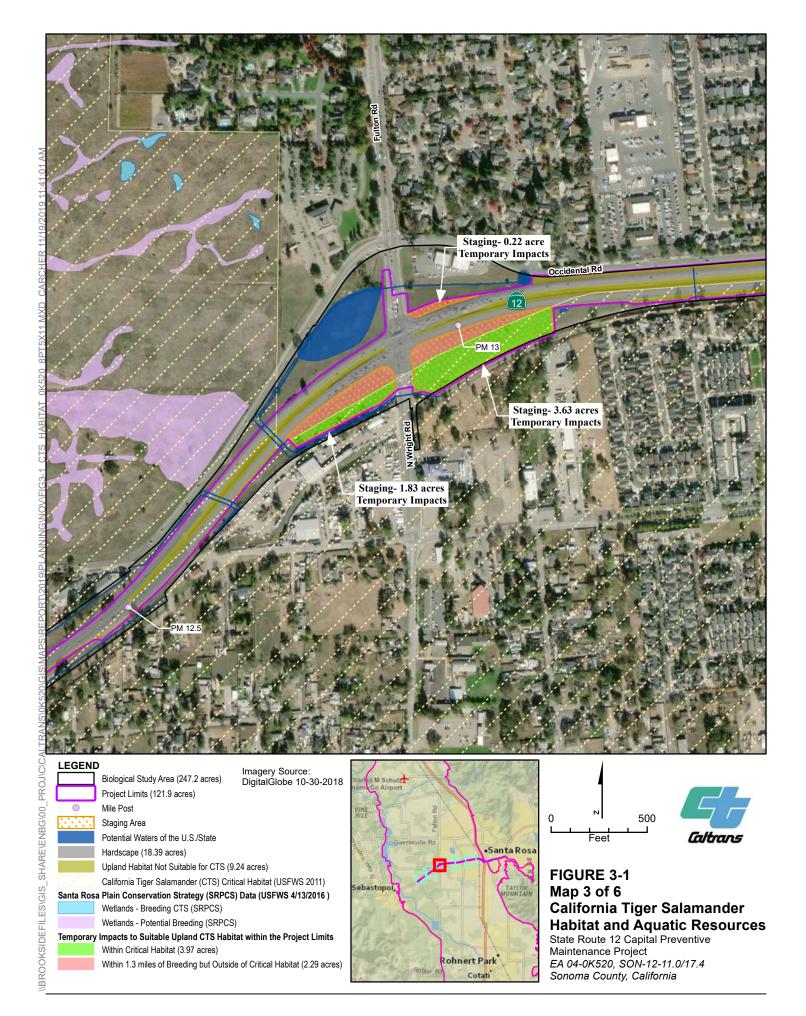


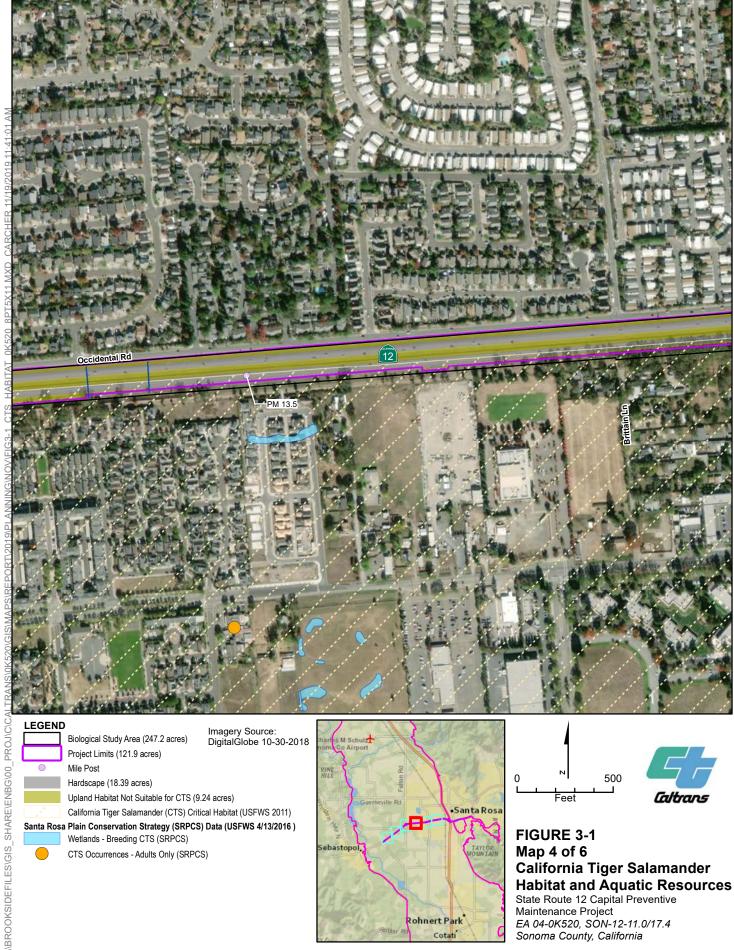
FIGURE 3-1 **Index Map** California Tiger Salamander Habitat in the Project Limits State Route 12 Capital Preventive

Maintenance Project EA 04-0K520, SON-12-11.0/17.4 Sonoma County, California











Biological Study Area (247.2 acres)

Project Limits (121.9 acres) Mile Post

Hardscape (18.39 acres)

Upland Habitat Not Suitable for CTS (9.24 acres)

California Tiger Salamander (CTS) Critical Habitat (USFWS 2011)

Santa Rosa Plain Conservation Strategy (SRPCS) Data (USFWS 4/13/2016) Wetlands - Breeding CTS (SRPCS)

CTS Occurrences - Adults Only (SRPCS)



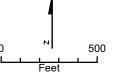
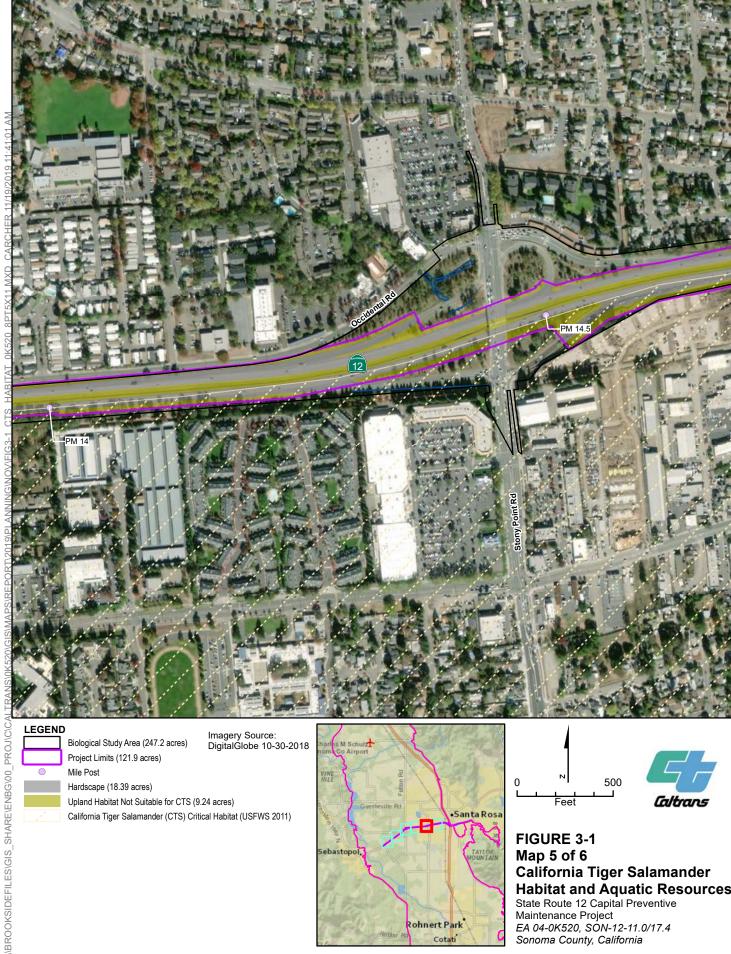




FIGURE 3-1 Map 4 of 6 California Tiger Salamander Habitat and Aquatic Resources
State Route 12 Capital Preventive

Maintenance Project EA 04-0K520, SON-12-11.0/17.4 Sonoma County, California





Biological Study Area (247.2 acres) Project Limits (121.9 acres)

Imagery Source: DigitalGlobe 10-30-2018

Mile Post

Hardscape (18.39 acres)

Upland Habitat Not Suitable for CTS (9.24 acres)

California Tiger Salamander (CTS) Critical Habitat (USFWS 2011)



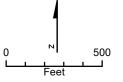
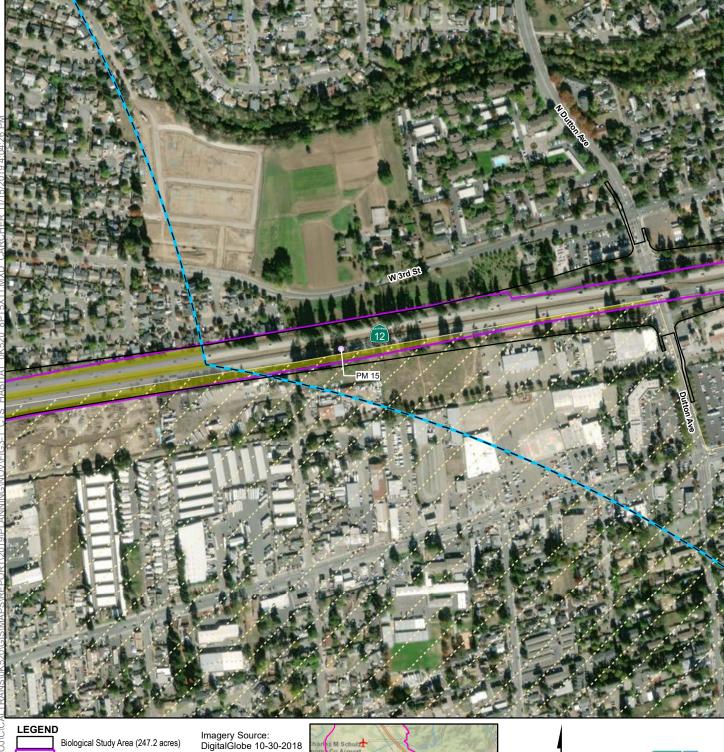




FIGURE 3-1 Map 5 of 6 California Tiger Salamander Habitat and Aquatic Resources
State Route 12 Capital Preventive

Maintenance Project
EA 04-0K520, SON-12-11.0/17.4
Sonoma County, California



NBROOKSIDEFILES\GIS_SHARE\ENBG\00_PROJ\C\C



Biological Study Area (247.2 acres)

Project Limits (121.9 acres)

Mile Post

Hardscape (18.39 acres)

Upland Habitat Not Suitable for CTS (9.24 acres)

California Tiger Salamander (CTS) Critical Habitat (USFWS 2011)

1.3 Miles from Breeding Wetlands



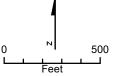




FIGURE 3-1 Map 6 of 6 California Tiger Salamander Habitat and Aquatic Resources
State Route 12 Capital Preventive

Maintenance Project EA 04-0K520, SON-12-11.0/17.4 Sonoma County, California

Annual grassland and ruderal habitats in the BSA west of the Fulton Road intersection may provide suitable refugial or dispersal habitat for CTS. A small number of pocket gopher burrows was observed in grassland habitat in the staging areas at the Fulton Road and Llano Road intersections, and in the road margins of SR 12. Staging areas located south of SR 12 at Fulton Road are separated from the adjacent Wright Conservation Area, which is known to support breeding CTS (CDFW 2019), by Occidental Road and SR 12. While these roads present a significant dispersal barrier, a culvert beneath these roads provides a possibility of safe highway crossing for some CTS. While some CTS may be able to cross at this culvert, the potential for CTS to occur in the staging areas south of SR 12 is greatly reduced. Construction equipment and materials would be staged outside the paved areas and within the ROW east of the Fulton Road intersection. West of the Fulton Road intersection, staging will be at the locations shown on Figure 2-1.

The majority of the BSA east of the Fulton Road intersection is mapped by the SRPCS as developed or blank and is bordered by urban and industrial development to the north and south. In addition, soundwalls and residential and urban fencing form an impassable barrier to movement along the majority of this corridor. Therefore, CTS are considered unlikely to occur east of Fulton Road in the BSA.

The proposed Project would potentially have direct and indirect impacts on CTS and its habitat. The number of CTS that could potentially occur in the project limits is low due to the developed nature of the project surroundings and the timing of project activities during the dry season, when CTS are not expected to move outside of their below-ground refugia. However, individuals could potentially be present in burrows within the project limits and recently metamorphosed CTS seeking upland retreats could also disperse into the project limits from nearby breeding sites during the summer months as aquatic habitats dry out. Construction activities associated with the proposed Project may therefore result in the direct mortality of CTS. Additionally, the Project would result in temporary impacts to CTS upland habitat within the Santa Rosa Plain Unit (Unit 1) of Sonoma County CTS critical habitat. However, the primary constituent elements required for CTS occupancy are largely absent from the BSA, and the proposed Project would not adversely modify critical habitat. Project features and AMMs would reduce the potential for direct and indirect impacts on CTS and its habitat.

Potential project impacts to CTS would be avoided and minimized through implementation of Project Features BIO-1 through BIO-5, BIO-7 through BIO-10,

and BIO-12 through BIO-16 as described in Table 2-1, and through AMM BIO-2 listed below. Ground or vegetation disturbing construction activities would be limited to between April 15 and October 15 in suitable CTS habitat. This work window would be implemented for activities west of the Fulton Road intersection, which is approximately PM 13.1. This work window does not apply to activities within the edge of pavement or activities east of the Fulton Road intersection at approximately PM 13.1. Construction activities and wildlife exclusion fencing would temporarily preclude the use of staging areas by CTS for dispersal and cover. Construction equipment and materials would be staged outside the paved areas and within the ROW east of the Fulton Road intersection. West of the Fulton Road intersection, staging will be at the locations shown on Figure 2-1.

In areas shown on the SRPCS maps as "potential presence of CTS" and occurring within 1.3 miles of CTS breeding pools (0.07 acre), small mammal burrows would be avoided where possible by implementation of AMM BIO-2 as described below. If burrows cannot be avoided in these areas, Mitigation Measure BIO-1 would be implemented and impacts to CTS upland habitat would be reduced in accordance with the SRPCS requirements. Therefore, impacts to CTS upland habitat would be less than significant with implementation of this Mitigation Measure.

AVOIDANCE AND MINIMIZATION MEASURES FOR CALIFORNIA TIGER SALAMANDER AMM BIO-2: Pre-construction Burrow Surveys. Pre-construction surveys for small mammal burrows would be conducted prior to the initiation of Project activities in areas shown on the SRPCS maps as "potential for presence of CTS" and occurring within 1.3 miles of CTS breeding pools. If burrows are detected, they would be avoided to the maximum degree possible.

MITIGATION MEASURE FOR CALIFORNIA TIGER SALAMANDER Mitigation Measure BIO-1: California Tiger Salamander

Areas mapped in the SRPCS (USFWS 2005 or current update) as "potential for presence of CTS" and occurring within 1.3 miles of CTS breeding pools would be avoided in accordance with AMM BIO-2. If potential CTS habitat cannot be avoided, then impacts to CTS upland habitat with small mammal burrows will be mitigated at a ratio of 2:1, in accordance with the SRPCS. Mitigation will be provided by purchase of conservation credits from a USFWS and CDFW approved conservation bank.

Migratory, Sensitive, and Federal- and State-Listed Birds

Migratory, sensitive, and federal- and state-listed birds have the potential to occur within the BSA. These species are protected by both the Migratory Bird Treaty Act

and the California Fish and Game Code, which prohibit the take of non-game migratory birds, raptors, and their nests. Suitable nesting habitat for white-tailed kite (Elanus leucurus, California fully protected [FP]), loggerhead shrike (Lanius ludovicianus, California species of special concern [SSC]), and grasshopper sparrow (Ammodramus savannarum, SSC), occurs within or adjacent to the BSA. Other migratory and/or protected bird species such as American peregrine falcon (Falco peregrinus anatum, FP), golden eagle (Aquila chrysaetos, FP), short-eared owl (Asio flammeus, SSC), and tricolored blackbird (Agelaius tricolor, state listed as threatened [ST]) have a low probability of foraging within the project limits and are not expected to nest in or near the BSA. No signs of burrowing owl (Athene cunicularia) were found during reconnaissance surveys, nor were any suitable California ground squirrel burrows observed.

The Project could result in temporary short-term impacts to avian foraging and nesting habitat, as well as disturbance to individual birds from construction noise. The Project would avoid impacts to active bird nests through the implementation of Project Feature BIO-6, as described in Table 2-1. The survey would identify active bird nests in the BSA prior to beginning construction during the nesting season (February 1 to September 30). If active nesting birds are located, an appropriate disturbance-free buffer as determined by the agency-approved biologist would be maintained until nesting is complete. Impacts to nesting birds and raptors would be less than significant.

b) No Impact

The Project would avoid impacts to sensitive natural communities. Two sensitive natural communities, valley oak woodland (*Quercus lobata* woodland alliance) and red willow thickets (*Salix laevigata* woodland alliance), occur within the BSA. Both natural communities have been assigned a global and state rank of 3, indicating that they are considered vulnerable and have a moderate risk of extinction due to a restricted range, scarcity of stands or occurrences, recent and widespread declines, or other threats.

Within the BSA, valley oak woodland stands range from open savannas with a few scattered trees to dense stands of small to medium-sized trees. This community type occurs within the BSA at scattered locations along the western side of the project limits between Llano Road and Stony Point Road.

Red willow thickets occur at one location along the northwest side of SR 12 near Irwin Road. The trees occur along an excavated drainage ditch/swale and may have been planted as a wind row for the adjacent agricultural fields. Trees in this area are all large mature individuals. Willow thickets may also be regulated as riparian habitat by CDFW under the California Fish and Game Code.

Several trees including valley oak, coast live oak, western sycamore, and redwood occur throughout the BSA in urban landscaped areas. While these landscaped areas contain the native species associated with natural communities, they were not considered to be natural communities due to the urban setting and environment.

Although small areas of sensitive natural communities occur within the BSA, these areas would be avoided. By avoiding these areas, the Project would have no impact to sensitive natural communities.

c) No Impact

The Project would avoid impacts to aquatic resources. No natural rivers, streams, marshes, or vernal pools occur within the BSA. Water features identified in the BSA include excavated drainage ditches and swales that have been constructed to convey roadside runoff and stormwater. Preliminary surveys identified a few areas that were considered potential seasonal wetlands as well as areas with willow trees or shrubs adjacent to the excavated drainages.

The Project has been designed to avoid all potential waters of the U.S. or state including ditches, swales, potential seasonal wetlands, and willow scrub habitats that were identified in the BSA, as shown in Figure 3-1. The Project would have no impact to waters of the U.S., including wetlands, or waters of the state.

d) No Impact

The project limits do not include aquatic habitat and would have no effect to fish passage. The existing SR 12 represents a barrier to wildlife movement and a source of potential mortality to migrating CTS (USFWS 2004). The Project does not propose to widen SR 12 nor facilitate an increase in traffic; therefore, the Project would not result in any new barriers to wildlife movement, additional mortality or injury to CTS from SR 12, or otherwise cause additional interference with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites. There would be no impact.

e) No Impact

The proposed Project would not conflict with any local policies or ordinances protecting biological resources; therefore, there would be no impact.

f) No Impact

The Project overlaps with the boundaries of the SRPCS and is compliant with SRPCS guidance for protection of species covered by the SRPCS. Survey methodology and impact assessment guidelines within the SRPCS informed the analysis of potential project impacts and mitigation. The proposed Project would not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. There would be no impact.

Cultural Resources

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in §15064.5?				Х
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				Х
c) Disturb any human remains, including those interred outside of dedicated cemeteries?				Х

Caltrans prepared a memorandum on cultural compliance for the Project titled Office of Cultural Resource Studies Section 106 review for CAP M Pavement Improvement on State Route 12, Sonoma County (Caltrans 2019c). The studies for this undertaking were carried out in a manner consistent with Caltrans regulatory responsibilities under Section 106 of the National Historic Preservation Act (NHPA) (36 CFR Part 800) and pursuant to the January 2014 First Amended Programmatic Agreement Among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and Caltrans regarding compliance with Section 106 of the NHPA, as it pertains to the Administration of the Federal Aid Highway Program in California (Programmatic Agreement).

a, b, c) No Impact

The Project would not impact cultural resources. Caltrans OCRS assessed the Project in accordance with Caltrans' regulatory responsibilities under the January 2014 Programmatic Agreement and the January 2015 Memorandum of Understanding Between the Caltrans and the California State Historic Preservation Officer Regarding Compliance with Public Resources Code Section 5024 and Governor's Executive Order W-26-92. The Caltrans OCRS review included a detailed search of records, maps, plans, and digital files found in Caltrans' Cultural Resources Database. The background identified no historic properties/historical resources within the area of potential effects (APE).

This assessment determined that the proposed Project has no potential to affect cultural resources and is exempt from further review pursuant to the Programmatic Agreement Stipulation VII, "Screened Undertakings." The undertaking has been screened and determined to be exempt under Class 1 (Pavement reconstruction, resurfacing, shoulder backing, or placement of seal coats), Class 11 (Modification of existing features, such as slopes, ditches, curbs, sidewalks, driveways, dikes, or headwalls, within or adjacent to the right of way), and Class 13 (Addition or replacement of devices, such as glare screens, median barriers, fencing, guardrails, safety barriers, energy attenuators, guide posts, markers, safety cables, ladders, lighting, hoists, or signs) of Attachment 2, "Screened Undertakings" in the Programmatic Agreement.

Construction activities that involve excavation and other earth-moving activities have the potential to encounter unknown archeological resources. Implementation of Project Features CUL-1 and CUL-2, as described in Table 2-1, would reduce potential impacts to undiscovered cultural resources associated with ground-disturbing activities during construction.

Based on the above evaluation, Caltrans has determined that the Project has no potential to affect historical resources for the purposes of CEQA. Compliance with Section 106 via the Programmatic Agreement and California Public Resources Code Section 5024 is complete. Therefore, the Project would have no impact on cultural resources.

Energy

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			X	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				Х

a) Less than Significant Impact

The proposed Project would not increase roadway capacity or otherwise alter long-term circulation that could affect energy use. Energy would be consumed during construction, but this consumption would not be wasteful, inefficient, or unnecessary. During construction, implementation of Project Features AIR-2, AIR-3, and GHG-2, described in Table 2-1, would increase energy efficiency of construction equipment. During project operation, energy consumption would be limited to routine maintenance. The impact would be less than significant.

b) No Impact

The Project would not conflict with a state or local plan for renewable energy or energy efficiency. There would be no impact.

Geology and Soils

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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.				х
ii) Strong seismic ground shaking?				Х
iii) Seismic-related ground failure, including liquefaction?				X
iv) Landslides?				Х
b) Result in substantial soil erosion or the loss of topsoil?			×	
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?				x
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?				х
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?				х
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				х

The Project is located within the California Coast Ranges geomorphic province. This province is a northwest-trending band of folded and faulted mountains that roughly parallel the San Andreas fault zone. In general, the Coast Ranges consist of complexly folded Mesozoic and Cenozoic sedimentary, metamorphic, and volcanic

rock. The eastern end of the Project intersects the Rodgers Creek Fault, a continuously active fault zone that extends approximately 30 miles to the northern margin of San Pablo Bay (California Division of Mines and Geology 1982).

a(i) No Impact

The Project does not directly or indirectly increase the potential for surface rupture or expose the public to increased risk of loss, injury, or death. There would be no impact.

a(ii) No Impact

The Project does not directly or indirectly increase the potential for strong ground shaking or expose the public to increased risk of loss, injury, or death. There would be no impact.

a(iii) No Impact

The project is not located on a geologic unit or soil that is unstable. Therefore, the Project would not increase the potential risk of loss, injury, or death due to seismically related liquefaction. There would be no impact.

a(iv), c, d, e, f) No Impact

The proposed Project would not affect geologic or native soil conditions and would not disturb the native subsurface. There are no known sensitive geologic or paleontological resources in the project limits. There would be no additional impacts to the public from earthquakes, landslides, liquefaction, or other geologic hazards. The Project is not located on a geologic unit or soil that is unstable.

There are no septic tanks or alternative waste water delivery systems in the project limits. Project work would occur in artificial fill along the project corridor, with a maximum excavation depth of 1.25 feet. The Project does not have the potential to destroy unique paleontological features. There would be no impact.

b) Less than Significant Impact

Drainage improvements and curb ramp work would disturb soils, which could result in erosion. However, soil erosion would be minimized through implementation of standard Caltrans Project Features HYD-1 through HYD-4, as described in Table 2-1.

Greenhouse Gas Emissions

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			Х	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				Х

Caltrans investigated potential impacts to greenhouse gas (GHG) emissions from the proposed Project and prepared the *Construction Greenhouse Gas Emissions Analysis Memorandum* (Caltrans 2019d). This section summarizes the findings of this review.

a) Less than Significant Impact

The GHG emissions resulting from construction activities would not result in long-term impact on the environment. Construction-generated GHG includes emissions resulting from material processing, onsite construction equipment, workers commuting to and from the project construction site, and traffic delays from construction. The emissions would be produced at different levels throughout the project depending on the activities involved at various phases of construction.

The analysis was focused on vehicle-emitted GHGs. Carbon dioxide (CO₂) is the single most important GHG pollutant due to its abundance when compared with other vehicle-emitted GHGs, including methane, nitrous oxide, hydrofluorocarbon, and black carbon. The frequency and occurrence of vehicle-emitted GHGs can be reduced through innovations in plans and specifications and by implementing better traffic management during construction phases. In addition, with innovations such as changes in materials and longer pavement life, the GHG emissions produced during construction would be offset to some degree by longer intervals between maintenance and rehabilitation activities.

The project's construction-related GHG emissions were calculated using the Road Construction Emissions Model, version 9.0.0, provided by the Sacramento Metropolitan Air Quality Management District. The estimated total amount of CO₂ produced during a 10-month construction timeframe is 596.93 tons.

Because construction activities are short-term, the GHG emissions resulting from construction activities would not result in long-term impact on the environment. Frequency and occurrence of GHG emissions would be reduced through implementation of Project Features GHG-1 and GHG-2 as described in Table 2-1.

The Project would not increase the vehicular capacity of SR 1. Because technological advances improve automobile efficiencies, it is anticipated that the operational emissions within the project limits would decrease over time. As such, it is not foreseeable for the Project to contribute to an increase in GHG emissions. With implementation of the abovementioned Project Features the Project would have a less than significant impact.

b) No Impact

The proposed Project would not contribute to a long-term increase in GHG emissions. Therefore, it not in conflict with reducing long term emissions. There would be no impact.

Hazards and Hazardous Materials

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				×
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?				×
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				Х
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?				Х
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?				Х
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			Х	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?				х

a, b) No Impact

The Project would not create a significant hazard to the public related to hazardous materials. Caltrans Standard Specifications BMPs would be implemented to prevent spills or leaks from construction equipment and from storage of fuels, lubricants, and solvents. All aspects of the Project associated with removal, storage, transportation, and disposal of hazardous material would be done in accordance with the appropriate

California Health and Safety Code. Handling of hazardous materials would comply with Caltrans Standard Specification 14-11, Hazardous Waste and Contamination, which outlines handling, storage, and disposal of hazardous waste. There are no anticipated impacts.

c) No Impact

The Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste. Three schools are present within a quarter mile of the Project: Montgomery High School (0.15 mile), Wright Charter School (0.20 mile), and Luther Burbank Elementary School (0.25 mile). There would be no impact.

d) No Impact

Screening of environmental regulatory databases (the State Water Resources Control Board's GeoTracker and California Department of Toxic Substances Control's EnviroStor) revealed no known hazardous materials or hazardous waste sites within approximately 500 feet that could negatively affect the project soil and groundwater. The proposed drainage improvement might disturb roadside shallow soil that likely contains elevated levels of aerially deposited lead from past vehicle emissions. However, the Project is not expected to generate surplus excavated material requiring off-site disposal and soil testing is not expected to be necessary. If plans change and off-site disposal of soils is required, additional soils testing and characterization may be necessary during the design phase. Compliance with Caltrans Standard Specifications 14-11, Hazardous Waste and Contamination, would be required and therefore, result in the adequate handling, storing, and disposing of hazardous waste. Additionally, Project Features HAZ-1 and HAZ-2, as described in Table 2-1, would be implemented. There would be no impact.

e) No Impact

There are no airports or airstrips in the project vicinity. The closest airport is the Sonoma County airport located approximately 6.0 miles from the project limits. There would be no impact.

f) Less than Significant Impact

The proposed Project would minimally interfere with any emergency response or evacuation plan. Potential delays to traffic along SR 12 would result from flagger-

controlled one-way traffic in effect during construction activities. A TMP (see Project Feature TRA-1 in Table 2-1) would be developed during the design phase that would identify traffic delays and alternative routes. Emergency response times are not anticipated to change during construction because the TMP would provide priority to emergency vehicles during one-way traffic control. The TMP would provide instructions for response or evacuation in the event of an emergency. The impact would be less than significant.

g) No Impact

The Project does not have permanent features that would expose people or structures to risk of loss, injury, or death involving wildland fires. There would be no impact.

Hydrology and Water Quality

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			X	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the project may impede sustainable groundwater management of the basin?				Х
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;				Х
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;				×
(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			×	
(iv) impede or redirect flood flows?				Х
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				X
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				×

Caltrans completed a hydrology and water quality technical studies for the proposed Project. This section summarizes the findings of the Hydraulics Study (Caltrans 2019e) and Water Quality Study (Caltrans 2019f).

The Project is located within the jurisdiction of the North Coast RWQCB, which is responsible for implementation and enforcement of state and federal laws and regulations concerning water quality.

The Project is within the Russian River Hydrologic Unit and Middle Russian River Hydrologic Area. The Project is within the Mark West Creek Watershed and the Lower Laguna de Santa Rosa Sub-watershed.

The project limits have a Mediterranean climate with cool, wet winters and warm, dry summers with rainy season from October 15 to April 15. January is the coolest month, with an average maximum of 59.0 degrees Fahrenheit (°F) and an average minimum of 39.2°F. September is the warmest month with an average maximum of 83.2°F and an average minimum of 51.5°F. Annual precipitation averaged 33.96 inches of rainfall (Caltrans 2019f).

Stormwater runoff from the project limits drains into the municipal separate storm sewer system that eventually drains into Santa Rosa Creek and Laguna de Santa Rosa and their tributaries. These waterbodies are on the Clean Water Act Section 303 (d) list for various pollutants, including sedimentation/siltation. These waterbodies have no U.S. Environmental Protection Agency approved Total Maximum Daily Load (Caltrans 2019f).

The Project is on the Santa Rosa Plain, with native soils consisting mainly of fine sands silt and silty clay or clay. All project activities would occur entirely on disturbed ground or artificial fill.

a) Less than Significant Impact

The proposed Project would not violate water quality standards or waste discharge requirements. The Project is expected to have a total disturbed soil area of 3.87 acres, which includes work on approach slabs, minor cement concrete for vegetation control on MGS, edge treatment on both side shoulders, and drainage improvements. The project limits have an existing impervious surface area of 33.64 acres. Following completion of the Project, the project limits would have an impervious surface area of 34.98 acres. The net new impervious surface area would be 1.34 acres (Caltrans 2019f).

Increased sediment discharge from approximately 3.87 acres of disturbed soil area and increased runoff from approximately 1.34 acres of net new impervious surface from the MBGR replacement would be avoided through implementation of Project Features HYD-1 through HYD-4, as described in Table 2-1. In addition, the release of fluids, concrete material, construction debris, sediment, and litter, which could change localized pH and turbidity in receiving waters during construction, would be

avoided through implementation of Project Feature HYD-2. The Project would not violate water quality standards or waste discharge requirements. The Project would have less than significant impacts.

b) No Impact

The proposed Project would have no effect to groundwater supplies or groundwater recharge areas in the project vicinity. There would be no impact.

c(i), (ii), (iv) No Impact

The Project would not create runoff that would exceed existing storm drain systems or create substantial additional sources of polluted runoff. The Project would also not impede or redirect flood flows. There would be no impact.

c(iii) Less than Significant Impact

The proposed Project would not substantially alter the existing drainage pattern of the site. With implementation of Project Features HYD-1 through HYD-4 (Table 2-1), the Project would not result in substantial erosion or siltation. The proposed Project would result in a minimal increase of surface runoff due to the new impervious surface. The increase in the surface runoff would be accommodated with the existing stormwater facilities. The Project would have less than significant impacts.

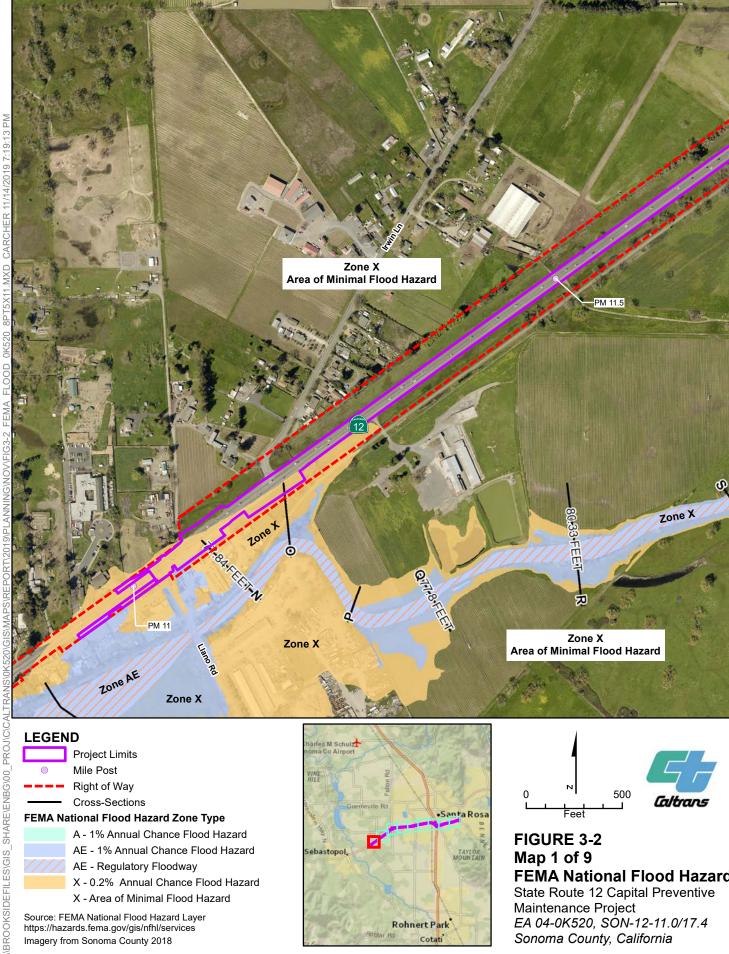
d) No Impact

No floodplain impacts from the proposed Project are expected. According to the Federal Emergency Management Agency Flood Insurance Rates Maps (numbers 06097C0716F, 06097C0717F, 06097C0736F, and 06097C0737F) a very small area of SR 12 at the western end of the project is located in a patterned Zone X floodplain (Figure 3-2). A patterned Zone X floodplain indicates areas inundated in floods between a 1% (100-year flood) to 0.2% (500-year flood) chance of occurring in any given year. The vast majority of the Project is located within Zone X, which indicates flood hazard areas with a 0.2% chance of occurring in any given year (500-year flood).

Under the proposed Project, this area within the 100-year flood would continue to operate as a transportation system, and thus, the project would not have the potential of releasing pollutants during a 100-year flood. The proposed Project is not in flood hazard, seiche, or tsunami zones. There would be no impact.

e) No Impact

With the implementation of Project Features HYD-1 through HYD-4, as described in Table 2-1, the Project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. There would be no impact.



Project Limits Mile Post

Right of Way

Cross-Sections

FEMA National Flood Hazard Zone Type

A - 1% Annual Chance Flood Hazard

AE - 1% Annual Chance Flood Hazard

AE - Regulatory Floodway

X - 0.2% Annual Chance Flood Hazard

X - Area of Minimal Flood Hazard

Source: FEMA National Flood Hazard Layer https://hazards.fema.gov/gis/nfhl/services Imagery from Sonoma County 2018



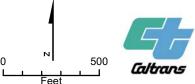
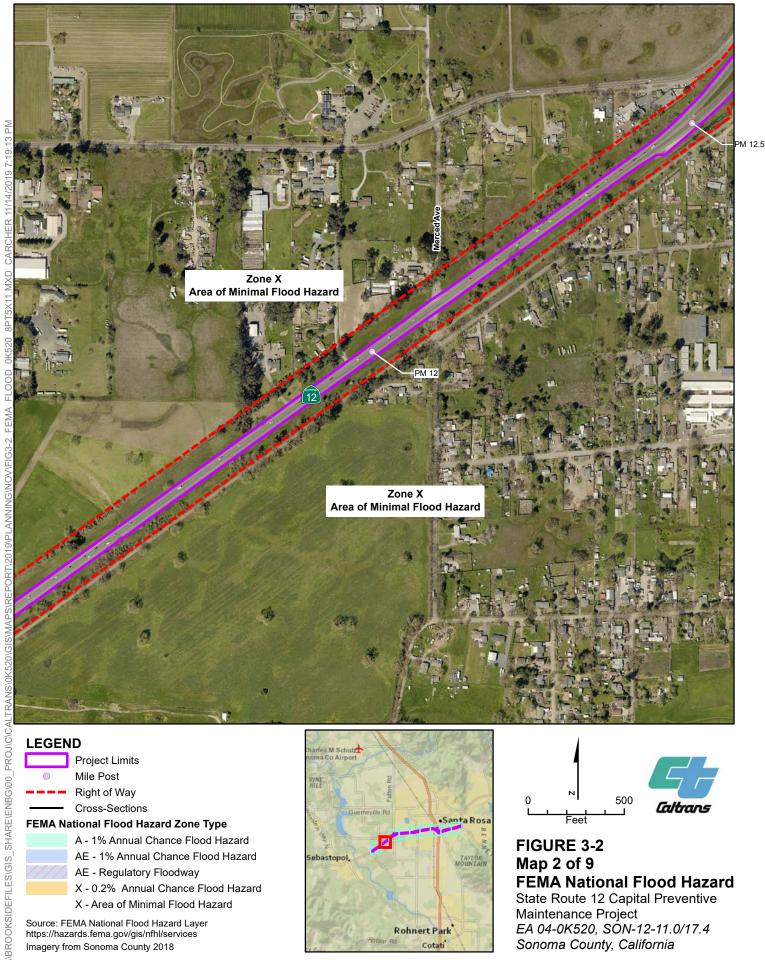


FIGURE 3-2 Map 1 of 9 **FEMA National Flood Hazard** State Route 12 Capital Preventive

Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4 Sonoma County, California





Project Limits Mile Post

Right of Way Cross-Sections

FEMA National Flood Hazard Zone Type

A - 1% Annual Chance Flood Hazard AE - 1% Annual Chance Flood Hazard

AE - Regulatory Floodway

X - 0.2% Annual Chance Flood Hazard

X - Area of Minimal Flood Hazard

Source: FEMA National Flood Hazard Layer https://hazards.fema.gov/gis/nfhl/services Imagery from Sonoma County 2018



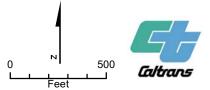
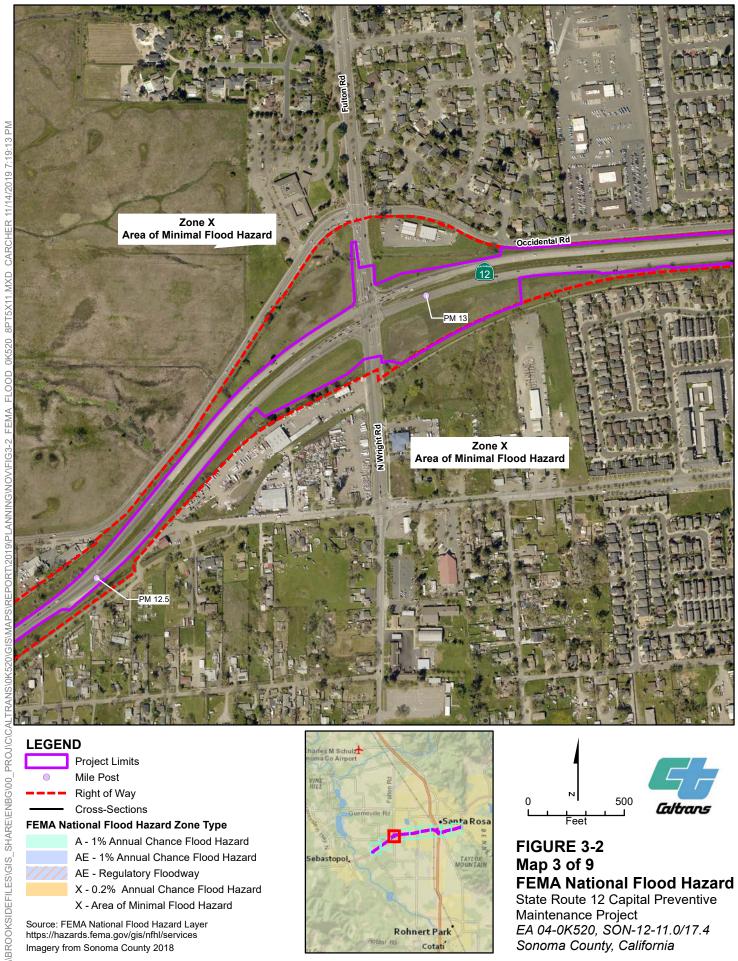


FIGURE 3-2 Map 2 of 9 **FEMA National Flood Hazard** State Route 12 Capital Preventive

Maintenance Project EA 04-0K520, SON-12-11.0/17.4 Sonoma County, California



Project Limits Mile Post

Right of Way Cross-Sections

FEMA National Flood Hazard Zone Type

A - 1% Annual Chance Flood Hazard AE - 1% Annual Chance Flood Hazard

AE - Regulatory Floodway

X - 0.2% Annual Chance Flood Hazard

X - Area of Minimal Flood Hazard

Source: FEMA National Flood Hazard Layer https://hazards.fema.gov/gis/nfhl/services Imagery from Sonoma County 2018



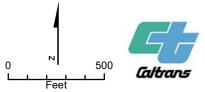
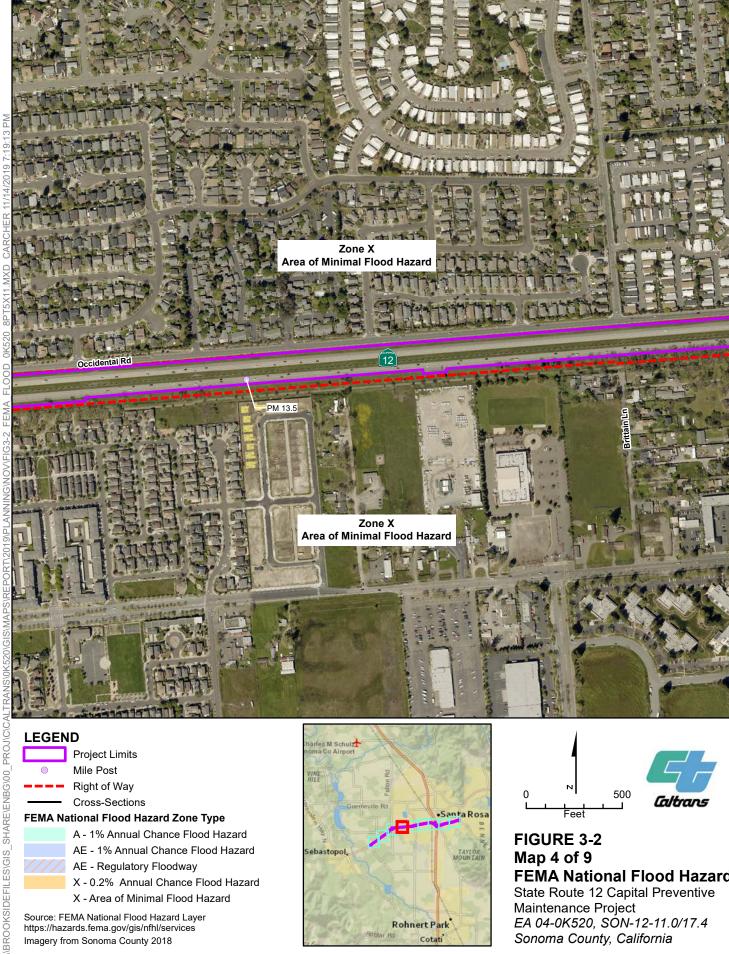


FIGURE 3-2 Map 3 of 9 **FEMA National Flood Hazard**

State Route 12 Capital Preventive Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4 Sonoma County, California



Project Limits Mile Post Right of Way

Cross-Sections

FEMA National Flood Hazard Zone Type

A - 1% Annual Chance Flood Hazard AE - 1% Annual Chance Flood Hazard

AE - Regulatory Floodway

X - 0.2% Annual Chance Flood Hazard

X - Area of Minimal Flood Hazard

Source: FEMA National Flood Hazard Layer https://hazards.fema.gov/gis/nfhl/services Imagery from Sonoma County 2018



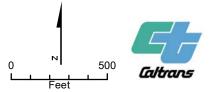
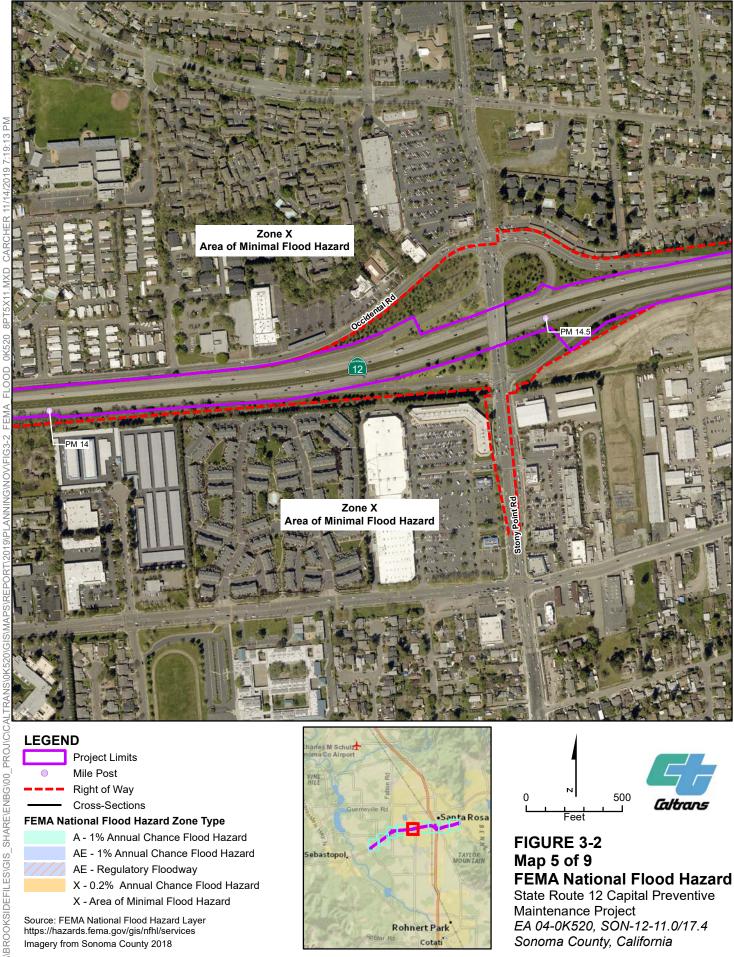


FIGURE 3-2 Map 4 of 9 **FEMA National Flood Hazard** State Route 12 Capital Preventive

Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4 Sonoma County, California



Project Limits Mile Post Right of Way

Cross-Sections

FEMA National Flood Hazard Zone Type

A - 1% Annual Chance Flood Hazard AE - 1% Annual Chance Flood Hazard

AE - Regulatory Floodway

X - 0.2% Annual Chance Flood Hazard

X - Area of Minimal Flood Hazard

Source: FEMA National Flood Hazard Layer https://hazards.fema.gov/gis/nfhl/services Imagery from Sonoma County 2018



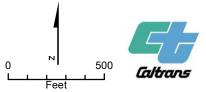
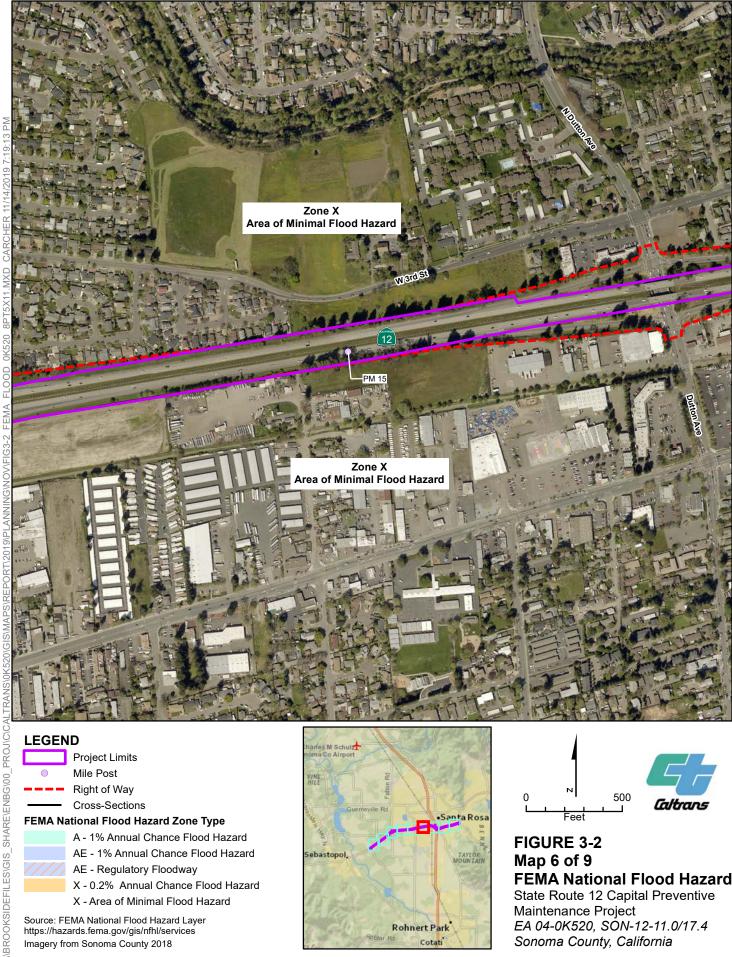


FIGURE 3-2 Map 5 of 9 **FEMA National Flood Hazard**

State Route 12 Capital Preventive Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4 Sonoma County, California





Project Limits Mile Post Right of Way

Cross-Sections

FEMA National Flood Hazard Zone Type

A - 1% Annual Chance Flood Hazard AE - 1% Annual Chance Flood Hazard

AE - Regulatory Floodway

X - 0.2% Annual Chance Flood Hazard

X - Area of Minimal Flood Hazard

Source: FEMA National Flood Hazard Layer https://hazards.fema.gov/gis/nfhl/services Imagery from Sonoma County 2018



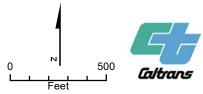
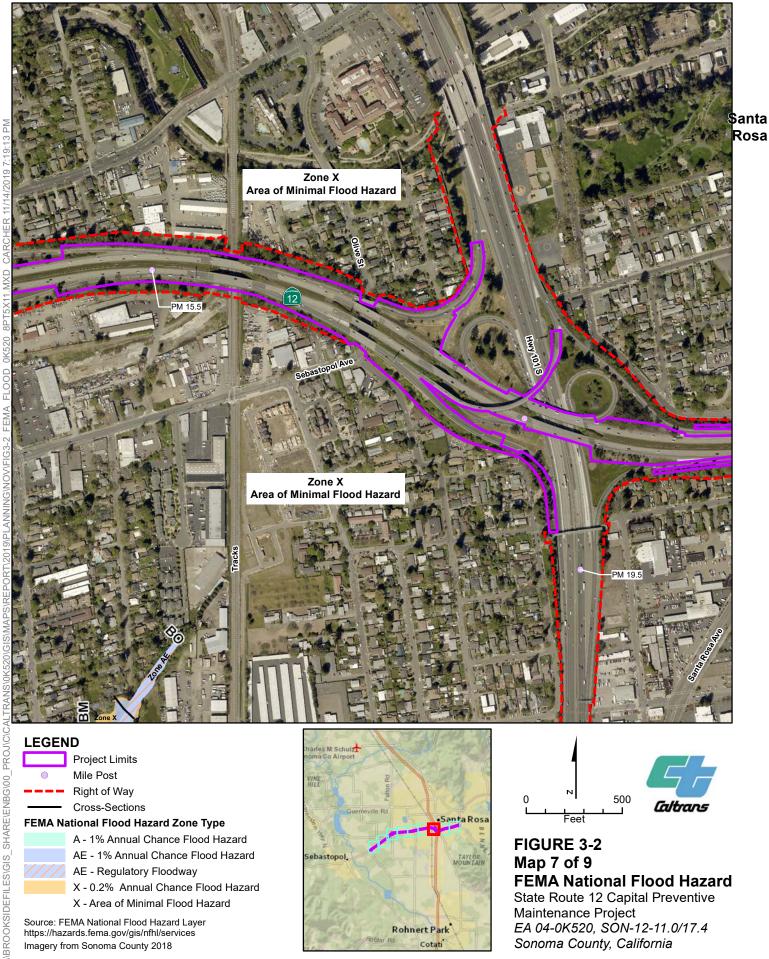


FIGURE 3-2 Map 6 of 9 **FEMA National Flood Hazard** State Route 12 Capital Preventive

Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4 Sonoma County, California



Project Limits Mile Post

Right of Way

Cross-Sections

FEMA National Flood Hazard Zone Type

A - 1% Annual Chance Flood Hazard

AE - 1% Annual Chance Flood Hazard

AE - Regulatory Floodway

X - 0.2% Annual Chance Flood Hazard

X - Area of Minimal Flood Hazard

Source: FEMA National Flood Hazard Layer https://hazards.fema.gov/gis/nfhl/services Imagery from Sonoma County 2018



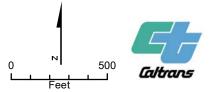
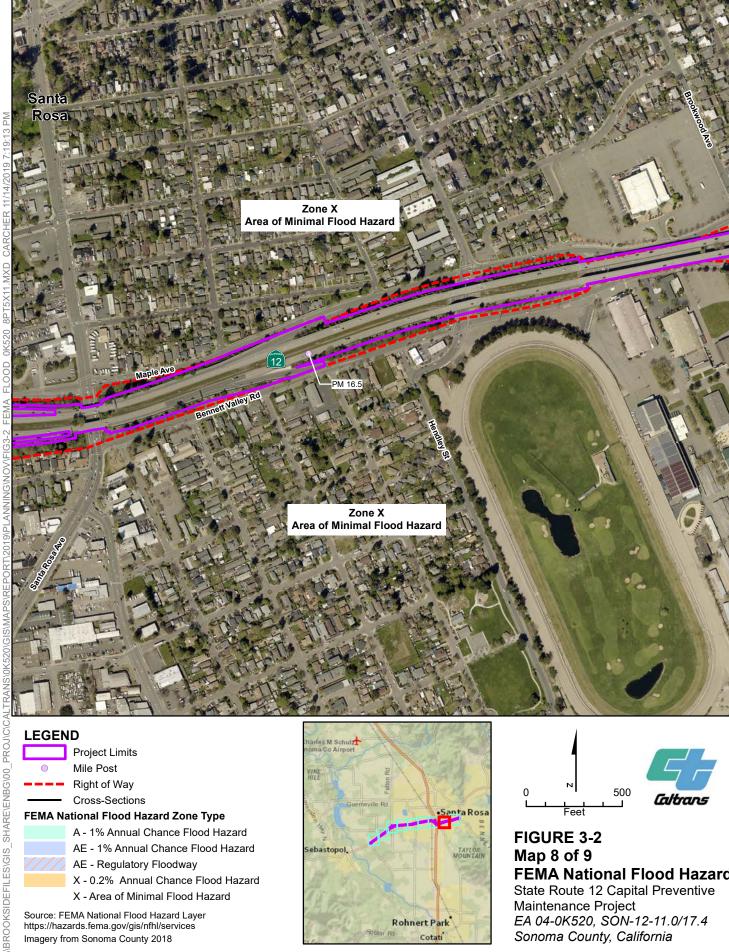


FIGURE 3-2 Map 7 of 9 **FEMA National Flood Hazard** State Route 12 Capital Preventive

Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4 Sonoma County, California





Project Limits Mile Post Right of Way

Cross-Sections

FEMA National Flood Hazard Zone Type A - 1% Annual Chance Flood Hazard

AE - 1% Annual Chance Flood Hazard

AE - Regulatory Floodway

X - 0.2% Annual Chance Flood Hazard

X - Area of Minimal Flood Hazard

Source: FEMA National Flood Hazard Layer https://hazards.fema.gov/gis/nfhl/services Imagery from Sonoma County 2018



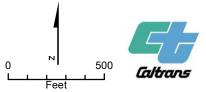
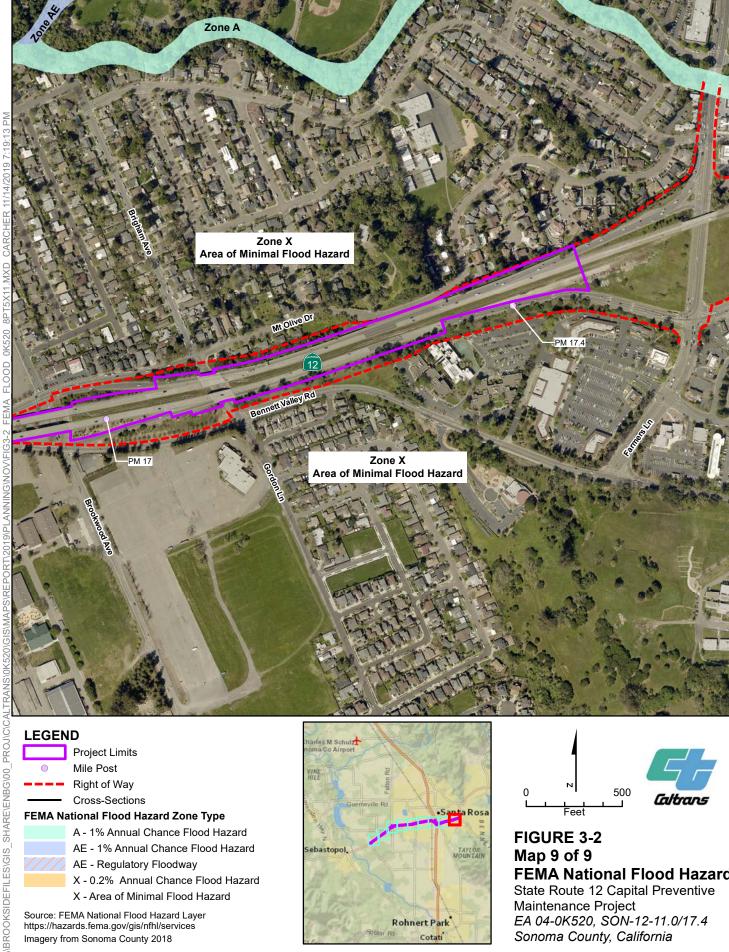


FIGURE 3-2 Map 8 of 9 **FEMA National Flood Hazard** State Route 12 Capital Preventive Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4

Sonoma County, California





Project Limits Mile Post Right of Way

Cross-Sections

FEMA National Flood Hazard Zone Type

A - 1% Annual Chance Flood Hazard AE - 1% Annual Chance Flood Hazard

AE - Regulatory Floodway

X - 0.2% Annual Chance Flood Hazard

X - Area of Minimal Flood Hazard

Source: FEMA National Flood Hazard Layer https://hazards.fema.gov/gis/nfhl/services Imagery from Sonoma County 2018



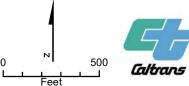


FIGURE 3-2 Map 9 of 9 **FEMA National Flood Hazard** State Route 12 Capital Preventive

Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4 Sonoma County, California

Land Use and Planning

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Physically divide an established community?				Х
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?				Х

The project limits consist of a regional transportation corridor within the Caltrans ROW bordered by mostly developed properties. The west end of the project corridor in unincorporated Sonoma County, west of Wright Road/Fulton Road (PM 11.0 to 13.0), is predominately rural in character with adjacent agricultural and rural residential uses. East of Wright Road/Fulton Road, within the City of Santa Rosa's Urban Growth Boundary (City of Santa Rosa 2019a), adjacent land use transitions to low- and medium-density residential, commercial, and mixed-use development.

a, b) No Impact

The Project would not physically divide an established community and would not conflict with any land use plan, policy, or regulation adopted to mitigate an environmental effect. The Project would not alter existing land uses along the highway corridor. No impact to land use or planning would occur.

Mineral Resources

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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?				×
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?				Х

a, b) No Impact

The Project does not occur in a known mineral resource zone (Miller and Busch 2013) and the Project does not propose activities that would disturb mineral resources, if present. The Project would have no impact to mineral resources.

Noise

Would the Project Result In:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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?		Х		
b) Generation of excessive groundborne vibration or groundborne noise levels?			Х	
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?				Х

A Construction Noise Analysis Memorandum was completed for the Project on August 9, 2019 (Caltrans 2019g). 23 CFR 772 provides procedures for preparing operational and construction noise studies and evaluating noise abatement considered for federal and federal-aid highway projects. Caltrans uses this same definition when evaluating state projects without federal funding. The Project was determined not to be a Type I project¹ per 23 CFR 772 because the Project would not increase highway

¹ Per the FHWA Noise Standard (23 CFR 772) the following are Type I Projects:

⁽¹⁾ The construction of a highway on new location; or,

⁽²⁾ The physical alteration of an existing highway where there is either:

⁽i) Substantial Horizontal Alteration. A project that halves the distance between the traffic noise source and the closest receptor between the existing condition to the future build condition; or,

⁽ii) Substantial Vertical Alteration. A project that removes shielding therefore exposing the line-of-sight between the receptor and the traffic noise source. This is done by either altering the vertical alignment of the highway or by altering the topography between the highway traffic noise source and the receptor; or,

⁽³⁾ The addition of a through-traffic lane(s). This includes the addition of a through-traffic lane that functions as a HOV lane, High-Occupancy Toll (HOT) lane, bus lane, or truck climbing lane; or,

⁽⁴⁾ The addition of an auxiliary lane, except for when the auxiliary lane is a turn lane; or,

⁽⁵⁾ The addition or relocation of interchange lanes or ramps added to a quadrant to complete an existing partial interchange; or,

⁽⁶⁾ Restriping existing pavement for the purpose of adding a through-traffic lane or an auxiliary lane; or,

⁽⁷⁾ The addition of a new or substantial alteration of a weigh station, rest stop, ride-share lot or toll plaza. (8) If a project is determined to be a Type I project under this definition then the entire project area as defined in the environmental document is a Type I project.

capacity or modify the horizontal or vertical alignment of the highway; therefore, a traffic noise study is not required and noise abatement need not be considered. Nevertheless, there are sensitive receptors (residential homes) located near areas where noisy construction activities may occur. The Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) was used to evaluate whether the Project may result in adverse temporary construction noise impacts to nearby residences.

The RCNM was used to estimate the noise levels during construction based on representative sound levels for the most common types of construction equipment and the estimated equipment usage factor. Vehicles and equipment likely to be used during each phase of construction were input into RCNM to estimate the maximum hourly noise level $(L_{max})^2$ and the average hourly noise level $(L_{eq})^2$ at receptor locations and at hypothetical non-specific locations at various distances. The model was run for each major construction phase/activity.

The Caltrans 2018 Standard Specifications 14-8.02 requires L_{max} not to exceed 86 dBA at 50 feet from the project limits from 9:00 p.m. to 6:00 a.m.

a) Less than Significant with Mitigation

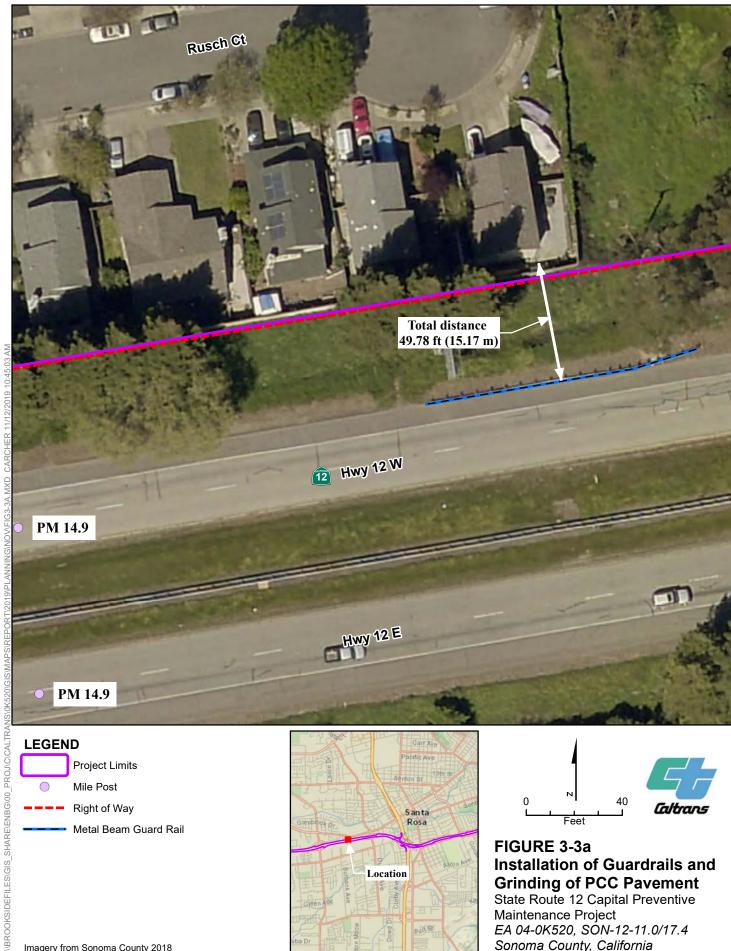
The Project would not generate substantial temporary or permanent increase in ambient noise levels in the vicinity of the project. The *Construction Noise Analysis Memorandum* (Caltrans 2019g) analysis determined that the noisiest operations would be the grinding of Portland cement concrete (PCC) pavement and removing approach slabs. Both of these activities would produce 95.7 dBA L_{max} at a distance of 50 feet.

Two sensitive receptors (residential homes) were identified in the vicinity of the project footprint. These sensitive receptors would perceive noise greater than 86 dBA L_{max} between 9:00 p.m. to 6:00 a.m. within 50 feet from the following project activities:

- Installation of MGS and Grinding of PCC Pavement (Figure 3-3a)
- Sawcutting and Removal of Type E Curbs (Figure 3-3b)

-

² Lmax is the highest instantaneous noise level during a specified time. Leq is the averaged level equivalent in energy to the time-varying noise levels during the same period.







Mile Post

--- Right of Way

Metal Beam Guard Rail



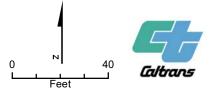
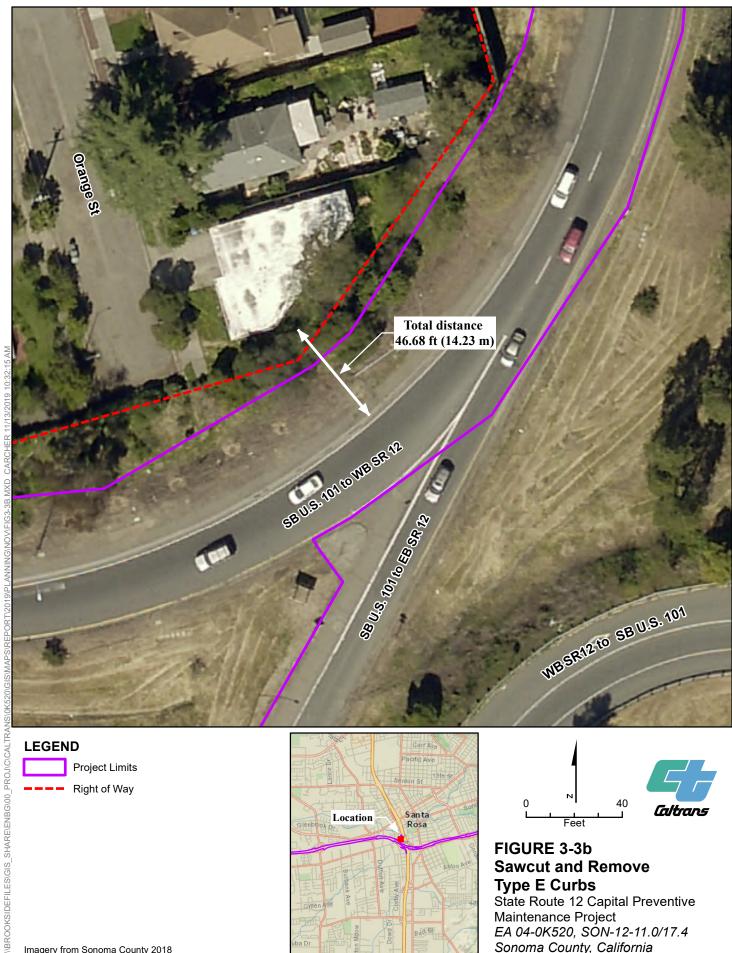


FIGURE 3-3a Installation of Guardrails and **Grinding of PCC Pavement**

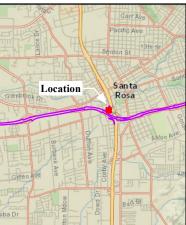
State Route 12 Capital Preventive Maintenance Project EA 04-0K520, SÓN-12-11.0/17.4 Sonoma County, California

Imagery from Sonoma County 2018









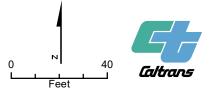


FIGURE 3-3b **Sawcut and Remove**

Type E Curbs
State Route 12 Capital Preventive
Maintenance Project
EA 04-0K520, SON-12-11.0/17.4 Sonoma County, California

Imagery from Sonoma County 2018

Construction noise associated with these activities would be experienced for short durations during the nighttime. As discussed in Section 2.1.6, Construction Activities, paving of SR 12 would occur at nighttime while most construction related activities would occur during the daytime. Construction paving activities would generate noise levels of 81.6 dBA at nighttime, less than the 86 dBA L_{max} for nighttime construction activities. Temporary nighttime noise would be reduced with the implementation of Mitigation Measure NOI-1, Temporary Noise Barriers, Project Features NOI-1 through NOI-34, as described in Table 2-1, and the AMMs NOI-1 through NOI45 described below. Therefore, construction-related noise impacts would be less than significant with mitigation.

b) Less than Significant

Construction activities would not generate excessive groundbourne vibration or groundborne noise levels. During construction, activities such as paving would generate vibration, however, these activities would not be excessive. Therefore, impact would be less than significant.

AVOIDANCE AND MINIMIZATION MEASURES FOR NOISE

AMM NOI-1: Sensitive Receptors. The Project would locate all stationary noisegenerating construction equipment as far as practical from noise-sensitive receptors or provide baffled housing or sound aprons to equipment when sensitive receptors adjoin or are near construction activities.

AMM NOI-2: Public Outreach. Public outreach would be required throughout the Project to update residents, businesses, and others subject to upcoming temporary noise impacts.

AMM NOI-3: Noise Reduction Best Management Practices.

- Mufflers. All internal combustion engine driven equipment would be equipped
 with manufacturer-recommended intake and exhaust mufflers that are in good
 condition and appropriate for the equipment.
- **Quiet Equipment.** The Project would utilize "quiet" air compressors and other "quiet" equipment where such technology exists.

AMM NOI-4: Noise Scheduling. The Project would schedule noisy operations within the same time frame. The total noise level would not be significantly greater than the level produced if operations are performed separately.

MITIGATION MEASURE FOR CONSTRUCTION NOISE

MM NOI-1: Temporary Noise Barriers. During construction, Caltrans or its contractor will install temporary noise barriers such as plywood panels between the sensitive receptors located within 50 feet of the construction activities to reduce construction noise to less than 86 dBA between 9 p.m. and 6 a.m.

Other options to reduce construction noise in the source-to-receiver noise paths using temporary enclosures such as sound curtains around stationary equipment will be reviewed and approved by Caltrans as appropriate.

c) No Impact

There are no airports or airstrips within the project vicinity. There would be no impact.

Population and Housing

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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)?				Х
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				x

a, b) No Impact

The proposed Project would not induce population growth because it does not increase the capacity of SR 12, remove barriers to future growth, or increase population or housing growth (or demand for new housing, utilities, or public services). The Project would not induce population growth, displace housing, or displace people. Therefore, there would be no impact to population and housing.

Public Services

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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?				X
Police protection?				Х
Schools?				Х
Parks?				Х
Other public facilities?				Х

a) No Impact

The proposed Project would not result in the substantial alteration of government facilities in the project limits, such as fire and police protection, schools, parks or other public facilities, nor trigger the need for new government facilities or alter the demand for public services. There would be no impact.

Recreation

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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?				×
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?				х

The Joe Rodota Trail runs adjacent to the project limits to the south and west of SR 12 (Figure 1-2). The closest recreational park is South Davis Park, which is located near shoulder and drainage improvements that are proposed along the southbound U.S. 101 connector to westbound SR 12. An existing masonry soundwall separates the park from the roadside work area. Other nearby parks include Julliard Park, the Burbank Playground, the Martin Luther King Jr. Park, and Olive Park.

a, b) No Impact

The Project would not directly or indirectly increase the demand of existing recreational facilities such that substantial deterioration of the facilities would occur. In addition, the Project would not require the construction of additional recreational facilities. There would be no impacts.

Transportation and Traffic

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			X	
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?			Х	
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				Х
d) Result in inadequate emergency access?			Х	

In the project corridor, SR 12 is a four-lane divided highway (two eastbound and two westbound lanes) from the western end of the Project to approximately 0.5 mile west of the Fulton Road intersection, where it narrows to a two-lane highway for the remainder of the project limits. The proposed Project would maintain all existing roadway features, including design speed, lane and shoulder width, curve radius, cross slope, superelevation rate, maximum grade, and sight distance. The Project would not increase vehicular capacity. The proposed Project would not permanently alter the circulation system and would have no permanent impact on vehicle miles traveled.

The proposed Project could cause short-term localized traffic congestion and delays due to lane and shoulder closures. Lane closures would occur throughout construction, primarily during the nighttime.

a) Less than Significant Impact

The proposed Project would not conflict with programs, plans, ordinances, or policies regarding the circulation system, public transit, bicycle, or pedestrian facilities. The Sonoma County General Plan Policy CT-6a identifies the need to address deficiencies, improve safety, and support ongoing maintenance, particularly on SR 12 (Sonoma County 2008). As described in Section 2.1, Purpose and Need, the purpose of the proposed Project is to comply with the Transportation Asset Management

policy which requires Caltrans assets such as curb ramps, electrical signals and curb ramps within the project limit to be up to standard.

There are daily bus services on SR 12 that are operated by Sonoma County Transit (routes 20 and 24) and the Mendocino Transit Authority (Route 95) (Sonoma County Transit 2019, Mendocino Transit Authority 2019). Transit routes operated by Santa Rosa CityBus do not utilize SR 12 in the project corridor (City of Santa Rosa 2019b).

To protect construction workers and the traveling public, traffic control would be in place while construction activities are underway. A detailed TMP would be developed during the design phase to provide a safe construction zone. Lane closures are anticipated for the work on the mainline and shoulders. Temporary pedestrian access would be provided during construction. As part of the TMP, Sonoma County Transit and the Mendocino Transit Authority would be notified prior to construction activities that involve lane closures to minimize service disruption. Impacts would be less than significant.

b) Less than Significant Impact

The Project would be consistent with CEQA Guidelines Section 15064.3, subdivision b. The Project would have no permanent impact on vehicle miles traveled as it is not increasing capacity. Under Section 15064.3, subdivision b, transportation projects that have no impact on vehicle miles traveled should be presumed to cause a less than significant transportation impact.

c) No Impact

The proposed Project does not include any design features or construction elements that would substantially increase hazards (e.g., sharp curves or dangerous intersections). There would be no impact.

d) Less than Significant Impact

With implementation of Project Feature TRA-1, as described in Table 2-1, medical and emergency vehicles would be able to continue to use routes in the local area to serve fire, medical, and law enforcement purposes. Flaggers would give priority to emergency vehicles. The impact would be less than significant.

Tribal Cultural Resources

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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				Х
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.				X

Caltrans initiated formal notification under Assembly Bill 52 with letters for each individual and/or organization on October 16, 2019. Follow up emails were sent on October 21, 2019. Individuals contacted include Patricia Hermosillo, Chairperson for the Cloverdale Rancheria of Pomo Indians; Chris Wright, Chairperson for the Dry Creek Rancheria Band of Pomo Indians; Greg Sarris, Chairperson of the Federated Indians of Graton Rancheria; Dino Franklin Jr., Chairperson for the Kashia Band of Pomo Indians of the Stewarts Point Rancheria; Marjorie Mejia, Chairperson for the Lytton Rancheria; Jose Simon III, Chairperson for the Middletown Rancheria; and Scott Gabaldon, Chairperson for the Mishewal-Wappo Tribe of Alexander Valley. No responses have been received at this time.

a, b) No Impact

Implementation of Project Features CUL-1 and CUL-2, as described in Table 2-1, would reduce the potential impacts to undiscovered tribal cultural resources associated with ground-disturbing activities during construction. The Project would have no impact on tribal cultural resources.

Utilities and Service Systems

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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?			X	
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				Х
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?				Х
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?				Х
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				Х

Utilities along the project corridor include overhead PG&E electric and AT&T telecommunication lines. Underground utility relocation may be necessary during construction at Fulton Road for ADA curb ramp work. Verification of utility locations and necessary relocations would be determined during the design phase in coordination with the utility provider.

a) Less than Significant Impact

The proposed Project would require relocation of underground utilities. Utility providers would be notified ahead of the construction activities to minimize utility service disruptions as outlined in Project Feature UTI-2 (Table 2-1). The impact would be less than significant.

b, c) No Impact

The proposed Project would not generate a demand for potable water supplies or demand services of a wastewater treatment provider. Therefore, there would be no impact.

d, e) No Impact

The proposed Project would not result in any substantial demands for solid waste disposal and would comply with federal, state, and local statutes regarding the disposal of solid waste. Implementation of Project Feature UTI-1, as described in Table 2-1, would require the proper disposal of construction trash. There would be no impact.

Wildfire

Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			x	
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?				Х
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?				Х
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?				Х

The Project is located within a Local Responsibility Area, with the Santa Rosa Fire Department, as well as volunteer fire companies operating through the Sonoma County Fire and Emergency Services Department providing fire suppression, rescue, and emergency services along the project corridor. The Project is outside of a State Responsibility Area (SRA) and is not within a high severity fire area (California Department of Forestry and Fire Protection 2007).

a) Less than Significant Impact

A Traffic Management Plan (see Table 2-1) would be developed during the design phase to identify traffic diversion/staging and alternative routes. Emergency response times are not anticipated to change during construction because the TMP would provide measures to ensure priority for emergency vehicles during one-way traffic control. The TMP would include coordination with Sonoma County Department of Emergency Management and provide instructions for response and evacuation in the event of an emergency such as a wildfire. In addition, the proposed Project would not

conflict with any other emergency response or evacuation plan. The impact would be less than significant.

b, c, d) No Impact

The Project proposes to resurface the existing pavement on SR 12, upgrade curb ramps to ADA standards, implement complete street improvements, and upgrade drainage structures at connector termini. It would not exacerbate wildfire risk, nor would it require the installation of associated infrastructure that would exacerbate fire risk. There would be no impact.

Mandatory Findings of Significance

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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?		X		
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)?			X	
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?		Х		

a) Less than Significant with Mitigation

The proposed Project would not 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, or substantially reduce the number of or restrict the range of a rare or endangered plant or animal. The proposed Project would have temporary construction impacts. The Project has the potential to significantly impact the California tiger salamander and its upland habitat during construction activities. With the implementation of the Project Features summarized in Table 2-1, the AMMs described in this chapter, and Mitigation Measure BIO-1, these potentially significant impacts would be reduced to less than significant with mitigation.

The Project would not eliminate important examples of the major periods of California history or prehistory. Project Features and AMMs would avoid or minimize potential impacts on biological, and cultural resources.

b) Less than Significant Impact

In analyzing the Project's cumulative environmental effects, the analysis proceeds as follows: (1) determine which resources would be significantly impacted by the Project; (2) determine whether there is a detrimental condition or deterioration in health of a resource within the context of impacts from past, present, and other reasonably foreseeable future actions; and (3) determine whether, collectively, the proposed Project and the foreseeable condition combine to result in a cumulative impact.

The proposed Project involves the rehabilitation of deteriorated pavements, drainage improvements, and upgrades of pedestrian curb ramps along a transportation corridor. The proposed Project would occur within the Caltrans ROW. The Project would not convert lands to a new or different use, increase roadway capacity, induce growth, or otherwise change land patterns and use. The proposed Project would not result in long-term adverse environmental effects and so would not contribute to cumulative environmental impacts. The analysis presented in this IS-MND identifies temporary construction-related impacts on aesthetics, air quality, biological resources, energy, geology/soils, greenhouse gas emissions, hazards/hazardous materials, hydrology/water quality, noise, transportation/traffic, utilities/service systems, and wildfire. Because the effects of the Project are construction-related, if other highway improvement projects along the SR 12 and U.S. 101 corridor occur within a similar timeframe, cumulative effects may occur (e.g., traffic management). However, Caltrans routinely coordinates with regional transportation managers and local agencies to minimize impacts in the region resulting from construction of multiple planned projects. The short duration and limited scope of the proposed Project would not contribute considerably to cumulative environmental impacts. Cumulative impacts to these resources would be reduced with the proper implementation of Project Features and AMMs. Therefore, the Project would have less than significant impacts.

c) Less than Significant with Mitigation

Residences and businesses are located throughout the project corridor. Intermittent night work would occur throughout the proposed Project; however, implementation of Mitigation Measures NOI-1, Temporary Noise Barriers, Project Features and AMMs would reduce temporary dust, noise, and traffic-related impacts. Therefore, environmental impacts to human beings from temporary construction-related activities would be less than significant with mitigation.

Chapter 4 List of Preparers

The primary persons responsible for contributing to, preparing, and reviewing this report are listed in Table 4-1.

Table 4-1 List of Preparers and Reviewers

Organization	Name	Role
Caltrans	Helen Blackmore	Senior Environmental Planner – Architectural History Branch
Caltrans	Robert Blizard	Branch Chief, Biology
Caltrans	Ramamohan Bommavaram	Project Manager
Caltrans	Douglas Bright	Associate Environmental Planner – Architectural Historian
Caltrans	Robert Camargo	District Program Advisor, Pavement Program
Caltrans	John Cardarelli	Branch Chief, Right of Way Engineering
Caltrans	Jayshree Chauhan	Associate Environmental Planner, Water Quality Permits
Caltrans	Sonam Choera	Project Engineer
Caltrans	Lindsay Hartman	Associate Environmental Planner – Archaeology
Caltrans	Tom Jiang	Transportation Engineer
Caltrans	Hanna Khoury	Branch Chief, Utility Engineering
Caltrans	Kevin Krewson	Branch Chief, Air Quality and Noise
Caltrans	Susan Lindsay	Branch Chief, Landscape Architecture
Caltrans	Arnica MacCarthy	Branch Chief, Office of Environmental Analysis
Caltrans	Kamran Nakhjiri	Branch Chief, Storm Water Design B
Caltrans	Diana Pink	Landscape Associate
Caltrans	Kathleen Reilly	District Branch Chief, Office of Hydraulic Engineering
Caltrans	Christopher Risden	Senior Engineering Geologist, Office of Geotechnical Design West
Caltrans	Kathryn Rose	Senior Environmental Planner – Archaeology Branch
Caltrans	Ronald Sangalang	Branch Chief, Design North Counties
Caltrans	Hardeep Takhar	Water Quality Program Manager
Caltrans	Brian Villamor	Environmental Engineer

Table 4-1 List of Preparers and Reviewers

Organization	Name	Role
Caltrans	Christopher Wilson	District Branch Chief, Hazardous Waste
Caltrans	Jerry Zhong	Branch Chief, Right of Way Engineering
CH2M HILL	Chris Archer	GIS Analyst
CH2M HILL	Holly Barbare	Biologist
CH2M HILL	Bryan Bell	Senior Technical Editor
CH2M HILL	Rebecca Birtley	GIS Analyst
CH2M HILL	Karen Dolan	GIS Analyst
CH2M HILL	Clarice Ericsson	Publications Technician
CH2M HILL	Natalie Escoffier	Environmental Planner
CH2M HILL	Lynne Hosley	Senior Project Manager
CH2M HILL	Jasmin Mejia	Senior Environmental Planner/Project Manager
CH2M HILL	Loretta Meyer	Senior Environmental Planner
CH2M HILL	Sam Schoevaars	Environmental Planner
Area West Environmental, Inc.	Aimee Dour-Smith	Senior Project Manager
Area West Environmental, Inc.	Corinne Munger	Environmental Planner
Area West Environmental, Inc.	Becky Rozomowicz- Kodsuntie	Senior Biologist

Chapter 5 Distribution List

The IS-MND will be circulated on January 3, 2020 to the following agencies and government officials:

Agencies

Federal Agencies

Mr. John Cleckler, Caltrans District 4 Liaison United States Fish and Wildlife 2800 Cottage Way, Suite W-2605 Sacramento, CA 95825

State Agencies

Mr. Gregg Erickson, Regional Manager California Department of Fish and Wildlife, Region 3 2825 Cordelia Road, Suite 100 Fairfield, CA 94534

Ms. Fran Inman, Chair California Transportation Commission 1120 N Street, MS 52 Sacramento, CA 95814

Elected Officials

Federal Officials United States Senate

The Honorable Dianne Feinstein United States Senate One Post Street, Suite 2450 San Francisco, CA 94104 The Honorable Kamala Harris United States Senate 333 Bush Street, Suite 3225 San Francisco, CA 94104

UNITED STATES HOUSE OF REPRESENTATIVES

The Honorable Mike Thompson United States House of Representatives 2300 Count Center Drive, Suite A-100 Santa Rosa, CA 95403

State Officials

CALIFORNIA STATE SENATE

The Honorable Mike Wood California State Senate, District 2 50 D Street, Suite 120A Santa Rosa, CA 95404

CALIFORNIA STATE ASSEMBLY

The Honorable Jim Wood California State Assembly, District 2 50 D Street, Suite 450 Santa Rosa, CA 95404

County Officials

SONOMA COUNTY BOARD OF SUPERVISORS

The Honorable Susan Gorin Sonoma County Board of Supervisors, District 1 575 Administration Drive, Room 100-A Santa Rosa, CA 95403

The Honorable David Rabbitt
Sonoma County Board of Supervisors,
District 2
575 Administration Drive, Room
100-A
Santa Rosa, CA 95403

The Honorable Shirlee Zane Sonoma County Board of Supervisors, District 3 575 Administration Drive, Room 100-A Santa Rosa, CA 95403

The Honorable James Gore Sonoma County Board of Supervisors, District 4 575 Administration Drive, Room 100 A Santa Rosa, CA 95403

The Honorable Lynda Hopkins Sonoma County Board of Supervisors, District 5 575 Administration Drive, Room 100-A Santa Rosa, CA 95403

City Officials

CITY OF SEBASTOPOL

Ms. Neysa Hinton, Mayor City of Sebastopol 7120 Bodega Avenue Sebastopol, CA 95472

CITY OF SANTA ROSA

Mr. Tom Schwedhelm, Mayor City of Santa Rosa 100 Santa Rosa Avenue, Room 10 Santa Rosa, CA 95404

Appendix A Title VI Policy Statement

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



Making Conservation a California Way of Life.

April 2018

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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.

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 14th Street, MS-79, Sacramento, CA 95811. Telephone (916) 324-8379, TTY 711, email Title.VI@dot.ca.gov, or visit the website www.dot.ca.gov.

LAURIE BERMAN

Director

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

Appendix B Environmental Commitments Record

(PS&E)) phase.

SON-012-11.000/17.400

Current Project Phase: 0

EP: Natalie Escoffier

CL:

RE:

				Pe	rmits					
Permit	Agency			Date Submitted	Date Received	Expiration	Requireme Name	ents Completed Date		Comments
2080.1 - Consistency Determination	California Department of Fish	& Wildlife								
BO (FWS)	US Fish and Wildlife									
Commitments Commitments										
Task and Brid	ef Description	Source	SSP/ NSSP	Responsi Staff	ble	Action to Co	mply	Task Comp Name	leted Date	Remarks/Due Date
PS&E/Before RTL										
Biological Resource – A	nimal and Plant Species									
AMM: BIO-1: Pre-construction Detailed protocol-level floristic at the appropriate time of year for all locations of suitable hab a special-status plant is detect would be adjusted to avoid imp	surveys would be conducted prior to the start of the Project itat within the project limits. If ed, the project limits boundary	NES	NSSP	CT biologis	the pro status approj constr would specie	piologist would bject limits for plant species priate season uction. Project be revised to se impacts if se species are for	special in the prior to t limits avoid pecial			
Biological Resources –	Invasive Species									
PF BIO-10: Landscaping and I landscaping and erosion contr restore disturbed areas with cl	ol plan would be prepared to	SSP	SSP	Landscape architecture associate	associ	dscape archite ate would pre n control plan	pare a			
Hazards and Hazardous	s Materials									
PF HAZ-1: Aerially Deposited for aerially deposited lead if re during the design (Plans, Spec	quired would be prepared	SSP	SSP	CT Hazardo Waste Specialist a	Work	rially Deposite Plan would be the PS&E ph	prepared			

RΈ

SON-012-11.000/17.400

Current Project Phase: 0

EP: Natalie Escoffier

CL:

J					KE:		
Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Compl Name	eted Date	Remarks/Due Date
Transportation and Traffic							
PF TRA-1: Traffic Management Plan (TMP). A TMP would be developed by Caltrans with input from the local community. The TMP would include elements such as haul routes, one-way traffic controls to minimize speeds and congestion, flag workers, and phasing, to reduce impacts to local residents as feasible and maintain access for police, fire, and medical services in the local area. Temporary pedestrian access would be provided during construction.	SSP	SSP	CT traffic management staff, contractor and RE	CT traffic management staff would develop a TMP to reduce traffic impacts during construction.			
Pre-Construction							
Biological Resource – Animal and Plant Species							
AMM BIO-2: Pre-construction Burrow Surveys. Pre-construction surveys for small mammal burrows would be conducted prior to the initiation of covered activities in areas shown on the SRPCS maps as "potential for presence of CTS" and occurring within 1.3 miles of CTS breeding pools. If burrows are detected, they would be avoided to the maximum degree possible.	NES	NSSP	CT biologist, RE and Contractor	A CT biologist would conduct pre-construction surveys for CTS burrows prior to construction. Burrows would be avoided to the maximum extent through the RE and Contractor.			
Biological Resources – Animal and Plant Specie	s						
PF BIO-4: Worker Environmental Awareness Training. All construction personnel would attend a mandatory environmental education program, to be delivered by an agency-approved biologist, prior to beginning construction, or prior to beginning work on the Project. This program would provide information on special-status species and the employees' personal responsibility in avoiding impacts to species during construction. At a minimum, the training would include: a description of CTS and migratory birds and their habitats; a discussion of the potential occurrence of these species within the project limits; an explanation of the status of these species and protection under FESA and CESA; the description of measures to be implemented to conserve listed species and their habitats as they relate to the work site. Information would be provided on protected species to construction personnel, along with compliance reminders and relevant contact information. Documentation of the training and sign-in sheets would be kept on file and available on request.	SSP	SSP	Agency approved biologist, and contractor	The agency approved biologist would provide training to the contractor on special status species. Documentation of the training and sign-in sheet would be available upon request.			
PF BIO-5: Pre-construction Surveys and Biological	SSP	SSP	Agency	The agency approved biologist			

SON-012-11.000/17.400

Current Project Phase: 0

EP: Natalie Escoffier

CL:

Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Comp Name	leted Date	Remarks/Due Date
Monitoring. An agency-approved biologist would conduct pre-construction surveys for special-status species. The biologist would be present during construction activities, including establishment of ESAs, vegetation clearing and grubbing, ground disturbance, and other work activities when special-status species may be harmed or harassed. If at any point, any listed species is discovered within the project limits, a 50-foot-wide work restriction buffer would be applied until the animal moves out of the area or the animal is relocated out of harm's way; the regulatory agency(ies) would be notified.			approved biologist, and contractor	would conduct pre-construction surveys for special-status species and be present when activities that may harm or harass special-status species occur. If a listed species is discovered within the project limits, a 50-foot-wide work restriction buffer would be applied until the animal moves out of the area or the animal is relocated, in which regulatory agencies must be notified.			
PF BIO-6: Pre-construction Surveys for Nesting Birds. Bird Protection Special Provision would be included in the construction contract. A preconstruction survey for migratory birds and raptors would be required within fourteen (14) days prior to construction if construction activities occur within migratory bird nesting season (February 1 through September 30) and subsequent surveys would be required every three days throughout the nesting season. If migratory birds or raptors are found nesting adjacent to a work area during construction activities, the following ESA buffers would be required: If an active raptor nest is observed, a 300-foot ESA buffer must be implemented to avoid impacting the young until they have fledged; a 50-foot ESA buffer around any active nests of non-raptor migratory birds is required to protect the young until they have fledged, or as otherwise determined by the agency-approved biologist.	SSP	SSP	Agency approved biologist, and contractor	The agency approved biologist would conduct pre-construction for migratory birds and raptors within 14 days prior to construction, and may require subsequent surveys every 3 days if construction occurs between February 1st to September 30th. If raptors or birds are discovered, ESA buffers of 300 feet for an active raptor nest and 50 feet for a non-raptor migratory bird would be applied. Special provisions for bird protection would be in the construction contract.			

SON-012-11.000/17.400

Current Project Phase: 0

EP: Natalie Escoffier

CL:

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Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Comp Name	leted Date	Remarks/Due Date
Biological Resources - Natural Communities							
PF BIO-1: Designated Construction Areas, Delineated ESAs, Work Areas, and Equipment and Materials Storage Sites. Caltrans would delineate construction areas and ESAs areas containing sensitive habitats adjacent to or within the project limits for which physical disturbance is not allowed) on the final construction plans. The agency-approved piologist would be onsite to direct the installation of ESA encing, flagging, or other approved means of delineation prior to the start of construction, to prevent encroachment of personnel and equipment into sensitive areas during construction. When feasible staging, storage, and parking areas would be located on paved or graveled surfaces within the Caltrans ROW and away from any designated ESAs, to minimize construction impacts to protected resources. Equipment and materials storage sites would also be located as far away from residential uses as practicable. At the discretion of the agency-approved biologist, limits would also be defined near other environmentally sensitive locations, such as bird nests, when necessary. The ESA fencing, lagging, or other material would be removed when construction activities are complete in the immediate vicinity.		SSP	Agency approved biologist and Contractor	The agency approved biologist would delineate protected habitat with ESA fencing. The contractor would ensure that construction activities and/or equipment would not encroach on ESA areas and maintain fencing until construction activities are completed in the area.			
PF BIO-2: Wildlife Exclusion Fencing. Before starting construction, Wildlife Exclusion Fencing (WEF) would be installed around staging areas located within 1.3 miles of CTS breeding pools, as mapped by the SRPCS. The WEF would remain in place throughout the duration of the Project elated activities at the staging area, which is expected to be one to two weeks for a given location. The final plans would lepict all locations where WEF would be installed and indicate how it would be installed. The special provisions in the bid solicitation package would clearly describe acceptable fencing material. The WEF would be removed at the end of construction.	SSP	SSP	Contractor, and CT Biologist	The contractor would install WEF fencing according to final plans and maintain fencing in place until the end of construction.			
Biological Resources – T and E Species							
PF BIO-16: No Monofilament Netting. Plastic monofilament netting (erosion control matting) or similar material would not be used because wildlife may become entangled or trapped in it. Acceptable substitutes include coconut coir matting or ackifier hydroseeding compounds.	SSP	SSP	Contractor and RE	The contractor would avoid using monofilament netting for erosion control.			

SON-012-11.000/17.400

Current Project Phase: 0

designated staging areas and as appropriate on sloped areas in accordance with the Caltrans BMP Guidance

Handbook.

EP: Natalie Escoffier

CL:

Current Project Phase: 0					RE:		
Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Com Name	pleted Date	Remarks/Due Date
Hydrology and Water Quality							
PF HYD-1: Stormwater Pollution Prevention Plan (SWPPP). A SWPPP would be developed and erosion control best management practices (BMPs) would be implemented in compliance with the requirements of the North Coast Regional Water Quality Control Board (RWQCB). SWPPP must be prepared by the Contractor and approved by Caltrans, pursuant to Caltrans 2018 Standard Specification 13-3. Protective measures would include, at a minimum: a. Disallowing any discharging of pollutants from vehicle and equipment cleaning into any storm drains or watercourses. b. All grindings and asphaltic-concrete waste would be stored within previously disturbed areas absent of habitat and at a minimum of 50 feet from any downstream riparian habitat, aquatic habitat, culvert, or drainage feature. c. Dedicated fueling and refueling practices would be designated as part of the approved SWPPP. Dedicated fueling areas would be protected from stormwater run-on and would be located at least 50 feet from downslope drainage facilities and water courses. d. Fueling must be performed on level-grade areas. Onsite fueling would only be used when and where it is impractical to send vehicles and equipment offsite for fueling. When fueling must occur onsite, the contractor would designate an area to be used subject to the approval of the Caltrans Resident Engineer. Drip pans or absorbent pads would be used during onsite vehicle and equipment fueling. e. Spill containment kits would be maintained onsite a all times during construction operations and/or staging or fueling of equipment. f. Dust control measures consistent with Air Quality Project Features would be implemented. Dust control would be addressed during the environmental education session. g. Coir logs or straw wattles would be installed in accordance with the Caltrans BMP Guidance Handbook, to capture sediment. h. Graded areas would be protected from erosion using a combination of silt fences, erosion control netting (such as jute or coir), and fiber rolls along edges of		SSP	Contractor	The Contractor would prepare a SWPPP to be approved by CT prior to construction.			

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Title 13, Section 2485 of California Code of Regulations). Clear signage would be provided for construction workers at all access points. Construction activities involving the extended idling of diesel equipment or vehicles would be

prohibited, to the extent feasible.

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Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Com Name	pleted Date	Remarks/Due Date
 The Contractor is responsible for securing locations for staging and storage, as approved by the Resident Engineer. 							
Utilities and Service Systems							
PF UTI-2: Notify Utility Owners of Construction Schedule to Protect Utilities. All affected utility companies, including PG&E and AT&T, would be notified of construction schedules for proposed project work so that they can relocate cable or provide special instructions for cable protection if needed, and minimize disruption of utility service.	SSP	SSP	RE	The RE would notify affected utility companies of the construction schedule to minimize disruption of utility service.			
Construction							
Air Quality							
PF AIR-1: Dust Control. A dust control measure would be included in the Storm Water Pollution Prevention Plan (SWPPP) and implemented to minimize construction impacts to existing communities. The plan would incorporate measures such as sprinkling, speed limits, transport of materials, and timely revegetation of disturbed areas as needed, as well as posting a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints and at the Bay Area Air Quality Management District (BAAQMD) regarding compliance with applicable regulations. Water or dust palliative would be applied to the site and equipment as often as necessary to control fugitive dust emissions. Fugitive emissions generally must meet a "no visible dust" criterion either at the point of emissions or at the ROW line, depending on air pollution control district and air quality management district regulations and local ordinances.	SSP	SSP	Contractor	The contractor would deploy dust control measures in compliance with BAAQMD regulations.			
PF AIR-2: Idling and Access Points. Idling times would be minimized either by shutting off equipment when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure	SSP	SSP	Contractor	The contractor would reduce idling time of equipment to 5 minutes or turn off equipment when not in use.			

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Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Comp Name	oleted Date	Remarks/Due Date
PF AIR-3: Maintaining Construction Equipment and Vehicles. All construction equipment and vehicles would be maintained and properly tuned in accordance with manufacturer's specifications. All equipment would be checked by a certified mechanic and determined to be running in proper condition prior to operation.	SSP	SSP	Contractor	The contractor would ensure maintenance of equipment according to manufacturer specifications.			
PF AIR-4: Contractor Air Quality Compliance. The construction contractor must comply with the Caltrans Standard Specifications in Section 14-9, which require contractor compliance with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances.	SSP	SSP	Contractor	The contractor must comply with Caltrans Standard Specifications in Section 14-9.			
Cultural Resources							
PF CUL-1: Discovery of Cultural Resources. If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery area would be diverted until a Caltrans qualified archaeologist can assess the nature and significance of the find.	SSP	SSP	CT qualified archaeologist, RE, and Contractor	The contractor would cease construction activities if cultural materials are discovered. The RE and Contractor would cease all project activities until a Caltrans qualified archaeologist accesses the find.			
PF CUL-2: Discovery of Human Remains. If remains are discovered during excavation, all work within 60 feet of the discovery would halt and Caltrans' Cultural Resource Studies office would be called. Caltrans' Cultural Resources Studies Office Staff would assess the remains and, if determined human, would contact the County Coroner as per Public Resources Code (PRC) Sections 5097.98, 5097.99, and 7050.5 of the California Health and Safety Code. If the Coroner determines the remains to be Native American, the Coroner would contact the Native American Heritage Commission who would then assign and notify a Most Likely Descendant. Caltrans would consult with the Most Likely Descendant on respectful treatment and reburial of the remains. Further provisions of PRC 5097.98 are to be followed as applicable.	SSP	SSP	CT OCR Staff, RE, and Contractor	The contractor would cease construction activities within 60 feet of human remains discovered. The RE or Contractor would contact CT OCR. An OCR staff would access the remains, and if determined to be human would contact the County Coroner.			

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Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Completed Name Date	Remarks/Due Date
Noise						
AMM NOI-1: Sensitive Receptors. The Project would locate all stationary noise-generating construction equipment as far as practical from noise-sensitive receptors or provide baffled nousing or sound aprons to equipment when sensitive receptors adjoin or are near construction activities.	Noise Study	NSSP	Contractor	The contractor would locate stationary noise-generating equipment as far as practicable from sensitive receptors.		
AMM NOI-2: Public Outreach. Public outreach would be equired throughout the Project to update residents, businesses, and others subject to upcoming temporary noise mpacts.	Noise Study	NSSP	CT Public Information Officer	A CT Public Information Officer would conduct public outreach to inform the community on temporary noise impacts.		
AMM NOI-3: Noise Reduction Best Management Practices. Mufflers. All internal combustion engine driven equipment would be equipped with manufacturer-recommended intake and exhaust mufflers hat are in good condition and appropriate for the equipment. Quiet Equipment. The Project would utilize "quiet" air compressors and other "quiet" equipment where such echnology exists.	Noise Study	NSSP	Contractor	The contractor would utilize mufflers and quiet equipment when available.		
AMM NOI-4: Noise Scheduling. The Project would schedule noisy operations within the same time frame. The total noise evel would not be significantly greater than the level produced if operations are performed separately.		NSSP	Contractor	The Contractor would schedule noisy operations within the same time frame.		
MM NOI-1: Temporary Noise Barriers. During construction, Caltrans or its contractor will install temporary noise barriers such as plywood panels between the sensitive receptors ocated within 50 feet of the construction activities to reduce construction noise to less than 86 dBA between 9 p.m. and 6 m.m. Other options to reduce construction noise in the cource-to-receiver noise paths using temporary enclosures such as sound curtains around stationary equipment will be eviewed and approved by Caltrans as appropriate.	Env Doc	NSSP	Contractor	The Contractor will install temporary noise barriers between sensitive receptors located within 50 feet of the construction activities to reduce construction noise to less than 86 dBA between 9 p.m. and 6 a.m.		
PF NOI-1: Idling of Internal Combustion Engines. Junecessary idling of internal combustion engines would be avoided within 100 feet of sensitive receptors.	SSP	SSP	Contractor	The Contractor would avoid idling of internal combustion engines within 100 feet of sensitive receptors.		
PF NOI-2: Maintaining Internal Combustion Engines. All nternal combustion engines would be maintained properly to	SSP	SSP	Contractor	The contractor would properly maintain combustion engines		

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Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Compl Name	eted Date	Remarks/Due Date
minimize noise generation.				to minimize noise.			
PF NOI-3: Equipment Deliveries. No construction equipment would be delivered and dropped off before 6:00 a.m.	SSP	SSP	Contractor	The contractor would schedule equipment drop offs no earlier than 6:00 am.			
Aesthetics							
AMM AES-1: Replace Removed Trees. During construction, work would result in the removal of existing trees. Caltrans or its contractor, at the direction of Caltrans, would replace all removed trees within the project limits to the extent feasible before operation of the Project. Landscape trees removed would be replanted where feasible. Irrigation damaged and/or removed as a result of the Project would require repair/replacement as part of the Project.	SSP	SSP	Contractor	Caltrans or its contractor would replace all removed trees and replant landscaped trees, to the extent feasible. The contractor would repair/replace damaged and/or removed irrigation.			
PF AES-1: Vegetation Protection. Existing trees and vegetation would be preserved to the extent feasible, aside from landscape trees already determined to be removed. Trees and vegetation outside of clearing and grubbing limits would be protected from the contractor's operations, equipment, and materials storage. Tree trimming and pruning, where required, would be under the direction of a qualified biologist.	SSP	SSP	Contactor, CT Biologist	The contractor would avoid damage to trees and vegetation to the extent feasible where impacts were not predetermined. Tree trimming and pruning would be directed by the CT biologist.			
PF AES-2: Erosion Control. After construction, all areas cleared within the project limits for uses such as contractor access, staging and trenching operations	SSP	SSP	Contractor	The contractor would implement erosion control measures to needed areas post construction.			
PF AES-3: Construction Staging. Except as detailed in the Contract Plans, staging areas would not affect existing landscaped areas resulting in death and/or removal of trees, shrubs and groundcover, or disruption and destruction of existing irrigation facilities.	SSP	SSP	Contractor	The contractor would avoid impacts to landscaped areas and irrigation as feasible.			
PF AES-4: Construction Waste. During construction operations unsightly material and equipment in staging areas would be placed where they are less visible and/or covered where possible.	SSP	SSP	Contractor	The contractor would avoid having unsightly materials in high visible areas or may cover materials as feasible.			
PF AES-5: Construction Lighting. Construction activities would limit all construction lighting to within the immediate vicinity of active work during daytime and night hours and avoid light trespass through directional lighting, shielding, and other measures as needed. This would reduce and	SSP	SSP	Contractor	The contractor would limit lighting to the activities needed and avoid excess lighting to residences or travelers.			
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Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Com _l Name	pleted Date	Remarks/Due Date
avoid light impacts on travelers, nearby residences, and nearby recreational facility users.							
Biological Resource – T and E Species							
MM BIO-1: CTS. Areas mapped in the SRPCS (USFWS 2005 or current update) as "potential for presence of CTS" and occurring within 1.3 miles of CTS breeding pools would be avoided in accordance with AMM BIO-2. If potential CTS habitat cannot be avoided, then impacts to CTS upland habitat with small mammal burrows would will be mitigated at a ratio of 2:1, in accordance with the SRPCS. Mitigation would will be provided by purchase of conservation credits from a USFWS and CDFW approved conservation bank.	NES	NSSP	CT biologist, RE and Contractor	During construction if CTS burrow impacts cannot be avoided then mitigation at a ratio of 2:1 will be required, in accordance with SRPCS. The CT biologist will consult with USFWS and CDFW to purchase conservation credits at an approved mitigation bank.			
Biological Resources – Animal and Plant Specie	s						
PF BIO-7: Biologist Authority to Stop Construction. The agency-approved biologist would stop work, as directed by the RE, in the vicinity of any protected species that are discovered. Work would not begin again until the individual species is either relocated by the monitor or moves out of harm's way by itself.	SSP	SSP	Agency approved biologist, RE, and contractor	The agency approved biologist, in coordination with the RE may cease construction activities that occur in the vicinity of a protected species. Construction may resume once the species is relocated or moves out of the vicinity.			
PF BIO-8: Avoidance of Entrapment. To prevent inadvertent entrapment of animals during construction, excavated, steep-walled holes or trenches more than 1 foot deep would be covered at the close of each working day using plywood or similar materials, or provided with one or more escape ramps constructed of earth fill or wooden planks. Before such holes or trenches are filled, they must be thoroughly inspected for trapped animals. Pipes, culverts, or similar structures stored in the project limits overnight would be inspected before they are subsequently moved, capped, and/or buried.	SSP	SSP	Contractor	The contractor would cover or provide escape ramps for animals for holes deeper than 1 foot at the end of each working day. Before holes are filled, they must be inspected for trapped animals. Pipes, culvert and similar structures stored onsite must be inspected prior to being moved, capped or buried.			
PF BIO-9: Construction Site Management Practices. The following site restrictions would be implemented to avoid or minimize potential effects on listed species and their habitats: a. Enforce a speed limit of 15 mph on unpaved areas within the project limits to reduce dust and soil disturbance.	SSP	SSP	Contractor	The contractor would implement site best management practices to avoid impacts to listed species and their habitats.			

SSP

SSP

Contractor

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PF BIO-12: Reduce Spread of Invasive Species. Noxious

weeds would be controlled within the project construction

site in accordance with Caltrans' Highway Design Manual

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Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Completed Name Date	Remarks/Due Date
b. Locate construction access, staging, storage, and parking areas within Caltrans ROW outside any designated ESAs. Access routes, staging and storage areas, and contractor parking would be limited to the minimum necessary to construct the proposed Project. Routes and boundaries of roadwork would be clearly marked before initiating construction or grading. c. Certify, to the maximum extent practicable, borrow material is non-toxic and weed free. d. Enclose food and food-related trash items in sealed trash containers and remove them from the site at the end of each day. e. Prohibit pets from entering the project limits during construction. f. Prohibit firearms within the project limits, except for those carried by authorized security personnel or local, state, or federal law enforcement officials. g. Maintain equipment to prevent the leakage of vehicle fluids, such as gasoline, oils, or solvents and developing a spill response plan. Hazardous materials, such as fuels, oils, and solvents, would be stored in sealable containers in a designated location that is at least 200 feet from aquatic habitats.						
Biological Resources – Animal and Plant Species	s					
PF BIO-3: Construction Work Windows. Construction work windows would be incorporated into the Project including, but not limited to: vegetation removal would be scheduled outside the bird nesting season (February 1 to September 30) and biological restrictions to avoid impacts to CTS require avoidance of working in wet weather by restricting ground disturbing activities in suitable CTS habitat to be between April 15 and October 15. This work window would not apply to activities within the edge of pavement, such as resurfacing existing pavement.	SSP	SSP	Contractor, RE, and CT Biologist	The contractor, RE and CT biologist would schedule vegetation removal and ground disturbing activities outside the edge of pavement adjacent to CTS habitat outside of the applicable work windows.		
Biological Resources – Invasive Species						
PF BIO-11: Cleaning of Equipment. Equipment would be thoroughly cleaned before arriving in the project limits to prevent the spread of noxious weeds from other locations.	SSP	SSP	Contractor	The contractor would ensure that equipment is clean prior to arriving to the project limits.		

The contractor would prevent

spread of noxious weeds by

following the Caltrans'

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Topic 110.5, "Control of Noxious Weeds – Exotic and Invasive Species," and Executive Order 13112 (Invasive Species), and by methods approved by a Caltrans' landscape architect or vegetation control specialist.				Highway Deisgn Manual 11.05 and EO 13112.			
Biological Resources – T and E Species							
PF BIO-13: Special-Status Species Handling. An agency-approved biologist would handle threatened and endangered species using approved handling techniques. Standard species-handling protocols would be used if individuals are discovered within the project limits.	SSP	SSP	Agency approved Biologist	An agency approved biologist would use standard species handling protocols to handle threatened and endangered species within the project limits.			
PF BIO-14: Consultation with Agencies. Coordination with the regulatory agency(ies) would occur if individuals of species under federal and/or state jurisdiction are found within the project limits during construction.	SSP	SSP	CT biologist	A CT biologist would consult with agency(ies) if a protected species is found within the project limits.			
PF BIO-15: Night Work. Nighttime work would be avoided to the maximum extent practicable. For unavoidable nighttime work, all lighting would be directed downwards and towards the active construction area.	SSP	SSP	Contractor	The contractor would avoid night work to the extent practicable and shine night lighting on work being done.			
Greenhouse gas emissions							
PF GHG-1: Waste Reduction. If practicable, nonhazardous waste and excess material would be recycled. If recycling is not practicable, the material would be disposed of appropriately.	SSP	SSP	Contractor and RE	The RE and Contractor would recycle when possible.			
PF GHG-2: Energy Reduction. Solar sign boards would be used when feasible.	SSP	SSP	Contractor and RE	The contractor and RE would use solar sign boards when feasible.			
Hazards and Hazardous Materials							
PF HAZ-2: Hazardous Materials Incident Contingency Plan. A hazardous materials incident contingency plan would be prepared to report, contain, and mitigate roadway spills. The plan would designate a chain of command for notification, evacuation, response, and cleanup of roadway spills.	SSP	SSP	CT Hazardous Waste Specialist	A CT Hazardous Waste Specialist would prepare a contingency plan to report spills and designate a chain of command.			

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Task and Brief Description	Source	SSP/ NSSP	Responsible Staff	Action to Comply	Task Comp Name	leted Date	Remarks/Due Date
Hydrology and Water Quality							
PF HYD-2: Water Quality BMPs. To address the temporary water quality impacts resulting from the construction activities in the project limits, BMPs would include the measures of sediment control, pH control, material and job site management, and erosion control.	SSP	SSP	Contractor	The Contractor would avoid water quality impacts through BMP measures.			
PF HYD-3: Low-Impact Development Controls. The proposed added impervious area is more than 1 acre (1.34 acres) therefore, water quality permanent BMPs are required. The Municipal Regional Permit prioritizes the use of low-impact development measures for stormwater treatment controls. These measures are harvesting and use, infiltration, evapotranspiration, and biotreatment. Other conventional treatment measures (such as basins and vaults) are allowable under special conditions outlined in the permit. Caltrans has an approved list of treatment BMPs that have been studied and verified to provide pollutant removal from stormwater. The permanent BMPs would be incorporated during construction phase to reduce the pollutants in stormwater discharges.	SSP	SSP	Contractor and RE	The RE and Contractor would implement permanent water quality BMPs to reduce the pollutants in stormwater discharges.			
PF HYD-4: Seasonal Restrictions for Water Quality. a. Grading would be conducted between April 15 and October 15, depending on the level of rainfall and/or site conditions. b. Work within drainages would occur between June 1 and October 15.	SSP	SSP	Contractor and RE	The Contractor and RE would abide by the following work windows: Grade between April 15 and October 15. Complete drainage work from June 1 to October 15.			
Utilities and Service Systems							
PF UTI-1: Trash Management. All food-related trash items such as wrappers, cans, bottles, and food scraps would be disposed of in closed containers and removed at least once daily from the project limits. A Trash Reduction System would also be developed and implemented per Caltrans Statewide National Pollution Discharge Elimination System (NPDES) Permit and San Francisco RWQCB Cease and Desist Order.	SSP	SSP	Contractor and RE	The Contractor would remove waste from the project limits each day.			

Appendix C List of Abbreviations

°F degrees Fahrenheit

ADA Americans with Disabilities Act

AMM avoidance and minimization measure

APE area of potential effects

AT&T American Telephone and Telegraph

BAAQMD Bay Area Air Quality Management District

BMP best management practice

BSA Biological Study Area

Caltrans California Department of Transportation

CAPM Capital Preventive Maintenance

CDFW California Department of Fish and Wildlife

CEQA California Environmental Quality Act

CFR Code of Federal Regulations

CNDDB California Natural Diversity Database

CNPS California Native Plant Society

CO₂ carbon dioxide

CTS California tiger salamander

dBA A-weighted decibels

ESA environmentally sensitive area

FHWA Federal Highway Administration

FP Fully Protected

GHG greenhouse gas

HOT High-Occupancy Toll

IS Initial Study

Leq average hourly noise levels

Lmax maximum hourly noise levels

MBGR metal beam guardrail

MGS Midwest Guardrail System

MND Mitigated Negative Declaration

NES Natural Environment Study

NHPA National Historic Preservation Act

NPDES National Pollution Discharge Elimination System

PM_{2.5} particulate matter 2.5 micrometer

PM₁₀ particulate matter 10 micrometer

PCC Portland cement concrete

PG&E Pacific Gas and Electric Company

PM post mile

PRC Public Resources Code

PS&E Plans, Specifications, and Estimate

Programmatic First Amended Programmatic Agreement Among the
Agreement Federal Highway Administration, the Advisory Council on

Historic Preservation, the California State Historic

Preservation Officer, and Caltrans regarding compliance

with Section 106 of the NHPA, as it pertains to the

Administration of the Federal Aid Highway Program in

California

Project Capital Preventive Maintenance Project on State Route 12

in Sonoma County, California

RCNM Roadway Construction Noise Model

ROW right of way

RWQCB Regional Water Quality Control Board

SFBAAB San Francisco Bay Area Air Basin

SR State Route

SRA State Responsibility Area

SRPCS Santa Rosa Plain Conservation Strategy

SSC California species of special concern

ST state listed as threatened

SWPPP Stormwater Pollution Prevention Plan

TCE Temporary Construction Easement

TMP Traffic Management Plan

Unit 1 Santa Rosa Plain Unit

U.S. 101 U.S. Highway 101

USFWS United States Fish and Wildlife Service

WEF Wildlife Exclusion Fencing

Appendix D List of Technical Studies and References

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Appendix E Species Lists



California Department of Fish and Wildlife California Natural Diversity Database



Query Criteria:

Guerneville (3812258), Healdsburg (3812257), Mark West Springs (3812256), Camp Meeker (3812248), Sebastopol (3812247), Santa Rosa (3812246), Valley Ford (3812238), Two Rock (3812237), Cotati (3812236), Kenwood (3812245), Calistoga (3812255), Glen Ellen (3812235)

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Accipiter cooperii	ABNKC12040	None	None	G5	S4	WL
Cooper's hawk						
Accipiter striatus	ABNKC12020	None	None	G5	S4	WL
sharp-shinned hawk						
Agelaius tricolor	ABPBXB0020	None	Threatened	G2G3	S1S2	SSC
tricolored blackbird						
Agrostis blasdalei	PMPOA04060	None	None	G2	S2	1B.2
Blasdale's bent grass						
Allium peninsulare var. franciscanum	PMLIL021R1	None	None	G5T2	S2	1B.2
Franciscan onion						
Alopecurus aequalis var. sonomensis	PMPOA07012	Endangered	None	G5T1	S1	1B.1
Sonoma alopecurus						
Ambystoma californiense	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
California tiger salamander						
Ammodramus savannarum	ABPBXA0020	None	None	G5	S3	SSC
grasshopper sparrow						
Amorpha californica var. napensis	PDFAB08012	None	None	G4T2	S2	1B.2
Napa false indigo	DDD 0 D0 10 T0					45.0
Amsinckia lunaris	PDBOR01070	None	None	G3	S3	1B.2
bent-flowered fiddleneck	W D 4 40 5000			00	00	
Andrena blennospermatis	IIHYM35030	None	None	G2	S2	
Blennosperma vernal pool andrenid bee Anodonta californiensis	IMBIV04020	None	None	C2O	S2?	
California floater	IIVIDI V 04020	None	None	G3Q	32!	
Anodonta oregonensis	IMBIV04110	None	None	G5Q	S2?	
Oregon floater	INDIVOTIO	None	None	OJQ	02:	
Anomobryum julaceum	NBMUS80010	None	None	G5?	S2	4.2
slender silver moss	1121110000010	110110	110110	3 0.	<i>52</i>	1.2
Antrozous pallidus	AMACC10010	None	None	G5	S3	SSC
pallid bat						
Aquila chrysaetos	ABNKC22010	None	None	G5	S3	FP
golden eagle						
Arborimus pomo	AMAFF23030	None	None	G3	S3	SSC
Sonoma tree vole						
Arctostaphylos bakeri ssp. bakeri	PDERI04221	None	Rare	G2T1	S1	1B.1
Baker's manzanita						





			.		.	Rare Plant Rank/CDFW
Species	Element Code	Federal Status	State Status	Global Rank	State Rank	SSC or FP
Arctostaphylos bakeri ssp. sublaevis	PDERI04222	None	Rare	G2T2	S2	1B.2
The Cedars manzanita	PDEDI04000			0.4	0.4	45.4
Arctostaphylos densiflora	PDERI040C0	None	Endangered	G1	S1	1B.1
Vine Hill manzanita	PDEDI04404			0074	0.4	45.4
Arctostaphylos stanfordiana ssp. decumbens Rincon Ridge manzanita	PDERI041G4	None	None	G3T1	S1	1B.1
Ardea alba	ABNGA04040	None	None	G5	S4	
great egret						
Ardea herodias	ABNGA04010	None	None	G5	S4	
great blue heron						
Astragalus claranus	PDFAB0F240	Endangered	Threatened	G1	S1	1B.1
Clara Hunt's milk-vetch						
Athene cunicularia	ABNSB10010	None	None	G4	S3	SSC
burrowing owl						
Balsamorhiza macrolepis	PDAST11061	None	None	G2	S2	1B.2
big-scale balsamroot						
Blennosperma bakeri	PDAST1A010	Endangered	Endangered	G1	S1	1B.1
Sonoma sunshine						
Bombus caliginosus	IIHYM24380	None	None	G4?	S1S2	
obscure bumble bee						
Bombus crotchii	IIHYM24480	None	Candidate	G3G4	S1S2	
Crotch bumble bee			Endangered			
Bombus occidentalis	IIHYM24250	None	Candidate	G2G3	S1	
western bumble bee			Endangered			
Brodiaea leptandra	PMLIL0C022	None	None	G3?	S3?	1B.2
narrow-anthered brodiaea						
Buteo regalis	ABNKC19120	None	None	G4	S3S4	WL
ferruginous hawk						
Caecidotea tomalensis	ICMAL01220	None	None	G2	S2S3	
Tomales isopod						
Calamagrostis crassiglumis	PMPOA17070	None	None	G3Q	S2	2B.1
Thurber's reed grass						
Callophrys mossii marinensis	IILEPE2207	None	None	G4T1	S1	
Marin elfin butterfly						
Calochortus raichei The Cedars fairy-lantern	PMLIL0D1L0	None	None	G2	S2	1B.2
Calystegia collina ssp. oxyphylla	PDCON04032	None	None	G4T3	S3	4.2
Mt. Saint Helena morning-glory	1 0001104002	140110	140110	O+10	55	- T. <u>C</u>
Calystegia purpurata ssp. saxicola coastal bluff morning-glory	PDCON040D2	None	None	G4T2T3	S2S3	1B.2
Campanula californica	PDCAM02060	None	None	G3	S3	1B.2





			.		.	Rare Plant Rank/CDFW
Species	Element Code	Federal Status	State Status	Global Rank	State Rank	SSC or FP
Carex comosa	PMCYP032Y0	None	None	G5	S2	2B.1
bristly sedge						
Castilleja uliginosa	PDSCR0D380	None	Endangered	GXQ	SX	1A
Pitkin Marsh paintbrush						
Ceanothus confusus	PDRHA04220	None	None	G1	S1	1B.1
Rincon Ridge ceanothus						
Ceanothus divergens	PDRHA04240	None	None	G2	S2	1B.2
Calistoga ceanothus						
Ceanothus foliosus var. vineatus	PDRHA040D6	None	None	G3T1	S1	1B.1
Vine Hill ceanothus						
Ceanothus purpureus	PDRHA04160	None	None	G2	S2	1B.2
holly-leaved ceanothus						
Ceanothus sonomensis	PDRHA04420	None	None	G2	S2	1B.2
Sonoma ceanothus						
Centromadia parryi ssp. parryi	PDAST4R0P2	None	None	G3T2	S2	1B.2
pappose tarplant						
Chorizanthe cuspidata var. villosa	PDPGN04082	None	None	G2T2	S2	1B.2
woolly-headed spineflower						
Chorizanthe valida	PDPGN040V0	Endangered	Endangered	G1	S1	1B.1
Sonoma spineflower						
Cirsium andrewsii	PDAST2E050	None	None	G3	S3	1B.2
Franciscan thistle						
Clarkia imbricata	PDONA050K0	Endangered	Endangered	G1	S1	1B.1
Vine Hill clarkia						
Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
Coastal and Valley Freshwater Marsh						
Coastal Brackish Marsh	CTT52200CA	None	None	G2	S2.1	
Coastal Brackish Marsh						
Coccyzus americanus occidentalis	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
western yellow-billed cuckoo			-			
Coelus globosus	IICOL4A010	None	None	G1G2	S1S2	
globose dune beetle						
Cordylanthus tenuis ssp. capillaris	PDSCR0J0S2	Endangered	Rare	G4G5T1	S1	1B.2
Pennell's bird's-beak		9				
Corynorhinus townsendii	AMACC08010	None	None	G3G4	S2	SSC
Townsend's big-eared bat	7 11/1/ 10 0000 10	110110	140.10	3031	02	
Coturnicops noveboracensis	ABNME01010	None	None	G4	S1S2	SSC
yellow rail						
Cuscuta obtusiflora var. glandulosa	PDCUS01111	None	None	G5T4?	SH	2B.2
Peruvian dodder						
Cypseloides niger	ABNUA01010	None	None	G4	S2	SSC
black swift						





Onesias	Flowerst Oak	Fordough Other	Otata Otata	Olahai Dawi	Otata Davil	Rare Plant Rank/CDFW
Species	Element Code	Federal Status	State Status	Global Rank	State Rank	SSC or FP
Danaus plexippus pop. 1 monarch - California overwintering population	IILEPP2012	None	None	G4T2T3	S2S3	
Delphinium bakeri	PDRAN0B050	Endangered	Endangered	G1	S1	1B.1
Baker's larkspur	I DIVANOBOSO	Liluarigered	Liluarigereu	O1	51	10.1
Delphinium luteum	PDRAN0B0Z0	Endangered	Rare	G1	S1	1B.1
golden larkspur	1 01041100020	Lindangered	raic	O1	O1	10.1
Dicamptodon ensatus	AAAAH01020	None	None	G3	S2S3	SSC
California giant salamander	70000000	110110	140110	30	0200	
Dirca occidentalis	PDTHY03010	None	None	G2	S2	1B.2
western leatherwood				0 2		
Downingia pusilla	PDCAM060C0	None	None	GU	S2	2B.2
dwarf downingia						
Dubiraphia giulianii	IICOL5A020	None	None	G1G3	S1S3	
Giuliani's dubiraphian riffle beetle						
Elanus leucurus	ABNKC06010	None	None	G5	S3S4	FP
white-tailed kite						
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle						
Eremophila alpestris actia	ABPAT02011	None	None	G5T4Q	S4	WL
California horned lark						
Erethizon dorsatum	AMAFJ01010	None	None	G5	S3	
North American porcupine						
Erigeron greenei	PDAST3M5G0	None	None	G3	S3	1B.2
Greene's narrow-leaved daisy						
Erigeron serpentinus	PDAST3M5M0	None	None	G2	S2	1B.3
serpentine daisy						
Eryngium constancei	PDAPI0Z0W0	Endangered	Endangered	G1	S1	1B.1
Loch Lomond button-celery						
Eucyclogobius newberryi	AFCQN04010	Endangered	None	G3	S3	SSC
tidewater goby						
Falco peregrinus anatum	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
American peregrine falcon						
Fritillaria liliacea	PMLIL0V0C0	None	None	G2	S2	1B.2
fragrant fritillary						
Gilia capitata ssp. chamissonis blue coast gilia	PDPLM040B3	None	None	G5T2	S2	1B.1
Gilia capitata ssp. tomentosa woolly-headed gilia	PDPLM040B9	None	None	G5T1	S1	1B.1
Gratiola heterosepala	PDSCR0R060	None	Endangered	G2	S2	1B.2
Boggs Lake hedge-hyssop			ŭ			
Hemizonia congesta ssp. congesta	PDAST4R065	None	None	G5T2	S2	1B.2





Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Hesperevax sparsiflora var. brevifolia	PDASTE5011	None	None	G4T3	S2	1B.2
short-leaved evax						
Horkelia marinensis	PDROS0W0B0	None	None	G2	S2	1B.2
Point Reyes horkelia						
Horkelia tenuiloba	PDROS0W0E0	None	None	G2	S2	1B.2
thin-lobed horkelia						
Hydrochara rickseckeri	IICOL5V010	None	None	G2?	S2?	
Ricksecker's water scavenger beetle						
Hydroporus leechi	IICOL55040	None	None	G1?	S1?	
Leech's skyline diving beetle						
Hysterocarpus traskii pomo	AFCQK02011	None	None	G5T4	S4	SSC
Russian River tule perch						
Kopsiopsis hookeri	PDORO01010	None	None	G4?	S1S2	2B.3
small groundcone						
Lasiurus blossevillii	AMACC05060	None	None	G5	S3	SSC
western red bat						
Lasiurus cinereus	AMACC05030	None	None	G5	S4	
hoary bat						
Lasthenia burkei	PDAST5L010	Endangered	Endangered	G1	S1	1B.1
Burke's goldfields						
Lasthenia californica ssp. bakeri	PDAST5L0C4	None	None	G3T1	S1	1B.2
Baker's goldfields						
Lasthenia californica ssp. macrantha	PDAST5L0C5	None	None	G3T2	S2	1B.2
perennial goldfields						
Lasthenia conjugens	PDAST5L040	Endangered	None	G1	S1	1B.1
Contra Costa goldfields						
Lavinia symmetricus navarroensis	AFCJB19023	None	None	G4T1T2	S2S3	SSC
Navarro roach						
Layia septentrionalis	PDAST5N0F0	None	None	G2	S2	1B.2
Colusa layia						
Legenere limosa	PDCAM0C010	None	None	G2	S2	1B.1
legenere						
Leptosiphon jepsonii	PDPLM09140	None	None	G2G3	S2S3	1B.2
Jepson's leptosiphon						
Leptosiphon rosaceus	PDPLM09180	None	None	G1	S1	1B.1
rose leptosiphon						
Lessingia arachnoidea	PDAST5S0C0	None	None	G2	S2	1B.2
Crystal Springs lessingia						
Lichnanthe ursina	IICOL67020	None	None	G2	S2	
bumblebee scarab beetle	P. J. J			057.	0.4	45.4
Lilium pardalinum ssp. pitkinense Pitkin Marsh lily	PMLIL1A0H3	Endangered	Endangered	G5T1	S1	1B.1





Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Limnanthes vinculans	PDLIM02090	Endangered	Endangered	G1	S1	1B.1
Sebastopol meadowfoam		J	3			
Linderiella occidentalis	ICBRA06010	None	None	G2G3	S2S3	
California linderiella						
Lupinus sericatus	PDFAB2B3J0	None	None	G2?	S2?	1B.2
Cobb Mountain lupine						
Microseris paludosa	PDAST6E0D0	None	None	G2	S2	1B.2
marsh microseris						
Myotis thysanodes	AMACC01090	None	None	G4	S3	
fringed myotis						
Myotis volans	AMACC01110	None	None	G5	S3	
long-legged myotis						
Myotis yumanensis	AMACC01020	None	None	G5	S4	
Yuma myotis						
Navarretia leucocephala ssp. bakeri	PDPLM0C0E1	None	None	G4T2	S2	1B.1
Baker's navarretia						
Navarretia leucocephala ssp. plieantha	PDPLM0C0E5	Endangered	Endangered	G4T1	S1	1B.2
many-flowered navarretia						
Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Northern Hardpan Vernal Pool						
Northern Vernal Pool	CTT44100CA	None	None	G2	S2.1	
Northern Vernal Pool						
Oncorhynchus kisutch pop. 4 coho salmon - central California coast ESU	AFCHA02034	Endangered	Endangered	G4	S2?	
Oncorhynchus mykiss irideus pop. 8 steelhead - central California coast DPS	AFCHA0209G	Threatened	None	G5T2T3Q	S2S3	
Pandion haliaetus	ABNKC01010	None	None	G5	S4	WL
osprey						
Pelecanus occidentalis californicus	ABNFC01021	Delisted	Delisted	G4T3T4	S3	FP
California brown pelican						
Penstemon newberryi var. sonomensis	PDSCR1L483	None	None	G4T2	S2	1B.3
Sonoma beardtongue						
Piperia candida	PMORC1X050	None	None	G3	S3	1B.2
white-flowered rein orchid						
Plagiobothrys strictus	PDBOR0V120	Endangered	Threatened	G1	S1	1B.1
Calistoga popcornflower						
Pleuropogon hooverianus	PMPOA4Y070	None	Threatened	G2	S2	1B.1
North Coast semaphore grass						
Poa napensis	PMPOA4Z1R0	Endangered	Endangered	G1	S1	1B.1
Napa blue grass						
Potentilla uliginosa	PDROS1B4A0	None	None	GH	SH	1A



Selected Elements by Scientific Name

California Department of Fish and Wildlife California Natural Diversity Database



		.		.	.	Rare Plant Rank/CDFW
Species Species Western Species Specie	Element Code	Federal Status	State Status	Global Rank	State Rank	SSC or FP
Puccinellia simplex	PMPOA53110	None	None	G3	S2	1B.2
California alkali grass	A A A DI 104.050	Nama	Camalidata	62	00	000
Rana boylii	AAABH01050	None	Candidate Threatened	G3	S3	SSC
foothill yellow-legged frog	A A A DI 104000	Thomastoned	Mana	0000	0000	000
Rana draytonii California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
	PMCYP0N010	None	None	G5	S2	2B.2
Rhynchospora alba white beaked-rush	PINICTPUNUTU	None	None	G5	32	ZD.Z
	PMCYP0N060	None	None	G1	S1	1B.1
Rhynchospora californica California beaked-rush	PIVICTPUNUOU	None	None	Gi	31	ID.I
	PMCYP0N080	None	None	G5	S1	2B.2
Rhynchospora capitellata brownish beaked-rush	PIVICTPUNUOU	None	None	G5	31	ZD.Z
Rhynchospora globularis	PMCYP0N0W0	None	None	G4	S1	2B.1
round-headed beaked-rush	PIVICTPUNOVVO	None	None	G 4	31	2D. I
Riparia riparia	ABPAU08010	None	Threatened	G5	S2	
bank swallow	ABPA000010	None	Tilleaterieu	GJ	32	
Sidalcea calycosa ssp. rhizomata	PDMAL11012	None	None	G5T2	S2	1B.2
Point Reyes checkerbloom	1 DIVINCE 11012	None	None	3012	O2	ID.L
Sidalcea hickmanii ssp. napensis	PDMAL110A6	None	None	G3T1	S1	1B.1
Napa checkerbloom	. 2					.2
Sidalcea malviflora ssp. purpurea	PDMAL110FL	None	None	G5T1	S1	1B.2
purple-stemmed checkerbloom						
Sidalcea oregana ssp. valida	PDMAL110K5	Endangered	Endangered	G5T1	S1	1B.1
Kenwood Marsh checkerbloom		Ū	G			
Silene scouleri ssp. scouleri	PDCAR0U1MC	None	None	G5T4T5	S2S3	2B.2
Scouler's catchfly						
Spergularia macrotheca var. longistyla	PDCAR0W062	None	None	G5T2	S2	1B.2
long-styled sand-spurrey						
Speyeria zerene myrtleae	IILEPJ608C	Endangered	None	G5T1	S1	
Myrtle's silverspot butterfly						
Spirinchus thaleichthys	AFCHB03010	Candidate	Threatened	G5	S1	
longfin smelt						
Syncaris pacifica	ICMAL27010	Endangered	Endangered	G2	S2	
California freshwater shrimp						
Taricha rivularis	AAAAF02020	None	None	G4	S2	SSC
red-bellied newt						
Taxidea taxus	AMAJF04010	None	None	G5	S3	SSC
American badger						
Thamnolia vermicularis	NLTES43860	None	None	G3G5	S1	2B.1
whiteworm lichen						
Trifolium amoenum	PDFAB40040	Endangered	None	G1	S1	1B.1
two-fork clover						



Selected Elements by Scientific Name

California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Trifolium buckwestiorum	PDFAB402W0	None	None	G2	S2	1B.1
Santa Cruz clover						
Trifolium hydrophilum	PDFAB400R5	None	None	G2	S2	1B.2
saline clover						
Triphysaria floribunda	PDSCR2T010	None	None	G2?	S2?	1B.2
San Francisco owl's-clover						
Triquetrella californica	NBMUS7S010	None	None	G2	S2	1B.2
coastal triquetrella						
Usnea longissima	NLLEC5P420	None	None	G4	S4	4.2
Methuselah's beard lichen						
Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
Valley Needlegrass Grassland						
Vespericola marinensis	IMGASA4140	None	None	G2	S2	
Marin hesperian						
Viburnum ellipticum	PDCPR07080	None	None	G4G5	S3?	2B.3
oval-leaved viburnum						

Record Count: 152



Plant List

118 matches found. Click on scientific name for details

Search Criteria

Found in Quads 3812257, 3812256, 3812255, 3812247, 3812246, 3812245, 3812237, 3812236, 3812235, 3812238 and 3812248;

Q Modify Search Criteria Export to Excel Modify Columns Modify Sort Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Agrostis blasdalei	Blasdale's bent grass	Poaceae	perennial rhizomatous herb	May-Jul	1B.2	S2	G2
Allium peninsulare var. franciscanum	Franciscan onion	Alliaceae	perennial bulbiferous herb	(Apr)May-Jun	1B.2	S2	G5T2
Alopecurus aequalis var. sonomensis	Sonoma alopecurus	Poaceae	perennial herb	May-Jul	1B.1	S1	G5T1
Amorpha californica var. napensis	Napa false indigo	Fabaceae	perennial deciduous shrub	Apr-Jul	1B.2	S2	G4T2
Amsinckia lunaris	bent-flowered fiddleneck	Boraginaceae	annual herb	Mar-Jun	1B.2	S3	G3
<u>Anomobryum</u> j <u>ulaceum</u>	slender silver moss	Bryaceae	moss		4.2	S2	G5?
<u>Arabis</u> <u>blepharophylla</u>	coast rockcress	Brassicaceae	perennial herb	Feb-May	4.3	S4	G4
<u>Arctostaphylos</u> <u>bakeri ssp. bakeri</u>	Baker's manzanita	Ericaceae	perennial evergreen shrub	Feb-Apr	1B.1	S1	G2T1
Arctostaphylos bakeri ssp. sublaevis	The Cedars manzanita	Ericaceae	perennial evergreen shrub	Feb,Apr,May	1B.2	S2	G2T2
<u>Arctostaphylos</u> <u>densiflora</u>	Vine Hill manzanita	Ericaceae	perennial evergreen shrub	Feb-Apr	1B.1	S1	G1
Arctostaphylos hispidula	Howell's manzanita	Ericaceae	perennial evergreen shrub	Mar-Apr	4.2	S3	G4

Arctostaphylos stanfordiana ssp. decumbens	Rincon Ridge manzanita	Ericaceae	perennial evergreen shrub	Feb-Apr(May)	1B.1	S1	G3T1
Astragalus breweri	Brewer's milk- vetch	Fabaceae	annual herb	Apr-Jun	4.2	S3	G3
Astragalus claranus	Clara Hunt's milk-vetch	Fabaceae	annual herb	Mar-May	1B.1	S1	G1
Balsamorhiza macrolepis	big-scale balsamroot	Asteraceae	perennial herb	Mar-Jun	1B.2	S2	G2
<u>Blennosperma</u> <u>bakeri</u>	Sonoma sunshine	Asteraceae	annual herb	Mar-May	1B.1	S1	G1
Brodiaea leptandra	narrow-anthered brodiaea	Themidaceae	perennial bulbiferous herb	May-Jul	1B.2	S3?	G3?
<u>Calamagrostis</u> <u>bolanderi</u>	Bolander's reed grass	Poaceae	perennial rhizomatous herb	May-Aug	4.2	S4	G4
<u>Calamagrostis</u> <u>crassiglumis</u>	Thurber's reed grass	Poaceae	perennial rhizomatous herb	May-Aug	2B.1	S2	G3Q
<u>Calamagrostis</u> <u>ophitidis</u>	serpentine reed grass	Poaceae	perennial herb	Apr-Jul	4.3	S3	G3
Calandrinia breweri	Brewer's calandrinia	Montiaceae	annual herb	(Jan)Mar-Jun	4.2	S4	G4
Calochortus raichei	The Cedars fairy- lantern	Liliaceae	perennial bulbiferous herb	May-Aug	1B.2	S2	G2
<u>Calochortus</u> <u>uniflorus</u>	pink star-tulip	Liliaceae	perennial bulbiferous herb	Apr-Jun	4.2	S4	G4
Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	Convolvulaceae	perennial rhizomatous herb	Apr-Jun	4.2	S3	G4T3
Calystegia purpurata ssp. saxicola	coastal bluff morning-glory	Convolvulaceae	perennial herb	(Mar)Apr-Sep	1B.2	S2S3	G4T2T3
Campanula californica	swamp harebell	Campanulaceae	perennial rhizomatous herb	Jun-Oct	1B.2	S3	G3
Carex comosa	bristly sedge	Cyperaceae	perennial rhizomatous herb	May-Sep	2B.1	S2	G5
Castilleja ambigua var. ambigua	johnny-nip	Orobanchaceae	annual herb (hemiparasitic)	Mar-Aug	4.2	S3S4	G4T4
Castilleja uliginosa	Pitkin Marsh paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	Jun-Jul	1A	SX	GXQ
<u>Ceanothus</u> <u>confusus</u>	Rincon Ridge ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-Jun	1B.1	S1	G1
<u>Ceanothus</u> <u>divergens</u>	Calistoga ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-Apr	1B.2	S2	G2
Ceanothus foliosus var. vineatus	Vine Hill ceanothus	Rhamnaceae	perennial evergreen shrub	Mar-May	1B.1	S1	G3T1
Ceanothus gloriosus var. exaltatus	glory brush	Rhamnaceae	perennial evergreen shrub	Mar-Jun(Aug)	4.3	S4	G4T4

<u>Ceanothus</u> <u>purpureus</u>	holly-leaved ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-Jun	1B.2	S2	G2
<u>Ceanothus</u> <u>sonomensis</u>	Sonoma ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-Apr	1B.2	S2	G2
<u>Centromadia parryi</u> <u>ssp. parryi</u>	pappose tarplant	Asteraceae	annual herb	May-Nov	1B.2	S2	G3T2
Chloropyron maritimum ssp. palustre	Point Reyes bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	Jun-Oct	1B.2	S2	G4?T2
Chorizanthe cuspidata var. cuspidata	San Francisco Bay spineflower	Polygonaceae	annual herb	Apr-Jul(Aug)	1B.2	S1	G2T1
Chorizanthe cuspidata var. villosa	woolly-headed spineflower	Polygonaceae	annual herb	May-Jul(Aug)	1B.2	S2	G2T2
Chorizanthe valida	Sonoma spineflower	Polygonaceae	annual herb	Jun-Aug	1B.1	S1	G1
Cirsium andrewsii	Franciscan thistle	Asteraceae	perennial herb	Mar-Jul	1B.2	S3	G3
Clarkia breweri	Brewer's clarkia	Onagraceae	annual herb	Apr-Jun	4.2	S4	G4
Clarkia imbricata	Vine Hill clarkia	Onagraceae	annual herb	Jun-Aug	1B.1	S1	G1
Cordylanthus tenuis ssp. brunneus	serpentine bird's- beak	Orobanchaceae	annual herb (hemiparasitic)	Jul-Aug	4.3	S3	G4G5T3
Cordylanthus tenuis ssp. capillaris	Pennell's bird's- beak	Orobanchaceae	annual herb (hemiparasitic)	Jun-Sep	1B.2	S1	G4G5T1
Cuscuta obtusiflora var. glandulosa	Peruvian dodder	Convolvulaceae	annual vine (parasitic)	Jul-Oct	2B.2	SH	G5T4?
<u>Cypripedium</u> <u>montanum</u>	mountain lady's- slipper	Orchidaceae	perennial rhizomatous herb	Mar-Aug	4.2	S4	G4
<u>Delphinium bakeri</u>	Baker's larkspur	Ranunculaceae	perennial herb	Mar-May	1B.1	S1	G1
Delphinium luteum	golden larkspur	Ranunculaceae	perennial herb	Mar-May	1B.1	S1	G1
Dirca occidentalis	western leatherwood	Thymelaeaceae	perennial deciduous shrub	Jan-Mar(Apr)	1B.2	S2	G2
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	Mar-May	2B.2	S2	GU
Erigeron biolettii	streamside daisy	Asteraceae	perennial herb	Jun-Oct	3	S3?	G3?
Erigeron greenei	Greene's narrow- leaved daisy	Asteraceae	perennial herb	May-Sep	1B.2	S3	G3
Erigeron serpentinus	serpentine daisy	Asteraceae	perennial herb	May-Aug	1B.3	S2	G2
Eriophorum gracile	slender cottongrass	Cyperaceae	perennial rhizomatous herb (emergent)	May-Sep	4.3	S4	G5
Eryngium constancei	Loch Lomond button-celery	Apiaceae	annual / perennial herb	Apr-Jun	1B.1	S1	G1
Fritillaria liliacea	fragrant fritillary	Liliaceae	perennial bulbiferous herb	Feb-Apr	1B.2	S2	G2
	blue coast gilia	Polemoniaceae	annual herb	Apr-Jul	1B.1	S2	G5T2

Gilia capitata ssp. chamissonis							
Gilia capitata ssp. tomentosa	woolly-headed gilia	Polemoniaceae	annual herb	May-Jul	1B.1	S1	G5T1
<u>Gratiola</u> <u>heterosepala</u>	Boggs Lake hedge-hyssop	Plantaginaceae	annual herb	Apr-Aug	1B.2	S2	G2
Hemizonia congesta ssp. congesta	congested- headed hayfield tarplant	Asteraceae	annual herb	Apr-Nov	1B.2	S2	G5T2
Hesperevax caulescens	hogwallow starfish	Asteraceae	annual herb	Mar-Jun	4.2	S3	G3
Hesperevax sparsiflora var. brevifolia	short-leaved evax	Asteraceae	annual herb	Mar-Jun	1B.2	S2	G4T3
Horkelia marinensis	Point Reyes horkelia	Rosaceae	perennial herb	May-Sep	1B.2	S2	G2
Horkelia tenuiloba	thin-lobed horkelia	Rosaceae	perennial herb	May-Jul(Aug)	1B.2	S2	G2
Hosackia gracilis	harlequin lotus	Fabaceae	perennial rhizomatous herb	Mar-Jul	4.2	S3	G3G4
Iris longipetala	coast iris	Iridaceae	perennial rhizomatous herb	Mar-May	4.2	S3	G3
Kopsiopsis hookeri	small groundcone	Orobanchaceae	perennial rhizomatous herb (parasitic)	Apr-Aug	2B.3	S1S2	G4?
<u>Lasthenia burkei</u>	Burke's goldfields	Asteraceae	annual herb	Apr-Jun	1B.1	S1	G1
<u>Lasthenia</u> <u>californica ssp.</u> <u>bakeri</u>	Baker's goldfields	Asteraceae	perennial herb	Apr-Oct	1B.2	S1	G3T1
<u>Lasthenia</u> <u>californica ssp.</u> <u>macrantha</u>	perennial goldfields	Asteraceae	perennial herb	Jan-Nov	1B.2	S2	G3T2
<u>Lasthenia</u> <u>conjugens</u>	Contra Costa goldfields	Asteraceae	annual herb	Mar-Jun	1B.1	S1	G1
<u>Layia</u> <u>septentrionalis</u>	Colusa layia	Asteraceae	annual herb	Apr-May	1B.2	S2	G2
Legenere limosa	legenere	Campanulaceae	annual herb	Apr-Jun	1B.1	S2	G2
<u>Leptosiphon</u> <u>acicularis</u>	bristly leptosiphon	Polemoniaceae	annual herb	Apr-Jul	4.2	S4?	G4?
<u>Leptosiphon</u> <u>jepsonii</u>	Jepson's leptosiphon	Polemoniaceae	annual herb	Mar-May	1B.2	S2S3	G2G3
<u>Leptosiphon</u> <u>rosaceus</u>	rose leptosiphon	Polemoniaceae	annual herb	Apr-Jul	1B.1	S1	G1
<u>Lessingia</u> <u>arachnoidea</u>	Crystal Springs lessingia	Asteraceae	annual herb	Jul-Oct	1B.2	S2	G2
Lessingia hololeuca	woolly-headed lessingia	Asteraceae	annual herb	Jun-Oct	3	S2S3	G3?

<u>Lilium pardalinum</u> ssp. pitkinense	Pitkin Marsh lily	Liliaceae	perennial bulbiferous herb	Jun-Jul	1B.1	S1	G5T1
<u>Lilium rubescens</u>	redwood lily	Liliaceae	perennial bulbiferous herb	Apr-Aug(Sep)	4.2	S3	G3
<u>Limnanthes</u> <u>vinculans</u>	Sebastopol meadowfoam	Limnanthaceae	annual herb	Apr-May	1B.1	S1	G1
Lomatium repostum	Napa lomatium	Apiaceae	perennial herb	Mar-Jun	4.3	S3	G3
Lupinus sericatus	Cobb Mountain lupine	Fabaceae	perennial herb	Mar-Jun	1B.2	S2?	G2?
Micropus amphibolus	Mt. Diablo cottonweed	Asteraceae	annual herb	Mar-May	3.2	S3S4	G3G4
Microseris paludosa	marsh microseris	Asteraceae	perennial herb	Apr-Jun(Jul)	1B.2	S2	G2
Monardella viridis	green monardella	Lamiaceae	perennial rhizomatous herb	Jun-Sep	4.3	S3	G3
Navarretia cotulifolia	cotula navarretia	Polemoniaceae	annual herb	May-Jun	4.2	S4	G4
<u>Navarretia</u> <u>heterandra</u>	Tehama navarretia	Polemoniaceae	annual herb	Apr-Jun	4.3	S4	G4
<u>Navarretia</u> <u>leucocephala ssp.</u> <u>bakeri</u>	Baker's navarretia	Polemoniaceae	annual herb	Apr-Jul	1B.1	S2	G4T2
<u>Navarretia</u> leucocephala ssp. plieantha	many-flowered navarretia	Polemoniaceae	annual herb	May-Jun	1B.2	S1	G4T1
Penstemon newberryi var. sonomensis	Sonoma beardtongue	Plantaginaceae	perennial herb	Apr-Aug	1B.3	S2	G4T2
<u>Perideridia</u> gairdneri ssp. gairdneri	Gairdner's yampah	Apiaceae	perennial herb	Jun-Oct	4.2	S3S4	G5T3T4
<u>Plagiobothrys</u> <u>strictus</u>	Calistoga popcornflower	Boraginaceae	annual herb	Mar-Jun	1B.1	S1	G1
<u>Pleuropogon</u> <u>hooverianus</u>	North Coast semaphore grass	Poaceae	perennial rhizomatous herb	Apr-Jun	1B.1	S2	G2
<u>Pleuropogon</u> <u>refractus</u>	nodding semaphore grass	Poaceae	perennial rhizomatous herb	(Mar)Apr-Aug	4.2	S4	G4
Poa napensis	Napa blue grass	Poaceae	perennial herb	May-Aug	1B.1	S1	G1
Potentilla uliginosa	Cunningham Marsh cinquefoil	Rosaceae	perennial herb	May-Aug	1A	SH	GH
Puccinellia simplex	California alkali grass	Poaceae	annual herb	Mar-May	1B.2	S2	G3
Ranunculus lobbii	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	Feb-May	4.2	S3	G4
Rhynchospora alba	white beaked- rush	Cyperaceae	perennial rhizomatous herb	Jun-Aug	2B.2	S2	G5
	California beaked-rush	Cyperaceae	perennial rhizomatous herb	May-Jul	1B.1	S1	G1

Rhynchospora californica							
Rhynchospora capitellata	brownish beaked-rush	Cyperaceae	perennial herb	Jul-Aug	2B.2	S1	G5
Rhynchospora globularis	round-headed beaked-rush	Cyperaceae	perennial rhizomatous herb	Jul-Aug	2B.1	S1	G4
Sidalcea calycosa ssp. rhizomata	Point Reyes checkerbloom	Malvaceae	perennial rhizomatous herb	Apr-Sep	1B.2	S2	G5T2
Sidalcea hickmanii ssp. napensis	Napa checkerbloom	Malvaceae	perennial herb	Apr-Jun	1B.1	S1	G3T1
Sidalcea malviflora ssp. purpurea	purple-stemmed checkerbloom	Malvaceae	perennial rhizomatous herb	May-Jun	1B.2	S1	G5T1
Sidalcea oregana ssp. valida	Kenwood Marsh checkerbloom	Malvaceae	perennial rhizomatous herb	Jun-Sep	1B.1	S1	G5T1
Silene scouleri ssp. scouleri	Scouler's catchfly	Caryophyllaceae	perennial herb	(Mar- May)Jun- Aug(Sep)	2B.2	S2S3	G5T4T5
<u>Spergularia</u> <u>macrotheca var.</u> <u>longistyla</u>	long-styled sand- spurrey	Caryophyllaceae	perennial herb	Feb-May(Jun)	1B.2	S2	G5T2
<u>Thamnolia</u> <u>vermicularis</u>	whiteworm lichen	Icmadophilaceae	fruticose lichen (terricolous)		2B.1	S1	G3G5
Trifolium amoenum	two-fork clover	Fabaceae	annual herb	Apr-Jun	1B.1	S1	G1
<u>Trifolium</u> <u>buckwestiorum</u>	Santa Cruz clover	Fabaceae	annual herb	Apr-Oct	1B.1	S2	G2
<u>Trifolium</u> <u>hydrophilum</u>	saline clover	Fabaceae	annual herb	Apr-Jun	1B.2	S2	G2
<u>Triphysaria</u> <u>floribunda</u>	San Francisco owl's-clover	Orobanchaceae	annual herb	Apr-Jun	1B.2	S2?	G2?
<u>Triquetrella</u> <u>californica</u>	coastal triquetrella	Pottiaceae	moss		1B.2	S2	G2
<u>Usnea longissima</u>	Methuselah's beard lichen	Parmeliaceae	fruticose lichen (epiphytic)		4.2	S4	G4
Viburnum ellipticum	oval-leaved viburnum	Adoxaceae	perennial deciduous shrub	May-Jun	2B.3	S3?	G4G5

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United States Department of the Interior

FISH AND WILDLIFE SERVICE

Sacramento Fish And Wildlife Office Federal Building 2800 Cottage Way, Room W-2605 Sacramento, CA 95825-1846 Phone: (916) 414-6600 Fax: (916) 414-6713



In Reply Refer To: September 04, 2019

Consultation Code: 08ESMF00-2019-SLI-2935

Event Code: 08ESMF00-2019-E-09387

Project Name: Sonoma 12 Capital Preventative Maintenance Project

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Sacramento Fish And Wildlife Office Federal Building 2800 Cottage Way, Room W-2605 Sacramento, CA 95825-1846 (916) 414-6600

Project Summary

Consultation Code: 08ESMF00-2019-SLI-2935

Event Code: 08ESMF00-2019-E-09387

Project Name: Sonoma 12 Capital Preventative Maintenance Project

Project Type: TRANSPORTATION

Project Description: Resurfacing of mainline, shoulders and on/off ramps of State Route 12

Post Mile 11.0/17.4

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/38.42434966158646N122.77344924309341W



Counties: Sonoma, CA

Endangered Species Act Species

There is a total of 17 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an
office of the National Oceanic and Atmospheric Administration within the Department of
Commerce.

Birds

NAME STATUS

Northern Spotted Owl Strix occidentalis caurina

Threatened

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/1123

Reptiles

NAME STATUS

Green Sea Turtle Chelonia mydas

Threatened

Population: East Pacific DPS

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6199

Event Code: 08ESMF00-2019-E-09387

Amphibians

NAME

California Red-legged Frog Rana draytonii

There is **final** critical habitat for this species. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/2891

California Tiger Salamander Ambystoma californiense

Population: U.S.A. (CA - Sonoma County)

There is **final** critical habitat for this species. Your location overlaps the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/2076

Insects

NAME STATUS

San Bruno Elfin Butterfly Callophrys mossii bayensis

There is **proposed** critical habitat for this species. The location of the critical habitat is not

available.

Species profile: https://ecos.fws.gov/ecp/species/3394

Crustaceans

NAME STATUS

California Freshwater Shrimp Syncaris pacifica

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7903

Threatened

Endangered

Endangered

Endangered

Event Code: 08ESMF00-2019-E-09387

Flowering Plants

NAME **STATUS** Burke's Goldfields Lasthenia burkei Endangered No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4338 Clara Hunt's Milk-vetch *Astragalus clarianus* Endangered No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3300 Endangered Pitkin Marsh Lily *Lilium pardalinum ssp. pitkinense* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/570 Sebastopol Meadowfoam *Limnanthes vinculans* Endangered No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/404 Showy Indian Clover Trifolium amoenum Endangered No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6459 Sonoma Alopecurus Alopecurus aequalis var. sonomensis Endangered No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/557 Endangered Sonoma Spineflower Chorizanthe valida No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7698 Sonoma Sunshine *Blennosperma bakeri* Endangered No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1260 Vine Hill Clarkia *Clarkia imbricata* Endangered No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7044 White Sedge Carex albida Endangered No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3063 Yellow Larkspur *Delphinium luteum* Endangered There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3578

Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME STATUS

California Tiger Salamander *Ambystoma californiense* https://ecos.fws.gov/ecp/species/2076#crithab

Final