CALIFORNIA COASTAL COMMISSION
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Th15b

4-22-0459 (Caltrans)

March 29, 2023

EXHIBITS

Table of Contents

Exhibit 1

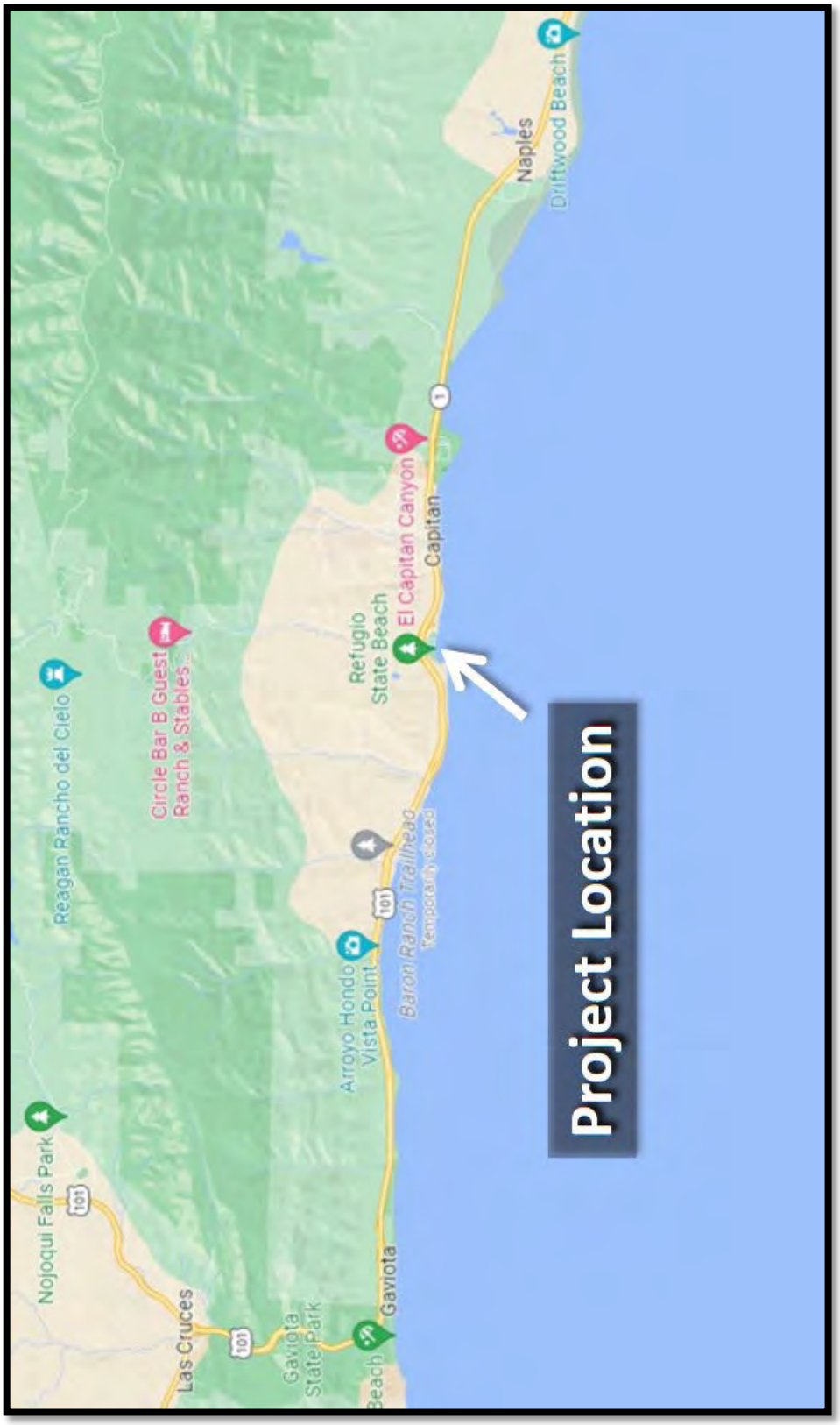
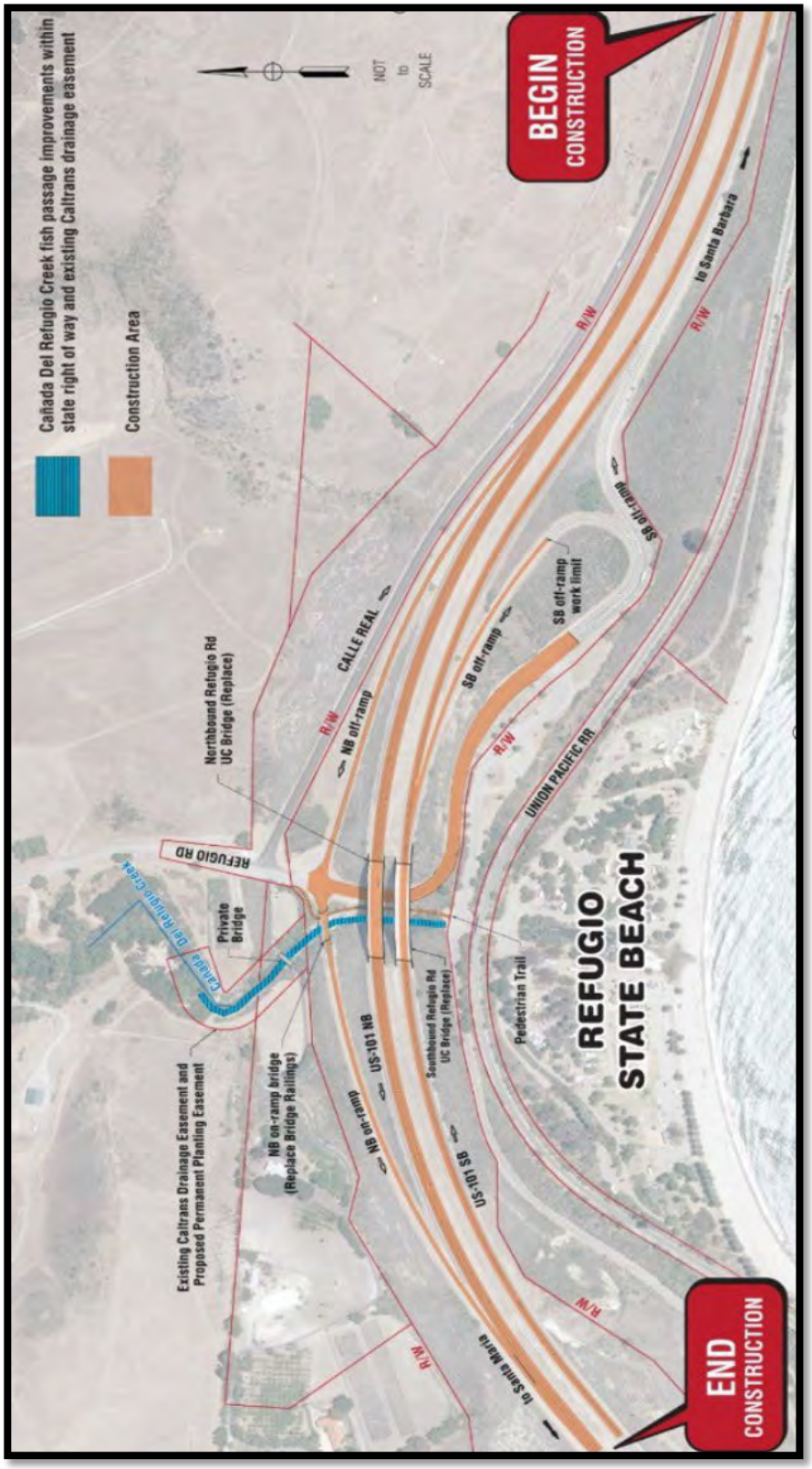

Project Location
Nojoqui Falls Park
Las Cruces
Gaviota State Park
Gaviota
Arroyo Hondo Vista Point
Baron Ranch Trailhead
Reagan Rancho del Cielo
Circle Bar B Guest Ranch & Stables
Refugio State Beach
El Capitan Canyon
Capitan
Naples
Driftwood Beach
101
1

Exhibit 2

Exhibit 3


Cañada Del Refugio Creek fish passage improvements within state right of way and existing Caltrans drainage easement
Construction Area
NOT to SCALE
BEGIN CONSTRUCTION
END CONSTRUCTION
REFUGIO STATE BEACH
REFUGIO RD
CALLE REAL
Northbound Refugio Rd UC Bridge (Replace)
Southbound Refugio Rd UC Bridge (Replace)
Private Bridge
Del Refugio Creek
Cañada
NB off-ramp
SB off-ramp
SB off-ramp work limit
NB on-ramp
US-101 NB
US-101 SB
NB on-ramp bridge (Replace Bridge Railings)
Existing Caltrans Drainage Easement and Proposed Permanent Planting Easement
Pedestrian Trail
UNION PACIFIC RR
R/W
to Santa Barbara
to Santa Maria

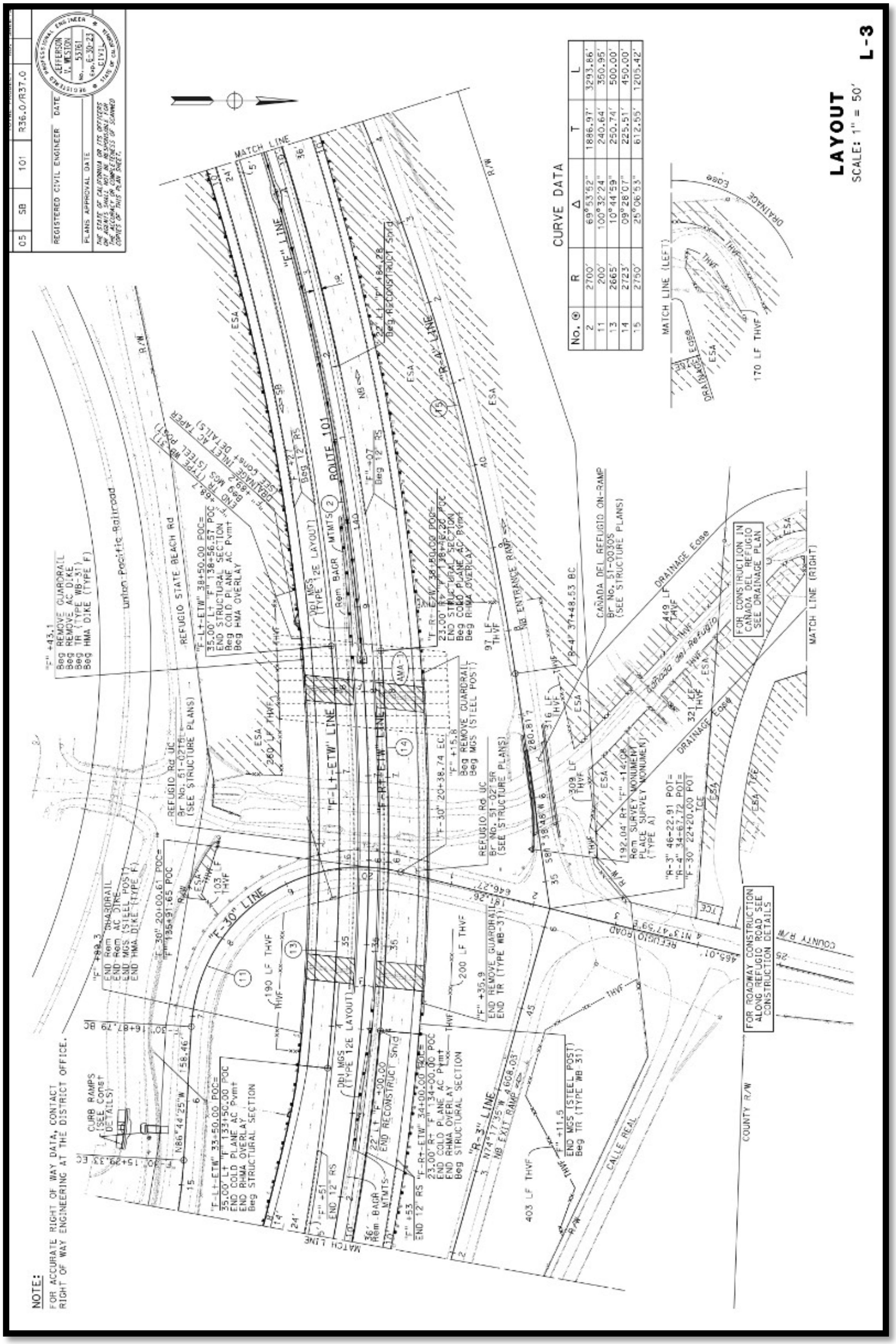

NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
CURVE DATA
No. | R | Δ | T | L
2 | 2700' | 69°53'52" | 1886.97' | 3293.66'
11 | 200' | 100°32'24" | 240.64' | 350.95'
13 | 2665' | 10°44'59" | 250.74' | 500.00'
14 | 2723' | 09°28'07" | 225.51' | 450.00'
15 | 2750' | 25°06'53" | 612.55' | 1205.42'
ROUTE 101
REFUGIO STATE BEACH Rd
Union Pacific Railroad
MATCH LINE
LAYOUT
SCALE: 1" = 50'
L-3

Exhibit 4

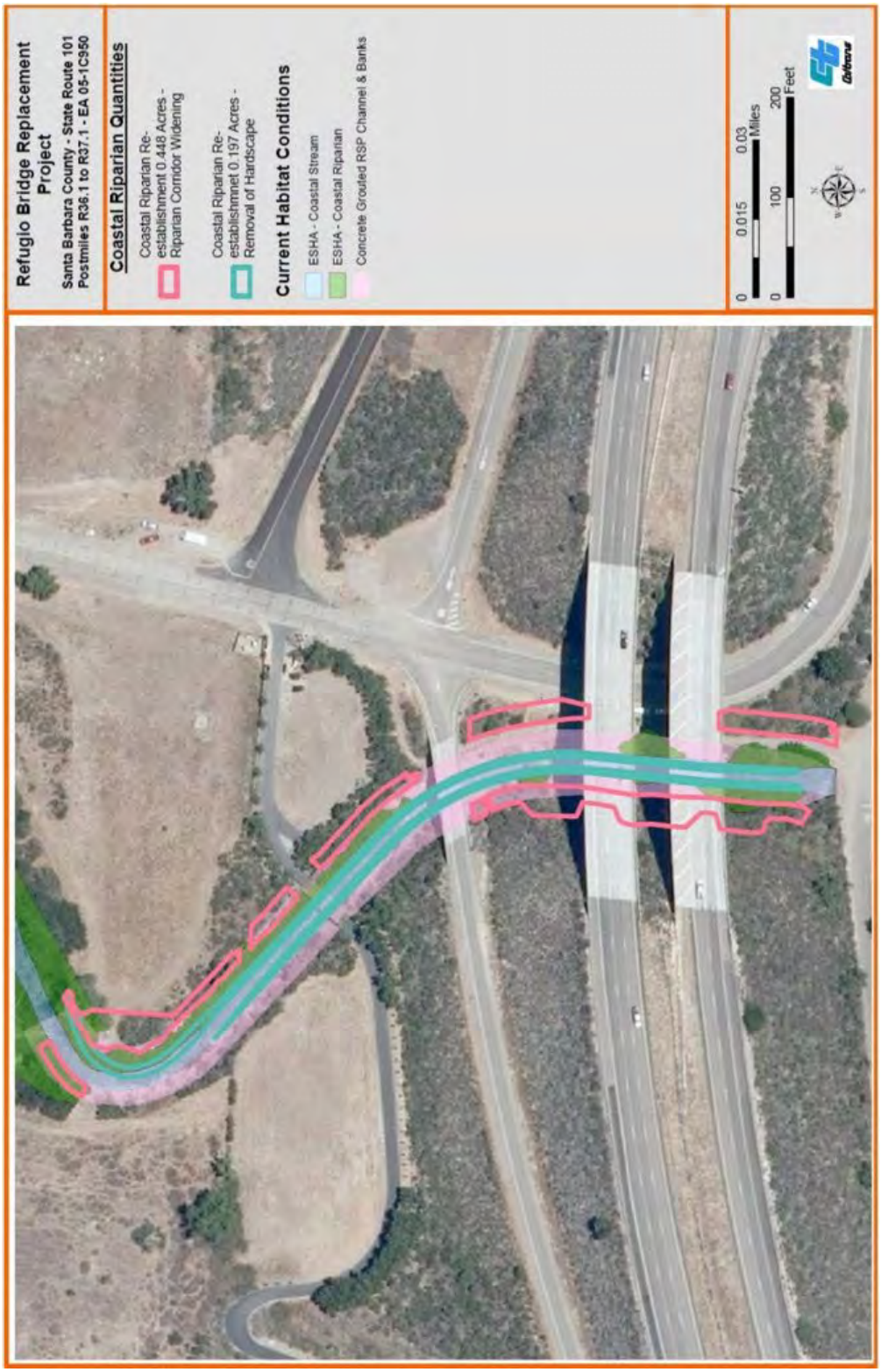

Refugio Bridge Replacement Project
Santa Barbara County - State Route 101
Postmiles R36.1 to R37.1 - EA 05-1C950
Coastal Riparian Quantities
Coastal Riparian Re-establishment 0.448 Acres - Riparian Corridor Widening
Coastal Riparian Re-establishmnet 0.197 Acres - Removal of Hardscape
Current Habitat Conditions
ESHA - Coastal Stream
ESHA - Coastal Riparian
Concrete Grouted RSP Channel & Banks
0 0.015 0.03 Miles
0 100 200 Feet

Exhibit 5

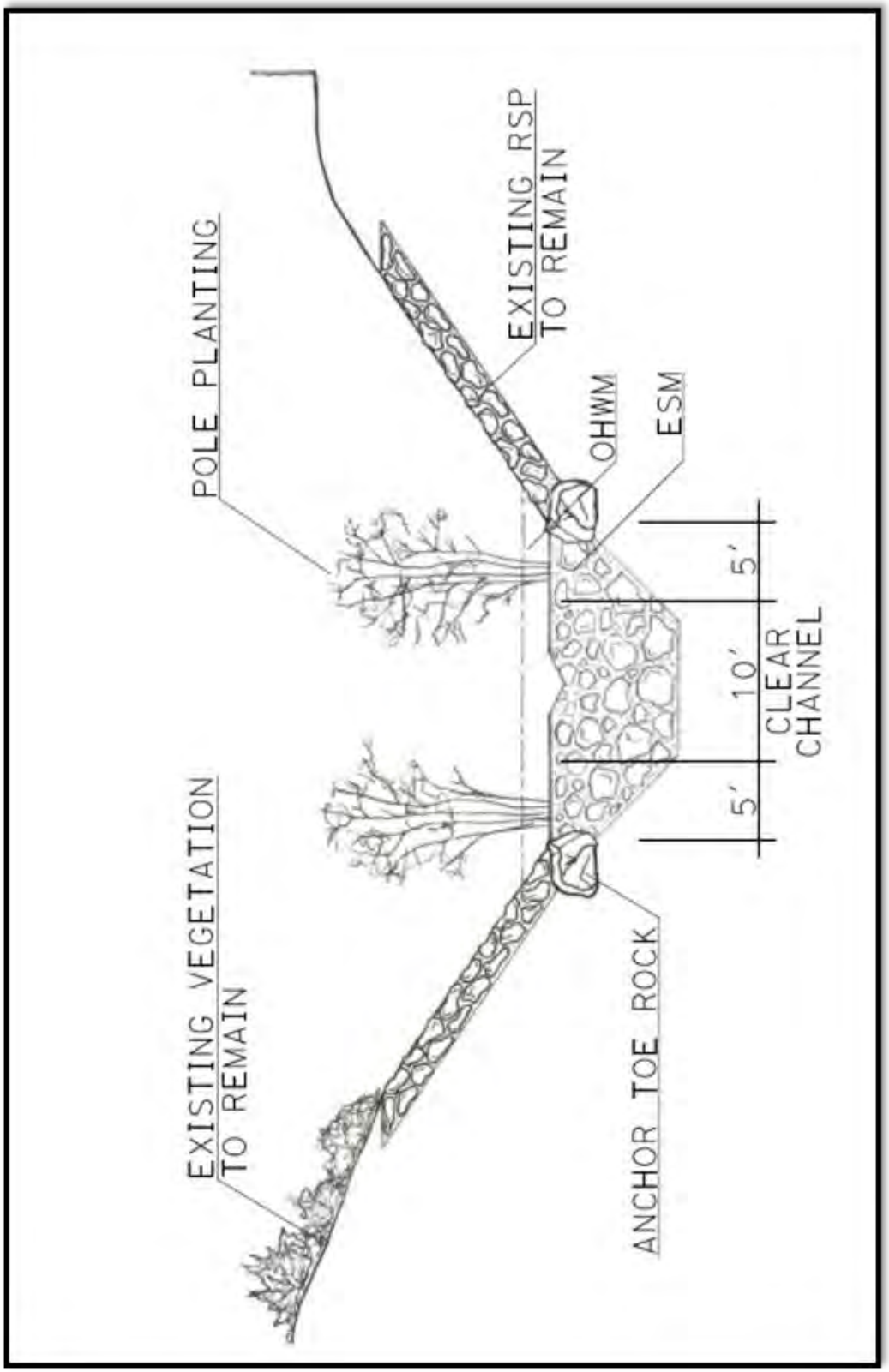

POLE PLANTING
EXISTING RSP
TO REMAIN
OHWM
ESM
5'
10'
5'
CLEAR
CHANNEL
EXISTING VEGETATION
TO REMAIN
ANCHOR TOE ROCK

Exhibit 6

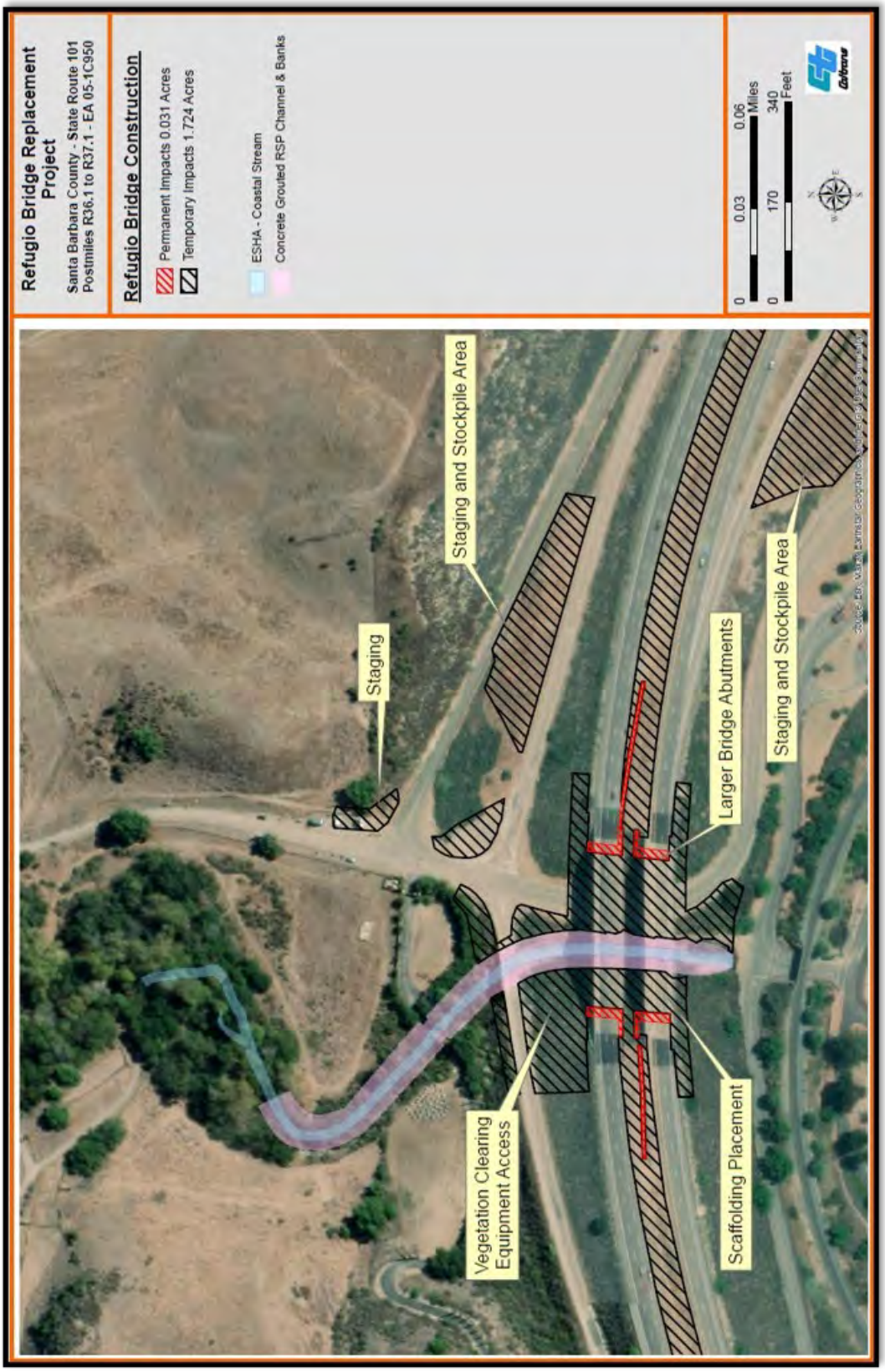

Refugio Bridge Replacement Project
Santa Barbara County - State Route 101
Postmiles R36.1 to R37.1 - EA 05-1C950
Refugio Bridge Construction
Permanent Impacts 0.031 Acres
Temporary Impacts 1.724 Acres
ESHA - Coastal Stream
Concrete Grouted RSP Channel & Banks
0 0.03 0.06 Miles
0 170 340 Feet
Staging
Staging and Stockpile Area
Larger Bridge Abutments
Staging and Stockpile Area
Vegetation Clearing Equipment Access
Scaffolding Placement

Exhibit 7

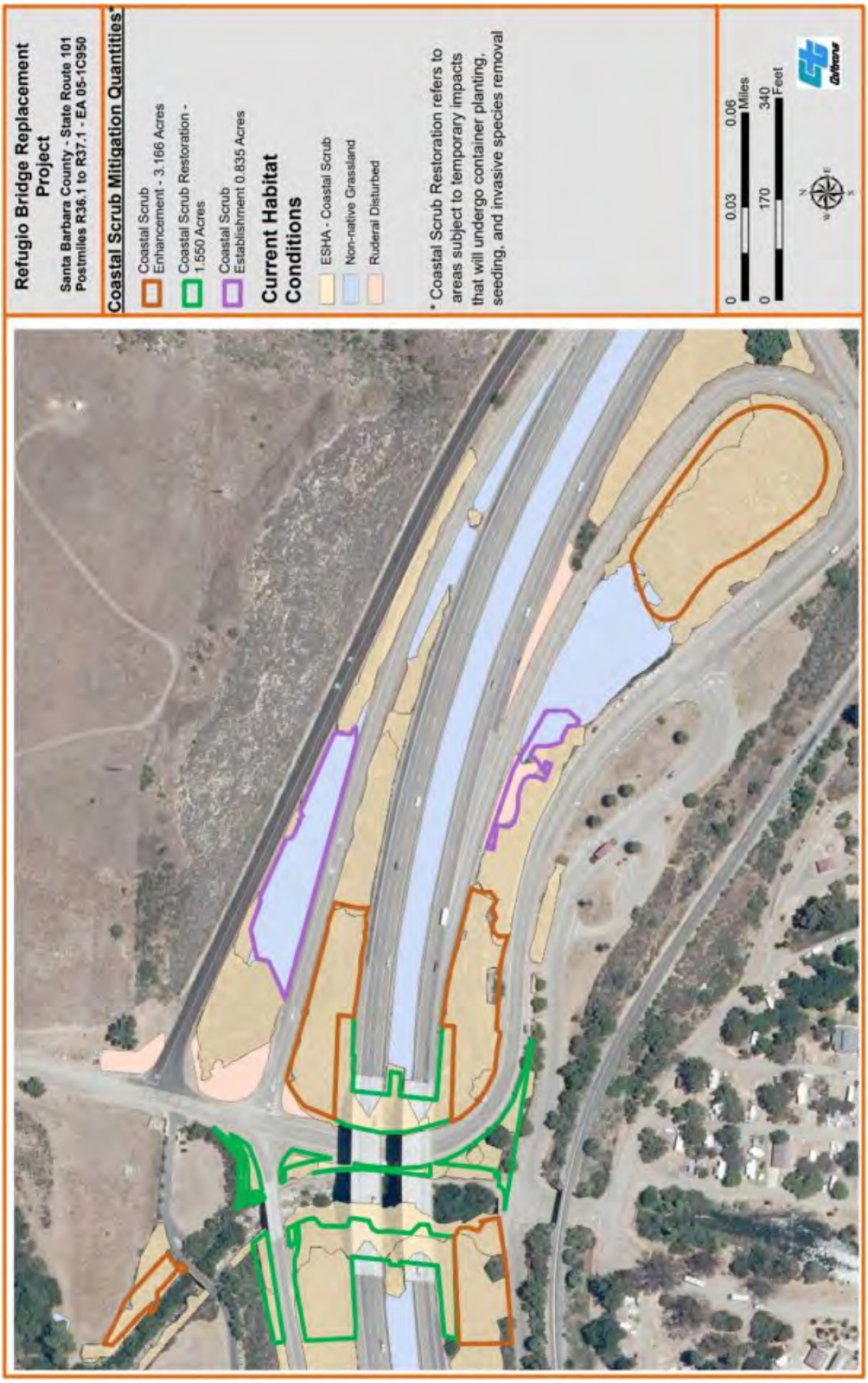

Refugio Bridge Replacement Project
Santa Barbara County - State Route 101
Postmiles R36.1 to R37.1 - EA 05-1C950
Coastal Scrub Mitigation Quantities*
Coastal Scrub Enhancement - 3.166 Acres
Coastal Scrub Restoration - 1.550 Acres
Coastal Scrub Establishment 0.835 Acres
Current Habitat Conditions
ESHA - Coastal Scrub
Non-native Grassland
Ruderal Disturbed
* Coastal Scrub Restoration refers to areas subject to temporary impacts that will undergo container planting, seeding, and invasive species removal
0
0.03
0.06
Miles
0
170
340
Feet
N
E
W
S

Exhibit 8

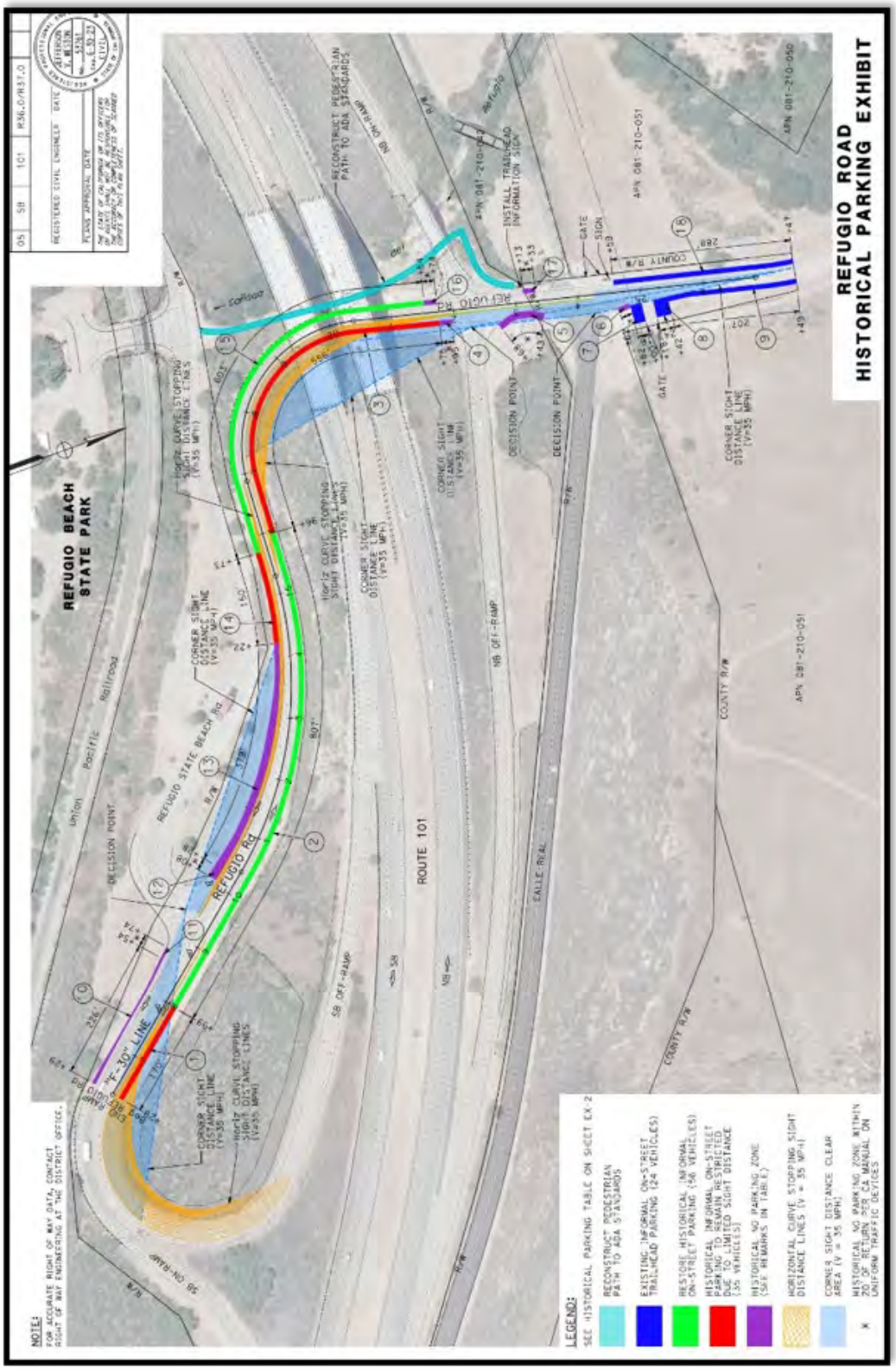

REFUGIO ROAD
HISTORICAL PARKING EXHIBIT
REFUGIO BEACH
STATE PARK
ROUTE 101
REFUGIO RD
REFUGIO STATE BEACH RD
EAGLE REAL
DECISION POINT
CORNER SIGHT DISTANCE LINE (V=55 MPH)
HORIZ CURVE STOPPING SIGHT DISTANCE LINES (V=55 MPH)
"E-30" LINE
RECONSTRUCT PEDESTRIAN PATH TO ADA STANDARDS
INSTALL TRAILHEAD INFORMATION SIGN
GATE
SIGN
COUNTY R/W
APN 081-210-051
APN 081-210-050
NB OFF-RAMP
SB OFF-RAMP
LEGEND:
SEE "HISTORICAL PARKING TABLE ON SHEET EX-2
RECONSTRUCT PEDESTRIAN PATH TO ADA STANDARDS
EXISTING INFORMAL ON-STREET TRAILHEAD PARKING (24 VEHICLES)
RESTORE HISTORICAL INFORMAL ON-STREET PARKING (56 VEHICLES)
HISTORICAL INFORMAL ON-STREET PARKING TO REMAIN RESTRICTED DUE TO LIMITED SIGHT DISTANCE (35 VEHICLES)
HISTORICAL NO PARKING ZONE (SEE REMARKS IN TABLE)
HORIZONTAL CURVE STOPPING SIGHT DISTANCE LINES (V = 55 MPH)
CORNER SIGHT DISTANCE CLEAR AREA (V = 55 MPH)
HISTORICAL NO PARKING ZONE WITHIN CLEAR ZONE TO BE REMOVED ON UNIFORM TRAFFIC DEVICES
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Exhibit 9


COASTAL
ACCESS
In collaboration with the California Coastal Commission and Caltrans

Exhibit 10

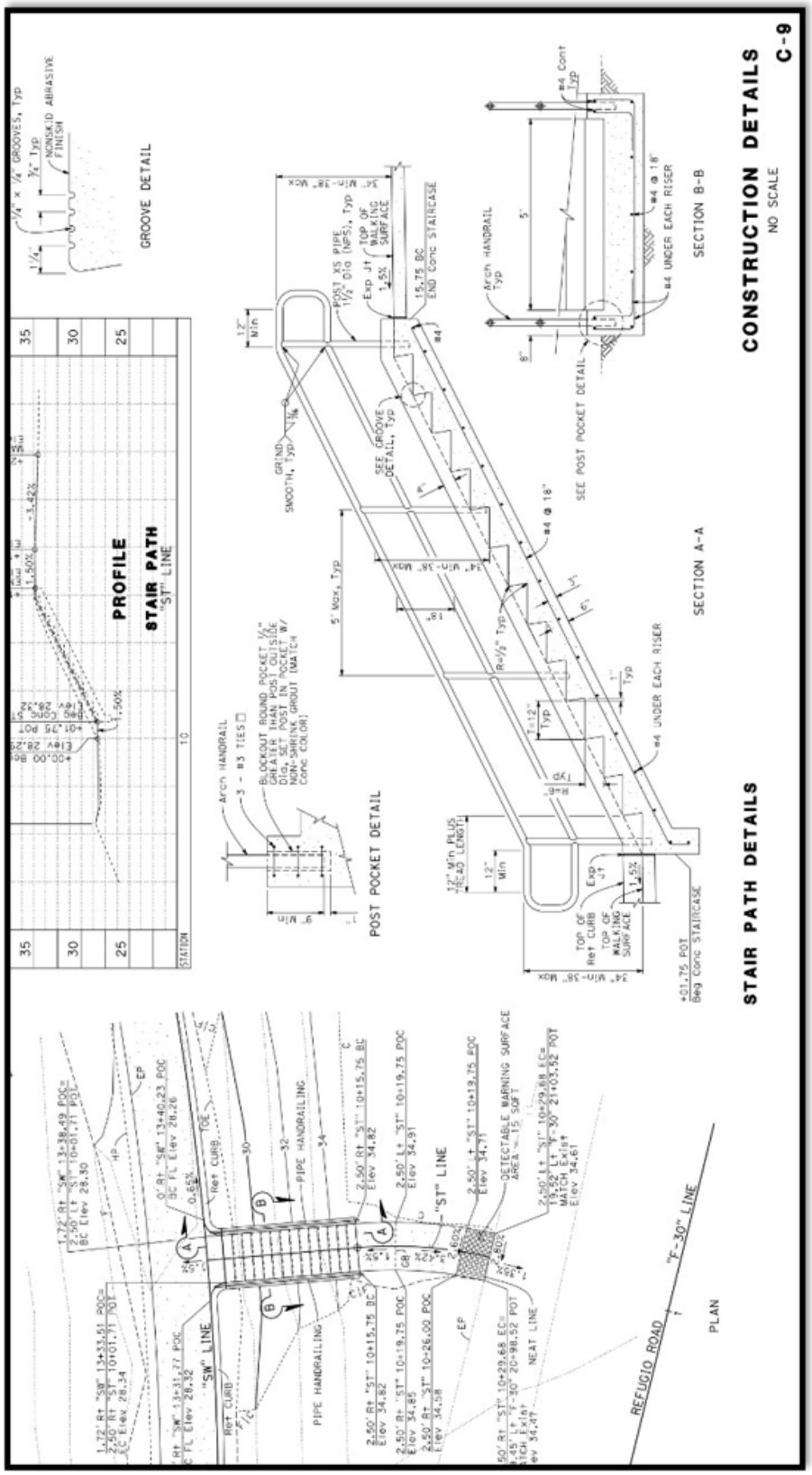

CONSTRUCTION DETAILS
C-9
NO SCALE
GROOVE DETAIL
PROFILE
STAIR PATH
"ST" LINE
STAIR PATH DETAILS
POST POCKET DETAIL
SECTION A-A
SECTION B-B
SEE POST POCKET DETAIL
PLAN
REFUGIO ROAD
"E-30" LINE
"SW" LINE
"ST" LINE
PIPE HANDRAILING
DETECTABLE WARNING SURFACE
AREA = 15 SQFT
NEAT LINE
Arch HANDRAIL
3 - #3 TIES
#4 @ 18"
#4 UNDER EACH RISER
SEE GROOVE DETAIL, Typ
TOP OF Ret CURB
TOP OF WALKING SURFACE
+01.75 POT
Beg Conc STAIRCASE
15.75 BC
END Conc STAIRCASE

Exhibit 11

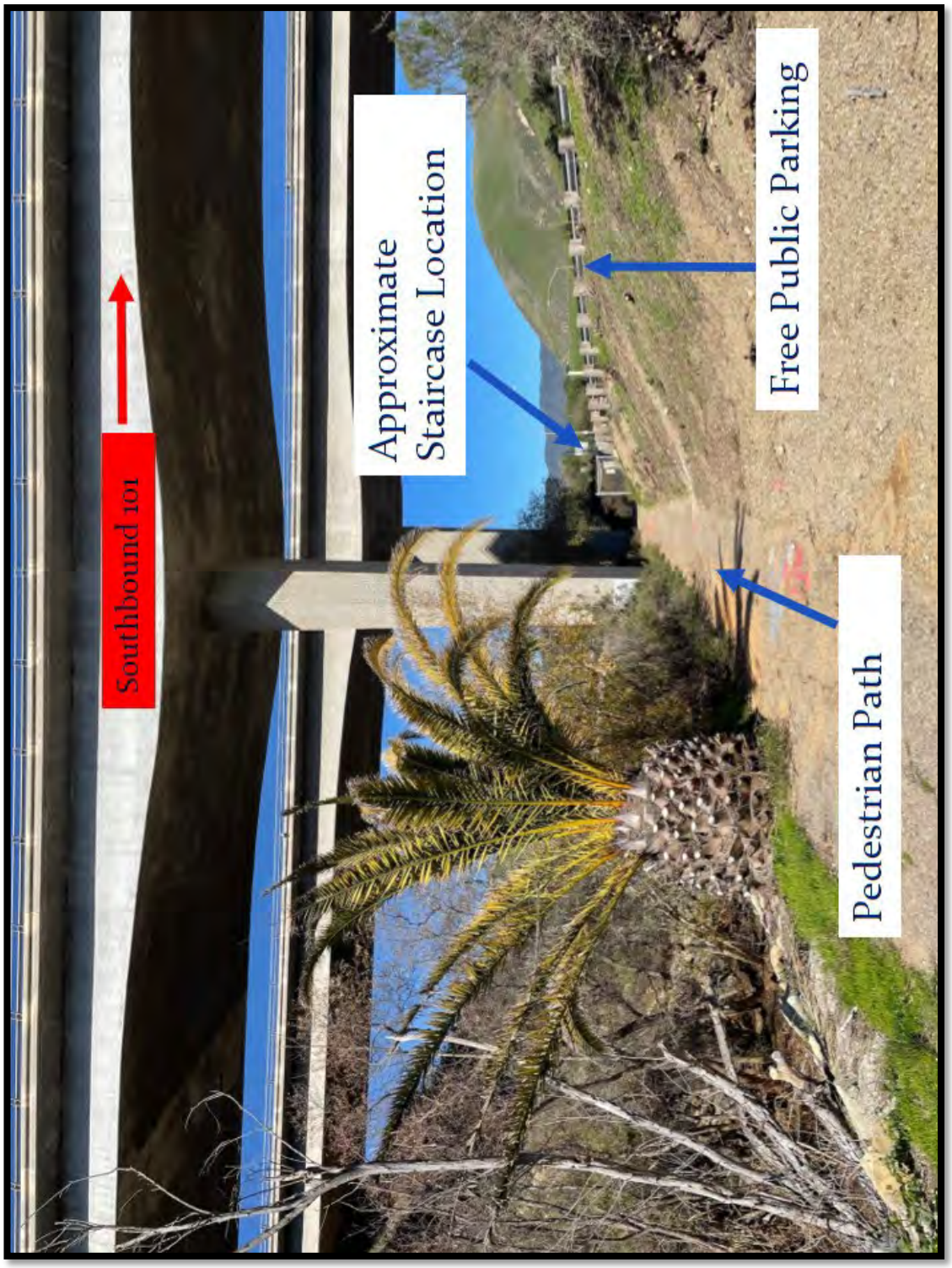

Southbound 101
Approximate Staircase Location
Free Public Parking
Pedestrian Path

Exhibit 12


Paradiso Trail Site
Project Site
Santa Barbara Natives
The Ritz-Carlton Bacara, Santa Barbara
Naples State Marine Conservation Area
Dos Pueblos Orchid Farm
Naples
Rancho Dos Pueblos
El Capitan Canyon
El Capitan State Beach
Refugio State Beach
101

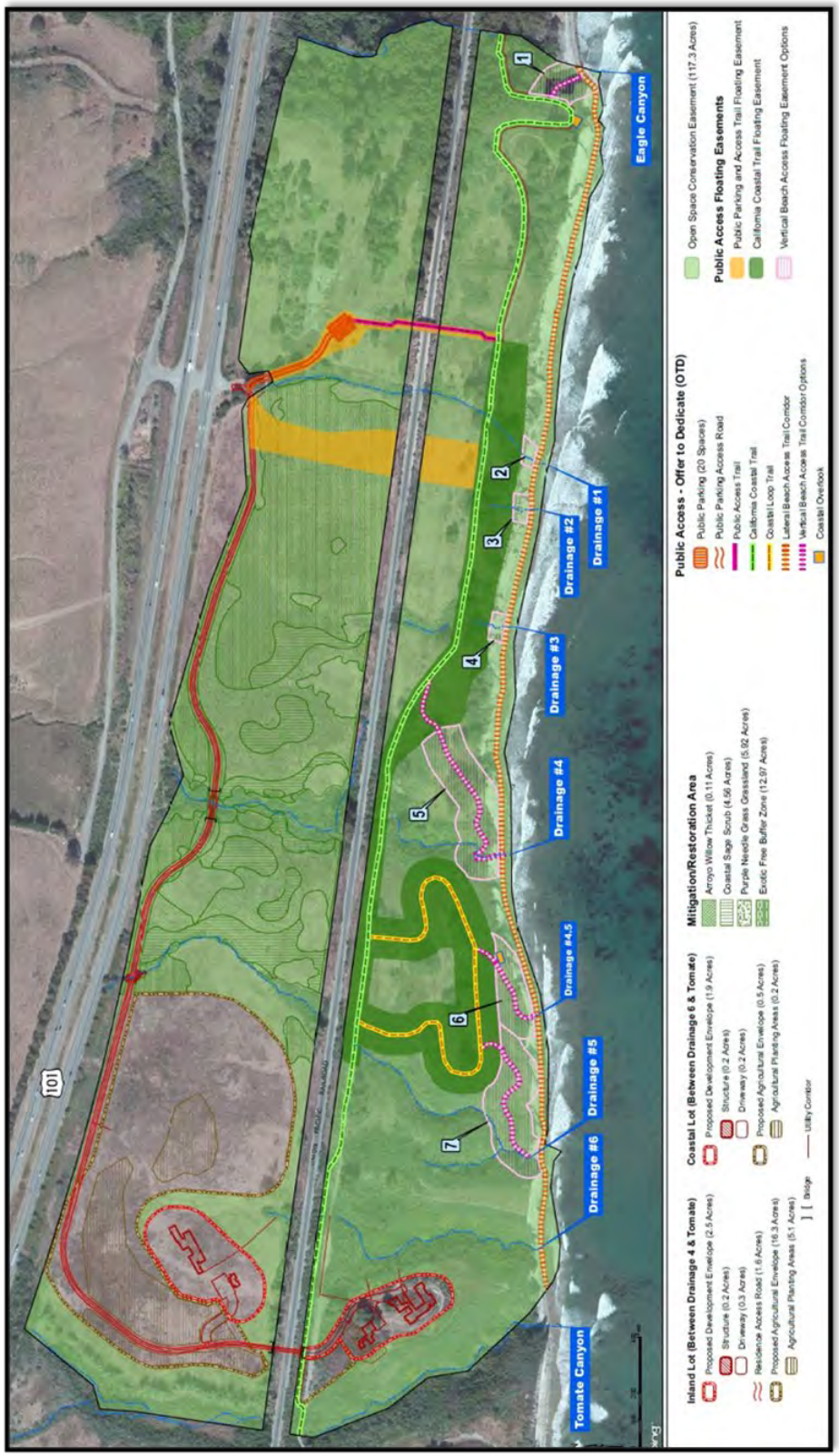

101
Tomate Canyon
Drainage #6
Drainage #5
Drainage #4.5
Drainage #4
Drainage #3
Drainage #2
Drainage #1
Eagle Canyon
1
2
3
4
5
6
7
Inland Lot (Between Drainage 4 & Tomate)
Proposed Development Envelope (2.5 Acres)
Structure (0.2 Acres)
Driveway (0.3 Acres)
Residence Access Road (1.6 Acres)
Proposed Agricultural Envelope (16.3 Acres)
Agricultural Planting Areas (5.1 Acres)
Bridge
Coastal Lot (Between Drainage 6 & Tomate)
Proposed Development Envelope (1.9 Acres)
Structure (0.2 Acres)
Driveway (0.2 Acres)
Proposed Agricultural Envelope (0.5 Acres)
Agricultural Planting Areas (0.2 Acres)
Utility Corridor
Mitigation/Restoration Area
Arroyo Willow Thicket (0.11 Acres)
Coastal Sage Scrub (4.56 Acres)
Purple Needle Grass Grassland (5.92 Acres)
Exotic Free Buffer Zone (12.97 Acres)
Public Access - Offer to Dedicate (OTD)
Public Parking (20 Spaces)
Public Parking Access Road
Public Access Trail
California Coastal Trail
Coastal Loop Trail
Lateral Beach Access Trail Corridor
Vertical Beach Access Trail Corridor Options
Coastal Overlook
Open Space Conservation Easement (117.3 Acres)
Public Access Floating Easements
Public Parking and Access Trail Floating Easement
California Coastal Trail Floating Easement
Vertical Beach Access Floating Easement Options

Exhibit 13

Exhibit 14

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Wetlands/ Other Waters	WET-2: Prior to any ground-disturbing activities, environmentally sensitive area fencing will be installed around jurisdictional waters, coastal zone Environmentally Sensitive Habitat areas, and the dripline of trees to be protected within project limits. Caltrans-defined environmentally sensitive areas will be noted on design plans and delineated in the field prior to the start of construction activities.	Project Biologist	Include fencing in the project plans and contract. Establish fencing before construction.	Project design phase and Construction	No
Wetlands/ Other Waters	Mitigation Measure WET-3: Mitigation would be achieved through restoration (re-establishment) and would include acquisition of a permanent planting easement along Cañada del Refugio Creek. Replacement plantings will be detailed in Caltrans' Landscape Architecture Landscape Planting Plan and the final Mitigation Management Plan. It is expected that restoration plantings will be on-site and in-kind and consist of the same associated native species known to occur in the project limits.	Landscape Architecture, Project Biologist, Project Permit Coordinator	Develop the Mitigation Management Plan consistent with requirements from regulatory agencies. The plan will be developed in coordination with Landscape Architecture and the project biologist. The plan will be finalized through the permit review process with regulatory agencies.	Project design phase	Yes

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Animal Species	AS-2: Prior to construction, a biologist determined qualified by Caltrans will survey the biological study area and, if present, capture and relocate any coast range newts or two-striped garter snakes to suitable habitat upstream of the biological study area, and western pond turtles will be captured and relocated to Refugio Lagoon. Observations of Species of Special Concern or other special-status species will be documented on California Natural Diversity Database forms and submitted to California Department of Fish and Wildlife upon project completion. If these species or other aquatic Species of Special Concern are observed during construction, they will likewise be relocated to suitable habitat outside of the impact area by a qualified biologist.	Project Biologist, Environmental Construction Liaison	Survey the area. Capture and relocate as needed. Ensure qualified biologist is on-site when needed.	Pre-construction	No
Animal Species	AS-3: All excavation and vegetation removal will be monitored by a qualified biologist. The qualified biologist will be on-site during all new excavations and vegetation removal.	Project Biologist, Environmental Construction Liaison	Ensure qualified biologist is on-site when needed.	Construction	No
Animal Species	AS-4: Northern California legless lizards, coast horned lizards, coast patch-nosed snakes, or any species (excluding state or federal listed species) discovered during monitoring will be captured and relocated by the qualified biologist to suitable habitat outside of the biological study area. Observations of Species of Special Concern or other special-status species will be documented on California Natural Diversity Database forms and submitted to California Department of Fish and Wildlife upon project completion.	Project Biologist, Environmental Construction Liaison	Ensure qualified biologist is on-site when needed.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Plant Species	PLA-1: Prior to construction, the top two inches of the soil within about 1.5 feet of all Santa Catalina island buckwheat and cliff aster plants affected in the project work area will be collected by the contractor and stockpiled during construction. Prior to collection, soils should be inspected for the presence of invasive species. If invasive species are present, the soils will not be stockpiled. Toward the end of construction, the stockpiled soil will be spread in areas that are suitable habitat. The contractor will coordinate with the Caltrans district biologist, no sooner than 60 working days prior to construction.	Project Biologist, Contractor	The contractor will coordinate with the biologist.	Pre-construction and Construction	No
Animal Species	AS-1: Prior to implementation of a water management strategy in Cañada del Refugio Creek, Caltrans will conduct an informal worker environmental training program including a description of coast range newt, western pond turtle and two-striped garter snake, their legal and protected status, proximity to the project site, and avoidance and minimization measures to be implemented during the project.	Project Biologist, Environmental Construction Liaison	Plan and conduct worker training program in coordination with contractor and resident engineer.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Animal Species	AS-7: Mud nest removal and installation of exclusion methods will be completed prior to the beginning of the bird nesting season. Mud nests will be removed, and the exclusion devices will be installed any time outside of the nesting bird season. Refer to measures AS-9, AS-10, and AS-11 in the avoidance and minimization measures for bats for additional procedures.	Project Biologist, Contractor	Ensure exclusion methods are installed at the proper times.	Construction	No
Animal Species	AS-8: Daily inspections and recorded inspection logs will also be a part of the exclusion plan. After installed, exclusion devices will be inspected daily by the contractor to remove any partially constructed nests, monitor for any wildlife that may become trapped by the exclusion devices, and/or repair exclusion devices, if necessary. If any wildlife is discovered trapped or a bat-occupied or bird-occupied area is discovered, the Caltrans district biologist will be notified immediately and any further work on the bridges will cease until further protection measures can be implemented.	Project Biologist, Contractor	Contractor will inspect exclusion devices daily. If any wildlife is discovered, they must contact biologist.	Construction	No
Animal Species	AS-9: The contractor will contact the District Biologist at least 7 days prior to removing swallow mud nests from the bridges.	Contractor	Contractor will contact biologist.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Animal Species	AS-5: If feasible and regulatory approvals allow, tree removal will be scheduled to occur from October 1 and January 31, outside of the typical nesting bird season, to avoid potential impacts to nesting birds. If it is not feasible to conduct this work outside of the nesting bird season, nesting bird surveys should be conducted by a qualified biologist no more than 14 days prior to the start of construction. If an active nest is found, a qualified biologist will determine an appropriate buffer and monitoring strategy. The buffer area will be avoided until a qualified biologist has determined that the nest is no longer active.	Project Biologist, Contractor, Resident Engineer	Contact biologist if tree removal occurs during nesting bird season.	Construction	No
Animal Species	AS-6: Unoccupied swallow mud nests could provide roosting locations for bats protected by the State of California. As a result, mud nests on these bridges must be removed prior to starting work and outside of the bird nesting season. This plan will discuss methods of removing mud nests or other nests and eliminating access to the angles of the bridges where swallows typically build nests, and to drainage holes where white-throated swifts are known to nest and may provide roosting habitat for bats. The exclusion methods will be implemented after the mud nests have been removed. The exclusion plan will be submitted to the Caltrans district biologist for approval at least 45 working days prior to implementation. Refer to AS-8 below.	Project Biologist, Environmental Construction Liaison, Contractor	The contractor will prepare a plan to exclude birds and bats from nesting or roosting on the bridges. Biologist will review exclusion plan sent by the contractor 45 days prior to implementation.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Animal Species	AS-14: If project activities cannot avoid impacting the middens, then a qualified biologist will dismantle the middens by hand prior to grading or vegetation removal activities. The midden dismantling will be conducted such that the midden material is slowly removed while the biologist looks for young woodrats. The material will be placed in a pile at the closest adjacent undisturbed habitat and more than 50 feet from construction activities.	Project Biologist	Project biologist will dismantle the middens if impacts are unavoidable.	Pre-Construction	No
Animal Species	AS-15: If young are encountered during midden dismantling, the dismantling activity will be stopped and the material replaced back on the nest and the nest will be left alone and rechecked in two to three weeks to see if the young are out of the nest or capable of being out on their own as determined by a qualified biologist; once the young can fend for themselves, the nest dismantling can continue.	Project Biologist	Project biologist will comply and follow up in two to three weeks.	Pre-Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Animal Species	AS-10: Mud nest removal will require a boom lift, snooper truck, or equipment suitable to access mud nests. Swallow mud nests will be gently scraped off the bridge and allowed to drop no more than 10 feet into a cushioned container. Mud nests will not be dropped to the ground or onto roadways or waterways. If a bat is present, the qualified biologist on-site during all nest removal activities will be responsible for relocating the bat.	Project Biologist	Ensure mud nests are removed properly and any discovered bats are relocated by a qualified biologist.	Construction	No
Animal Species	AS-11: The new bridge design will include suitable conditions required for swallow nesting including ledges and/or rough vertical surfaces with a sheltered overhang.	Project Engineer, Environmental Coordinator	Incorporate elements into bridge design	Project Design Phase	No
Animal Species	AS-12: No more than 14 days prior to construction activities, a preconstruction survey will be conducted within the biological study area by a qualified biologist to determine the presence or absence of woodrat middens.	Project Biologist	Notify Project Biologist no less than 14 days before construction activities are conducted.	Pre-Construction	No
Animal Species	AS-13: If woodrat middens are located during this survey, the qualified biologist will establish an environmentally sensitive area with a 25-foot buffer around each midden and no project activities requiring grading, mechanized equipment or vehicles, or large crews will be allowed within the 25-foot protective buffer.	Project Biologist	Project biologist will establish the ESA buffer if woodrat middens are located.	Pre-Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Animal Species	AS-14: If project activities cannot avoid impacting the middens, then a qualified biologist will dismantle the middens by hand prior to grading or vegetation removal activities. The midden dismantling will be conducted such that the midden material is slowly removed while the biologist looks for young woodrats. The material will be placed in a pile at the closest adjacent undisturbed habitat and more than 50 feet from construction activities.	Project Biologist	Project biologist will dismantle the middens if impacts are unavoidable.	Pre-Construction	No
Animal Species	AS-15: If young are encountered during midden dismantling, the dismantling activity will be stopped and the material replaced back on the nest and the nest will be left alone and rechecked in two to three weeks to see if the young are out of the nest or capable of being out on their own as determined by a qualified biologist; once the young can fend for themselves, the nest dismantling can continue.	Project Biologist	Project biologist will comply and follow up in two to three weeks.	Pre-Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Animal Species	AS-16: No more than 14 days prior to construction activities or any project activity likely to impact American badger, a preconstruction survey will be conducted for American badger. The survey will identify badger habitat features on the project site, evaluate use by badgers and, if possible, assess the potential impacts to the badger by the proposed activity. The status of all dens should be determined and mapped. Known dens, if found occurring within the biological study area, will be monitored for three days with a tracking medium to determine the current use. If no badger activity is observed during this period, the den will be destroyed immediately to preclude subsequent use. If badger activity is observed at the den during this period, the den will be monitored for at least five consecutive days from the time of the observation to allow any resident animal to move to another den during its normal activity. Only when the den is determined to be unoccupied will the den be excavated under the direction of the biologist.	Project Biologist	Notify Project Biologist no less than 14 days before construction activities are conducted. Biologist will conduct the appropriate survey.	Pre-Construction	No
Animal Species	AS-17: If the preconstruction and pre-activity survey reveals an active natal pupping den or new information regarding badger presence within 200 feet of the project boundary, a qualified biologist will immediately notify the California Department of Fish and Wildlife.	Project Biologist	Project Biologist will notify the California Department of Fish and Wildlife if active pupping den is discovered.	Pre-Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Animal Species	AS-18: Prior to ground breaking, a qualified biologist will conduct an environmental education and training session for all construction personnel. Prior to, during, and after the site disturbance and/or construction phase, use of pesticides or herbicides should comply with all federal, state, and local regulations. No rodent control pesticides will be used, including anticoagulant rodenticides such as brodifacoum, bromadiolone, difethialone and difenacoum. This is necessary to minimize the possibility of primary or secondary poisoning of American badgers or other special-status species.	Project Biologist	Notify Project Biologist prior to ground breaking. Biologist will conduct the environmental educational training.	Pre-Construction	No
Animal Species	AS-19: A litter control program will be instituted at each project site. No canine or feline pets or firearms (except for law enforcement officers and security personnel) will be permitted on construction sites to avoid harassment, killing, or injuring badgers.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison will ensure compliance of litter control program.	Construction	No
Threatened and Endangered Species	TES-1: Prior to construction, Caltrans will acquire incidental take authorization for the tidewater goby from U.S. Fish and Wildlife Service through a Federal Endangered Species Act Section 7 Biological Opinion and Incidental Take Statement.	Permit Coordinator	Permit Coordinator will ensure incidental take authorization is acquired.	Pre-Construction (Obtained on December 23, 2020)	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-2: Prior to initiation of the water management plan for Cañada del Refugio Creek, Caltrans will conduct an informal worker environmental training program including a description of the tidewater goby, its legal and protected status, proximity to the project site, avoidance and minimization measures to be implemented during the project, and the implications of violating the Federal Endangered Species Act and permit conditions.	Project Biologist	Notify Project Biologist prior to initiation of the water management plan. Biologist will conduct the informal training.	Pre-Construction	No
Threatened and Endangered Species	TES-3: If dewatering is required, any pumps used will be fitted with an anti-entrapment device to prevent tidewater gobies from being drawn into the pump or impinged on intake screening. Just prior to dewatering and just after dewatering, the U.S. Fish and Wildlife Service-approved biologist will remove by hand or net all tidewater gobies found within the dewatering area and relocate them to Refugio Lagoon downstream of the biological study area.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison will ensure compliance and use of the anti-entrapment device.	Construction	No
Threatened and Endangered Species	TES-4: A U.S. Fish and Wildlife Service-approved biologist will remain on-site and observe tidewater gobies and turbidity (murkiness) levels within the work areas during installation of a clear-water stream diversion system and dewatering (if needed) and will capture and relocate tidewater gobies to Refugio Lagoon as necessary.	Project Biologist	Project Biologist ensures compliance.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-5: Caltrans will provide the U.S. Fish and Wildlife Service a written summary of work performed (including biological survey and monitoring results), best management practices implemented (i.e., use of biological monitor, flagging of project areas, erosion and sedimentation controls) and supporting photographs. The documentation describing listed species surveys and relocation efforts (if appropriate) will include names of the U.S. Fish and Wildlife Service-approved biologists, location and description of area surveyed, time and date of survey, all survey methods used, a list and tally of all sensitive animal species observed during the survey, a description of the instructions and recommendations given to the applicant during the project, and a detailed discussion of capture and relocation efforts.	Project Biologist	Project Biologist ensures compliance and provides the U.S. Fish and Wildlife Service with the summary.	Post-Construction	No
Threatened and Endangered Species	TES-6: Prior to construction, Caltrans will acquire incidental take authorization for steelhead trout from National Marine Fisheries Service through a Federal Endangered Species Act Section 7 Biological Opinion and Incidental Take Statement.	Permit Coordinator	Permit Coordinator will ensure incidental take authorization is acquired.	Pre-Construction (obtained on January 27, 2021)	No
Threatened and Endangered Species	TES-7: Prior to implementation of a water management plan in Cañada del Refugio Creek, a qualified biologist will conduct an informal worker environmental training program including a description of steelhead trout, its legal and protected status, proximity to the project site, avoidance and minimization measures to be implemented during the project, and the implications of violating Federal Endangered Species Act and permit conditions.	Project Biologist	Project biologist will implement the informal training.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-8: During construction, in-stream work, including pile driving, will be limited to the low-flow period from June 1 and October 31 in any given year, when the surface water is likely to be at seasonal minimum and to avoid adult steelhead trout spawning migration and peak smolt migration. Deviations from this work window will only be made with permission from Caltrans and the relevant regulatory and resource agencies.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison ensure compliance.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-9: A qualified biologist will be retained with experience in steelhead trout biology and ecology, aquatic habitats, biological monitoring (including dewatering), and capturing, handling, and relocating fish species. The biological monitor will continuously monitor placement and removal of any creek diversion and dewatering system (if needed) to capture steelhead trout and other native fish species and relocate them to suitable habitat as appropriate. The monitor will capture steelhead trout in the biological study area just prior to installation of the stream diversion and any remaining stranded immediately after. Steelhead trout will be relocated to suitable habitat upstream of the work area, using methods approved by the appropriate regulatory agencies. This may include but will not necessarily be limited to: seine-netting, dip-netting, and providing aerated water in buckets for transport and ensuring adequate water temperatures during transport. The biologist will note the number of steelhead trout observed in the affected area, the number of steelhead trout captured and relocated, and the date and time of the collection and relocation.	Project Biologist	Project biologist ensures compliance.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-10: During in-stream work, if pumps are incorporated to assist in temporarily dewatering the site, intakes will be completely screened with no larger than 3/32-inch (2.38 mm) wire mesh to prevent steelhead trout, California red-legged frogs, and other sensitive aquatic species from entering the pump system. Pumped water will be released or pumped downstream at an appropriate rate to maintain downstream flows during construction, and prior to re-entering the stream will be directed through a silt filtration bag and/or into a settling basin to allow the suspended sediment to settle out. Upon completion of construction activities, any diversions or barriers to flow will be removed in a manner that would allow flow to resume with the least disturbance to the substrate. Alteration of the streambed will be minimized to the maximum extent possible; any imported material will be removed from the streambed upon completion of the project.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison ensure compliance if pumps are incorporated for dewatering.	Construction	No
Threatened and Endangered Species	TES-11: When the biological monitor is on-site, they will monitor erosion and sediment controls to identify and correct any conditions that could adversely affect steelhead trout or steelhead trout habitat. The biological monitor will be granted the authority to stop work activity as necessary and to recommend measures to avoid and minimize adverse effects to steelhead trout and steelhead trout habitat.	Project Biologist, Resident Engineer	Project Biologist will monitor erosion and sediment control. Resident Engineer will ensure that Biologist has authority to stop work activity.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-12: Caltrans will provide National Marine Fisheries Service a written summary of work performed (including biological survey and monitoring results), best management practices implemented (i.e., use of biological monitor, flagging of project areas, erosion and sedimentation controls) and supporting photographs. The documentation describing listed species surveys and relocation efforts (if appropriate) will include names of the Caltrans-approved biologists, location and description of area surveyed, time and date of survey, all survey methods used, a list and tally of all sensitive animal species observed during the survey, a description of the instructions and recommendations given to the applicant during the project, and a detailed discussion of capture and relocation efforts (if appropriate).	Project Biologist	Project Biologist will provide the National Marine Fisheries Service with this written summary.	Post-Construction	No
Threatened and Endangered Species	TES-13: Sound attenuating devices will be used during pile driving, if any feasible method is available for dry pile driving.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison ensure compliance onsite during pile driving.	Construction	No
Threatened and Endangered Species	TES-14: Vibration and oscillation of piles will be used to the greatest extent feasible to install piles and reduce the need for hammer driving.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison ensure compliance onsite during pile driving.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	Mitigation Measure TES-15: Remediate the partial fish passage barrier in the biological study area.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison ensure this is followed through with.	Post-Construction	Yes
Threatened and Endangered Species;	TES-16: Only U.S. Fish and Wildlife Service-approved biologists will participate in activities associated with the capture, handling, and monitoring of California red-legged frogs.	Project Biologist	Resident Engineer and Environmental Construction Liaison ensure biologist is U.S. Fish and Wildlife Service approved.	Construction	No
Threatened and Endangered Species	TES-17: Ground disturbance will not begin until written approval is received from the U.S. Fish and Wildlife Service that the biologist is qualified to conduct the work.	Project Biologist, Resident Engineer	Resident Engineer will notify Project Biologist prior to ground disturbance and ensure ground disturbance does not begin without written approval from the U.S. Fish and Wildlife Service. Biologist will obtain the written approval.	Pre-Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-18: A U.S. Fish and Wildlife Service-approved biologist will survey the project area no more than 48 hours before the onset of work activities. If any life stage of the California red-legged frog is found and these individuals are likely to be killed or injured by work activities, the approved biologist will be allowed enough time to move them from the site before work begins. The U.S. Fish and Wildlife Service-approved biologist will relocate the California red-legged frogs the shortest distance possible to a location that contains suitable habitat and will not be affected by the activities associated with the project. The relocation site will be in the same drainage to the extent practicable. Caltrans will coordinate with U.S. Fish and Wildlife Service on the relocation site prior to the capture of any California red-legged frogs.	Project Biologist, Resident Engineer	Resident Engineer will notify the project biologist no less than three days prior to before the onset of work activities. Biologist will conduct the appropriate surveys.	Pre-Construction	No
Threatened and Endangered Species	TES-19: Before any activities begin on a project, a U.S. Fish and Wildlife Service-approved biologist will conduct a training session for all construction personnel. At a minimum, the training will include a description of the California red-legged frog and its habitat, the specific measures that are being implemented to conserve the California red-legged frog for the current project, and the boundaries within which the project may be accomplished. Brochures, books, and briefings may be used in the training session, with a qualified person on hand to answer any questions.	Project Biologist, Resident Engineer	Resident Engineer will notify project biologist prior to beginning of any project activities. Biologist will conduct the training.	Pre-Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-20: A U.S. Fish and Wildlife Service-approved biologist will be present at the work site until all California red-legged frogs have been removed, workers have been instructed, and disturbance of habitat has been completed. After this time, Caltrans will designate a person to monitor on-site compliance with all minimization measures. The U.S. Fish and Wildlife Service-approved biologist will ensure this monitor receives the worker awareness training outlined in measure TES-19 and in the identification of California red-legged frogs. If the monitor or the U.S. Fish and Wildlife Service-approved biologist recommends that work be stopped because California red-legged frogs would be affected in a manner not expected by Caltrans and the U.S. Fish and Wildlife Service during review of the proposed action, they will notify the resident engineer immediately. The resident engineer will resolve the situation by requiring that all actions that are causing these effects be stopped. When work is stopped, U.S. Fish and Wildlife Service will be notified as soon as possible.	Project Biologist/Environmental Construction Liaison	Project Biologist will remain present at the project work site until all California red-legged frog are removed, and Environmental Construction Liaison will ensure compliance of all minimization measures afterward.	Construction	No
Threatened and Endangered Species	TES-21: Habitat contours will be returned to a natural configuration at the end of the project activities. This measure will be implemented in all areas disturbed by activities associated with the project, unless U.S. Fish and Wildlife Service and Caltrans determine that it is not feasible, or modification of original contours would benefit the California red-legged frog.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison ensure habitat contours are returned to natural configuration after project activities.	Post-Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-22: The number of access routes, size of staging areas, and the total area of activity will be limited to the minimum necessary to complete the project. Environmentally sensitive areas will be established to confine access routes and construction areas to the minimum area necessary to complete construction and minimize the impact to California red-legged frog habitat; this goal includes locating access routes and construction areas outside of wetlands and riparian areas to the maximum extent practicable.	Project Biologist, Resident Engineer	Project Biologist will establish the environmentally sensitive areas. Resident Engineer will ensure access routes and construction areas are confined to the minimum area necessary to complete construction.	Construction	No
Threatened and Endangered Species	TES-23: Caltrans will attempt to schedule work for times of the year when impacts to the California red-legged frog would be minimal. For example, work that would affect large pools that may support breeding would be avoided, to the maximum degree practicable, during the breeding season (November through May). Isolated pools that are important to maintain California red-legged frogs through the driest portions of the year would be avoided, to the maximum degree practicable, during the late summer and early fall. Habitat assessments, surveys, and technical assistance between Caltrans and the U.S. Fish and Wildlife Service during project planning will be used to assist in scheduling work activities to avoid sensitive habitats during key times of year.	Resident Engineer, Project Biologist	Resident Engineer and Project Biologist will work together to schedule work for times of the year when impacts to the California red-legged frog would be minimal to the maximum extent practical.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-24: To control sedimentation during and after project completion, Caltrans will implement best management practices outlined in any authorizations or permits issued under the authorities of the Clean Water Act received for the project. If best management practices are ineffective, Caltrans will attempt to remedy the situation immediately, in coordination with U.S. Fish and Wildlife Service.	Resident Engineer /Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison ensure that the applicable Best Management Practices are complied with onsite when needed.	Construction	No
Threatened and Endangered Species	TES-25: Unless approved by U.S. Fish and Wildlife Service, water will not be impounded in a manner that may attract California red-legged frogs.	Resident Engineer, Contractor	Resident Engineer will ensure there is no improper water impounding on site.	Construction	No
Threatened and Endangered Species	TES-26: A U.S. Fish and Wildlife Service-approved biologist will permanently remove any individuals of exotic species, such as bullfrogs (*Rana catesbeiana*), signal and red swamp crayfish (*Pacifasticus leniusculus; Procambarus clarkii*), and centrarchid fishes from the project area, to the maximum extent possible. The U.S. Fish and Wildlife Service-approved biologist will be responsible for ensuring his or her activities comply with the California Fish and Game Code.	Project Biologist	Project Biologist will remove of any exotic species from the project site properly.	Construction	No
Threatened and Endangered Species	TES-27: If Caltrans demonstrates that disturbed areas have been restored to conditions that allow them to function as habitat for the California red-legged frog, these areas will not be included in the amount of total habitat permanently disturbed.	Project Biologist	Project Biologist will calculate the permanently damaged habitat correctly and accordingly.	Post-Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-28: To ensure that diseases are not conveyed between work sites by the U.S. Fish and Wildlife Service-approved biologist, the fieldwork code of practice developed by the Declining Amphibian Task Force will always be followed.	Resident Engineer, Environmental Construction Liaison	Resident Engineer, Environmental Construction Liaison will ensure compliance on site.	Construction	No
Threatened and Endangered Species	TES-29: Project sites will be revegetated with an assemblage of native riparian and upland vegetation suitable for the area. Locally collected plant materials will be used as much as practicable. Invasive, exotic plants will be controlled to the maximum extent practicable. This measure will be implemented in all areas disturbed by activities associated with the project, unless U.S. Fish and Wildlife Service and Caltrans determine that it is not feasible or practical.	Resident Engineer, Project Biologist	Project Biologist will ensure revegetation is done properly.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-30: Caltrans will not use herbicides as the primary method to control invasive, exotic plants. However, if it is determined that the use of herbicides is the only feasible method for controlling invasive plants at a specific project site, it will implement additional protective measures for the California red-legged frog. Application of all herbicides will be done by qualified Caltrans staff or contractors to ensure that overspray is minimized, that all applications are made in accordance with the label recommendations, and with implementation of all required and reasonable safety measures. A safe dye will be added to the mixture to visually denote treated sites. Application of herbicides will be consistent with the U.S Environmental Protection Agency's Office of Pesticide Programs, Endangered Species Protection Program county bulletins. All herbicides, fuels, lubricants, and equipment will be stored, poured, or refilled at least 60 feet from riparian habitat or water bodies in a location where a spill would not drain directly toward aquatic habitat, unless otherwise preapproved by the necessary agencies. Prior to the onset of work, Caltrans will ensure that a plan is in place for a prompt and effective response to accidental spills. All workers will be informed of the importance of preventing spills and of the appropriate measures to take should a spill occur.	Resident Engineer, Environmental Construction Liaison	If the use of herbicides is deemed completely necessary, then the Resident Engineer and Environmental Construction Liaison will ensure that the listed measures will be complied with to ensure protection for the California red-legged frog.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-31: Prior to initiation of a water management strategy in Cañada del Refugio Creek, Caltrans will conduct an informal worker environmental training program including a description of foothill yellow-legged frog, their legal and protected status, proximity to the project site, and avoidance and minimization measures to be implemented during the project.	Resident Engineer, Project Biologist	Resident Engineer will notify the Project Biologist prior to initiation of the water management strategy. Biologist will conduct the informal training.	Construction	No
Threatened and Endangered Species	TES-32: In the unlikely event that foothill yellow-legged frogs are observed during preconstruction surveys or construction monitoring, all in-stream project activities will stop immediately, and Caltrans will contact California Department of Fish and Wildlife within 48 hours to determine if a Section 2081 Incidental Take Permit is necessary.	Resident Engineer, Project Biologist	If foothill yellow-legged frogs are discovered, Resident Engineer will stop all in-stream project activities immediately, and the Project Biologist will contact the California Department of Fish and Wildlife within 48 hours	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Threatened and Endangered Species	TES-33: If least Bell's vireos and/or southwestern willow flycatchers are observed within 100 feet of the biological study area during construction, a qualified biologist will implement an exclusion zone and work will be avoided within the exclusion zone until the least Bell's vireo and/or southwestern willow flycatcher is located greater than 100 feet from project-related disturbance. If an active least Bell's vireo and/or southwestern willow flycatcher nest is observed within 100 feet of the biological study area, all project activities will stop immediately, and Caltrans will contact U.S. Fish and Wildlife Service and California Department of Fish and Wildlife within 48 hours. If required, Caltrans will then initiate the Federal Endangered Species Act Section 7 formal consultation with U.S. Fish and Wildlife Service and California Endangered Species Act coordination for the least Bell's vireo and/or southwestern willow flycatcher and implement additional measures as necessary.	Resident Engineer, Project Biologist	If the mentioned species are discovered within 100 feet of the biological study area, Resident Engineer will notify Project Biologist and stop work immediately. Biologist will contact the U.S. Fish and Wildlife Service and California Department of Fish and Wildlife within 48 hours.	Construction	No
Invasive Species	IS-1: Only clean fill will be imported. When practicable, invasive exotic plants in the project site will be removed and properly disposed. All vegetation removed from the construction site will be taken to a landfill to prevent the spread of invasive species. If soil from weedy areas must be moved off-site, the top six inches containing the seed layer in areas with weedy species will be disposed of at a landfill.	Resident Engineer, Environmental Construction Liaison	Import clean fill; remove invasive species; follow protocols for disposal.	Construction	No

Category	Task and Brief Description	Responsible Branch/Staff	Action to Comply	Project Timing	Mitigation for significant impacts under CEQA?
Invasive Species	IS-2: Invasive species listed in the California Invasive Plant Council's online California Invasive Plant Inventory Database will not be included in the Caltrans erosion control seed mix or landscaping planting plans.	Project Biologist/Project Landscape Architect	Project Biologist and Project Landscape Architect will work together to ensure that the seed mix and landscaping planting plans will not contain invasive species.	Pre-Construction	No
Invasive Species	IS-3: The contract specifications for permanent erosion control will require the use of regionally appropriate California native forb and grass species that occur in the same general geographic area as the project site.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison ensure that contract specifications regarding erosion control are followed.	Construction	No
Invasive Species	IS-4: Mulches used on the project will be from source materials that will not introduce exotic species.	Resident Engineer, Environmental Construction Liaison	Resident Engineer and Environmental Construction Liaison ensure proper mulches are used on the project.	Construction	No