



**California Department of Fish and Wildlife  
Central Region  
1234 EAST SHAW AVENUE  
FRESNO, CALIFORNIA 93710**

California Endangered Species Act  
Incidental Take Permit No. 2081-2024-052-04

**FRESNO 168 CULVERT REHABILITATION PROJECT (PROJECT)  
CALTRANS EA 06-0X220**

**I. Authority:**

This California Endangered Species Act (CESA) incidental take permit (ITP) is issued by the California Department of Fish and Wildlife (CDFW) pursuant to Fish and Game Code section 2081, subdivisions (b) and (c), and California Code of Regulations, Title 14, section 783.0 et seq. CESA prohibits the take<sup>1</sup> of any species of wildlife designated by the California Fish and Game Commission as an endangered, threatened, or candidate species.<sup>2</sup> However, CDFW may authorize the take of any such species by permit pursuant to the conditions set forth in Fish and Game Code section 2081, subdivisions (b) and (c). (See Cal. Code Regs., tit. 14, § 783.4.)

<b>Permittee:</b>	<b>California Department of Transportation (Caltrans)</b>
<b>Principal Officer:</b>	<b>Dena Gonzalez, Biology Branch Chief</b>
<b>Contact Person:</b>	<b>Tamra Nunes, (559) 383-5814</b>
<b>Mailing Address:</b>	<b>2015 East Shields Avenue, Suite 100 Fresno, California 93726</b>

**II. Effective Date and Expiration Date of this ITP:**

This ITP is effective as of the date signed by CDFW below. Unless renewed by CDFW, this ITP and its authorization to take the Covered Species shall expire on **December 31, 2029**.

Notwithstanding the expiration date on the take authorization provided by this ITP, Permittee's obligations pursuant to this ITP do not end until CDFW accepts as complete the Permittee's Final Mitigation Report required by Condition of Approval 6.12 of this ITP.

**III. Project Location:**

The Fresno 168 Culvert Rehabilitation Project (Project) is located on State Route (SR) 168 between post miles (PM) 15.40 and 45.8 in Fresno County (see Figure 1). The Project occurs at 122 discrete locations in portions of the following locations in the Mount Diablo Baseline and Meridian of the Public Land Survey System:

- Township 9 South, Range 24 East, in portions of Sections 26 and 35 (Shaver Lake, California, USGS quad map);

<sup>1</sup>Pursuant to Fish and Game Code section 86, "'take' means hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." (See also *Environmental Protection Information Center v. California Department of Forestry and Fire Protection* (2008) 44 Cal.4th 459, 507 [for purposes of incidental take permitting under Fish and Game Code section 2081, subdivision (b), "'take' ... means to catch, capture or kill".])

<sup>2</sup>The definition of an endangered, threatened, and candidate species for purposes of CESA are found in Fish and Game Code sections 2062, 2067, and 2068, respectively.

- Township 10 South, Range 22 East, in portions of Sections 25, 35 and 36 (Millerton Lake East, California, USGS quad map);
- Township 10 South, Range 23 East, in portions of Sections 15, 16, 19, 20, 24, and 30 (Millerton Lake East and Auberry, California USGS quad maps);
- Township 10 South, Range 24 East, in portions of Sections 2, 3, 9, 10, 16, 17, 18, 19 and 23 (Shaver Lake and Auberry, California USGS quad maps);
- Township 11 South, Range 22 East, in portions of Sections 1, 2, 11, and 12 (Millerton Lake East and Academy, California USGS quad maps);
- Township 12 South, Range 21 East, in portions of Sections 32, 33, 34 and 35 (Clovis, California USGS quad maps); and
- Township 12 South, Range 22 East, in portions of Sections 12, 13, 14, 22 and 30 (Academy and Round Mountain, California USGS quad maps).

The areas where work will occur within the 122 culvert locations, adjacent access areas, and the five staging areas will be collectively referred to as the overall “Project Area” throughout this ITP. A discrete culvert location will be referred to as “work area(s)” throughout this ITP. The southern end of the Project is located at the intersection of SR 168 and North Academy Avenue in Clovis, at Latitude 36.873839, and Longitude -119.557239. The northern end of the Project is located approximately 0.8 miles north of the intersection of SR 168 and Dinkey Creek Rd in Shaver Lake, at Latitude 37.112736, and Longitude -119.32075.

#### **IV. Project Description:**

The Project involves replacement and rehabilitation of 131 existing culverts and the stabilization of the road embankment over four existing and/or repaired culverts at a total of 122 discrete locations within a 30-mile section of SR 168 (several locations involve two or more culverts). Project activities include: removing and replacing existing right-of-way (ROW) fencing in areas where work may occur outside of the ROW; vegetation clearing and grubbing (removal of roots) prior to culvert activities; culvert repair and replacement; relocating underground utility lines; replacing or adding concrete headwalls, flared end sections, drainage inlets, and/or rock slope (RSP) protection pads associated with culvert replacements; stabilizing embankments with fiber rolls; regrading existing roadside ditches adjacent to culvert work areas; and restoring and revegetating temporary disturbance areas. When removed, ROW fence will be removed and replaced in-kind.

Project activities will take three to six days at each location, with work occurring in multiple areas simultaneously, for a total of approximately 200 working days. Night work may occur at 51 locations within the ranges of PM 15.40 through PM 16.35, PM R28.94 through PM T32.59, PM R36.25 through PM 43.71, and PM 44.45 through PM 45.80.

#### **Culvert Repair and Replacement Activities:**

A total of 75 culverts will be replaced at the following 69 locations: PMs 15.40, 15.76, 15.91, 16.01, 16.21, 16.35, 17.15, 17.21, 17.30, 17.49, 17.67, 17.72, 17.86, T25.68, T25.81, R26.00, R26.06, T26.48, T26.62, T26.66, T26.77, T26.94, T27.08, T27.34, T27.43, T27.53, T27.63, T27.79, T27.85, T28.11, T28.29, T28.40, L28.63, L28.75, R28.94, R28.98, L30.56,

L30.63, T30.66, T31.38, T31.67, T31.74, T31.81, T31.89, T32.07, T32.17, R33.26, R33.50, R33.88, R33.99, R34.14, R34.23, R34.32, R34.37, 39.58, 40.23, 40.30, 41.25, 41.86, 42.04, 42.42, 42.44, R42.96, 44.02, 44.45, 44.85, 45.14, 45.44, and 45.5. All culvert replacements will be completed using the “cut and cover” method, where the culvert is excavated and removed, replaced, and then the trench backfilled, within one traffic lane at a time. When work is not taking place but is incomplete, the trench will be covered with a steel plate to allow traffic movement over the Project Area.

A total of 55 culverts will be repaired at the following 52 locations: PMs T26.86, L28.52, L28.83, L29.03, L29.69, R30.08, L30.77, L30.79, L30.82, L31.04, L31.09, L31.23, L31.35, L31.38, L31.50, L31.60, T32.59, L32.78, R32.72, R32.82, R32.96, R33.00, R33.65, R33.79, R33.83, R34.09, R34.40, R34.74, R34.92, R34.99, R35.05, R35.12, R35.18, R35.46, R35.54, R35.60, R35.84, R35.89, R35.95, R35.98, R36.16, R36.25, 39.51, 39.63, 40.45, 40.65, 41.55, 42.42, 42.81, 43.71, 45.5, and 45.8. The repairs will be completed by lining the barrel or just the invert (bottom of the culvert) with concrete slurry. In addition to these repairs, one culvert will be abandoned in place, whereby the existing “stove pipe” type culvert at PM T28.11 will be filled entirely with concrete slurry. A total of 5 cubic yards of concrete slurry will be used throughout the entire Project. Also, in addition to these repairs, the road embankments will be stabilized at four locations (PMs T32.59, 42.55, R42.90 and R43.30) over and adjacent to existing culverts. Location T32.59 also has a culvert repair.

RSP will be added to the inlet and/or outlet of the culverts at the following 31 locations: PMs 15.40, 15.76, 15.91, 16.01, 16.21, 16.35, 17.49, 17.86, T25.81, R26.06, T27.79, T31.38, T31.81, T32.07, L28.63, L28.75, L30.56, R33.50, R33.88, R33.99, R34.14, R34.23, R34.37, 40.30, 41.86, 42.04, 42.44, R42.96, 44.02, 44.85 and 45.50. The new RSP pads will be excavated to a depth of 2 to 3.5 feet (depending on rock size) with filter cloth placed along the bottom and sides of the pits. RSP will be placed on top of the filter cloth up to the level of the bottom of the new culvert outlet or flared end section.

### Other Project Activities

Construction equipment parking and staging areas will be located at existing vehicle pullout areas within the highway ROW and are a mix of gravel and paved surfaces, heavily compacted, and non-vegetated, at the following six locations: a 0.3-acre pullout off the eastbound lane just southwest of Academy Oaks Lane at PM 17.03; two pullouts totaling 0.57 acres on either side of the highway at the Sample Road intersection at PM 18.52; one 4.29-acre pullout off the westbound lane starting at PM L27.39 and ending at PM L28.00; one 2.88-acre lot just south of the turnabout at the Auberry Road intersection at PM T30.19; and one 0.35-acre pullout off the westbound lane just north of Cressman Road at PM 39.85. Workers will generally access the work areas from the roadway using cranes and/or long reach excavators for culvert replacement, but may also drive equipment along the road shoulder to the work area when too far from the road. For culvert lining, workers will clear a small walking path to the culvert openings. Work vehicles may be driven and parked in the road shoulder adjacent to the work areas.

Prior to culvert repair or replacement commencing, vegetation will be cleared and grubbed from the work limits as necessary, and trees will be trimmed and/or removed at eight of the work areas listed above (PMs T26.94, T32.07, T32.17, L28.75, L28.83, R33.50, 42.42 and 44.02). Also prior to culvert activities, existing underground utility lines subject to disruption resulting from culvert excavation activities will be relocated 12 to 18 inches below the culverts using horizontal directional drilling methods. Site restoration will take place upon completion of culvert rehabilitation activities, and will include recontouring temporarily disturbed areas to match adjacent topography, reseeding (hydroseed), and application of compost, hydro mulch, fiber rolls, and/or rolled erosion control netting.

**V. Covered Species Subject to Take Authorization Provided by this ITP:**

This ITP covers the following species:

<u>Name</u>	<u>CESA Status</u> <sup>3</sup>
1. Crotch’s bumble bee ( <i>Bombus crotchii</i> )	Candidate <sup>4</sup>
2. California tiger salamander ( <i>Ambystoma californiense</i> )	Threatened <sup>5</sup>
3. Tree-anemone ( <i>Carpenteria californica</i> )	Threatened <sup>6</sup>

These species, and only these species, are the “Covered Species” for the purposes of this ITP.

**VI. Impacts of the Taking on Covered Species:**

Project activities and their impacts are expected to result in the incidental take of individuals of the Covered Species. The activities described above are expected to result in incidental take of individuals of the Covered Species include the following: clearing and grubbing to remove vegetation (including trees and woody plants); soil grading; leveling (cut or fill); compacting soil; excavating and trenching for fence replacement, culvert replacement and relocation; pouring concrete; temporarily storing materials, vehicles and equipment; transporting construction materials and other project-related traffic; trash and debris removal; seeding; and mortality reduction activities as specified in this ITP (Covered Activities). The areas where authorized take of the Covered Species is expected to occur include the 122 culvert work areas, adjacent access areas, and the five staging areas described above.

*Crotch’s Bumble Bee (CBB):*

Incidental take of individuals of CBB in the form of mortality (“kill”) may occur as a result of Covered Activities such as vehicle or equipment strikes; nest collapse associated with vehicle or equipment parking or storage, vegetation removal, grading, excavating; crushing or suffocation by heavy equipment or laydown of equipment and materials; entombment from deposition of soil over occupied nests; and entrapment and desiccation within trenches, open

<sup>3</sup> Under CESA, a species may be on the list of endangered species, the list of threatened species, or the list of candidate species.

<sup>4</sup> The species status may change following the decision of the Fish and Game Commission to designate the species as threatened or endangered but if there is such a designation, the species will remain a Covered Species.

<sup>5</sup> See Cal. Code Regs. tit. 14 § 670.5, subd. (b)(3)(G).

<sup>6</sup> See Cal. Code Regs. tit. 14 § 670.2, subd. (b)(7)(A).



pipes, and uncovered excavations. Incidental take of individuals of CBB may also occur from the Covered Activities in the form of pursue, catch, capture, or attempt to do so from the uncovering through the excavation of burrow systems, and if individuals of CBB are salvaged, collected, and relocated or translocated out of harm's way as required by this ITP. Take of the Covered Species is only authorized and expected to occur in the Project Area and only as a result of Covered Activities. The areas where authorized take of CBB is expected to occur are located within and directly adjacent to the ROW on SR 168 at 109 culvert locations (PMs T25.68 to 45.8) and three staging area locations (PMs 30.19, L27.39 to L28.00, and 38.95) (see Figures 2 and 3).

The Project is expected to result in the permanent loss of approximately 0.04 acres and temporary disturbance to approximately 8.29 acres of potential CBB foraging and nesting habitat. Permanent impacts will result from placement of RSP and new culvert end treatments. Temporary impacts will result from using and storing materials, vehicles, and equipment; off-road equipment access; foot traffic; vegetation removal; and site restoration. Impacts of the authorized taking also include adverse impacts to the Covered Species related to temporal losses, increased habitat fragmentation and edge effects, and the Project's incremental contribution to cumulative impacts (indirect impacts). These impacts include introduction or spread of invasive species; increased risk of exposure and desiccation; stress resulting from noise, vibrations, capture, and relocation; displacement from preferred habitat; loss of nesting habitat; increased competition for food and space; and increased vulnerability to predation.

*California Tiger Salamander (CTS):*

Incidental take of individuals of CTS in the form of mortality ("kill") may occur as a result Covered Activities such as vehicle or equipment strikes, through collapse or excavation of occupied burrows that results in crushing, suffocation, or entombment of underground individuals during grading and compaction, deposition of stockpiled material or spoils over occupied burrows, and/or the capture or entrapment in holes, burrows, or trenches as the result of excavation of burrow systems. Incidental take of CTS may also occur from the Covered Activities in the form of pursuit, catch, capture, or attempt to do so through entrapment within barrier fencing constructed within the Project Area, or during capture and relocation of CTS out of harm's way as required by this ITP.

The areas where authorized take of CTS is expected to occur are located within and directly adjacent to the ROW on SR 168 at 33 culvert work locations (PMs 15.40 to 28.40) and three staging area locations (one at PM 17.03 and two at PM 18.52) (see Figures 2 and 3). Project Area habitat conditions for CTS consist of non-native grasslands and ruderal vegetation that is routinely mowed/maintained, patches of ground squirrel and other small mammal burrows, and ephemeral streams/wetlands that are not ponded for long enough to provide breeding conditions for CTS. CTS may utilize these areas for dispersal, cover and refugia (including burrows), and/or foraging.

The Project is expected to result in the permanent loss of approximately 0.017 acres and temporary disturbance to approximately 1.19 acres of upland habitat for CTS. Permanent impacts will result from placement of RSP and new culvert end treatments. Temporary impacts will result from using and storing materials, vehicles, and equipment; off-road equipment access; foot traffic; and vegetation removal. The Project is not expected to impact breeding habitat. Impacts of the authorized taking also include adverse impacts to the Covered Species related to temporal losses, increased habitat fragmentation and edge effects, and the Project's incremental contribution to cumulative impacts (indirect impacts). These indirect impacts include introduction or spread of invasive species; increased risk of exposure and desiccation along wildlife exclusion fencing; stress resulting from noise, vibrations, capture, and relocation; displacement from preferred habitat; loss of burrowing habitat used for shelter and cover; increased competition for food and space; and increased vulnerability to predation.

*Tree-anemone (TRAN):*

Incidental take of individuals of TRAN in the form of mortality ("kill") may occur as a result of Covered Activities such as clearing, grubbing, vegetation removal, excavating, cut and fill, trenching, backfilling, soil compaction, fine and rough grading, paving, dust control, vehicle traffic, foot traffic, slope stabilization, erosion control, and seeding. Additionally, the TRAN seeds within the soil surrounding TRAN plants (seedbank) within the Project Area may be removed or destroyed by initial ground disturbing activities, compaction, and trampling by construction vehicles and workers.

The areas where authorized take of TRAN is expected to occur are located within and directly adjacent to the ROW on SR 168 at 34 culvert work area locations listed above between PMs L29.03 and R34.92 (see Figure 2). The Project is expected to result in the permanent loss of up to 0.015 acres of TRAN seedbank. Additionally, the Project will result in the permanent loss of up to 0.174 acres of TRAN plants due to individuals being removed, and temporary disturbance of up to 0.087 acres of TRAN plants due to individuals being trimmed.

## **VII. Incidental Take Authorization of Covered Species:**

This ITP authorizes incidental take of the Covered Species and only the Covered Species. With respect to incidental take of the Covered Species, CDFW authorizes the Permittee, its employees, contractors, and agents to take Covered Species incidentally in carrying out the Covered Activities, subject to the limitations described in this section and the Conditions of Approval identified below. This ITP does not authorize take of Covered Species from activities outside the scope of the Covered Activities, take of Covered Species outside of the Project Area, take of Covered Species resulting from violation of this ITP, or intentional take of Covered Species except for capture and relocation of Covered Species as authorized by this ITP.

## **VIII. Conditions of Approval:**

Unless specified otherwise, the following measures apply to all Covered Activities within the Project Area, including areas used for vehicular ingress and egress, staging and parking, and

noise and vibration generating activities that may cause take. CDFW's issuance of this ITP and Permittee's authorization to take the Covered Species are subject to Permittee's compliance with and implementation of the following Conditions of Approval:

1. **Legal Compliance:** Permittee shall comply with all applicable federal, state, and local laws in existence on the effective date of this ITP or adopted thereafter.
2. **California Environmental Quality Act (CEQA) Compliance:** Permittee shall implement and adhere to the mitigation measures related to the Covered Species in the Biological Resources section of the Initial Study with Mitigated Negative Declaration (SCH No. 2023020102 adopted by Caltrans District 6 on May 12, 2023, as lead agency for the Project pursuant to the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.).
3. **LSA and RMA Compliance:** Permittee shall implement and adhere to the mitigation measures and conditions related to the Covered Species in the Lake and Streambed Alteration Agreements (Notification Nos. EPIMS-FRE-49428-R4 and 1600-2018-0137-R4) for the Project executed by CDFW pursuant to Fish and Game Code section 1600 et seq.
4. **ITP Time Frame Compliance:** Permittee shall fully implement and adhere to the conditions of this ITP within the time frames set forth below and as set forth in the Mitigation Monitoring and Reporting Program (MMRP), which is included as Attachment 1 to this ITP.
5. **General Provisions:**
  - 5.1. Designated Representative. Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with this ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of this ITP.
  - 5.2. Designated Biologist(s) and Designated Monitor(s). Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of the Designated Biologist(s) and Designated Monitor(s) using the Biologist Resume Form (Attachment 2) or another format containing the same information at least 30 days before starting Covered Activities. The Permittee may request approval of Designated Biologist(s) to monitor and handle specific Covered Species covered by this ITP. The Designated Monitor(s) may assist the Designated Biologist(s) in compliance monitoring under the direct supervision of the Designated Biologist(s) and as specified in the Compliance Monitoring Condition of Approval. Permittee shall ensure that the Designated Biologist(s) are knowledgeable in the biology and natural history of the Covered Species, enforcing

no-disturbance buffers, and monitoring construction activities. Designated Biologists for CBB shall have completed the Bumble Bee Atlas training on *Ecology and Conservation of Bumble Bees* and *Survey Protocol and Species Identification* for California, and experience surveying, collecting, and identifying bumble bees in California. Designated Biologists for CTS shall also have experience with collecting and handling CTS, excavating small mammal burrows for CTS, and monitoring construction activities under an ITP for CTS. Designated Biologists for TRAN shall also have survey and/or monitoring experience with TRAN. Permittee shall ensure that the Designated Monitor(s) are knowledgeable and experienced in the biology and natural history of the Covered Species. The Designated Biologist(s) and Designated Monitor(s) shall be responsible for monitoring Covered Activities to help minimize and fully mitigate or avoid the incidental take of individual Covered Species and to minimize disturbance of Covered Species' habitat. Permittee shall obtain CDFW approval of the Designated Biologist(s) and Designated Monitor(s) in writing before starting Covered Activities, and shall also obtain approval in advance, in writing, if the Designated Biologist(s) or Designated Monitor(s) must be changed.

- 5.3.** Designated Biologist(s) and Designated Monitor(s) Authority. To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist(s) and Designated Monitor(s) shall immediately stop any activity that does not comply with this ITP and/or order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species. Permittee shall provide unfettered access to the Project Area and otherwise facilitate Designated Biologist(s) and Designated Monitor(s) in the performance of their duties. If the Designated Biologist(s) or Designated Monitor(s) is unable to comply with the ITP, then they shall notify the CDFW Representative immediately. Permittee shall not enter into any agreement or contract of any kind, including but not limited to non-disclosure agreements and confidentiality agreements, with its contractors and/or the Designated Biologist(s) that prohibit or impede open communication with CDFW, including but not limited to providing CDFW staff with the results of any surveys, reports, or studies or notifying CDFW of any non-compliance or take. Failure to notify CDFW of any noncompliance, take, injury or damage of a Covered Species because of such agreement or contract may result in CDFW taking actions to prevent or remedy a violation of this ITP.
- 5.4.** Education Program. Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before they are authorized to perform any work. The program shall consist of a presentation from the Designated Biologist(s) for the Covered Species included in this ITP, that includes a discussion of the biology and general behavior of the Covered Species, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and project-specific protective measures described in this ITP. Permittee shall provide interpretation for non-English

speaking workers, and the same instruction shall be provided to any new workers before they are authorized to perform work in the Project Area. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees that will be conducting work in the Project Area.

- 5.5. Construction Monitoring Documentation.** The Designated Biologist(s) and Designated Monitor(s) shall maintain construction-monitoring documentation on-site in either hard copy or digital format throughout the construction period, which shall include a copy of this ITP with attachments and a list of signatures of all personnel who have successfully completed the education program. Permittee shall ensure a copy of the construction-monitoring documentation is available for review at the Project Area upon request by CDFW.
- 5.6. Trash Abatement.** Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed, ideally at daily intervals but at least once a week, to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.
- 5.7. Dust Control.** Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist(s). Permittee shall keep the amount of water used to the minimum amount needed and shall not allow water to form puddles. Permittee shall not apply dust suppressant, surfactant, soil binders, or stabilizer products that may be harmful to Covered Species. Permittee shall obtain written approval from CDFW before applying any dust suppressant (other than water), surfactant, soil binders, stabilizer products, hydro-mulch, or hydroseed. Permittee shall provide all available documentation of each product's safety or hazards to wildlife to CDFW with any such request for approval.
- 5.8. Erosion Control Materials.** Permittee shall prohibit use of erosion control materials that are potentially harmful to Covered Species and other species, such as monofilament netting, photodegradable mesh (erosion control matting) in potential Covered Species' habitat.
- 5.9. Delineation of Work Area Boundaries.** Before starting Covered Activities within each discrete part of the Project Area, including parking, staging, and equipment storage areas (work area), Permittee shall clearly delineate the boundaries of the work areas. The boundary of each work area shall be delineated with stakes, fencing, and/or flags and shall be maintained with signage until the completion of Covered Activities in that area.

- 5.10. Pesticide Use.** Permittee shall not use pesticides, including herbicides, insecticides, or rodenticides within the Project Area without prior consultation with and written approval from CDFW. Through this consultation, CDFW may approve limited use of herbicides through targeted spray (e.g., backpack sprayer) at a buffer from Covered Species habitat. If approved, all pesticide application should be conducted by a Licensed and Certified Pesticide Applicator and used as directed by the manufacturer. Use of neonicotinoid pesticides will not be approved by CDFW within the Project Area.

Permittee shall avoid spraying herbicides on plants that are in bloom to minimize direct or indirect contact with CBB, unless otherwise approved by CDFW in writing. These plants may serve as obligatory resources that a CBB individual or colony is reliant upon. Instead, the Permittee shall target other vegetive phases when the chemicals are most effective as recommended by the manufacturer. Pesticides shall be applied directly to the targeted pest or site, and always according to the label. Appropriate weather conditions and other applications of best management practices, as well as label precautions, shall always be followed.

- 5.11. Fertilizers.** Permittee shall not use fertilizers (or any similar soil additives, hereby referred to as "fertilizer") within the Project Area, unless Permittee requests and receives a written approval from CDFW. To request written approval for fertilizer application, no less than 60 days prior to the proposed application, Permittee shall submit to CDFW for review and approval a Fertilizer Application Plan. The Fertilizer Application Plan will detail the type of fertilizer proposed to be used, method of application, amount of fertilizer to be used, spatial extent and timing of proposed application, impacts assessment of application specific to CBB, measures to reduce impacts to CBB, and justification for need of fertilizer application.
- 5.12. Delineation of Habitat.** Before starting Covered Activities at any work area, Permittee shall clearly delineate habitat of the Covered Species within the work area with posted signs, posting stakes, flags, and/or rope or cord, and place fencing as necessary to minimize the disturbance of Covered Species' habitat. Permittee shall restrict all Covered Activities to within the fenced, staked, or flagged work areas. Permittee shall maintain all fencing, stakes, and flags until the completion of Covered Activities in each work area.
- 5.13. Project Access.** Project-related personnel shall access the Project Area for any Covered Activities using existing routes and shall not cross Covered Species' habitat outside of, or en route to the Project Area. Permittee shall restrict Project-related vehicle traffic to established roads, staging areas, and parking areas as per the Staging Areas Condition of Approval. Permittee shall ensure that vehicle speeds do not exceed 15 miles per hour to avoid Covered Species on or traversing the roads. If Permittee determines construction of routes for travel is necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before conducting such an activity. CDFW may require

an amendment to this ITP, among other reasons, if additional take of Covered Species will occur because of the Project modification.

- 5.14. Staging Areas.** Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the disturbance areas described in the Project Description. If Permittee determines parking, storage, laydown, or staging areas are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur because of the Project modification.
- 5.15. Hazardous Waste.** Permittee shall immediately stop and, pursuant to pertinent state and federal statutes and regulations, arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area, and shall properly contain and dispose of any unused or leftover hazardous products off-site.
- 5.16. CDFW Access.** Permittee shall provide CDFW staff with reasonable access to the Project and shall otherwise fully cooperate with CDFW efforts to verify compliance with or effectiveness of mitigation measures set forth in this ITP.
- 5.17. Refuse Removal.** Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all temporary fill and construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.
- 5.18. Wildfire Avoidance.** Permittee or Permittee's contractors shall minimize the potential for human-caused wildfires by carrying water or fire extinguishers and shovels in all Project-related vehicles and equipment. The use of shields, protective mats, or use of other fire preventative methods shall be used during grinding and welding to minimize the potential for fire. Personnel shall be trained regarding the fire hazard for wildlife as part of the worker education program described in the Education Program Condition of Approval.

## **6. Monitoring, Notification and Reporting Provisions:**

- 6.1. Notification Before Commencement.** The Designated Representative shall notify CDFW at least 14 calendar days before starting Covered Activities and at least 14 days before recommencing Covered Activities after any break in construction activities lasting more than 30 days and shall document compliance with all pre-Project Conditions of Approval before starting or recommencing Covered Activities.

- 6.2. Notification of Non-compliance.** The Designated Representative, Designated Biologist(s) and Designated Monitor(s) shall immediately notify CDFW if the Permittee is not in compliance with any Condition of Approval of this ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in this ITP and/or the MMRP. The Designated Representative shall follow up within 24 hours with a written report to CDFW describing, in detail, any non-compliance with this ITP and suggested measures to remedy the situation.
- 6.3. Pre-Activity Survey Reports.** Prior to starting Covered Activities at each work area, Permittee shall prepare and submit to CDFW the results of pre-activity surveys and maps (according to the CBB Pre-Activity Clearance Surveys, Identification of CBB Nests, CTS Pre-Activity Clearance Surveys, Flag and Map CTS Burrows and Crevices, and TRAN Pre-Activity Clearance Surveys Conditions of Approval).
- 6.4. Compliance Monitoring.** A Designated Biologist shall be on-site for the duration of Covered Activities (including night-work), unless otherwise approved by CDFW in writing. When certain Covered Activities have been approved without daily monitoring, a Designated Biologist or Designated Monitor shall conduct compliance inspections at least twice per week during all Covered Activities. During Covered Activities, at least one Designated Biologist shall be available to respond to the Project Area within one hour of being contacted to address all Covered Species needs and any other issues that may arise during implementation of this ITP. The Designated Biologist(s) and Designated Monitor(s) shall conduct compliance inspections to: (1) minimize incidental take of the Covered Species; (2) prevent unlawful take of species; (3) check for compliance with all measures of this ITP; (4) document Covered Activities observed; (5) ensure that signs, stakes, and fencing are intact; and (6) ensure that Covered Activities are only occurring in the Project Area. The Designated Biologist(s) and Designated Monitor(s) shall prepare written observation, inspection records, and photographic documentation summarizing oversight activities and compliance inspections, observations of all Covered Species and their sign, survey results, and monitoring activities required by this ITP. Written observations, inspection records, and photographic documentation shall be provided to CDFW upon request.
- 6.5. Covered Species Observations and Notification.** During all Covered Activities, workers shall inform a Designated Biologist if an individual of CBB or CTS is observed in the Project Area. All work in the vicinity of the observed Covered Species, which could injure or kill the animal, shall cease immediately until the Covered Species moves from the Project Area of its own accord or until the Designated Biologist(s) have relocated the Covered Species following the CDFW-approved relocation plan (as per the CTS Mortality Reduction and Relocation Plan and CBB Mortality Reduction and Relocation Plan Conditions of Approval). Permittee shall notify the Regional Representative identified in the Monthly Compliance Reports Condition of Approval within 24 hours if an active



CBB nest is found within the Project Area. Permittee shall report other observations of live/non-injured CBB or CTS within five business days of discovery of a Covered Species within the Project Area to the Regional Representative and Regional Office identified in the Monthly Compliance Reports Condition of Approval.

The Designated Biologist(s) and Designated Monitor(s) shall maintain a record of Covered Species observed, handled, or protected in-place. This information shall include for each individual of Covered Species: (1) date, time, and location (Global Positioning System (GPS) coordinates and maps) of observation, handling, release, or protection in-place; (2) the name of the party that identified the Covered Species; (3) circumstances of the observation; (4) for CTS and CBB, the general condition and health, noting all visible conditions including gait and behavior, ectoparasites, injuries, etc. and any diagnostic markings, sex, age (juvenile or adult); (5) for TRAN, the general condition and health and population census within the Project Area; (6) actions undertaken; (7) habitat description; and (8) for CTS and CBB, ambient temperature when handled and released. The Designated Biologist(s) shall also submit this information to CDFW's California Natural Diversity Database (CNDDB) as per the CNDDB Observations Condition of Approval. The Designated Biologist(s) shall include this information in the next Quarterly Compliance Report or Annual Status Report, whichever is submitted first relative to the observation.

- 6.6. CTS Mortality Reduction and Relocation Plan.** The Designated Biologist(s) shall prepare a CTS Mortality Reduction and Relocation Plan and submit it to CDFW for review and approval a minimum of 30 days prior to starting Covered Activities located between PMs 15.40 and 28.40 (including vehicle and equipment parking and staging). The CTS Mortality Reduction and Relocation Plan shall include, but not be limited to: detailed survey, capture, handling, and relocation methods; identification of suitable relocation areas; required frequency and duration of compliance monitoring as per the Compliance Monitoring Condition of Approval; identification of a wildlife rehabilitation center or veterinary facility that will accept and is capable of treating injured CTS; and measures to be coordinated with the CBB Mortality and Reduction Plan. Covered Activities located between PMs 15.40 and 28.40 (including vehicle and equipment parking and staging) may not proceed until the CTS Mortality Reduction and Relocation Plan has been approved in writing by CDFW. Designated Monitor(s) are prohibited from capturing and handling CTS unless specifically approved in writing by CDFW and under the direct supervision of the Designated Biologist(s). Any proposed changes to the CDFW-approved CTS Mortality Reduction and Relocation Plan shall be submitted in writing to CDFW and approved by CDFW in writing prior to implementation of any proposed CTS Mortality Reduction and Relocation Plan modifications.
- 6.7. CBB Mortality Reduction and Relocation Plan.** The Designated Biologist(s) shall prepare a CBB Mortality Reduction and Relocation Plan and submit it to CDFW for review and approval a minimum of 30 days prior to starting Covered Activities

located between PMs T25.68 and 45.8, including staging areas. The CBB Mortality Reduction and Relocation Plan shall include, but not be limited to: a discussion and map of the portions of the Project Area where CBB may occur; detailed survey, handling and bee identification methods; measures to minimize impacts to foraging bees during vegetation removal; methods to characterize habitat types; methods to identify active nesting and overwintering habitat including during CBB surveys and CTS burrow excavation; measures to minimize impacts to overwintering bees during overwintering habitat removal; identification of suitable relocation areas; required frequency and duration of compliance monitoring according to the Compliance Monitoring Condition of Approval; and measures to be coordinated with the CTS Mortality Reduction and Relocation Plan. Covered Activities may not proceed until the CBB Mortality Reduction and Relocation Plan has been approved in writing by CDFW. Designated Monitor(s) are prohibited from capturing and handling CBB unless specifically approved in writing by CDFW and under the direct supervision of the Designated Biologist(s). Any proposed changes to the CDFW-approved CBB Mortality Reduction and Relocation Plan shall be submitted in writing to CDFW and approved by CDFW in writing prior to implementation of any proposed CBB Mortality Reduction and Relocation Plan modifications.

- 6.8. CBB Survey Plan.** If Covered Activities are proposed to occur during the CBB active period (approximately February 1 through October 31; includes queen flight season, colony active period, and gyne flight season), the Designated Biologist(s) shall prepare a CBB Survey Plan and submit it to CDFW for review and approval a minimum of 30 days prior to starting Covered Activities between PMs T25.68 and 45.8, including staging areas. The CBB Survey Plan shall describe methods that will be implemented to survey for above ground bees, consistent with CDFW's *Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species* (June 6, 2023). The CBB Survey Plan shall identify when the surveys are planned to take place (i.e., season and how much time between surveys), types of habitat to be surveyed for (i.e., foraging, nesting, and/or overwintering), survey method(s), justification for timing and method of survey design (e.g., elevation, climatic conditions, previous year's precipitation, average ambient temperature, species active periods, etc.), and the capture and identification protocol(s). If photographs will be used as vouchers, the CBB Survey Plan must identify the person(s) who will provide positive identification. Decontamination protocols shall be specified before and after bumble bee sampling within a work area, to reduce the likelihood of disease transmission, utilizing methods effective against diseases, such as *Varimorpha bombi* (formerly *Nosema*). All sampling equipment (e.g., nets, vials, other sampling materials, boots) shall be sterilized for 10 minutes following the bleach method in the 2023 Survey Considerations or with UV light (direct sunlight), by placing the equipment in direct sunlight for a minimum of two days.
- 6.9. Monthly Compliance Reports.** The Designated Representative or Designated Biologist(s) shall compile the observation and inspection records identified in the

Compliance Monitoring Condition of Approval; the total number of nights worked according to the Lighting and Night Work Condition of Approval; information and maps of TRAN removal according to the TRAN Removal Condition of Approval, CTS no-disturbance buffer maps according to the CTS Burrow and Crevice Avoidance Condition of Approval; and a copy of the MMRP table with notes showing the current implementation status of each mitigation measure into a Monthly Compliance Report for CDFW. Monthly Compliance Reports shall be submitted to the CDFW offices listed in the Notices section of this ITP and via e-mail to CDFW's Regional Representative and Headquarters CESA Program by the 7<sup>th</sup> calendar day following the reporting month. At the time of this ITP's approval, the CDFW Regional Representative is Adam Thompson ([Adam.Thompson@wildlife.ca.gov](mailto:Adam.Thompson@wildlife.ca.gov)), the Regional Office email is [RRR.R4@wildlife.ca.gov](mailto:RRR.R4@wildlife.ca.gov), and Headquarters CESA Program email is [CESA@wildlife.ca.gov](mailto:CESA@wildlife.ca.gov). CDFW may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permittee in writing of the new reporting schedule.

- 6.10. Annual Status Reports.** Permittee shall provide CDFW with an Annual Status Report no later than January 31 of every year beginning with issuance of this ITP and continuing until CDFW accepts the Final Mitigation Report. Each Annual Status Report shall include, at a minimum: (1) a summary of all Monthly Compliance Reports for that year identified in the Monthly Compliance Reports Condition of Approval; (2) a general description of the status of the Project Area and Covered Activities, including actual or projected completion dates, if known; (3) a copy of the table in the MMRP with notes showing the current implementation status of each mitigation measure; (4) an assessment of the effectiveness of each completed or partially completed mitigation measure in avoiding, minimizing and mitigating Project impacts; (5) a summary of all compliance monitoring and surveys associated with ground-disturbing Project activities for the reporting period; (6) all available information about Project-related incidental take of Covered Species; (7) an accounting of the number of acres subject to both temporary and permanent disturbance, both for the prior calendar year, and a total since ITP issuance; and (8) information about other Project impacts on the Covered Species. Annual Status Reports shall be submitted via email to the entities identified in the Monthly Compliance Reports Condition of Approval.
- 6.11. CNDDDB Observations.** The Designated Biologist(s) shall submit all observations of Covered Species to CDFW's California Natural Diversity Database (CNDDDB) within 60 calendar days of the observation and the Designated Biologist(s) shall include copies of the submitted forms with the next applicable Annual Status Report.
- 6.12. Final Mitigation Report.** No later than 45 days after completion of all mitigation measures, Permittee shall provide CDFW with a Final Mitigation Report. The

Designated Biologist(s) shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Monthly Compliance Reports and all Annual Status Reports; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP's Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on all Covered Species; and (8) any other pertinent information.

- 6.13. Notification of CTS or CBB Take or Injury.** Permittee shall immediately notify the Designated Biologist(s) if a CBB or CTS is taken or injured by a Project-related activity, or if a CBB or CTS is otherwise found dead or injured within the vicinity of the Project. If a CTS is injured, the Designated Biologist(s) shall take the injured animal(s) to a CDFW-approved facility according to the CTS Injury Condition of Approval. If a CBB is killed or found deceased during Covered Activities, Permittee shall transport the carcass, as feasible, according to the CBB Carcass Salvage Condition of Approval. The Designated Biologist(s) or Designated Representative shall provide initial notification to CDFW by calling the Regional Office at (559) 243-4005 and the CDFW Regional Representative. The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured and the ITP Number. Following initial notification, the Permittee shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, location of the animal or carcass, photograph(s), if possible, explanation as to the cause of take or injury, and any other pertinent information. The written report shall be submitted via email to the Regional Representative and Regional Office identified in the Monthly Compliance Reports Condition of Approval.

- 7. Take Minimization Measures:** The following requirements are intended to ensure the minimization of incidental take of Covered Species in the Project Area during Covered Activities. Permittee shall implement and adhere to the following conditions to minimize take of Covered Species:

*Multi-species Protection Measures:*

- 7.1. Open Excavation Inspection.** Workers shall inspect all open holes, sumps, and trenches at the beginning and end of each day for trapped animals. Workers shall either cover all trenches, holes, sumps, and other excavations with sidewalls steeper than a 1:1 (45 degree) slope when workers or equipment are not actively working in the excavation, which includes cessation of work overnight, or ensure that excavations have an escape ramp of earth or a non-slip material with a less

than 1:1 (45 degree) slope. Coverings shall be comprised of hardware cloth or similar that restricts animals such as CTS from digging or squeezing under and becoming entrapped. The Designated Biologist(s) or Designated Monitor(s) shall inspect excavation coverings to ensure compliance and shall thoroughly inspect all trenches, holes, sumps, and other excavations for CBB or CTS (or other animals) before they are backfilled. If any worker discovers that a CBB or CTS has become trapped, Permittee shall cease all Project-related activities in the vicinity and notify the Designated Biologist(s) immediately. Project workers, Designated Biologist(s), and Designated Monitor(s) shall provide the opportunity for the animal to escape unimpeded out of the work area before allowing work to continue. Alternatively, if the CBB or CTS will not leave the Project Area unimpeded, the Designated Biologist(s) shall capture and relocate the individual(s) as per the CDFW-approved mortality reduction and relocation plan (as per CTS Mortality Reduction and Relocation Plan and CBB Mortality Reduction and Relocation Plan Conditions of Approval).

- 7.2. Materials, Vehicle and Equipment Inspection. Workers shall thoroughly inspect all conduits with a diameter of one inch or greater, vehicles and other equipment that are stored for one or more overnight periods for CBB or CTS before the object is subsequently moved, buried, or capped. If a CBB or CTS is present, the worker shall notify the Designated Biologist(s) or Designated Monitor(s) and wait for the individual(s) to move unimpeded out of the Project Area. Alternatively, if the CBB or CTS will not leave the Project Area unimpeded, the Designated Biologist(s) shall capture and relocate the animal as per the CDFW-approved mortality reduction and relocation plan (as per CTS Mortality Reduction and Relocation Plan and CBB Mortality Reduction and Relocation Plan Conditions of Approval).
- 7.3. Vegetation Management. Permittee shall minimize disturbance or removal of vegetation to the amount necessary to complete Covered Activities. As feasible, vegetation shall be trimmed with hand tools to no lower than 4-inches above the ground surface, to the extent necessary to gain access to work areas.
- 7.4. Soil Stockpiles. Permittee shall ensure that soil stockpiles are placed where soil shall not pass into potential CTS and/or CBB breeding habitat, or into any "waters of the state," including streams that traverse the Project Area, in accordance with Fish and Game Code section 5650. Permittee shall appropriately protect stockpiles to prevent soil erosion.
- 7.5. Lighting and Night Work. Permittee shall not use permanent or temporary, fixed, exterior lighting, including motion-triggered security lighting that casts light into Covered Species habitat beyond the footprint of the Project Area. The number of nights and dates of night worked shall be documented in the annual status report (refer to the Annual Status Report Condition of Approval).

*Crotch's Bumble Bee (CBB):*

- 7.6. Additional Pesticide Application Measures for CBB.** Permittee shall follow the pesticide best management practices described by Xerces Society's 2018 Guidance to Protect Habitat from Pesticide Contamination, the California Department of Pesticide Regulation's California's Managed Pollinator Protection Plan, and the University of California's Division of Agriculture and Natural Resources Statewide Integrated Pest Management Program's *Best Management Practices to Protect Bees from Pesticides*. Permittee shall not use any second-generation anticoagulant rodenticide (e.g., brodifacoum, bromadiolone, difethialone, and difenacoum) or neonicotinoid pesticides on the Project Area. Permittee shall not use any first-generation anticoagulant rodenticide (e.g., diphacinone, chlorophacinone, and warfarin) on the Project Area without prior written permission from CDFW. Permittee shall use the least toxic products at the least concentrated application possible. Permittee shall not use neonicotinoid pesticides or mixtures with fungicides and adjuvants, like those that contain alkylphenol ethoxylates, or soil fumigants, which penetrate the soil and can poison ground nesting bees. Permittee shall not apply pesticides to suspected or confirmed CBB nest or until a Designated Biologist approved for CBB has performed pre-application surveys and confirmed CBB are not present, each morning before pesticides are applied within 50 feet of potential CBB habitat. A Designated Biologist approved for CBB shall continue to monitor for potential CBB activity during all pesticide application activities. Pesticide application shall cease if CBB are observed within 50 feet of the application area.
- 7.7. Seasonal Limitations for Protection of CBB.** If feasible, Permittee shall avoid initial vegetation clearing and ground disturbance to CBB and their habitat during the CBB active period (approximately February 1 through October 31). If feasible, native or non-native flowering vegetation removal shall occur prior to bloom and before the CBB active period. If Covered Activities cannot be avoided during this time and vegetation needs to be removed while in bloom, the Designated Biologist(s) approved for CBB shall perform pre-activity surveys according to the CBB Pre-Activity Clearance Survey Condition of Approval. If foraging CBB are found in areas designated for vegetation removal, the Designated Biologist(s) shall search for potential nests according to the Identification of CBB Nesting Condition of Approval.
- 7.8. CBB Pre-Activity Clearance Survey.** If Covered Activities are proposed to occur during the CBB active period (approximately February 1 through October 31), no more than 14 days prior to starting Covered Activities at each work area between PMs T25.68 and 45.8 (including staging areas), the Designated Biologist(s) approved for CBB shall survey at the work area and a 50-foot buffer around the work area as described in the CDFW-approved CBB Survey Plan. The Designated Biologist(s) approved for CBB shall repeat the surveys if there has been a break in Covered Activities by more than 30 days. The Permittee shall provide survey

results and mapping to CDFW prior to starting Covered Activities. The survey results shall include a description of vegetation communities and floral resources identified in each work area, maps of known or potential nesting sites, any CBB observations, and measures that will be implemented to avoid or minimize direct impacts to CBB or CBB habitat resources, if observed within or adjacent to a work area as per the CDFW-approved CBB Mortality Reduction and Relocation Plan.

- 7.9. Identification of CBB Nests.** During CBB pre-activity clearance surveys, the Designated Biologist(s) or approved Designated Monitor(s) approved for CBB shall identify and map all potential CBB nesting habitat, including rodent burrows, dry cavities in rock walls or rock piles, under bunch grasses), and flag potential nest that are accessible, according to the CBB Nest Avoidance Condition of Approval. For purposes of this ITP, “accessible” is defined as within the ROW and of a steepness that allows for safe investigation by the Designated Biologist(s). If Covered Activities may occur while nests may be occupied (approximately February 1 to August 30, depending on seasonal conditions), the Designated Biologist(s) approved for CBB shall further investigate all accessible potential nesting habitat for occupancy according to the CDFW-approved CBB Mortality Reduction and Relocation Plan. All active nests shall be avoided, according to the CBB Nest Avoidance Condition of Approval.
- 7.10. CBB Nest Avoidance.** If an active CBB nest is found during pre-activity surveys or at any time during Covered Activities, the Permittee shall delineate a minimum 50-foot no-disturbance buffer around the nest. Covered Activities shall not begin or resume until the nest has senesced (becomes inactive or is no longer in use), as determined by the Designated Biologist(s) approved for CBB, in consultation with CDFW. The Permittee shall report observation of active nests to CDFW within 24 hours of finding the nest according to the Covered Species Observations and Notification Condition of Approval. To determine whether a nest has senesced, the Designated Biologist(s) approved for CBB shall observe the nest for three consecutive days, for a minimum of one hour per day. Observation shall occur at least one hour after sunrise and at least two hours before sunset on a warm sunny day (65-90 degrees Fahrenheit), with wind less than eight miles per hour. The nest may be deemed senesced if no activity is noted within the observation period. The buffer area shall be clearly marked in the field using signs, stakes or posts with highly visible rope, or high visibility fencing. The Permittee shall contact CDFW immediately if a nest is discovered during ongoing work, to discuss measures that either have been, or will be implemented to avoid and minimize take of nesting bees.
- 7.11. CBB Carcass Salvage.** If a CBB is killed or otherwise found deceased during Project activities, Permittee shall contact CDFW to determine the fate of the carcass. As feasible, the carcass shall be salvaged, photographed, and placed in a labeled, clean plastic, resealable bag or vial and placed in a freezer. The label shall include a unique identifier (collection number), species name, time and date of

collection, collection location, GPS location (including datum and horizontal error in feet), circumstances surrounding death (e.g. freezer may have been too cold; hot day and extreme shifts in temperature from ambient air to cooler may have contributed), collector name and contact information (phone number or email), and ITP tracking number. If deemed necessary by CDFW, the Permittee shall deliver the carcass (on dry ice if possible) to the following address:

CDFW Wildlife Genetics Research Unit (Wildlife Health Lab)  
 Attention: Michael Buchalski  
 1415 North Market Boulevard, Suite 9  
 Sacramento, California 95834

*California Tiger Salamander (CTS):*

- 7.12. CTS Pre-Activity Clearance Surveys.** No more than 14 days prior to starting Covered Activities, or resuming Covered Activities after a break of at least 30 days, at each work area between PMs 15.40 and T28.40 (including staging areas), the Designated Biologist(s) approved for CTS shall survey the work area and a 50-foot buffer for CTS individuals and burrows and crevices suitable for CTS occupancy. The Designated Biologist(s) shall repeat the surveys if there has been a break in Covered Activities by more than 30 days to search for new burrows and crevices suitable for CTS occupancy. These surveys shall provide 100 percent visual coverage (including burrow and crevice openings) of the work area and a 50-foot buffer zone around the work area. If any life stages (adults, eggs, or larvae) of CTS are found and avoidance is not possible, the Designated Biologist(s) shall capture and relocate the CTS according the CDFW-approved CTS Mortality Reduction and Relocation Plan (see CTS Mortality Reduction and Relocation Plan Condition of Approval).
- 7.13. Flag and Map CTS Burrows and Crevices.** During CTS pre-activity clearance surveys, the Designated Biologist(s) or approved Designated Monitor(s) approved for CTS shall map all animal burrows and crevices suitable for CTS occupancy and flag those that are accessible for avoidance or excavation, according to the CTS Burrow and Crevice Avoidance and CTS Burrow and Crevice Excavation Conditions of Approval. For purposes of this ITP, “accessible” is defined as within the ROW and of a steepness that allows for safe excavation by the Designated Biologist(s) and/or Designated Monitor(s). The Permittee shall provide survey results and mapping to CDFW prior to starting Covered Activities.
- 7.14. CTS Burrow and Crevice Avoidance.** The Permittee shall establish a no-disturbance buffer of 50 feet or greater around potential CTS burrows and crevices identified and/or flagged according to the CTS Pre-Activity Clearance Surveys and Flag and Map CTS Burrows and Crevices Conditions of Approval, when they can be avoided from ground disturbing or other Covered Activities that could crush or entomb CTS. The boundary of the no-disturbance areas shall be



mapped and clearly marked in the field using signs, stakes or posts with highly visible rope, or high visibility fencing that shall be removed upon completion of Covered Activities in each work area. The Permittee shall provide the no-disturbance maps with the next Monthly Compliance Report (see Monthly Compliance Reports Condition of Approval).

- 7.15. CTS Burrow and Crevice Excavation.** No more than seven days after completing CTS pre-activity clearance surveys and no more than 14 days prior to initiating Covered Activities within a given work area, or resuming Covered Activities after a break in construction activity of more than 30 days, all accessible animal burrows and crevices identified during the CTS Pre-Activity Clearance Surveys and Flag and Map CTS Burrows and Crevices Conditions of Approval that are within the work area and cannot be avoided by Covered Activities shall be fully excavated under the direct supervision of the Designated Biologist(s) approved for CTS based on the CDFW-approved CTS Mortality Reduction and Relocation Plan and CBB Mortality Reduction and Relocation Plan. The Designated Biologist(s) approved for CTS shall capture and relocate any live CTS discovered during burrow and crevice excavation in accordance with the CDFW-approved CTS Mortality Reduction and Relocation Plan. The Permittee shall provide the results of the burrow and crevice excavation and any CTS relocation activities with the next applicable Annual Status Report (see Annual Status Reports Condition of Approval).
- 7.16. Precipitation.** The Permittee shall monitor the National Weather Service 72-hour forecast for the work areas with suitable CTS habitat (between PMs 15.40 and PM T28.40). If a 50% or greater chance of more than 1/2 inch of rainfall in a 24-hour period is predicted to occur during Covered Activities, or if unexpected rainfall commences during Covered Activities, Permittee shall cease all Covered Activities in those work areas. Work at these locations may resume 24 hours after the rain ceases and when no further rain is predicted in the 72-hour forecast. The Designated Biologist(s) and Designated Monitor(s) shall survey for CTS at the work areas before Covered Activities resume, and the Designated Biologist(s) shall capture and relocate any CTS that are discovered during the surveys, according to the CDFW-approved CTS Mortality Reduction and Relocation Plan.
- 7.17. Fieldwork Code of Practice.** To ensure that the Designated Biologist(s) does not convey disease between the Project Area and areas outside the Project Area, the fieldwork code of practice developed by the Declining Amphibian Populations Task Force Fieldwork Code of Practice (see Attachment 3) shall be always followed. The Designated Biologist(s) may substitute a bleach solution (0.5 to 1.0 cup of bleach to 1.0 gallon of water) for the ethanol solution. The Designated Biologist(s) shall ensure that all traces of the disinfectant are removed before entering the next aquatic habitat.
- 7.18. CTS Injury.** If a CTS is injured as a result of Covered Activities, the Designated Biologist(s) approved for CTS shall immediately take it to a CDFW approved

wildlife rehabilitation or veterinary facility. Permittee shall identify the facility before starting Covered Activities, according to the CTS Mortality Reduction and Relocation Plan Condition of Approval. Permittee shall bear any costs associated with the care or treatment of such injured or damaged Covered Species. The Permittee shall notify CDFW of the injury as described in the Notification of CTS or CBB Take or Injury Condition of Approval.

*Tree Anemone (TRAN):*

- 7.19. TRAN Pre-Activity Clearance Surveys.** The Designated Biologist(s) approved for TRAN shall perform surveys for TRAN in each work area and a 50-foot buffer around the work areas located between PMs L29.03 and R34.92 no more than a year prior to starting Covered Activities at the work area. Surveys shall be scheduled during the flowering season (May 1 to June 30), as feasible. All potential and known TRAN individuals detected shall be mapped and, where accessible, also flagged. The Permittee shall submit the survey results and mapping to CDFW in a written report prior to starting or resuming Covered Activities at each work area. Maps shall depict the work area boundary, the 50-foot survey buffer, the boundary of the TRAN plants, and the boundary of the estimated seedbank (20 feet around the outer boundary of parent plants). The report shall also describe traits or resources used to properly identify the species, including traits used to distinguish it from closely related and sympatric species (*Philadelphus lewisii*).
- 7.20. TRAN Avoidance.** The Permittee shall establish a no-disturbance buffer of 20 feet or greater around the perimeter of TRAN plants identified and mapped according to the TRAN Pre-Activity Clearance Surveys Condition of Approval, when they can be avoided from ground disturbing or other Covered Activities that could result in take of plants or seedbank. The boundary of the no-disturbance area shall be clearly marked in the field using signs, stakes or posts with highly visible rope, or high visibility fencing that shall be removed upon completion of Covered Activities in each work area. Permittee may request an alternative buffer based on slope and anticipated seed dispersal. Any change in buffer shall not be implemented without written approval from CDFW.
- 7.21. TRAN Removal.** The Designated Biologist(s) approved for TRAN shall be present during all initial vegetation removal and ground disturbing activities in work areas located between PMs L29.03 and R34.92 according to the Compliance Monitoring Condition of Approval. The Designated Biologist(s) shall document and map the locations of types of TRAN disturbance (plants trimmed, plants removed, seedbank disturbed) and the Permittee shall provide the results and maps with the next Monthly Compliance Report (see Monthly Compliance Reports Condition of Approval).

- 8. Habitat Management Land Acquisition:** CDFW has determined that permanent protection and perpetual management of compensatory habitat is necessary and required

pursuant to CESA to fully mitigate Project-related impacts of the taking on the Covered Species that will result from implementation of the Covered Activities. This determination is based on factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the protected acreage required to provide for adequate compensation.

To meet this requirement, the Permittee shall either purchase 1.36 acres of CTS upland habitat credits, 0.276 acres of TRAN credits, and 9.24 acres of CBB credits from CDFW-approved mitigation or conservation bank(s) pursuant to the Covered Species Credits Condition of Approval OR shall provide for both the permanent protection and management of at least 1.36 acres of CTS upland refugia habitat, 0.276 acres of TRAN habitat, and 9.24 acres of CBB habitat of Habitat Management (HM) lands pursuant to the HM Lands Acquisition and Protection Condition of Approval and the calculation and deposit of the management funds pursuant to the Endowment Fund Condition of Approval. Purchase of Covered Species credits OR permanent protection and funding for perpetual management of HM lands must be complete before starting Covered Activities, or within 12 months of the effective date of this ITP if Security is provided pursuant to the Security Condition of Approval for all uncompleted obligations.

**8.1. Cost Estimates.** For the purposes of determining the Security amount, CDFW has estimated the cost sufficient for CDFW or its contractors to complete acquisition, protection, and perpetual management of the HM lands and restoration of temporarily disturbed habitat as follows (all Covered Species combined):

- 8.1.1.** Land acquisition costs for HM lands identified in the Habitat Management Lands Acquisition and Protection Condition of Approval, estimated at \$14,556.04/acre for 10.88 acres of habitat: **\$158,369.72**. Land acquisition costs are estimated using local fair market current value per acre for lands with habitat values meeting mitigation requirements;
- 8.1.2.** All other costs necessary to review and acquire the land in fee title and record a conservation easement as described in the Fee Title and Conservative Easement Condition of Approval, estimated at **\$268,600.00**;
- 8.1.3.** Start-up costs for HM lands, including initial site protection and enhancement costs as described in the Start-up Activities Condition of Approval, estimated at **\$7,851.36**;
- 8.1.4.** Interim management period funding as described in the Interim Management Condition of Approval, estimated at **\$70,047.77**;
- 8.1.5.** Long-term management funding as described in the Endowment Fund Condition of Approval, estimated at: \$28,487.74/acre for 10.88 acres of habitat: **\$309,946.58**. Long-term management funding is estimated initially

for the purpose of providing Security to ensure implementation of HM lands management;

- 8.1.6.** Related transaction fees including but not limited to account set-up fees, administrative fees, title and documentation review and related title transactions, expenses incurred from other state agency reviews, and overhead related to transfer of HM lands to CDFW as described in the Reimburse CDFW Condition of Approval, estimated at **\$13,600.00**; and
- 8.1.7.** All costs associated with CDFW engaging an outside contractor to complete the mitigation tasks, including but not limited to acquisition, protection, and perpetual funding and management of the HM lands and restoration of temporarily disturbed habitat. These costs include but are not limited to the cost of issuing a request for proposals, transaction costs, contract administration costs, and costs associated with monitoring the contractor's work **\$42,000.00**.
- 8.2.** Covered Species Credits. If the Permittee elects to purchase Covered Species credits to complete compensatory mitigation obligations, then Permittee shall purchase 1.36 acres of CTS upland habitat credits, 0.276 acres of TRAN credits, and 9.24 acres of CBB credits from a CDFW-approved mitigation or conservation bank prior to initiating Covered Activities, or no later than 12 months from the issuance of this ITP if Security is provided pursuant to the Security Condition of Approval. Prior to purchase of Covered Species credits, Permittee shall obtain CDFW approval to ensure the mitigation or conservation bank is appropriate to compensate for the impacts of the Project. Permittee shall submit to CDFW a copy of the Bill of Sale(s) and Payment Receipt prior to initiating Covered Activities or within 12 months from issuance of this ITP if Security is provided.
- 8.3.** Habitat Management Lands Acquisition and Protection. If the Permittee elects to provide for the acquisition, permanent protection, and/or perpetual management of HM lands to complete compensatory mitigation obligations, then the Permittee shall:
  - 8.3.1.** Fee Title. Transfer fee title of the HM lands to CDFW pursuant to terms approved in writing by CDFW. Alternatively, CDFW, in its sole discretion, may authorize a governmental entity, special district, non-profit organization, for-profit entity, person, or another entity to hold title to and manage the property provided that the district, organization, entity, or person meets the requirements of Government Code sections 65965-65968, as amended.
  - 8.3.2.** Conservation Easement. If CDFW does not hold fee title to the HM lands, CDFW shall act as grantee for a conservation easement over the HM lands or shall, in its sole discretion, approve a non-profit entity, public

agency, or Native American tribe to act as grantee for a conservation easement over the HM lands provided that the entity, agency, or tribe meets the requirements of Civil Code section 815.3. If HM lands are acquired and/or transferred, and CDFW elects not to be named as the grantee for the conservation easement, CDFW shall be expressly named in the conservation easement as a third-party beneficiary. The Permittee shall obtain CDFW written approval of any conservation easement before its execution or recordation, or as otherwise approved by CDFW. No conservation easement shall be approved by CDFW unless it complies with Civil Code sections 815-816, as amended, and Government Code sections 65965-65968, as amended and includes provisions expressly addressing Government Code sections 65966(j) and 65967(e). Because the “doctrine of merger” could invalidate the conservation interest, under no circumstances can the fee title owner of the HM lands serve as grantee for the conservation easement.

- 8.3.3.** HM Lands Approval. Obtain CDFW written approval of the HM lands before acquisition and/or transfer of the land, and/or funding an endowment or management activities on the land by submitting, at least three months before acquisition, transfer, or funding of the HM lands, documentation identifying the land to be purchased or property interest conveyed to an approved entity as mitigation for the Project’s impacts on Covered Species;
- 8.3.4.** HM Lands Documentation. If HM lands are acquired and/or transferred, provide a recent preliminary title report, Phase I Environmental Site Assessment, and other necessary documents (please contact CDFW for document list). All documents conveying the HM lands and all conditions of title are subject to the approval of CDFW, and if applicable, the Wildlife Conservation Board and the Department of General Services;
- 8.3.5.** Land Manager. Designate both an interim and long-term land manager approved by CDFW. The interim and long-term land managers may, but need not, be the same. The interim and/or long-term land managers may be the landowner or another party. Documents related to land management shall identify both the interim and long-term land managers. Permittee shall notify CDFW of any subsequent changes in the land manager within 30 days of the change. If CDFW will hold fee title to the mitigation land, CDFW will also act as both the interim and long-term land manager unless otherwise specified. The grantee for the conservation easement cannot serve as the interim or long-term manager without the express written authorization of CDFW in its sole discretion.
- 8.3.6.** Start-up Activities. Provide for the implementation of start-up activities, including the initial site protection and enhancement of HM lands, once the

HM lands have been approved by CDFW. Start-up activities include, at a minimum: (1) providing a final management plan for CDFW approval (see <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=137386&inline>); and (2) conducting initial habitat restoration or enhancement, if applicable. If HM lands are acquired and/or transferred, start-up activities also include: (1) providing a baseline biological assessment and land survey report within four months of recording or transfer; (2) developing and transferring Geographic Information Systems (GIS) data if applicable; (3) establishing initial fencing; (4) conducting litter removal; (5) conducting initial habitat restoration or enhancement, if applicable; and (6) installing signage;

- 8.3.7. Interim Management (Initial and Capital).** Provide for the interim management of the HM lands. The Permittee shall ensure that the interim land manager implements the interim management of the HM lands as described in the final management plan and conservation easement approved by CDFW. The interim management period shall be a minimum of three years from the date of HM land acquisition and protection and full funding of the Endowment and includes expected management following start-up activities. Interim management period activities described in the final management plan shall include fence repair, continuing trash removal, site monitoring, and vegetation and invasive species management.

Permittee shall either (1) provide Security to CDFW for the minimum of three years of interim management that the land owner, Permittee, or land manager agrees to manage and pay for at their own expense, (2) establish an escrow account with written instructions approved in advance in writing by CDFW to pay the land manager annually in advance, or (3) establish a short-term enhancement account with CDFW or a CDFW-approved entity for payment to the land manager.

- 8.4. Endowment Fund.** If the Permittee elects to provide for the acquisition, permanent protection, and/or perpetual management of HM lands to complete compensatory mitigation obligations, then the Permittee shall ensure that the HM lands are perpetually managed, maintained, and monitored by the long-term land manager as described in this ITP, the conservation easement, and the final management plan approved by CDFW. After obtaining CDFW approval of the HM lands, Permittee shall provide long-term management funding for the perpetual management of the HM lands by establishing a long-term management fund (Endowment). The Endowment is a sum of money, held in a CDFW-approved fund that is permanently restricted to paying the costs of long-term management and stewardship of the mitigation property for which the funds were set aside, which costs include the perpetual management, maintenance, monitoring, and other activities on the HM lands consistent with this ITP, the conservation easement, and the management plan as per the Land Manager Condition of Approval. Endowment

as used in this ITP shall refer to the endowment deposit and all interest, dividends, other earnings, additions and appreciation thereon. The Endowment shall be governed by this ITP, Government Code sections 65965-65968, as amended, and Probate Code sections 18501-18510, as amended.

After the interim management period, Permittee shall ensure that the designated long-term land manager implements the management and monitoring of the HM lands according to the final management plan. The long-term land manager shall be obligated to manage and monitor the HM lands in perpetuity to preserve their conservation values in accordance with this ITP, the conservation easement, and the final management plan. Such activities shall be funded through the Endowment.

**8.4.1. Identify an Endowment Manager.** The Endowment shall be held by the Endowment Manager, which shall be either CDFW or another entity qualified pursuant to Government Code sections 65965-65968, as amended.

Permittee shall submit to CDFW a written proposal that includes: (i) the name of the proposed Endowment Manager; (ii) whether the proposed Endowment Manager is a governmental entity, special district, nonprofit organization, community foundation, or congressionally chartered foundation; (iii) whether the proposed Endowment Manager holds the property or an interest in the property for conservation purposes as required by Government Code section 65968(b)(1) or, in the alternative, the basis for finding that the Project qualifies for an exception pursuant to Government Code section 65968(b)(2); and (iv) a copy of the proposed Endowment Manager's certification pursuant to Government Code section 65968(e).

Within thirty days of CDFW's receipt of Permittee's written proposal, CDFW shall inform Permittee in writing if it determines the proposal does not satisfy the requirements of Fish and Game Code section 2081(b)(3) and, if so, shall provide Permittee with a written explanation of the reasons for its determination. If CDFW does not provide Permittee with a written determination within the thirty-day period, the proposal shall be deemed consistent with Section 2081(b)(3).

**8.4.2. Calculate the Endowment Funds Deposit.** After obtaining CDFW written approval of the HM lands, long-term management plan, and Endowment Manager, Permittee shall prepare an endowment assessment (equivalent to a Property Analysis Record (PAR)) to calculate the amount of funding necessary to ensure the long-term management of the HM lands (Endowment Deposit Amount). Note that the endowment for the easement holder should not be included in this calculation. The Permittee shall

submit to CDFW for review and approval of the results of the endowment assessment before transferring funds to the Endowment Manager.

8.4.2.1. Capitalization Rate and Fees. Permittee shall obtain the capitalization rate from the selected Endowment Manager for use in calculating the endowment assessment and adjust for any additional administrative, periodic, or annual fees.

8.4.2.2. Endowment Buffers/Assumptions. Permittee shall include in the endowment assessment assumptions the following buffers for endowment establishment and use that will substantially ensure long-term viability and security of the Endowment:

8.4.2.2.1. 10 Percent Contingency. A 10 percent contingency shall be added to each endowment calculation to hedge against underestimation of the fund, unanticipated expenditures, inflation, or catastrophic events.

8.4.2.2.2. Three Years Delayed Spending. The endowment shall be established assuming spending will not occur for the first three years after full funding.

8.4.2.2.3. Non-annualized Expenses. For all large capital expenses to occur periodically but not annually such as fence replacement or well replacement, payments shall be withheld from the annual disbursement until the year of anticipated need or upon request to Endowment Manager and CDFW.

8.4.3. Transfer Long-term Endowment Funds. Permittee shall transfer the long-term endowment funds to the Endowment Manager upon CDFW approval of the Endowment Deposit Amount identified above.

8.4.4. Management of the Endowment. The approved Endowment Manager may pool the Endowment with other endowments for the operation, management, and protection of HM lands for local populations of the Covered Species but shall maintain separate accounting for each Endowment. The Endowment Manager shall, at all times, hold and manage the Endowment in compliance with this ITP, Government Code sections 65965-65968, as amended, and Probate Code sections 18501-18510, as amended.

Notwithstanding Probate Code sections 18501-18510, the Endowment Manager shall not make any disbursement from the Endowment that will



result in expenditure of any portion of the principal of the endowment without the prior written approval of CDFW in its sole discretion. Permittee shall ensure that this requirement is included in any agreement of any kind governing the holding, investment, management, and/or disbursement of the Endowment funds.

Notwithstanding Probate Code sections 18501-18510, if CDFW determines in its sole discretion that an expenditure needs to be made from the Endowment to preserve the conservation values of the HM lands, the Endowment Manager shall process that expenditure in accordance with directions from CDFW. The Endowment Manager shall not be liable for any shortfall in the Endowment resulting from CDFW's decision to make such an expenditure.

- 8.5. Reimburse CDFW.** Permittee shall reimburse CDFW for all reasonable costs incurred by CDFW related to issuance and monitoring of this ITP, including, but not limited to transaction fees, account set-up fees, administrative fees, title and documentation review and related title transactions, costs incurred from other state agency reviews, and overhead related to transfer of HM lands to CDFW.

- 9. Security:** The Permittee may proceed with Covered Activities only after the Permittee has ensured funding (Security) to complete any activity required by Condition of Approval 8 that has not been completed before Covered Activities begin. Permittee shall provide Security as follows:

- 9.1. Master Funding Agreement.** Security for this ITP shall be governed by the Master Funding Agreement between the California Department of Fish and Wildlife and the California Department of Transportation, dated September 30, 2024.
- 9.2. Funding Memorandum.** Permittee has prepared and CDFW has approved, the project-specific Funding Memorandum required by the Master Funding Agreement and attached to this ITP as Attachment 4.
- 9.3. Security Amount.** The Security shall be in the amount of **\$870,415.43**. This amount is based on the cost estimates identified in the Cost Estimates Condition of Approval.
- 9.4. Funding of the Child Expenditure Authorization (EA).** Permittee shall create and fund the Child EA with funds equivalent to the Security Amount.
- 9.5. Compliance with the Master Funding Agreement.** Permittee shall complete all requirements set forth in the Master Funding Agreement and shall at all times comply with the terms and conditions of that Agreement.
- 9.6.** Even if Security is provided, the Permittee must complete the purchase of credits, required acquisition, protection and transfer of all HM lands, record any required

conservation easements, and/or fund the endowment of HM lands no later than 12 months from the effective date of this ITP. CDFW may require the Permittee to provide additional HM lands and/or additional funding to ensure the impacts of the taking are minimized and fully mitigated, as required by law, if the Permittee does not complete these requirements within the specified timeframe.

#### **IX. Amendment:**

This ITP may be amended as provided by California Code of Regulations, Title 14, section 783.6, subdivision (c), and other applicable law. This ITP may be amended without the concurrence of the Permittee as required by law, including if CDFW determines that continued implementation of the Project as authorized under this ITP would jeopardize the continued existence of the Covered Species or where Project changes or changed biological conditions necessitate an ITP amendment to ensure that all Project-related impacts of the taking to the Covered Species are minimized and fully mitigated.

#### **X. Stop-Work Order:**

If CDFW determines the Permittee has violated any term or condition of this ITP or has engaged in unlawful take, CDFW may issue Permittee a written stop-work order instructing the Permittee to suspend any Covered Activity for an initial period of up to 30 days or risk suspension or revocation of this ITP. CDFW can issue a stop-work order to prevent or remedy a violation of this ITP, including but not limited to the failure to comply with reporting or monitoring obligations, or to prevent the unauthorized take of any CESA endangered, threatened, or candidate species, regardless of whether that species is a Covered Species under this ITP. Permittee shall stop work immediately as directed by CDFW upon receipt of any such stop-work order. Upon written notice to Permittee, CDFW may extend any stop-work order issued to Permittee for a period not to exceed 30 additional days.

If Permittee fails to remedy the violation or to comply with a stop-work order, CDFW may proceed with suspension and revocation of this ITP. Suspension and revocation of this ITP shall be governed by California Code of Regulations, Title 14, section 783.7, and any other applicable law. Neither the Designated Biologist(s) nor CDFW shall be liable for any costs incurred in complying with stop-work orders.

#### **XI. Compliance with Other Laws:**

This ITP sets forth CDFW's requirements for the Permittee to implement the Project pursuant to CESA. This ITP does not necessarily create an entitlement to proceed with the Project. Permittee is responsible for complying with all other applicable federal, state, and local law.

#### **XII. Notices:**

Written notices, reports and other communications relating to this ITP shall be delivered to CDFW by email or registered first class mail at the following address, or at addresses CDFW may subsequently provide the Permittee. Notices, reports, and other communications shall reference the Project name, Permittee, and ITP Number (2081-2024-052-04) in a cover letter and on any other associated documents.

Incidental Take Permit  
No. 2081-2024-052-04  
CALIFORNIA DEPARTMENT OF TRANSPORTATION  
FRESNO 168 CULVERT REHABILITATION PROJECT

Original cover with attachment(s) to:

Julie A. Vance, Regional Manager  
California Department of Fish and Wildlife  
1234 East Shaw Avenue  
Fresno, California 93710  
[RRR.R4@wildlife.ca.gov](mailto:RRR.R4@wildlife.ca.gov)

and a copy to:

Habitat Conservation Planning Branch  
California Department of Fish and Wildlife  
Attention: CESA Permitting Program  
Post Office Box 944209  
Sacramento, California 94244-2090  
[CESA@wildlife.ca.gov](mailto:CESA@wildlife.ca.gov)

Unless Permittee is notified otherwise, CDFW's Regional Representative for purposes of addressing issues that arise during implementation of this ITP is:

Adam Thompson  
California Department of Fish and Wildlife  
1234 East Shaw Avenue  
Fresno, California 93710  
Telephone (559) 801-1915  
[Adam.Thompson@wildlife.ca.gov](mailto:Adam.Thompson@wildlife.ca.gov)

**XIII. Compliance with the California Environmental Quality Act:**

CDFW's issuance of this ITP is subject to CEQA. CDFW is a responsible agency pursuant to CEQA with respect to this ITP because of prior environmental review of the Project by the lead agency, Caltrans. (See generally Pub. Resources Code, §§ 21067, 21069.) The lead agency's prior environmental review of the Project is set forth in the Fresno 168 Culvert Rehabilitation Initial Study with Mitigated Negative Declaration (SCH No. 2023020102) dated March 2023, that Caltrans adopted on May 12, 2023. At the time the lead agency adopted the Mitigated Negative Declaration and approved the Project, it also adopted various mitigation measures for the Covered Species as conditions of Project approval.

This ITP, along with CDFW's related CEQA findings, which are available as a separate document, provide evidence of CDFW's consideration of the lead agency's Mitigated Negative Declaration for the Project and the environmental effects related to issuance of this ITP (CEQA Guidelines, § 15096, subd. (f)). CDFW finds that issuance of this ITP will not result in any previously undisclosed potentially significant effects on the environment or a substantial increase in the severity of any potentially significant environmental effects previously disclosed by the lead agency. Furthermore, to the extent the potential for such effects exists, CDFW finds adherence to, and implementation of, the Conditions of Project

Incidental Take Permit  
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Approval adopted by the lead agency, and that adherence to and implementation of the Conditions of Approval imposed by CDFW through the issuance of this ITP, will avoid or reduce to below a level of significance any such potential effects. CDFW consequently finds that issuance of this ITP will not result in any significant, adverse impacts on the environment.

#### **XIV. Findings Pursuant to CESA:**

These findings are intended to document CDFW's compliance with the specific findings requirements set forth in CESA and related regulations. (Fish & G. Code § 2081, subs. (b)-(c); Cal. Code Regs., tit. 14, §§ 783.4, subds, (a)-(b), 783.5, subd. (c)(2).)

CDFW finds based on substantial evidence in the ITP application, Mitigated Negative Declaration for the Project, results of site visit and consultations with the Permittee, and the administrative record of proceedings, that issuance of this ITP complies and is consistent with the criteria governing the issuance of ITPs pursuant to CESA:

- (1) Take of Covered Species as defined in this ITP will be incidental to the otherwise lawful activities covered under this ITP;
- (2) Impacts of the taking on Covered Species will be minimized and fully mitigated through the implementation of measures required by this ITP and as described in the MMRP. Measures include: (1) permanent habitat protection; (2) establishment of avoidance zones; (3) worker education; and (4) Monthly Compliance Reports. CDFW evaluated factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the acreage required to provide for adequate compensation. Based on this evaluation, CDFW determined that the protection and management in perpetuity of 10.88 acres of compensatory habitat that is contiguous with other protected Covered Species habitat and/or is of higher quality than the habitat being destroyed by the Project, along with the minimization, monitoring, reporting, and funding requirements of this ITP minimizes and fully mitigates the impacts of the taking caused by the Project;
- (3) The take avoidance and mitigation measures required pursuant to the conditions of this ITP and its attachments are roughly proportional in extent to the impacts of the taking authorized by this ITP;
- (4) The measures required by this ITP maintain Permittee's objectives to the greatest extent possible;
- (5) All required measures are capable of successful implementation;
- (6) This ITP is consistent with any regulations adopted pursuant to Fish and Game Code sections 2112 and 2114;

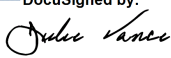
- (7) Permittee has ensured adequate funding to implement the measures required by this ITP as well as for monitoring compliance with, and the effectiveness of, those measures for the Project; and
- (8) Issuance of this ITP will not jeopardize the continued existence of the Covered Species based on the best scientific and other information reasonably available, and this finding includes consideration of the species' capability to survive and reproduce, and any adverse impacts of the taking on those abilities in light of (1) known population trends; (2) known threats to the species; and (3) reasonably foreseeable impacts on the species from other related projects and activities. Moreover, CDFW's finding is based, in part, on CDFW's express authority to amend the terms and conditions of this ITP without concurrence of the Permittee as necessary to avoid jeopardy and as required by law.

#### **XV. Attachments:**

FIGURE 1	Project Location Map
FIGURE 2	Project Impacts Map Book
FIGURE 3	Potential Staging Area Map Book
ATTACHMENT 1	Mitigation Monitoring and Reporting Program
ATTACHMENT 2	Biologist Resume Form
ATTACHMENT 3	The Declining Amphibian Task Force Fieldwork Code of Practice
ATTACHMENT 4	Master Funding Agreement Memorandum

#### **ISSUED BY THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE**

ON 6/25/2025

DocuSigned by:  
  
 FA83F09FE08945A...  
 Julie A. Vance, Regional Manager  
 Central Region

Incidental Take Permit  
 No. 2081-2024-052-04  
**CALIFORNIA DEPARTMENT OF TRANSPORTATION**  
**FRESNO 168 CULVERT REHABILITATION PROJECT**

FIGURE 1  
Project Location Map

Figure 1. Project Location Map – Fresno 168 Culvert Rehabilitation Project-06-0X220

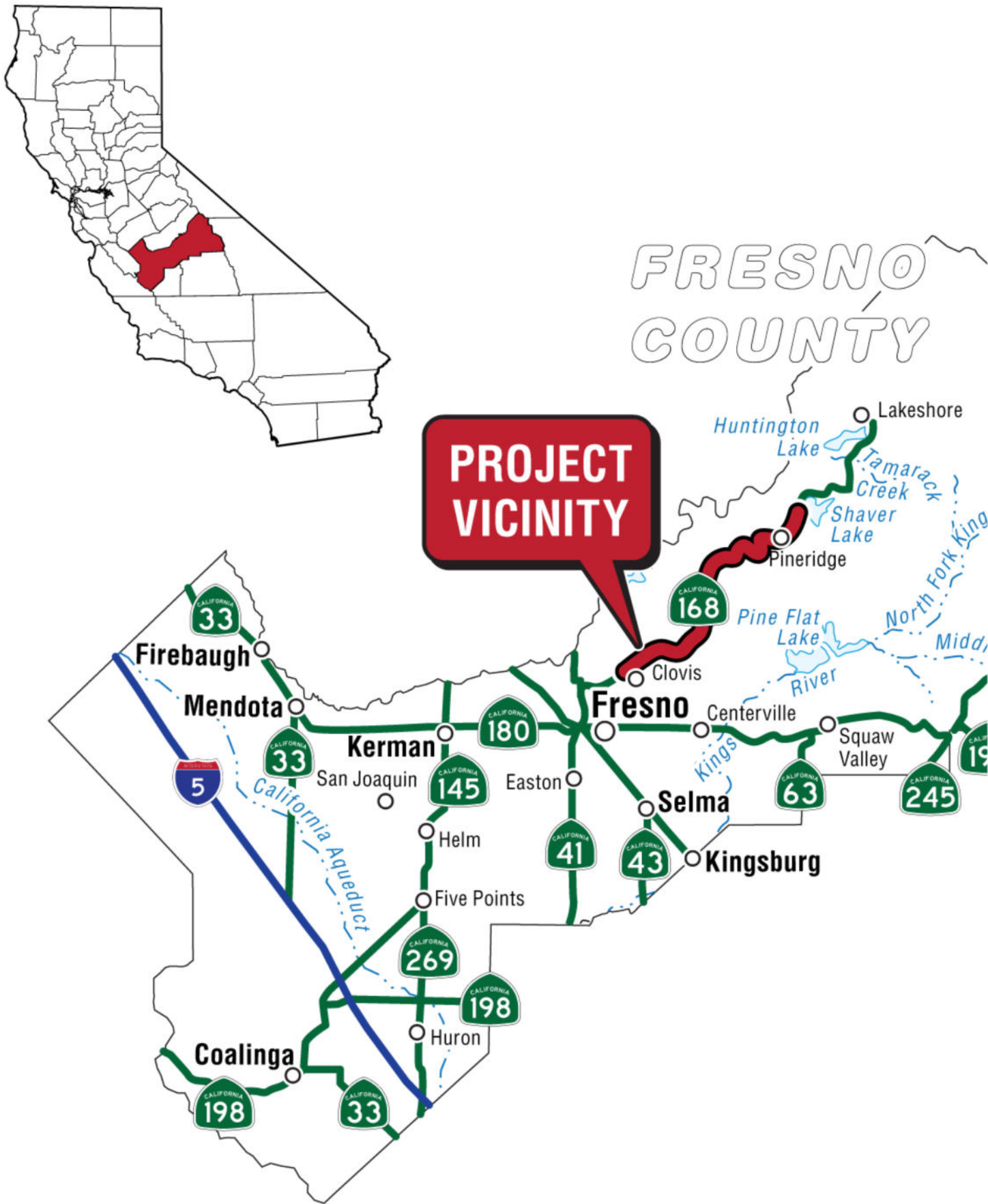


FIGURE 2  
Project Impacts Map Book



**Culvert Location: 4**

**PM: 15.40**

**Culvert Work:**  
**Replace; 18"**

**Culvert Work Zone: 0.044ac**

**RSP/Perm Impacts:0.002ac**

Suitable CTS upland habitat present.



**Species Permit Map**

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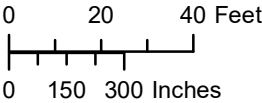
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)
- CTS Fencing Area (2570 linear ft)



**1:500**





**Culvert Location: 5**

**PM: 15.76**

**Culvert Work:**  
**Replace; 18"**

**Culvert Work Zone: 0.041ac**

**RSP/Perm Impacts:0.001ac**

Suitable CTS upland habitat present.



**Species Permit Map**

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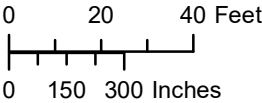
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

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- Postmiles
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- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)
- CTS Fencing Area (2570 linear ft)



**1:500**





**Culvert Location: 6**

**PM: 15.91**

**Culvert Work:**  
**Replace; 18"**

**Culvert Work Zone: 0.032ac**

**RSP/Perm Impacts:0.001ac**

Suitable CTS upland habitat present.



**Species Permit Map**

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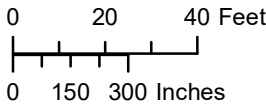
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)
- CTS Fencing Area (2570 linear ft)



**1:500**





Culvert Location: 7

PM: 16.01

Culvert Work:  
Replace; 18"

Culvert Work Zone: 0.038ac

RSP/Perm Impacts:0.002ac

Suitable CTS upland habitat present.



Species Permit Map

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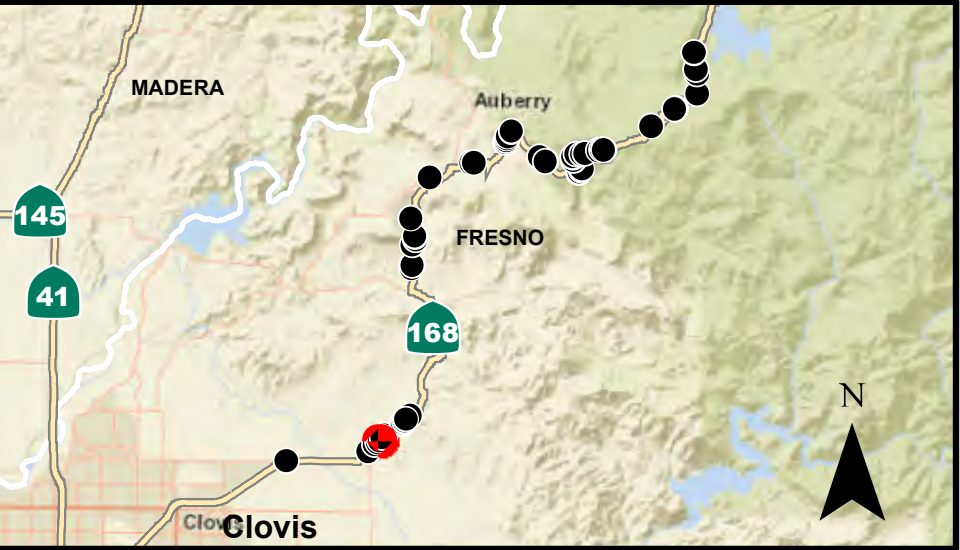
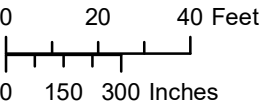
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)
- CTS Fencing Area (2570 linear ft)



1:500





**Culvert Location: 8**

**PM: 16.21**

**Culvert Work:**  
**Replace; 18"**

**Culvert Work Zone: 0.038ac**

**RSP/Perm Impacts:0.002ac**

Suitable CTS upland habitat present.



**Species Permit Map**

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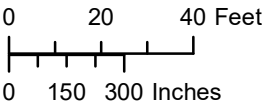
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)
- CTS Fencing Area (2570 linear ft)



**1:500**





**Culvert Location: 9**

**PM: 16.35**

**Culvert Work:**  
**Replace with 18" CSP**

**Culvert Work Zone: 0.032ac**  
**RSP/Perm Impacts:0.001ac**

Suitable CTS upland habitat present.



**Species Permit Map**

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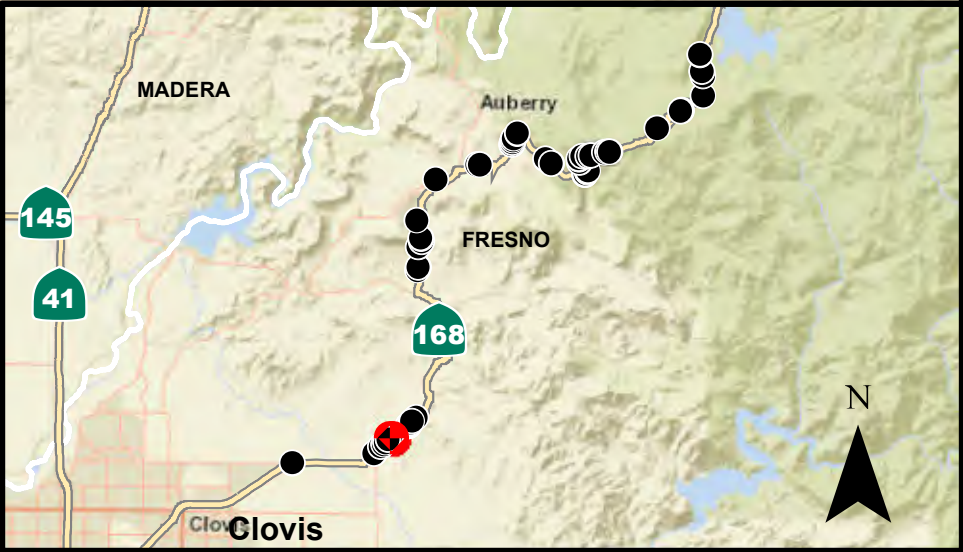
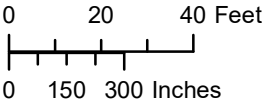
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)
- CTS Fencing Area (2570 linear ft)



**1:500**





**Culvert Location: 10**

**PM: 17.15**

**Culvert Work:**  
**Replace; 24"**

**Culvert Work Zone: 0.051ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat present.



**Species Permit Map**

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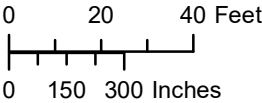
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▨ CTS Fencing Area (2570 linear ft)



**1:500**





**Culvert Location: 11**

**PM: 17.21**

**Culvert Work:**  
**Replace; 24"**

**Culvert Work Zone: 0.05ac**  
**RSP/Perm Impacts:ac**

Suitable CTS upland habitat present.



PM 17.2

168

**Species Permit Map**

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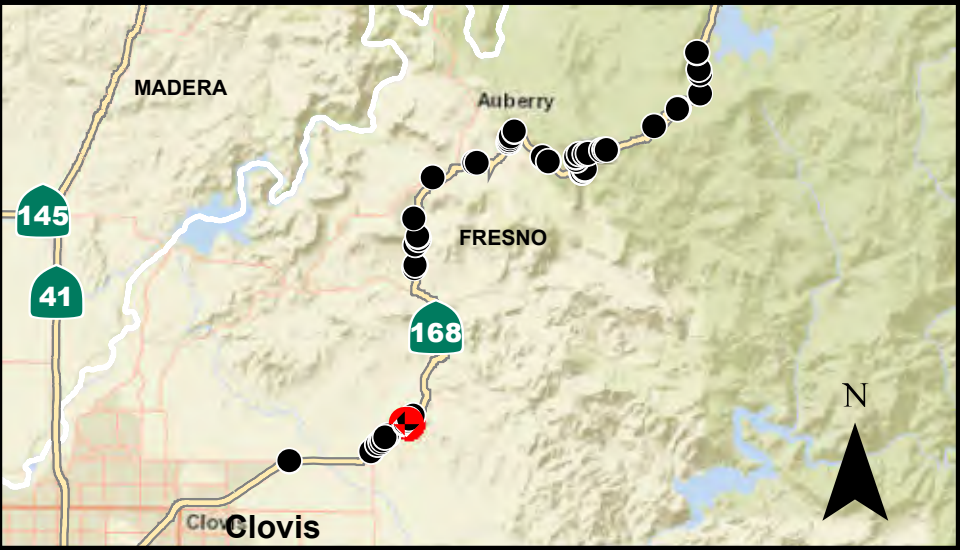
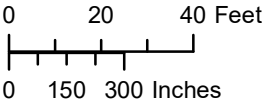
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- CTS Fencing Area (2570 linear ft)



**1:500**





Culvert Location: 12

PM: 17.30

Culvert Work:  
Replace; 18"

Culvert Work Zone: 0.032ac

RSP/Perm Impacts:ac

Suitable CTS upland habitat present.



Species Permit Map

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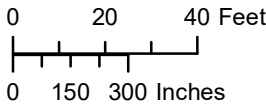
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▨ CTS Fencing Area (2570 linear ft)



1:500





**Culvert Location: 13**

**PM: 17.49**

**Culvert Work:  
Replace; 18"**

**Culvert Work Zone: 0.033ac**

**RSP/Perm Impacts:0.001ac**

Suitable CTS upland habitat present.



**Species Permit Map**

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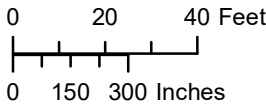
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- ▬ Culvert Work Zone/Temp Impacts (8.94ac)
- ▬ RSP/Perm Impacts (0.055ac)
- ▬ CTS Fencing Area (2570 linear ft)



**1:500**





**Culvert Location: 14**

**PM: 17.67**

**Culvert Work:**  
**Replace with 18" CSP**

**Culvert Work Zone: 0.033ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat present.



**Species Permit Map**

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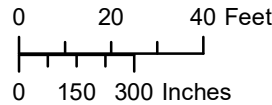
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▨ CTS Fencing Area (2570 linear ft)



**1:500**





**Culvert Location: 15**

**PM: 17.72**

**Culvert Work:**  
**Replace; 18"**

**Culvert Work Zone: 0.032ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat present.



PM 17.7

168

**Species Permit Map**

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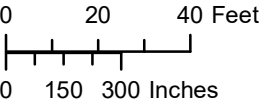
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▨ CTS Fencing Area (2570 linear ft)



**1:500**





**Culvert Location: 16**

**PM: 17.86**

**Culvert Work:  
Replace; 18"**

**Culvert Work Zone: 0.032ac**

**RSP/Perm Impacts:0.001ac**

Suitable CTS upland habitat present.



**Species Permit Map**

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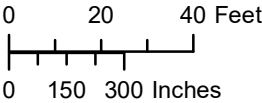
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- ▬ Culvert Work Zone/Temp Impacts (8.94ac)
- ▬ RSP/Perm Impacts (0.055ac)
- ▬ CTS Fencing Area (2570 linear ft)



**1:500**





**Culvert Location: 17**

**PM: T25.68**

**Culvert Work:**  
**Replace with 24" CSP**

**Culvert Work Zone: 0.082ac**  
**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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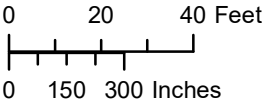
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 18**

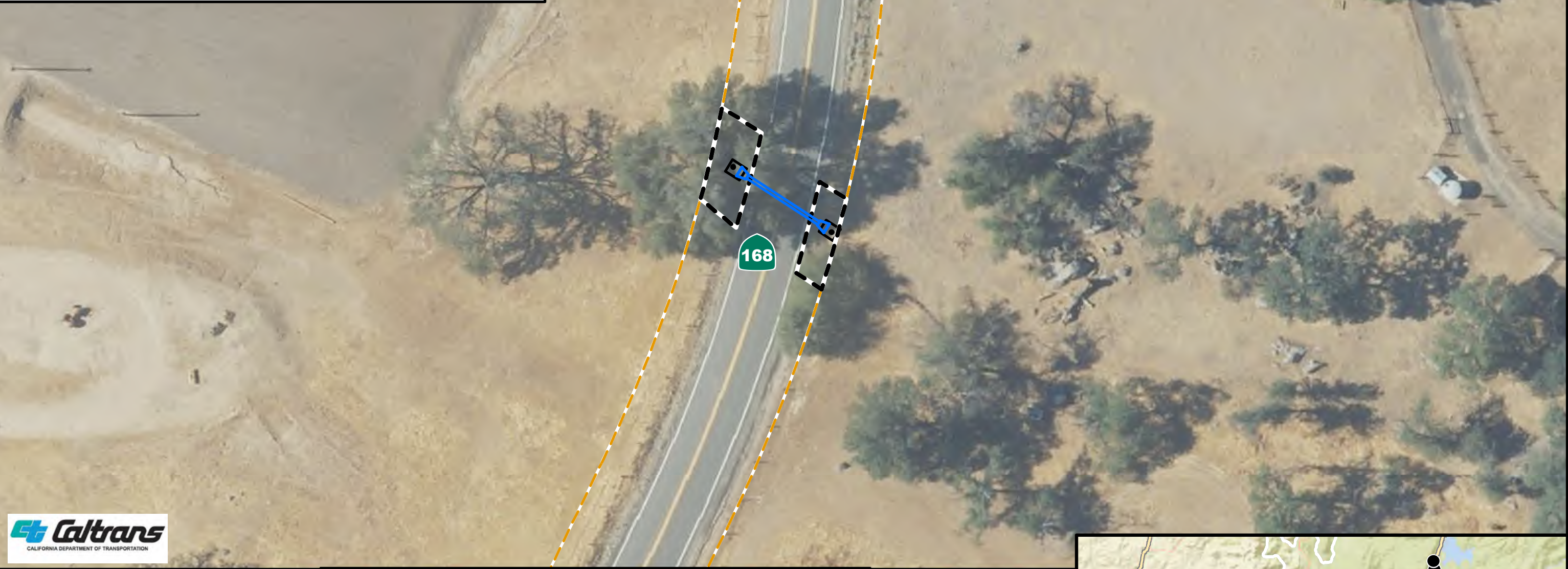
**PM: T25.81**

**Culvert Work:  
Replace with 24" CSP**

**Culvert Work Zone: 0.029ac**

**RSP/Perm Impacts:0.002ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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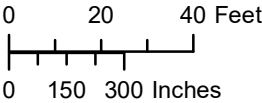
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





Culvert Location: 19

PM: R26.00

Culvert Work:  
Replace;

Culvert Work Zone: 0.027ac

RSP/Perm Impacts:ac

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



Species Permit Map

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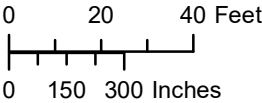
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 20**

**PM: R26.06**

**Culvert Work:  
Replace;**

**Culvert Work Zone: 0.037ac**

**RSP/Perm Impacts:0.001ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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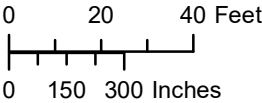
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 21**

**PM: T26.48**

**Culvert Work:  
Replace section**

**Culvert Work Zone: 0.02ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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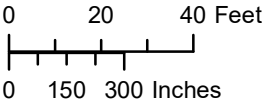
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 22**

**PM: T26.62**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.032ac**  
**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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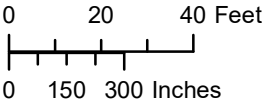
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 23**

**PM: T26.66**

**Culvert Work:**  
**Replace with CSP**

**Culvert Work Zone: 0.073ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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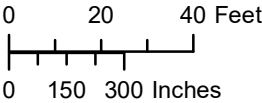
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 24**

**PM: T26.77**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.025ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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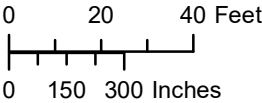
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 25**

**PM: T26.86**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.028ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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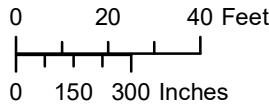
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 26-27**

**PM: T26.94**

**Culvert Work:**  
**Replace with CSP**

**Culvert Work Zone: 0.03ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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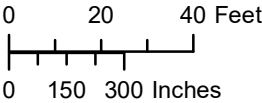
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 28**

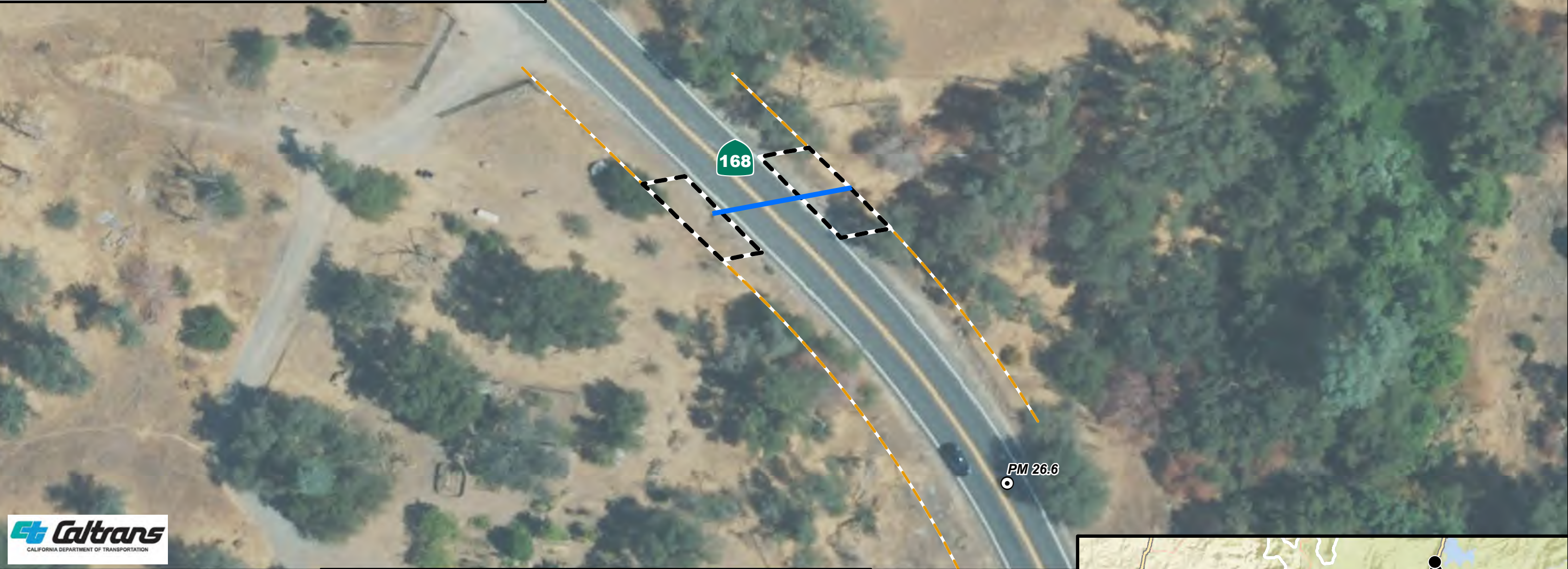
**PM: T27.08**

**Culvert Work:**  
**Replace with CSP**

**Culvert Work Zone: 0.035ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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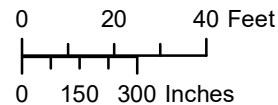
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





Culvert Location: 29

PM: T27.34

Culvert Work:  
Replace;

Culvert Work Zone: 0.014ac

RSP/Perm Impacts:ac

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



Species Permit Map

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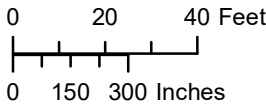
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



1:500





Culvert Location: 30

PM: T27.43

Culvert Work:  
Replace;

Culvert Work Zone: 0.012ac

RSP/Perm Impacts:ac

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



Species Permit Map

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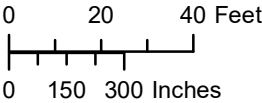
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 31**

**PM: T27.53**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.019ac**  
**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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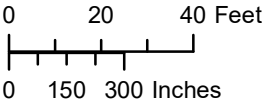
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 32**

**PM: T27.63**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.03ac**  
**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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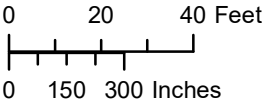
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 33**

**PM: T27.79**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.052ac**

**RSP/Perm Impacts:0.003ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present








**Species Permit Map**

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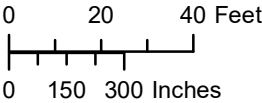
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

-  Postmiles
-  Existing ROW
-  Culverts
-  Culvert Work Zone/Temp Impacts (8.94ac)
-  RSP/Perm Impacts (0.055ac)



**1:500**





Culvert Location: 34

PM: T27.85

Culvert Work:  
Replace with RCB 5Wx4H

Culvert Work Zone: 0.053ac

RSP/Perm Impacts:ac

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



Species Permit Map

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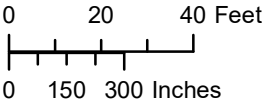
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 36**

**PM: T28.11**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.032ac**

**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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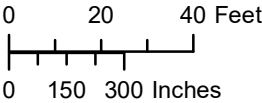
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 37**

**PM: T28.29**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.028ac**  
**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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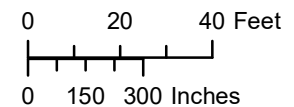
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 38**

**PM: T28.40**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.04ac**  
**RSP/Perm Impacts:ac**

Suitable CTS upland habitat & CBB foraging/overwintering habitat present



**Species Permit Map**

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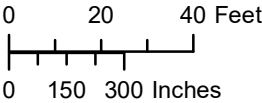
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 40**

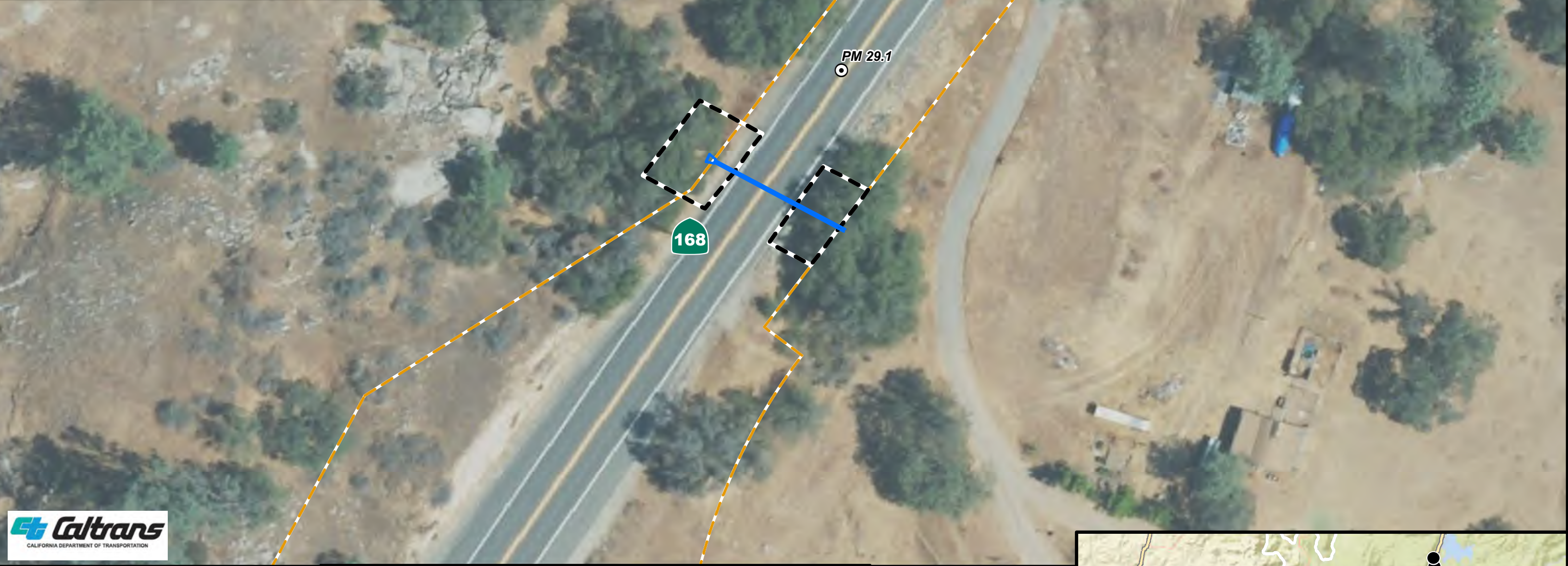
**PM: R28.94**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.046ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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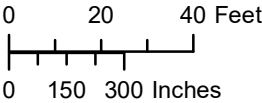
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 41**

**PM: R28.98**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.033ac**  
**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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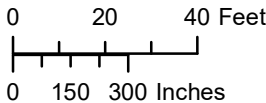
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





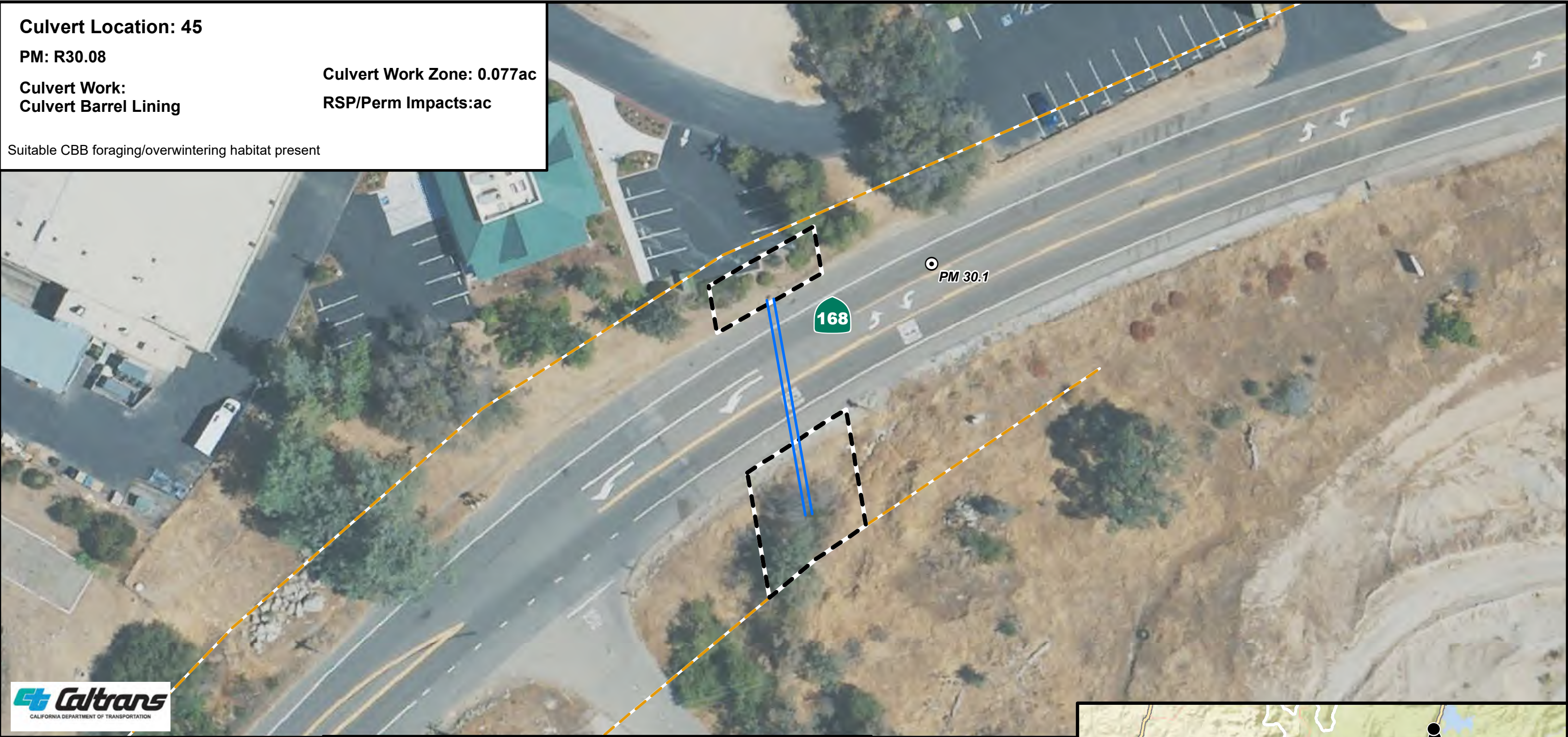
Culvert Location: 45

PM: R30.08

Culvert Work:  
Culvert Barrel Lining

Culvert Work Zone: 0.077ac  
RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering habitat present



Species Permit Map

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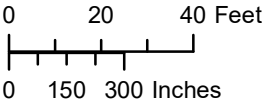
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 46**

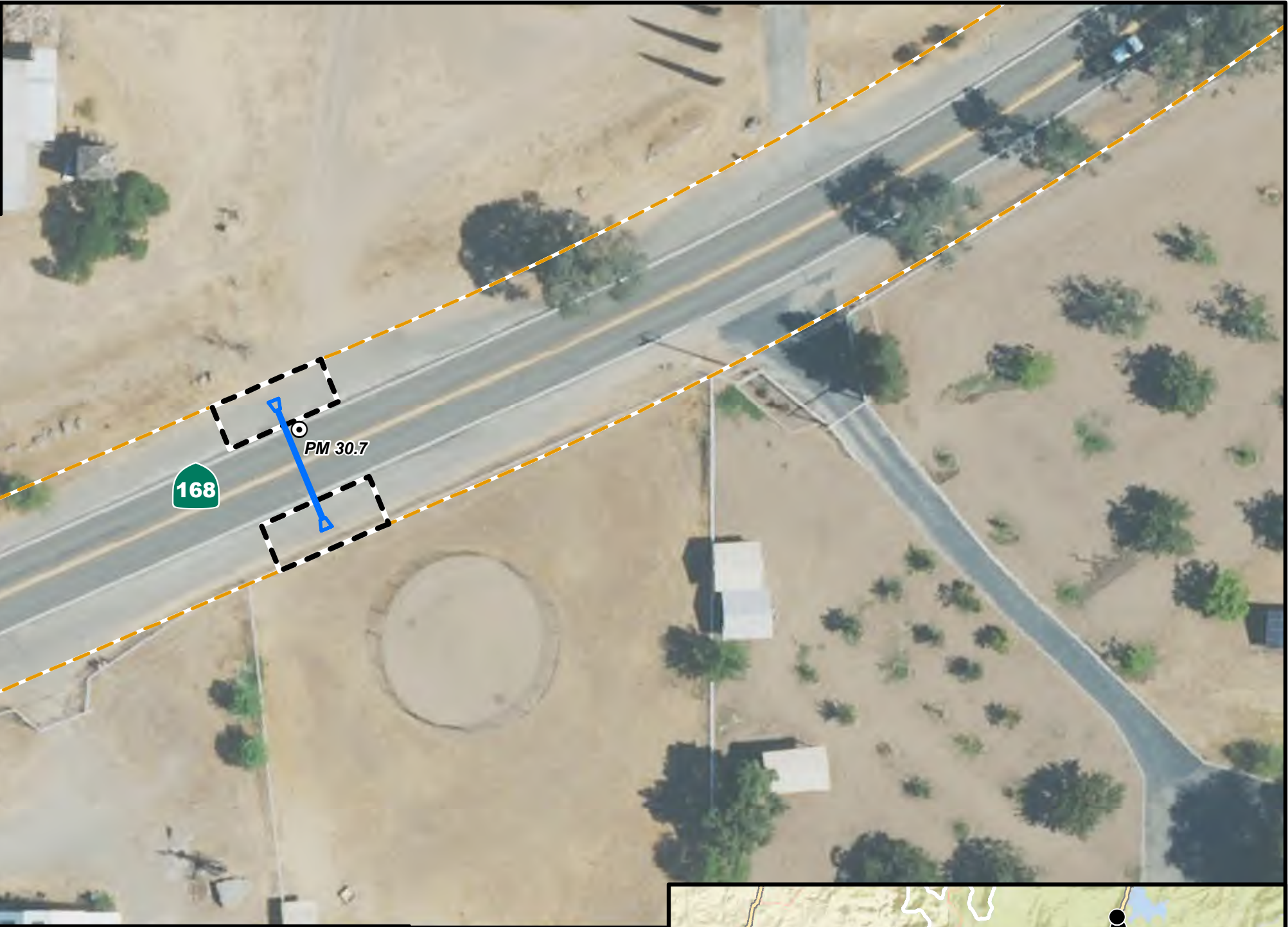
**PM: T30.66**

**Culvert Work:  
Replace with CSP**

**Culvert Work Zone: 0.03ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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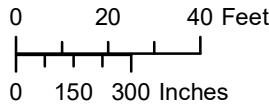
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 48**

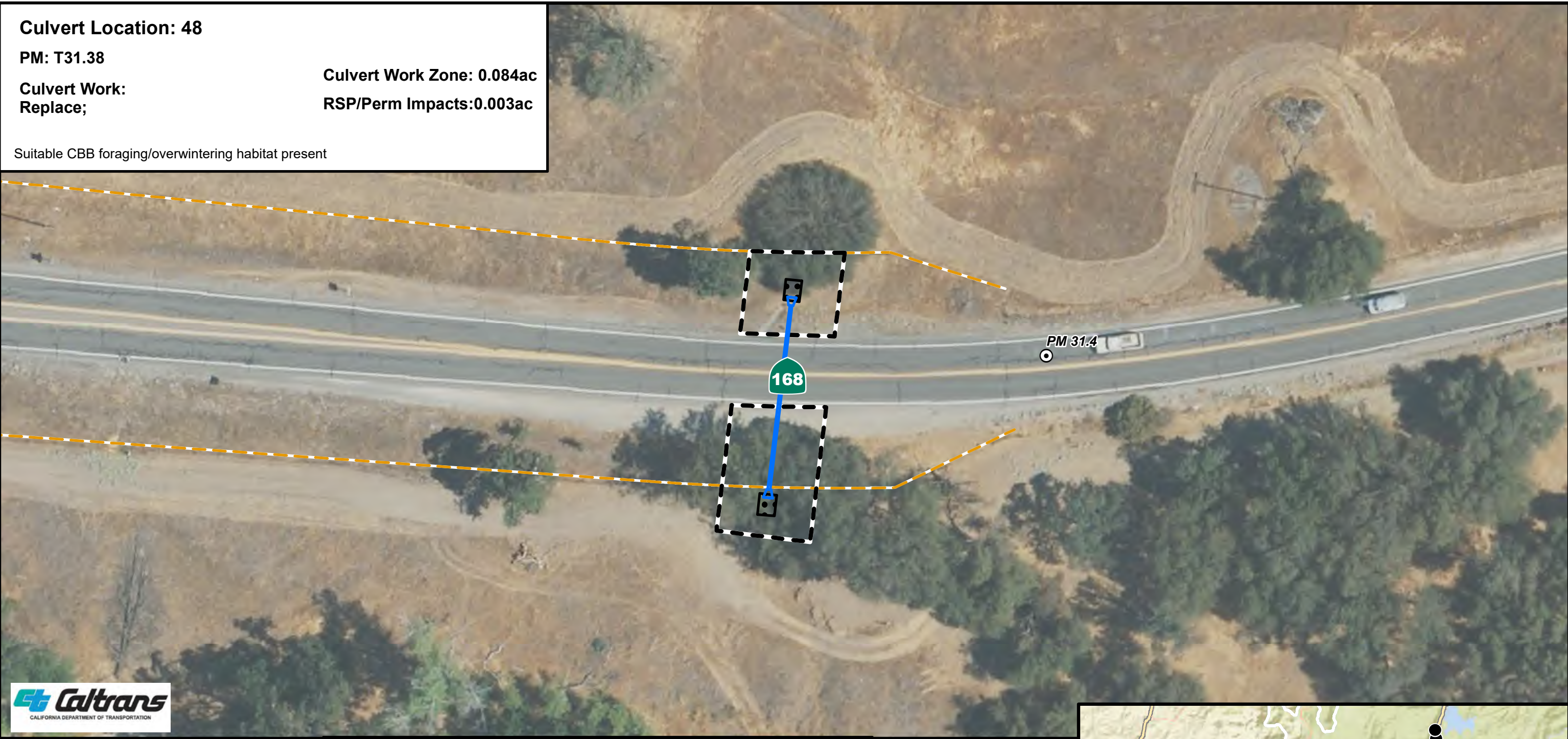
**PM: T31.38**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.084ac**

**RSP/Perm Impacts:0.003ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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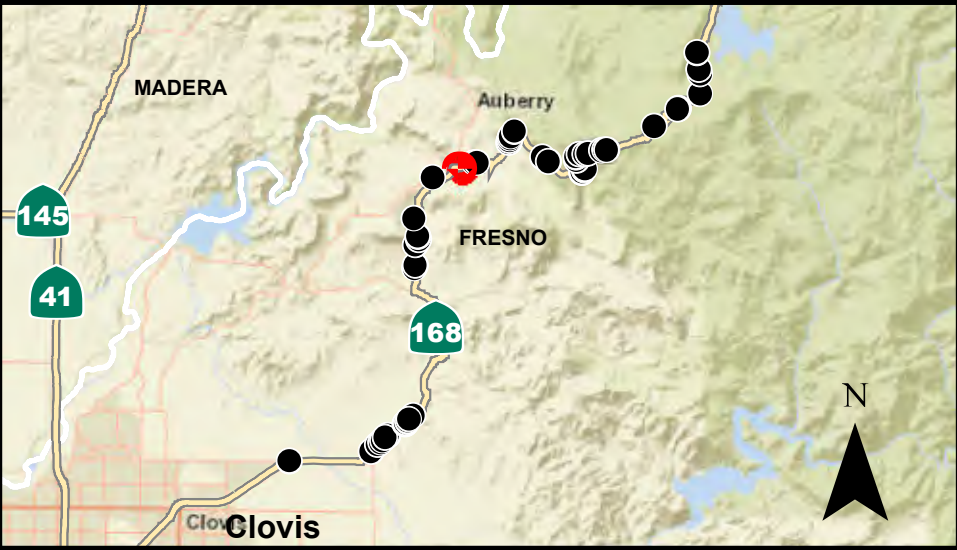
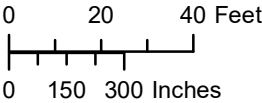
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





Culvert Location: 49

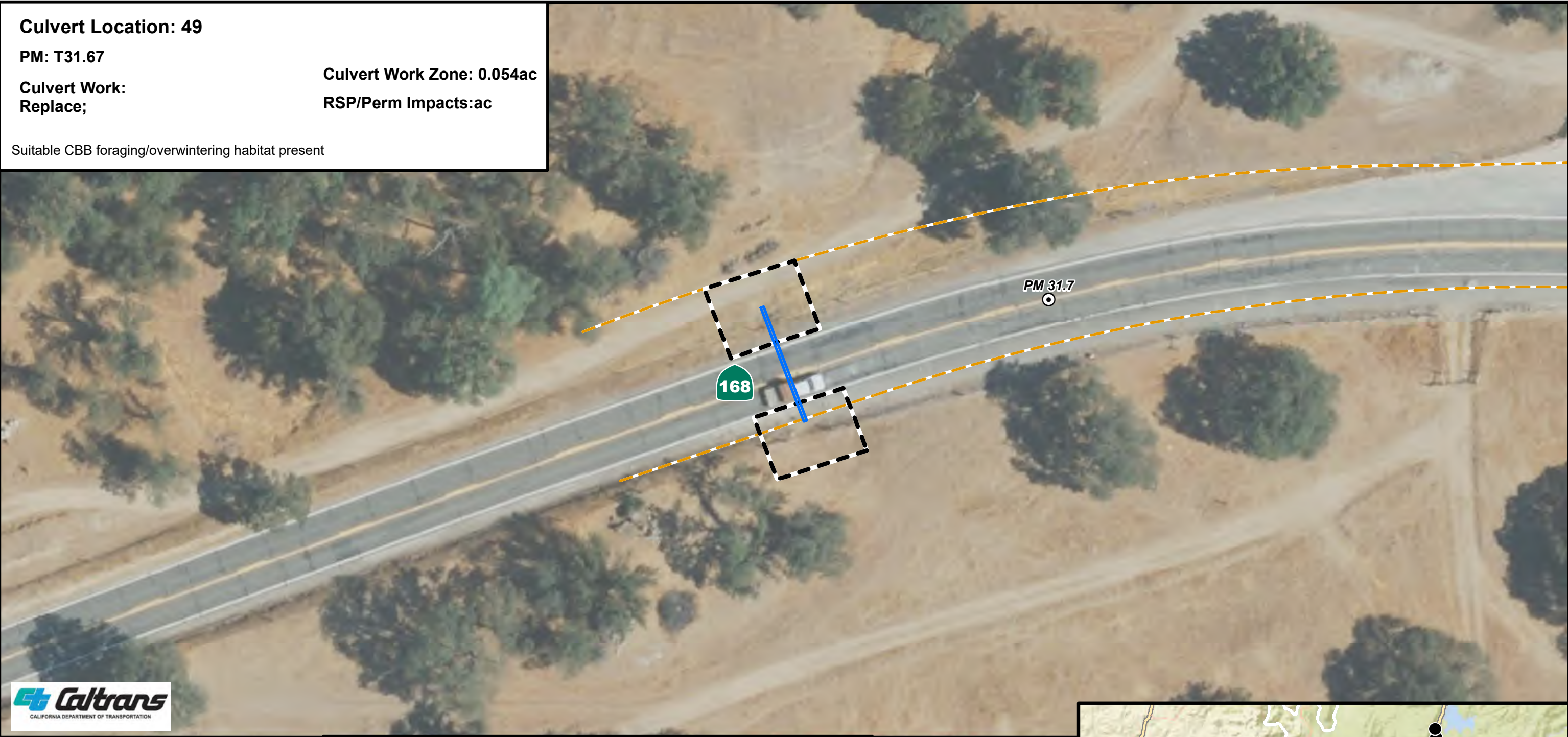
PM: T31.67

Culvert Work:  
Replace;

Culvert Work Zone: 0.054ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering habitat present



Species Permit Map

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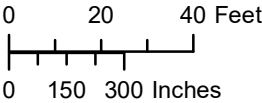
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 50**

**PM: T31.74**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.083ac**  
**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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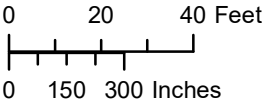
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 51**

**PM: T31.81**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.043ac**

**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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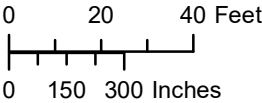
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- ▭ Culvert Work Zone/Temp Impacts (8.94ac)
- ▭ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 52**

**PM: T31.89**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.059ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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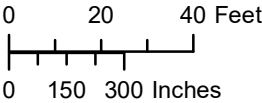
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 53**

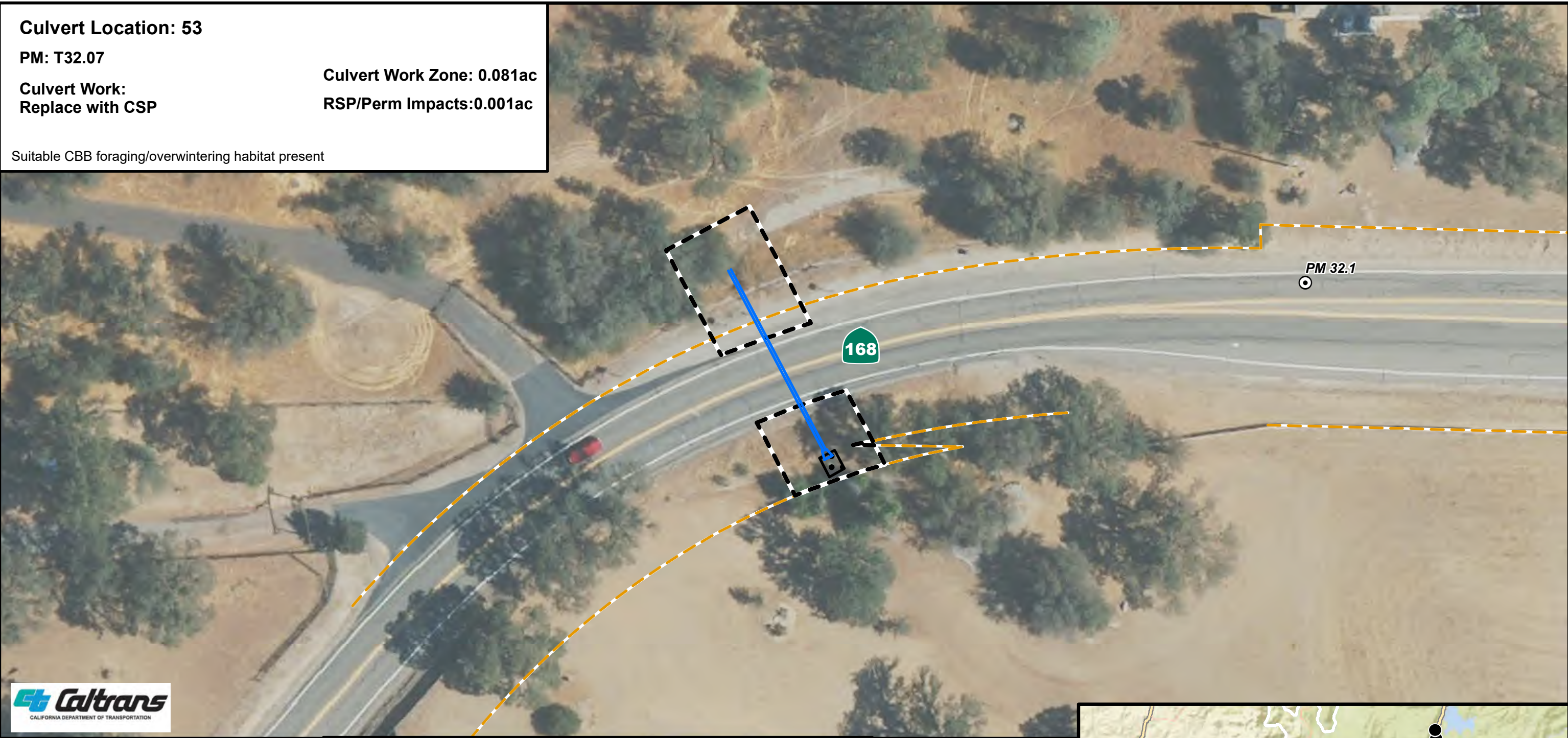
**PM: T32.07**

**Culvert Work:**  
**Replace with CSP**

**Culvert Work Zone: 0.081ac**

**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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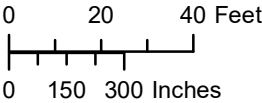
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▢ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 54**

**PM: T32.17**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.04ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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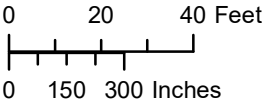
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





Culvert Location: 55

PM: T32.59

Culvert Work:  
Invert Repair  
Stabilize Embankment

Culvert Work Zone: 0.045ac  
RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering habitat present



Species Permit Map

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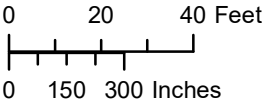
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 56**

**PM: L28.52**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.278ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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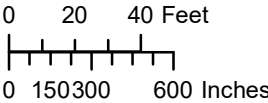
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:700**





**Culvert Location: 57**

**PM: L28.63**

**Culvert Work:**  
**Replace with CSP**

**Culvert Work Zone: 0.077ac**

**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 58**

**PM: L28.75**

**Culvert Work:  
Replace with CSP**

**Culvert Work Zone: 0.073ac**

**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present







**Species Permit Map**

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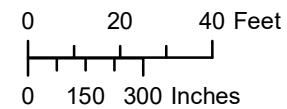
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

-  Existing ROW
-  Culverts
-  Culvert Work Zone/Temp Impacts (8.94ac)
-  RSP/Perm Impacts (0.055ac)



**1:500**





Culvert Location: 59

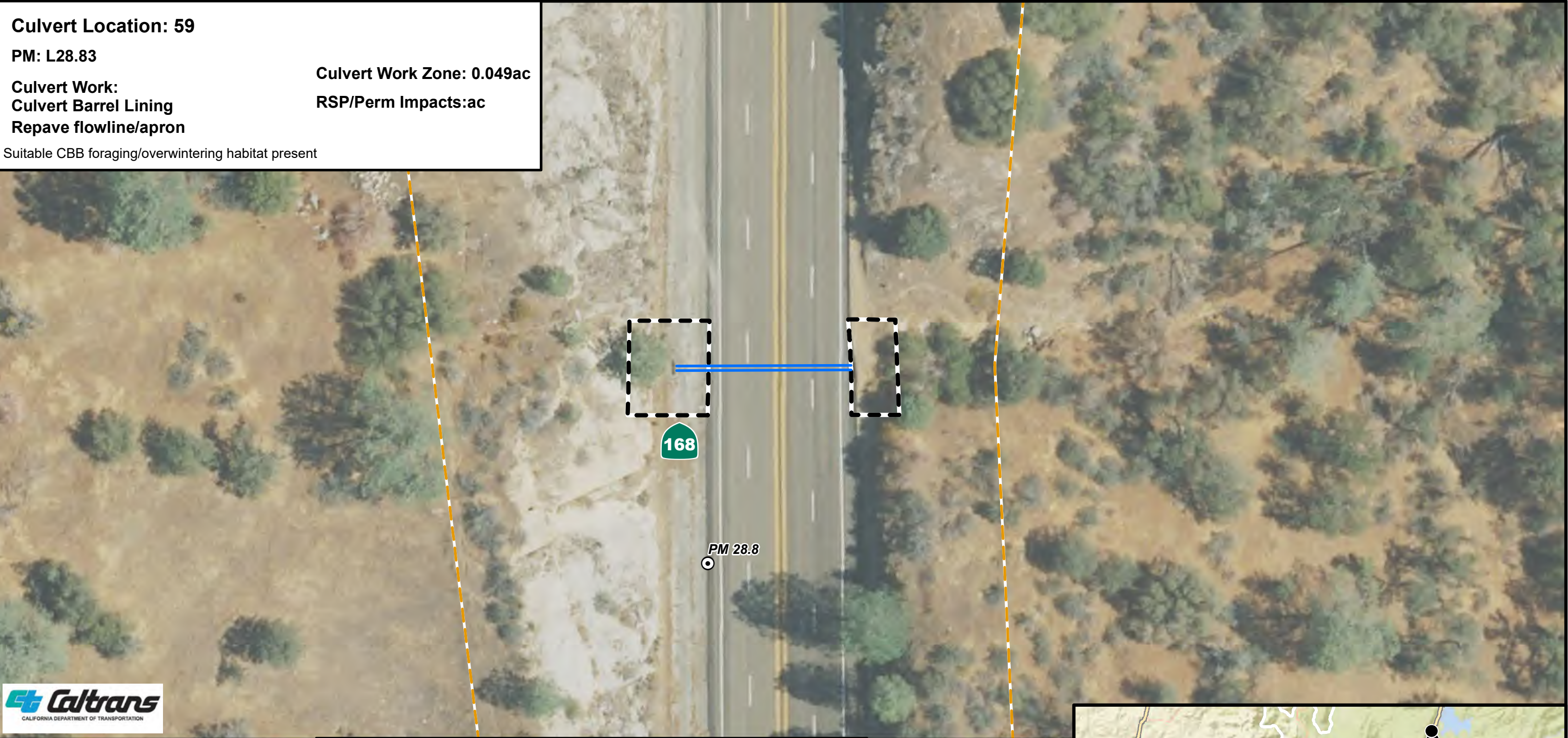
PM: L28.83

Culvert Work:  
Culvert Barrel Lining  
Repave flowline/apron

Culvert Work Zone: 0.049ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering habitat present



Species Permit Map

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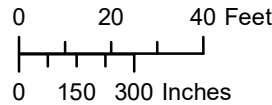
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 60**

**PM: L29.03**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.137ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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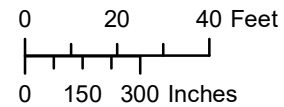
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 62-63**

**PM: L29.69**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.099ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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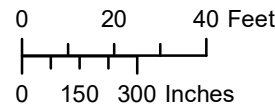
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 64**

**PM: L30.56**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.085ac**

**RSP/Perm Impacts:0.002ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- ▬ Culvert Work Zone/Temp Impacts (8.94ac)
- ▬ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 66**

**PM: L30.63**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.053ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 67**

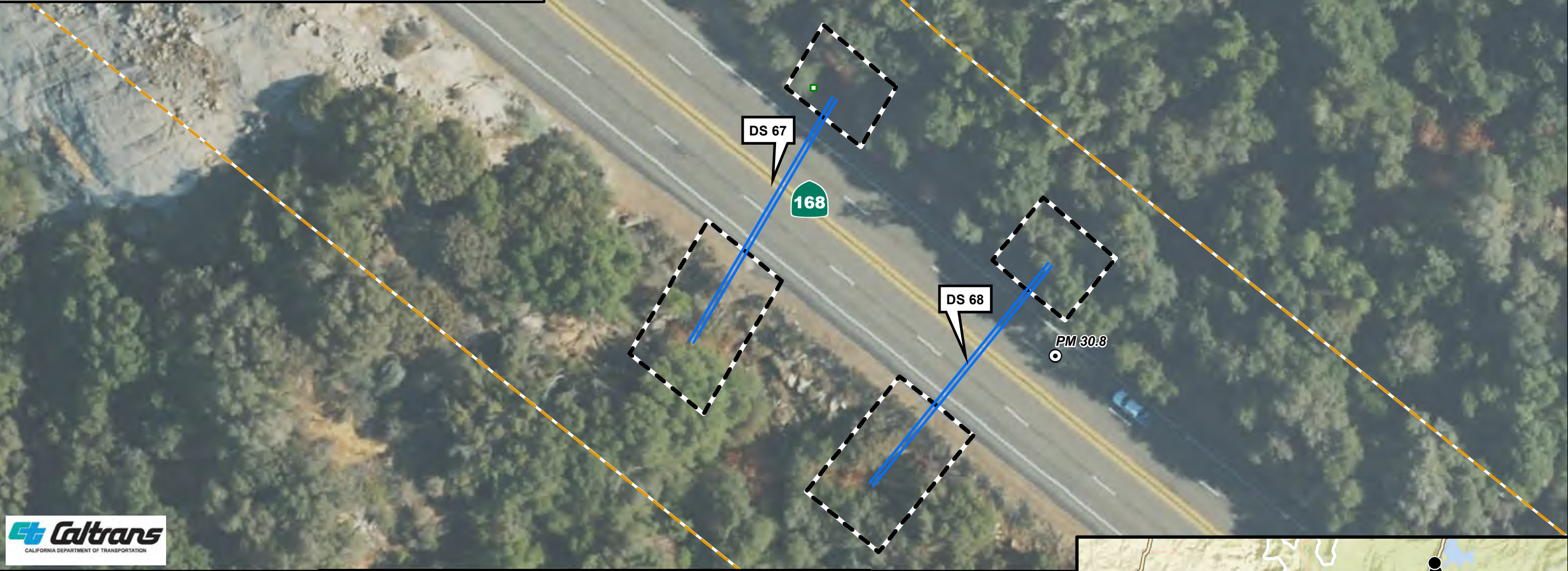
**PM: L30.77**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.088ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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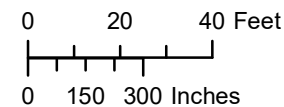
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- Carpenteria Survey



**1:500**





**Culvert Location: 68**

**PM: L30.79**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.089ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present

DS 67

DS 68

PM 30.8

168



**Species Permit Map**

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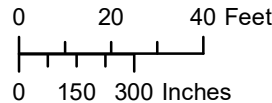
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▣ Carpenteria Survey



**1:500**





Culvert Location: 69

PM: L30.82

Culvert Work:  
Culvert Barrel Lining

Culvert Work Zone: 0.088ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering & Tree anemone habitat present



Species Permit Map

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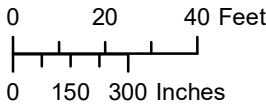
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- ARD Carpenteria
- Carpenteria Survey



1:500





Culvert Location: 70

PM: L31.04

Culvert Work:  
Culvert Barrel Lining

Culvert Work Zone: 0.125ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering & Tree anemone habitat present



Species Permit Map

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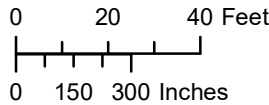
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- Carpenteria Survey



1:500





**Culvert Location: 71**

**PM: L31.09**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.108ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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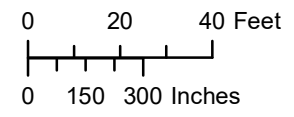
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- ARD Carpenteria
- Carpenteria Survey



**1:500**





**Culvert Location: 72**

**PM: L31.23**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.069ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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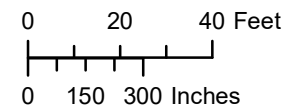
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 73**

**PM: L31.35**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.096ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▣ ARD Carpenteria
- ▣ Carpenteria Survey



**1:500**





Culvert Location: 74

PM: L31.38

Culvert Work:  
Culvert Barrel Lining

Culvert Work Zone: 0.103ac  
RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering & Tree anemone habitat present



Species Permit Map

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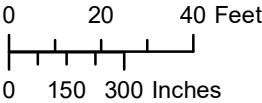
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▣ ARD Carpenteria
- ▣ Carpenteria Survey



1:500





**Culvert Location: 75**

**PM: L31.50**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.062ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- ARD Carpenteria



**1:500**





**Culvert Location: 76**

**PM: L31.60**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.093ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▣ Carpenteria Survey



**1:500**





**Culvert Location: 77**

**PM: R32.72**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.055ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▣ Carpenteria Survey



**1:500**





**Culvert Location: 78**

**PM: R32.78**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.145ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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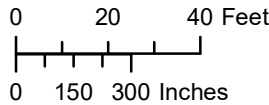
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▣ ARD Carpenteria
- ▣ Carpenteria Survey



**1:500**





**Culvert Location: 79**

**PM: R32.82**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.073ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



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**FRESNO COUNTY 168 Culvert Rehab**  
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**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▣ ARD Carpenteria
- ▣ Carpenteria Survey



**1:500**





**Culvert Location: 80**

**PM: R32.96**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.132ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



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**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▣ ARD Carpenteria
- ▣ Carpenteria Survey



**1:500**





**Culvert Location: 81**

**PM: R33.00**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.068ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 84**

**PM: R33.26**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.052ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
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**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 87**

**PM: R33.50**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.092ac**

**RSP/Perm Impacts:0.003ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▤ RSP/Perm Impacts (0.055ac)
- ▣ ARD Carpenteria
- ▣ Carpenteria Survey



**1:500**





**Culvert Location: 88**

**PM: R33.65**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.215ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



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**FRESNO COUNTY 168 Culvert Rehab  
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**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 89**

**PM: R33.79**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.078ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



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Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 90**

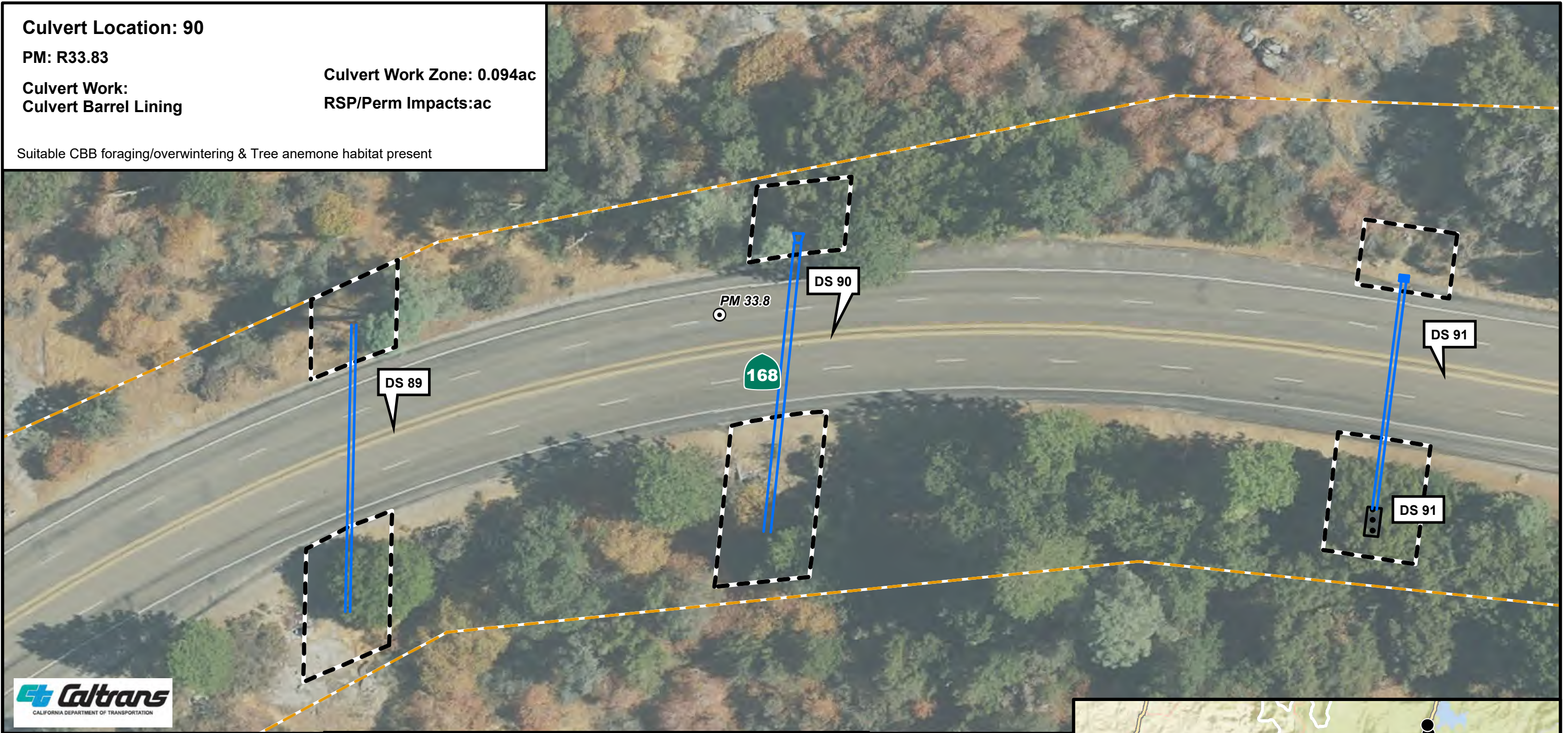
**PM: R33.83**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.094ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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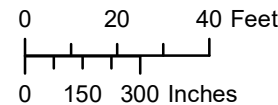
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- ⌈ Culvert Work Zone/Temp Impacts (8.94ac)
- ⌈ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 91**

**PM: R33.88**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.072ac**

**RSP/Perm Impacts:0.002ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



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**FRESNO COUNTY 168 Culvert Rehab**  
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**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- ▭ Culvert Work Zone/Temp Impacts (8.94ac)
- ▭ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 92**

**PM: R33.99**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.069ac**

**RSP/Perm Impacts:0.002ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



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**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)
- ARD Carpenteria
- Carpenteria Survey



**1:500**





Culvert Location: 93

PM: R34.09

Culvert Work:  
Culvert Barrel Lining

Culvert Work Zone: 0.129ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering & Tree anemone habitat present



Species Permit Map

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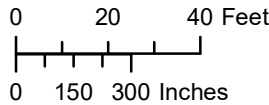
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▢ RSP/Perm Impacts (0.055ac)



1:500





**Culvert Location: 94**

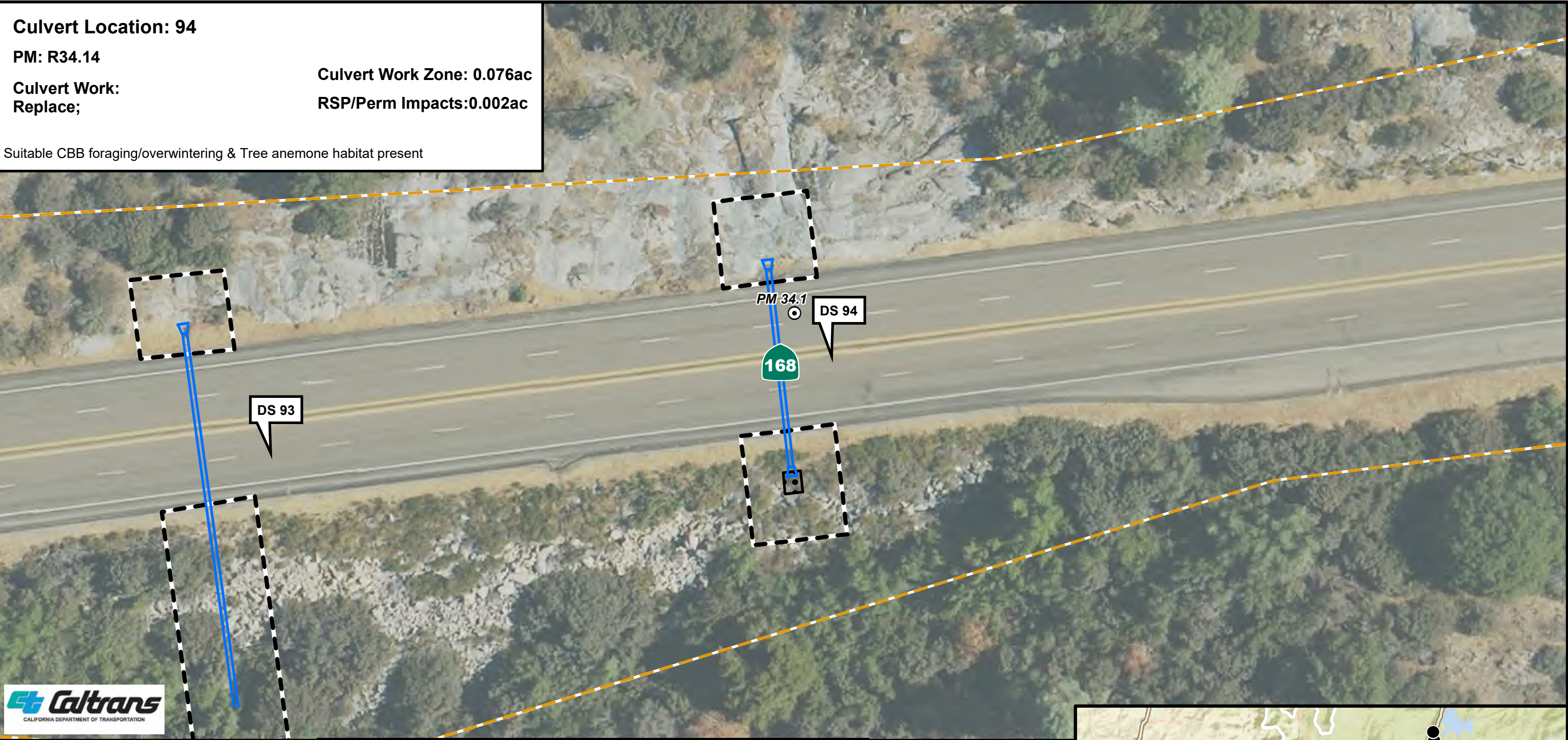
**PM: R34.14**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.076ac**

**RSP/Perm Impacts:0.002ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- ▭ Culvert Work Zone/Temp Impacts (8.94ac)
- ▭ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 95**

**PM: R34.23**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.058ac**

**RSP/Perm Impacts:0.002ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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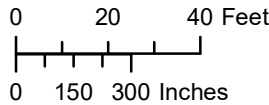
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- ▭ Culvert Work Zone/Temp Impacts (8.94ac)
- ▭ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 96**

**PM: R34.32**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.066ac**  
**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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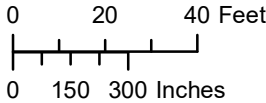
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 97-98**

PM: R34.37

Culvert Work:  
Replace;

Culvert Work Zone: 0.093ac

RSP/Perm Impacts:0.001ac

Suitable CBB foraging/overwintering & Tree anemone habitat present



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**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 99-100**

**PM: R34.40**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.09ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



**Species Permit Map**

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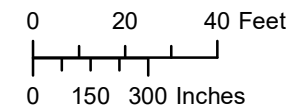
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 102**

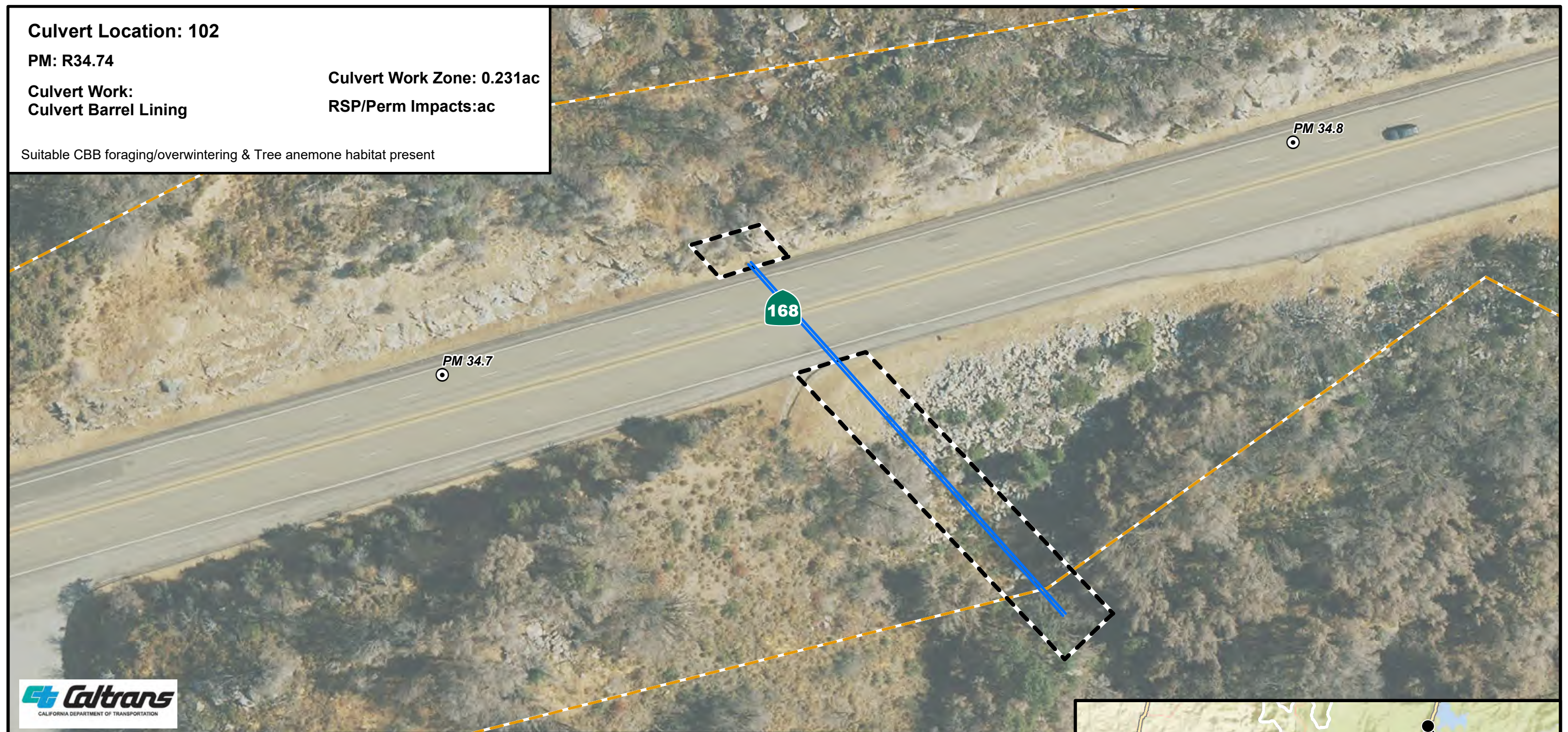
**PM: R34.74**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.231ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering & Tree anemone habitat present



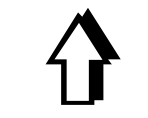
**Species Permit Map**

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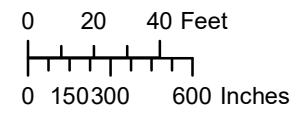
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:700**





Culvert Location: 103

PM: R34.92

Culvert Work:  
Culvert Barrel Lining

Culvert Work Zone: 0.252ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering & Tree anemone habitat present



Species Permit Map

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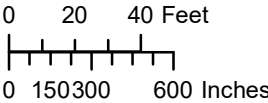
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:700





Culvert Location: 104

PM: R34.99

Culvert Work:  
Culvert Barrel Lining

Culvert Work Zone: 0.11ac  
RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering habitat present



Species Permit Map

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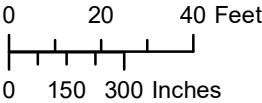
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 105**

**PM: R35.05**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.091ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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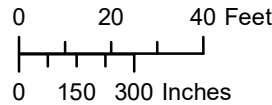
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 106**

PM: R35.12

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.135ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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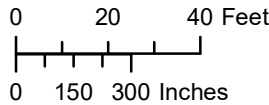
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 107**

PM: R35.18

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.146ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



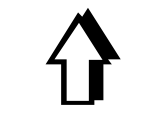
**Species Permit Map**

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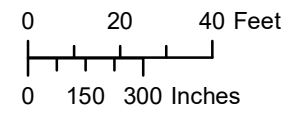
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 108**

**PM: R35.46**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.131ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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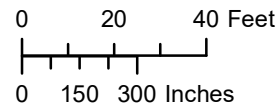
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 109**

**PM: R35.54**

**Culvert Work:**  
**Repair, Culvert Barrel Lining**

**Culvert Work Zone: 0.071ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



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**FRESNO COUNTY 168 Culvert Rehab**  
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**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 110**

**PM: R35.60**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.143ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



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**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





Culvert Location: 111

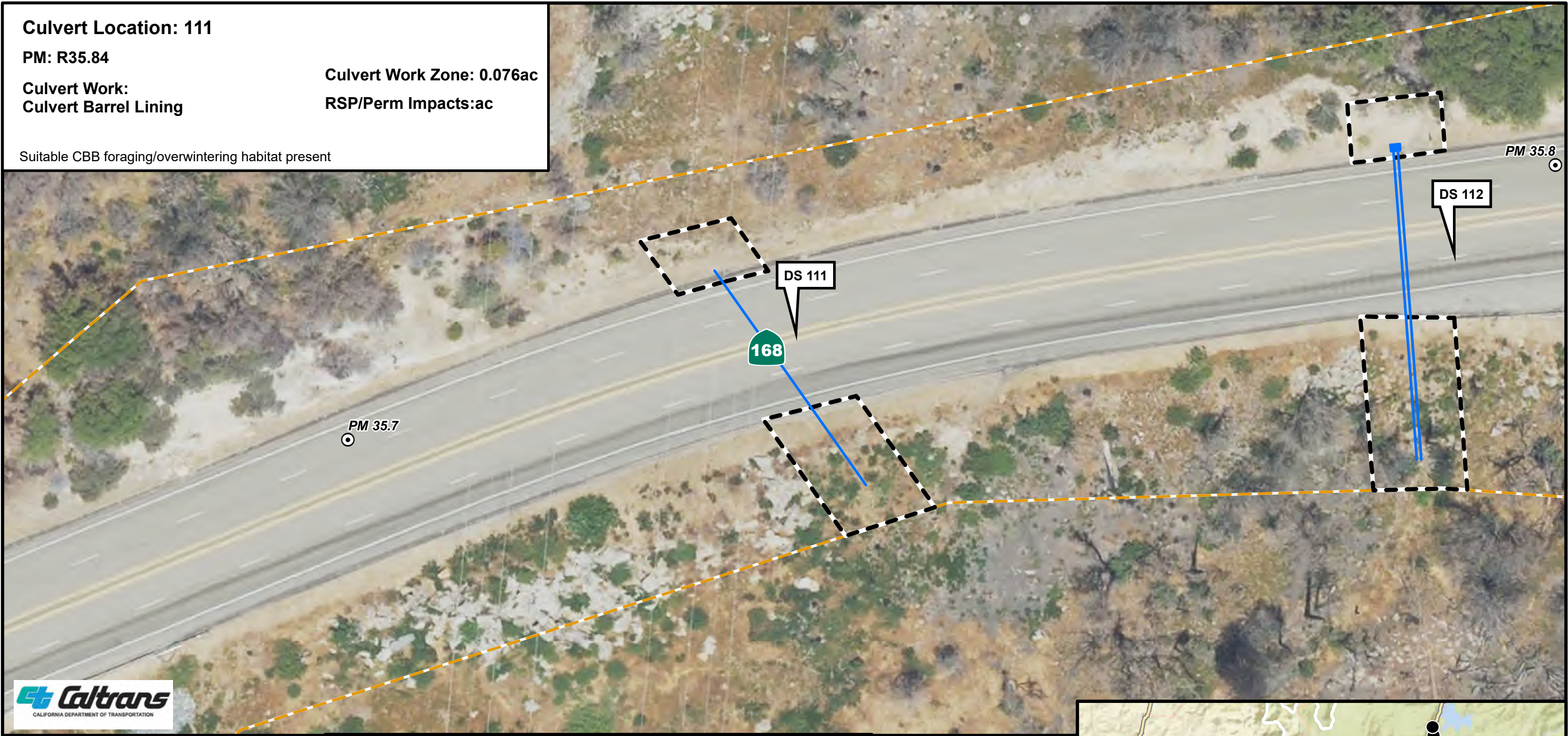
PM: R35.84

Culvert Work:  
Culvert Barrel Lining

Culvert Work Zone: 0.076ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering habitat present



Species Permit Map

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FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 112**

PM: R35.89

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.091ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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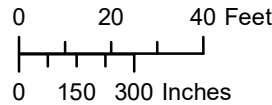
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 113**

PM: R35.95

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.147ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

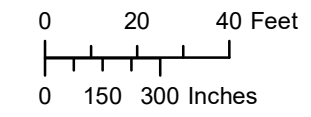
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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)

  
**1:500**





**Culvert Location: 114**

**PM: R35.98**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.168ac  
RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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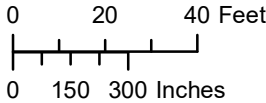
**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**









**Culvert Location: 117-118**

**PM: R36.25**

**Culvert Work:**  
**Culvert Barrel Lining**  
**Install Access ET**

Suitable CBB foraging/overwintering habitat present

**Culvert Work Zone: 0.127ac**

**RSP/Perm Impacts:ac**



**Species Permit Map**

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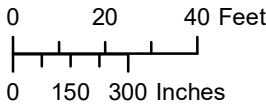
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 119**

**PM: R36.51**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.033ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





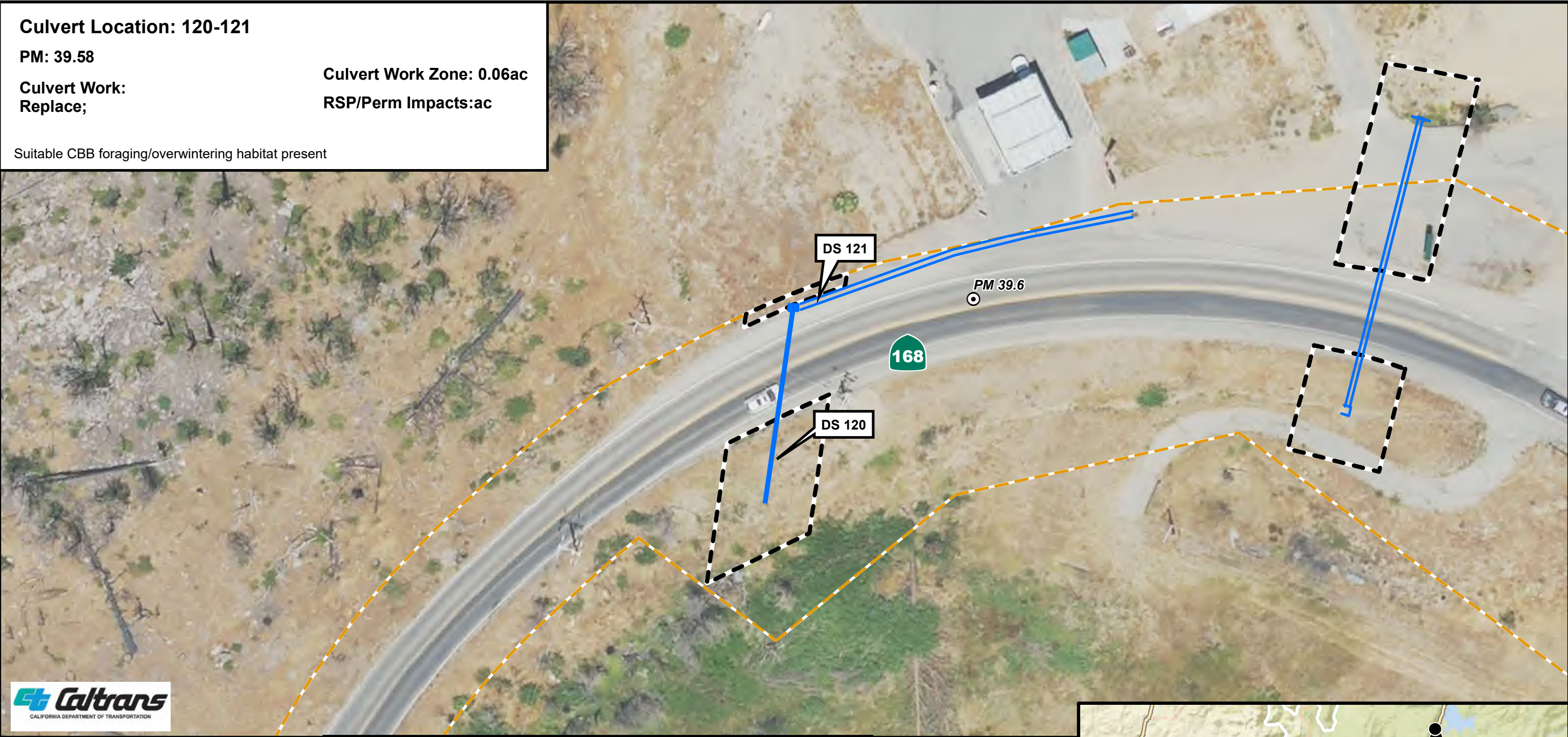
**Culvert Location: 120-121**

**PM: 39.58**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.06ac**  
**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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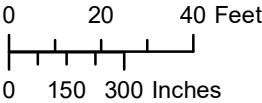
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 122**

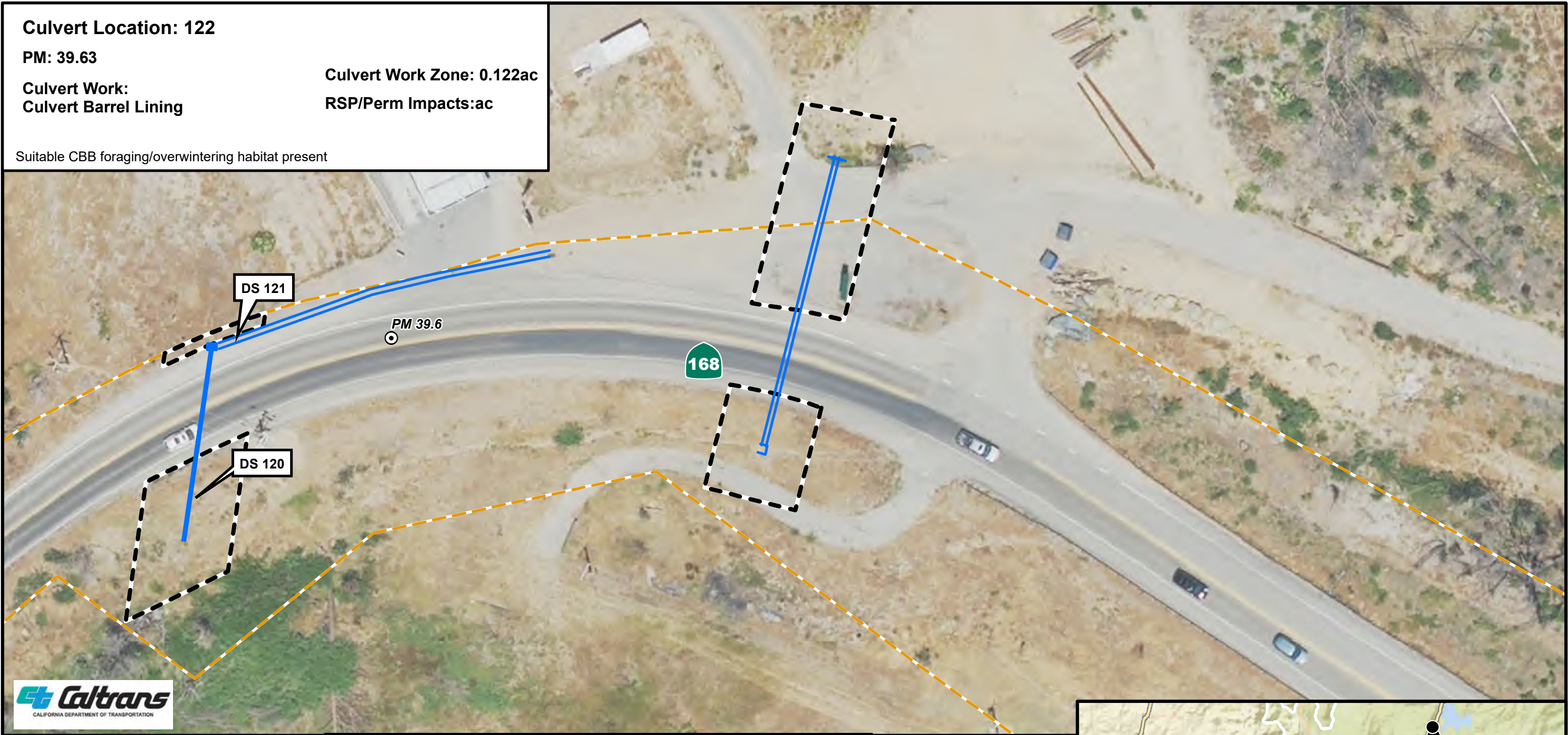
**PM: 39.63**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.122ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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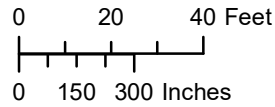
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 125**

**PM: 40.23**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.025ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





Culvert Location: 126

PM: 40.30

Culvert Work:  
Replace;

Culvert Work Zone: 0.026ac

RSP/Perm Impacts:0.001ac

Suitable CBB foraging/overwintering habitat present



Species Permit Map

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FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



1:500





**Culvert Location: 127**

**PM: 40.45**

**Culvert Work:**  
**Culvert Barrel Lining, Regrade**

**Culvert Work Zone: 0.03ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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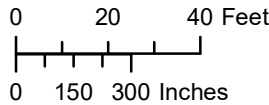
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 128**

**PM: 40.65**

**Culvert Work:**  
**Culvert Barrel Lining, Regrade**

**Culvert Work Zone: 0.032ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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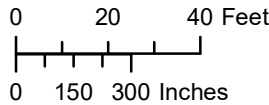
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 130**

**PM: 41.25**

**Culvert Work:**  
**Replace; 4' Section**

**Culvert Work Zone: 0.039ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 132**

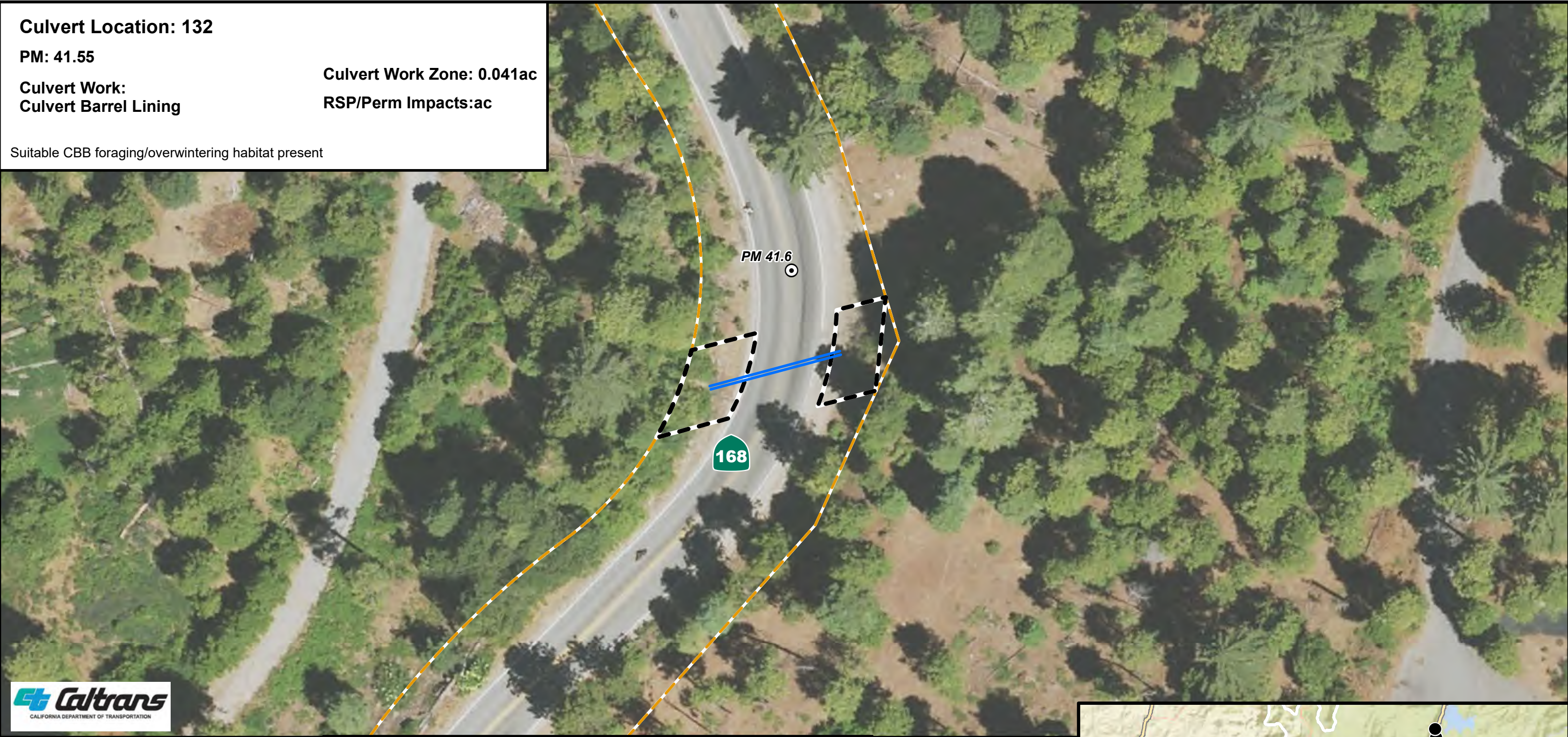
**PM: 41.55**

**Culvert Work:**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.041ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



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**FRESNO COUNTY 168 Culvert Rehab**  
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**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





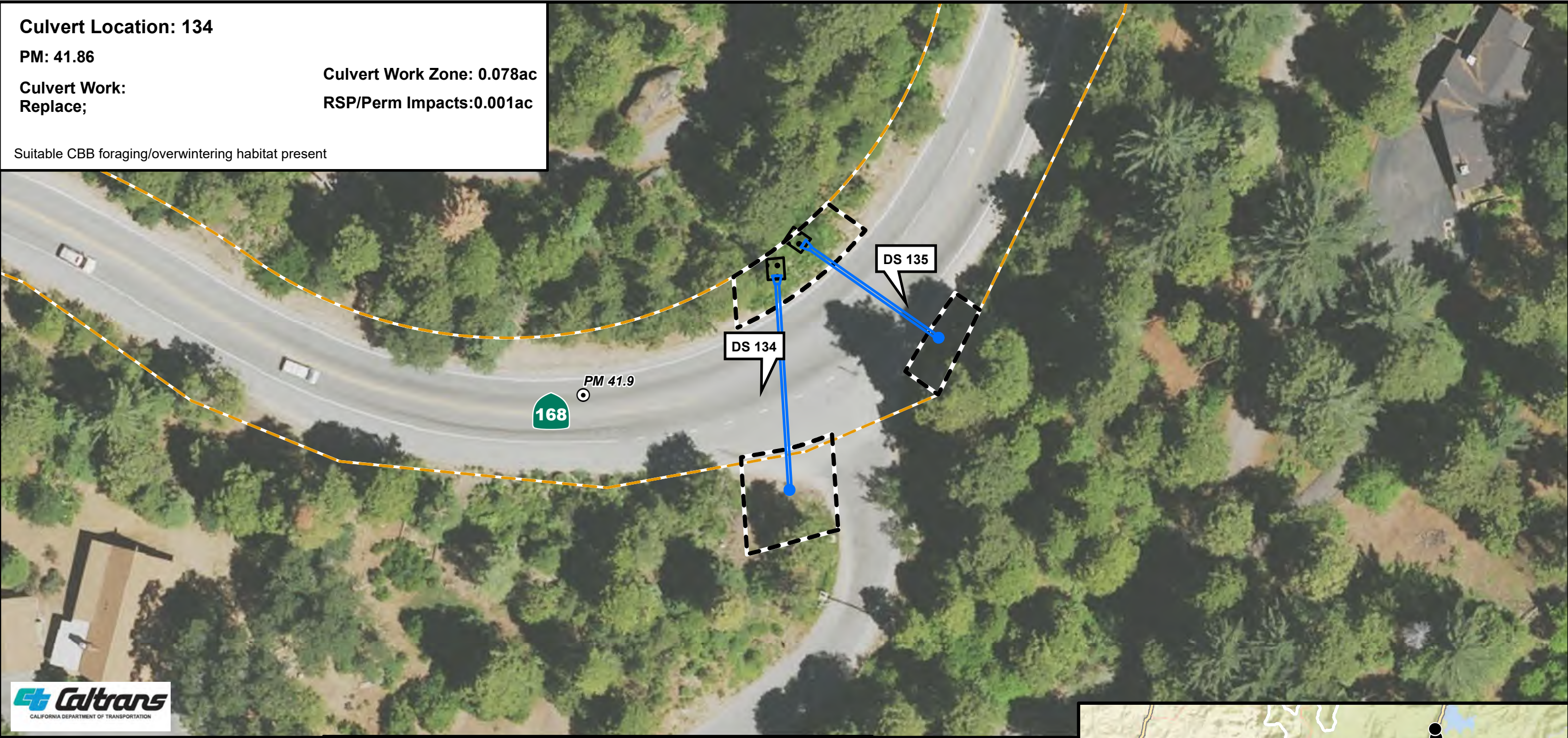
**Culvert Location: 134**

**PM: 41.86**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.078ac**  
**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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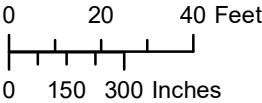
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ⋯ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 135**

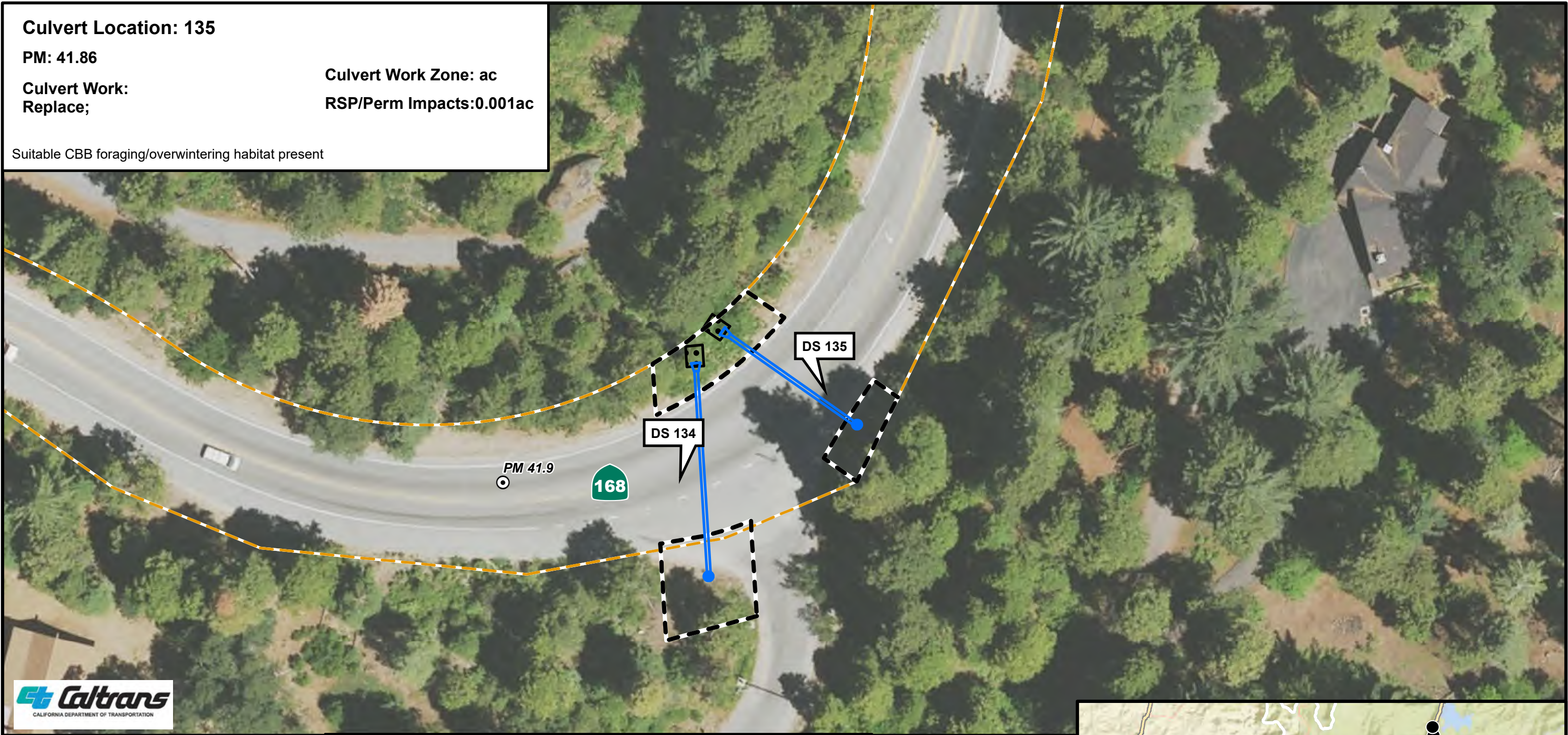
**PM: 41.86**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: ac**

**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





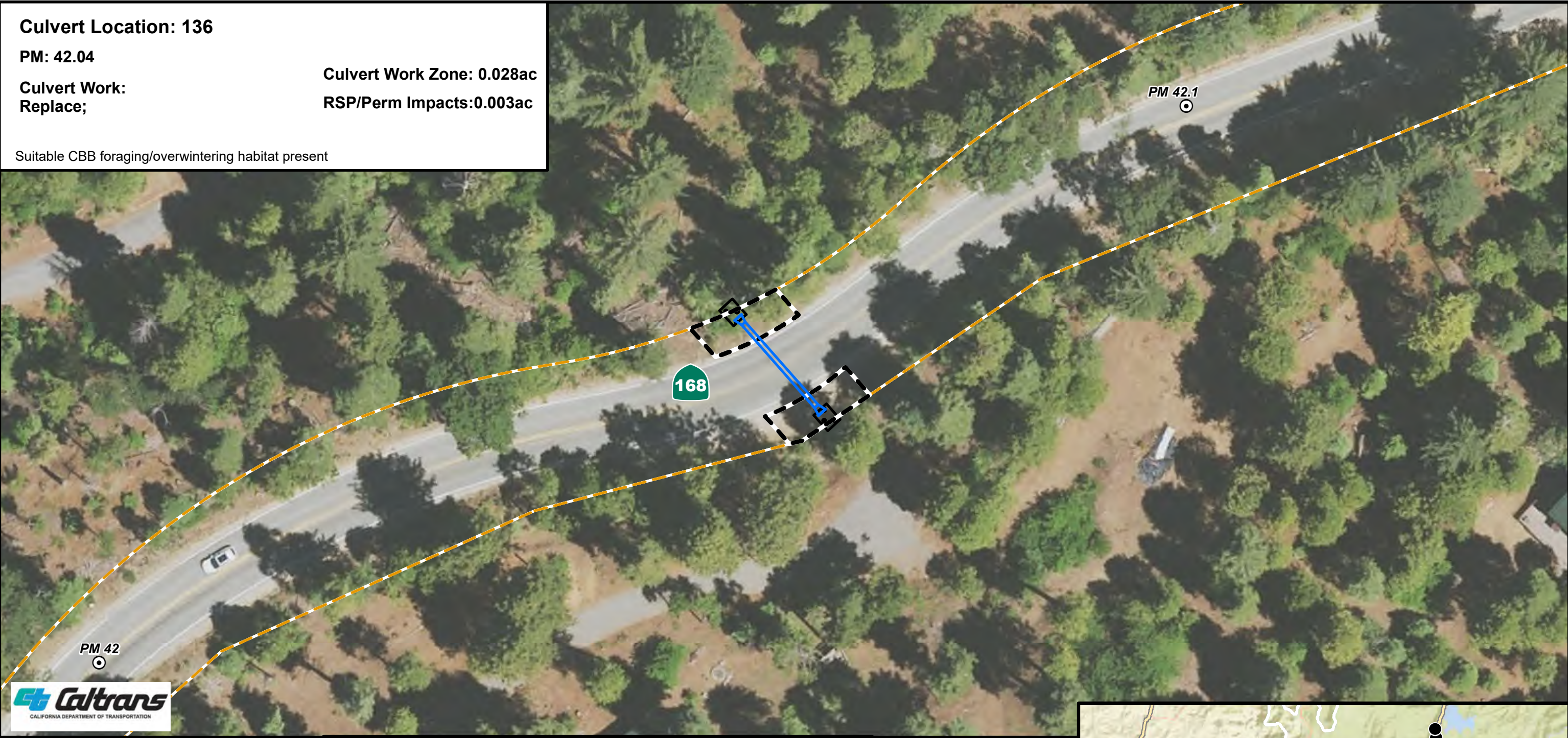
**Culvert Location: 136**

**PM: 42.04**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.028ac**  
**RSP/Perm Impacts:0.003ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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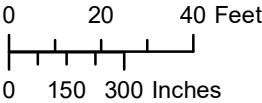
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 138-141**

**PM: R42.42**

**Culvert Work:**  
**Culvert Barrel Lining, Replace**

**Culvert Work Zone: 0.198ac**

**RSP/Perm Impacts:0.002ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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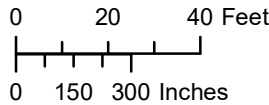
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ⬢ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 142**

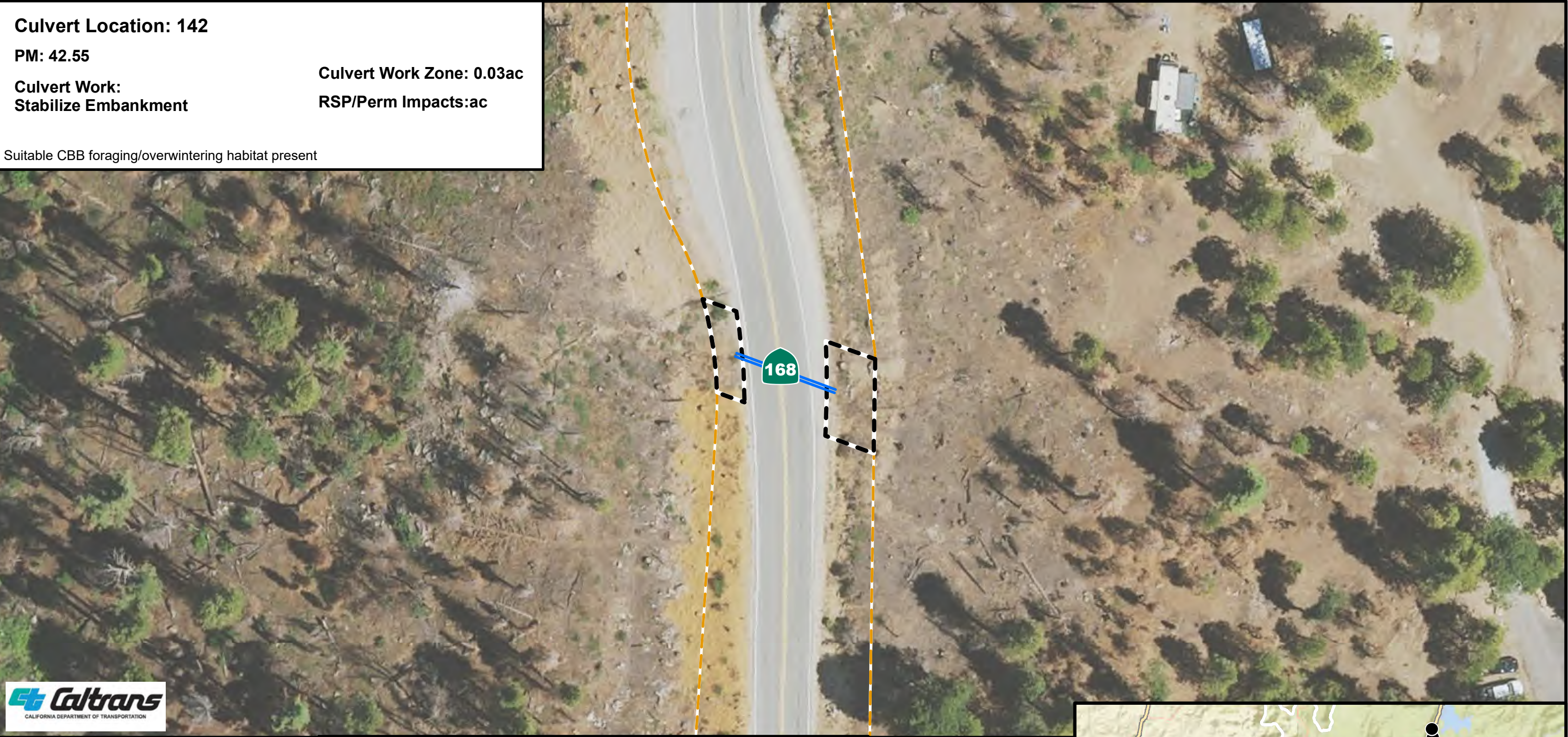
**PM: 42.55**

**Culvert Work:**  
**Stabilize Embankment**

**Culvert Work Zone: 0.03ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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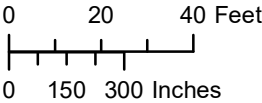
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





Culvert Location: 143

PM: 42.81

Culvert Work:  
Culvert Barrel Lining, Regrade

Culvert Work Zone: 0.029ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering habitat present



Species Permit Map

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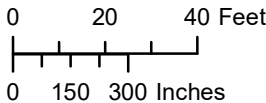
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500





Culvert Location: 144

PM: R42.90

Culvert Work:  
Stabilize Embankment

Culvert Work Zone: 0.038ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering habitat present



Species Permit Map

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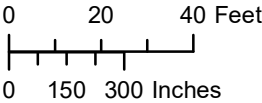
FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



1:500





**Culvert Location: 146**

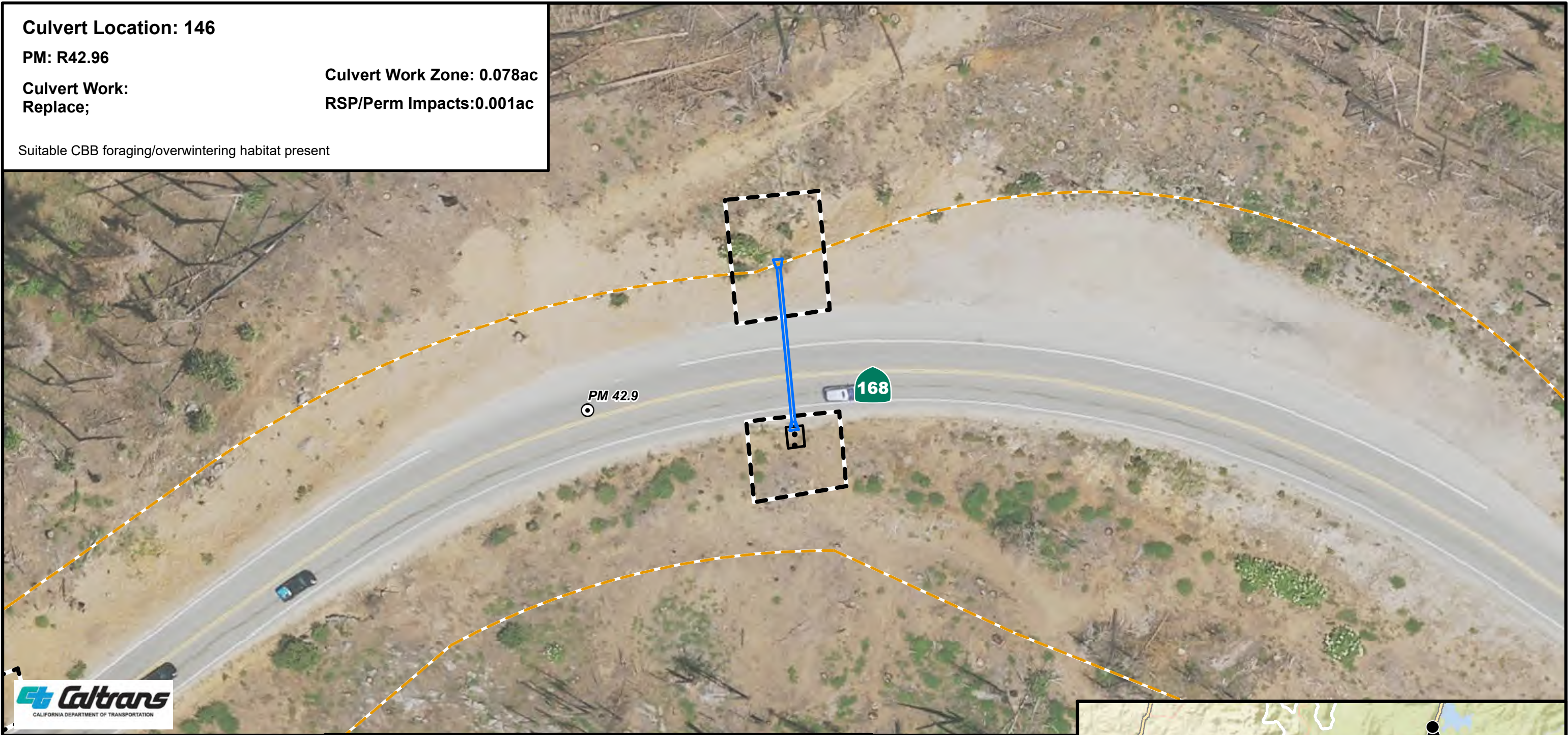
**PM: R42.96**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.078ac**

**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- ▭ Culvert Work Zone/Temp Impacts (8.94ac)
- ▭ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 148**

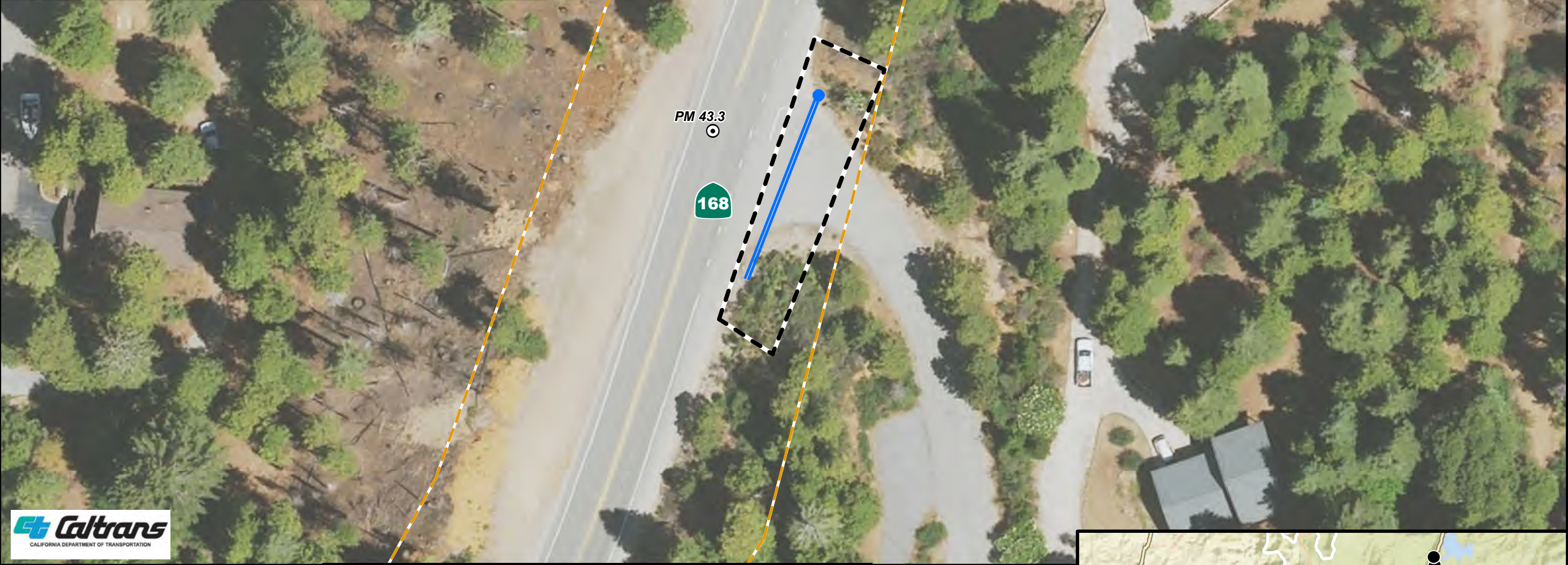
**PM: R43.30**

**Culvert Work:**  
**Stabilize Embankment**

**Culvert Work Zone: 0.087ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 149**

**PM: 43.71**

**Culvert Work:  
Culvert Barrel Lining**

**Culvert Work Zone: 0.025ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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**FRESNO COUNTY 168 Culvert Rehab  
06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200  
Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 150**

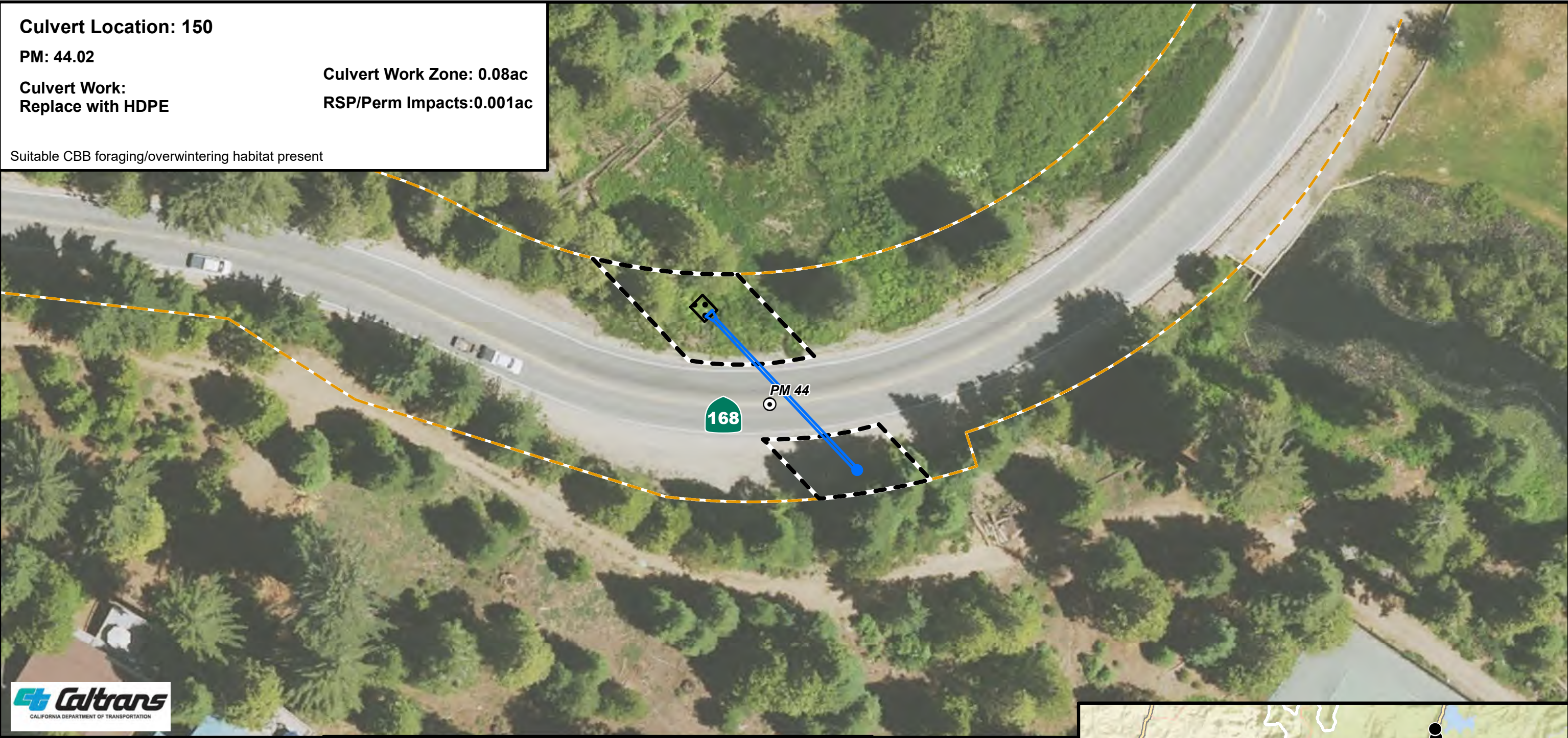
**PM: 44.02**

**Culvert Work:**  
**Replace with HDPE**

**Culvert Work Zone: 0.08ac**

**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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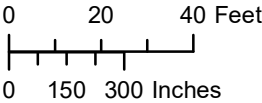
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Postmiles
- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)
- RSP/Perm Impacts (0.055ac)



**1:500**





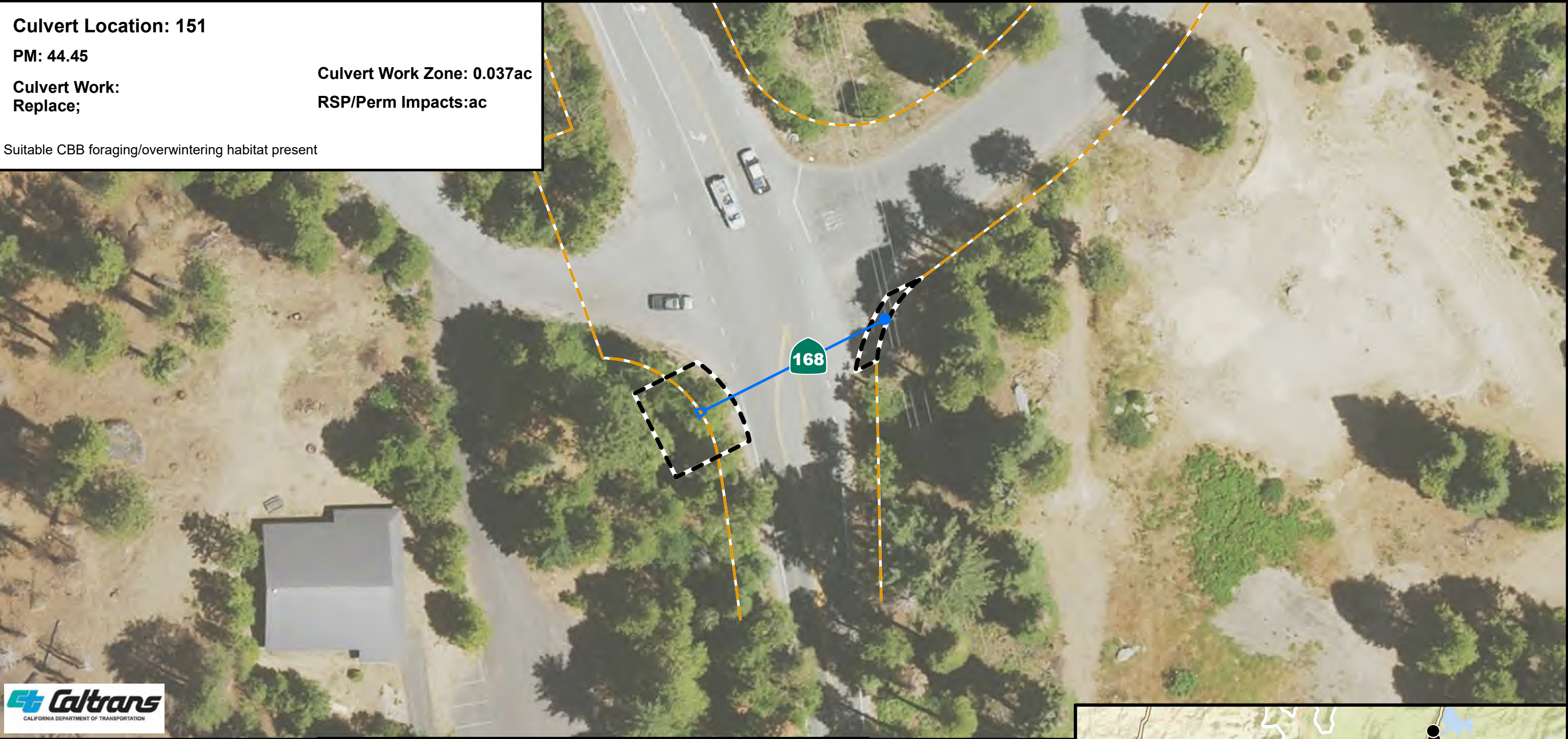
**Culvert Location: 151**

**PM: 44.45**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.037ac**  
**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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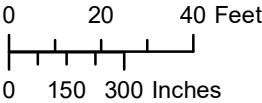
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





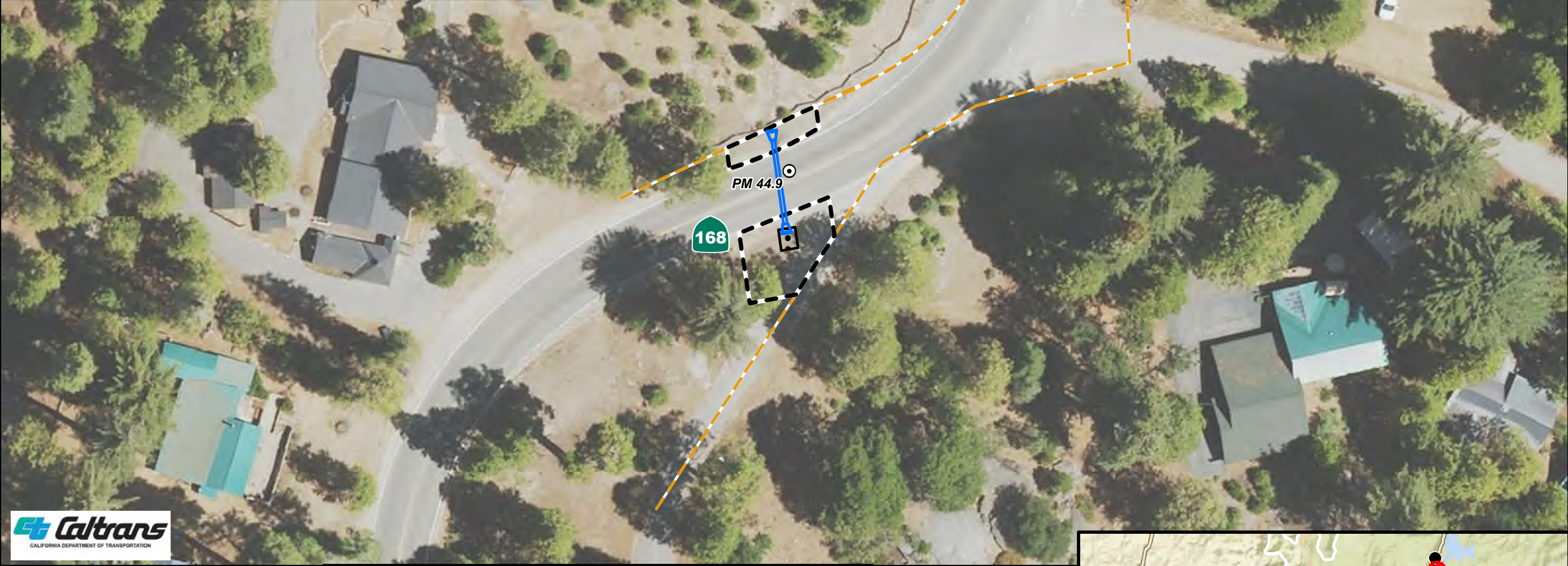
**Culvert Location: 152**

**PM: 44.85**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.035ac**  
**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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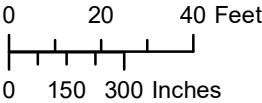
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- ▭ Culvert Work Zone/Temp Impacts (8.94ac)
- ▭ RSP/Perm Impacts (0.055ac)



**1:500**





**Culvert Location: 153**

**PM: 45.14**

**Culvert Work:**  
**Replace with CSP**

**Culvert Work Zone: 0.049ac**

**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



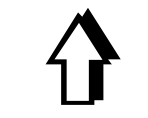
**Species Permit Map**

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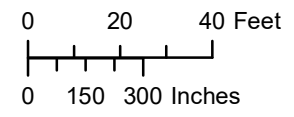
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





**Culvert Location: 154**

**PM: 45.44**

**Culvert Work:**  
**Replace;**

**Culvert Work Zone: 0.057ac**  
**RSP/Perm Impacts:ac**

Suitable CBB foraging/overwintering habitat present



**Species Permit Map**

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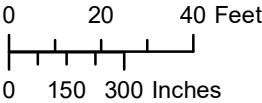
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



**1:500**





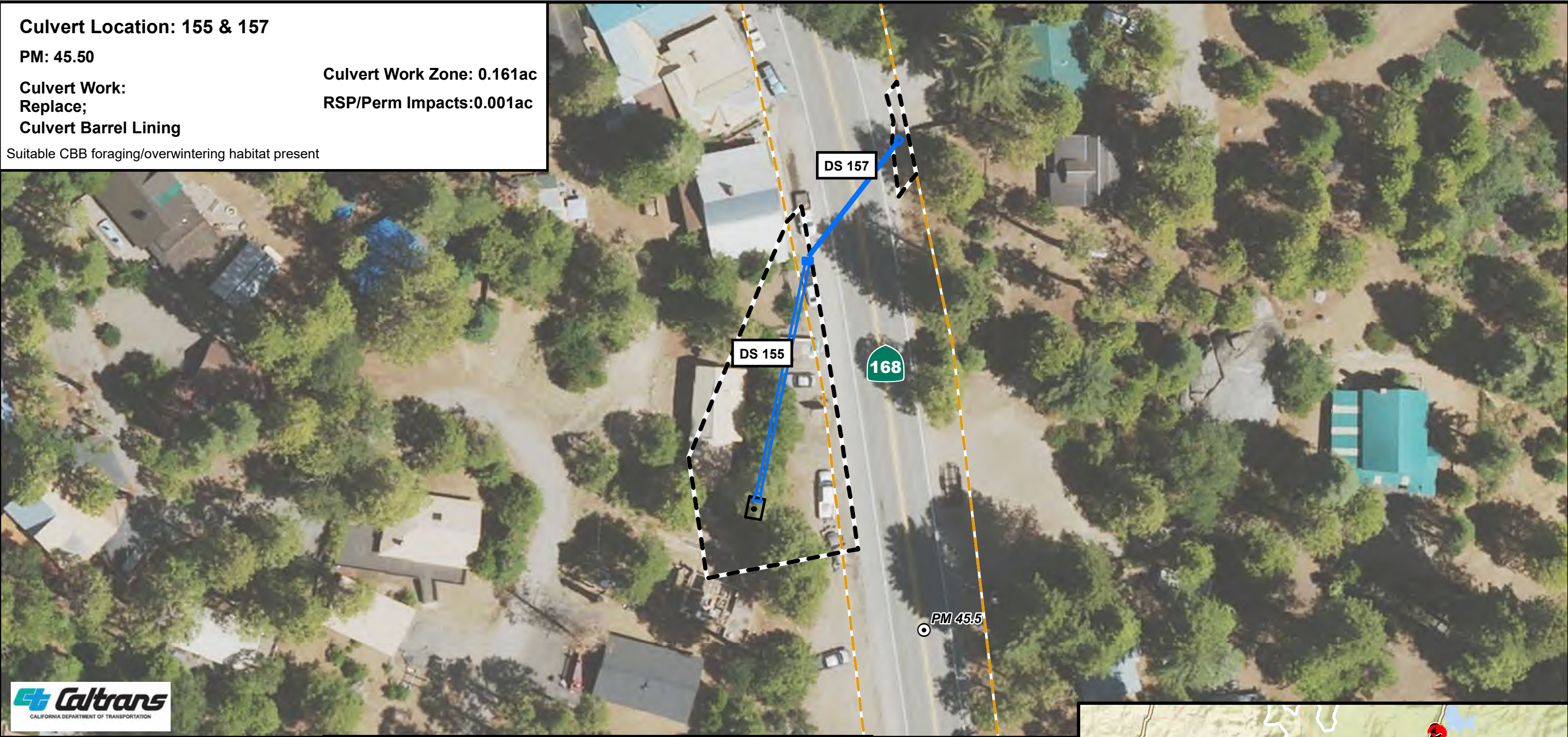
**Culvert Location: 155 & 157**

**PM: 45.50**

**Culvert Work:**  
**Replace;**  
**Culvert Barrel Lining**

**Culvert Work Zone: 0.161ac**  
**RSP/Perm Impacts:0.001ac**

Suitable CBB foraging/overwintering habitat present



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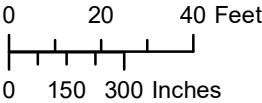
**FRESNO COUNTY 168 Culvert Rehab**  
**06-FRE-168 PM R8.28 - 45.8**

**Project EA 06-0X2200**  
**Project ID: 06 1800 0041**

- ⊙ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)
- ▤ RSP/Perm Impacts (0.055ac)



**1:500**





Culvert Location: 158

PM: 45.80

Culvert Work:  
Culvert Barrel Lining

Culvert Work Zone: 0.023ac

RSP/Perm Impacts:ac

Suitable CBB foraging/overwintering habitat present



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06-FRE-168 PM R8.28 - 45.8

Project EA 06-0X2200  
Project ID: 06 1800 0041

- ⦿ Postmiles
- Existing ROW
- Culverts
- - - Culvert Work Zone/Temp Impacts (8.94ac)



1:500

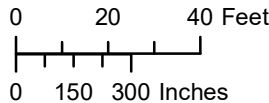




FIGURE 3

Potential Staging Area Map Book



430 225 0 430 Feet



PM 17.03

0.3 ac

17.15

17.21

17.30

17.49

## 06-0X220 Potential Staging Locations

N



— Culverts



Possible Staging Areas  
Suitable CTS upland habitat



550 275 0 550 Feet



PM 18.52

0.28 ac

0.29 ac

17.86

17.72

17.67

## 06-0X220 Potential Staging Locations

N



— Culverts



Possible Staging Areas  
Suitable CTS upland habitat



0 400 800 Feet



## 06-0X220 Potential Staging Locations

N

— Culverts

 Possible Staging Areas  
Suitable CBB habitat



075 557.5 0 075 Feet





170 85 0 170 Feet





## ATTACHMENT 1

### Mitigation Monitoring and Reporting Program



**ATTACHMENT 1**

**CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE  
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)  
CALIFORNIA ENDANGERED SPECIES ACT**

**INCIDENTAL TAKE PERMIT NO. 2081-2024-052-04**

**PERMITTEE:** California Department of Transportation

**PROJECT:** Fresno 168 Culvert Rehabilitation Project (06-0X220)

**PURPOSE OF THIS MMRP**

The purpose of this MMRP is to ensure that the impact minimization and mitigation measures required by the Department of Fish and Wildlife (CDFW) for the above-referenced Project are properly implemented, and thereby to ensure compliance with section 2081(b) of the Fish and Game Code and sections 21081.6 of the Public Resources Code. A table summarizing the mitigation measures required by CDFW is attached. This table is a tool for use in monitoring and reporting on implementation of mitigation measures, but the descriptions in the table do not supersede the mitigation measures set forth in the Incidental Take Permit (ITP) and in attachments to the ITP, and the omission of a permit requirement from the attached table does not relieve the Permittee of the obligation to ensure the requirement is performed.

**OBLIGATIONS OF PERMITTEE**

Mitigation measures must be implemented within the time periods indicated in the table that appears below. Permittee has the primary responsibility for monitoring compliance with all mitigation measures and for reporting to CDFW on the progress in implementing those measures. These monitoring and reporting requirements are set forth in the ITP itself and are summarized at the front of the attached table.

**VERIFICATION OF COMPLIANCE, EFFECTIVENESS**

CDFW may, at its sole discretion, verify compliance with any mitigation measure or independently assess the effectiveness of any mitigation measure.

**TABLE OF MITIGATION MEASURES**

The following items are identified for each mitigation measure: ITP Condition of Approval (COA) Source, Mitigation Measure, Implementation Schedule, and Status / Date/ Responsible Parties. The Mitigation Measure column summarizes the mitigation requirements of the ITP. The Implementation Schedule column shows the phase when each mitigation measure will be implemented. The Responsible Party column identifies the person or agency that is primarily responsible for implementing the mitigation measure. The Status / Date/ Responsible Parties column shall be completed by the Permittee during preparation of each Status Report and the Final Mitigation Report, and must identify the implementation status of each mitigation measure, the date that status was determined, and the person(s) or roles (e.g., construction inspector) who implemented the mitigation measure.



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
5.1	<u>Designated Representative</u> . Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with this ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of this ITP.	Before the start of Covered Activities and any time a new Designated Representative is selected	
5.2	<u>Designated Biologist(s) and Designated Monitor(s)</u> . Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of the Designated Biologist(s) and Designated Monitor(s) using the Biologist Resume Form (Attachment 2) or another format containing the same information at least 30 days before starting Covered Activities. The Permittee may request approval of Designated Biologist(s) to monitor and handle specific Covered Species covered by this ITP. The Designated Monitor(s) may assist the Designated Biologist(s) in compliance monitoring under the direct supervision of the Designated Biologist(s) and as specified in the <u>Compliance Monitoring</u> Condition of Approval. Permittee shall ensure that the Designated Biologist(s) are knowledgeable in the biology and natural history of the Covered Species, enforcing no-disturbance buffers, and monitoring construction activities. Designated Biologists for CBB shall have completed the Bumble Bee Atlas training on <i>Ecology and Conservation of Bumble Bees</i> and <i>Survey Protocol and Species Identification</i> for California, and experience surveying, collecting, and identifying bumble bees in California. Designated Biologists for CTS shall also have experience with collecting and handling CTS, excavating small mammal burrows for CTS, and monitoring construction activities under an ITP for CTS. Designated Biologists for TRAN shall also have survey and/or monitoring experience with TRAN. Permittee shall ensure that the Designated Monitor(s) are knowledgeable and experienced in the biology and natural history of the Covered Species. The Designated Biologist(s) and Designated Monitor(s) shall be responsible for monitoring Covered Activities to help minimize and fully mitigate or avoid the incidental take of individual Covered Species and to minimize disturbance of Covered Species' habitat. Permittee shall obtain CDFW approval of the Designated Biologist(s) and Designated Monitor(s) in writing before starting Covered Activities, and shall also obtain approval in advance, in writing, if the Designated Biologist(s) or Designated Monitor(s) must be changed.	Before the start of, and during Covered Activities as needed	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
5.3	<p><u>Designated Biologist(s) and Designated Monitor(s) Authority.</u> To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist(s) and Designated Monitor(s) shall immediately stop any activity that does not comply with this ITP and/or order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species. Permittee shall provide unfettered access to the Project Area and otherwise facilitate Designated Biologist(s) and Designated Monitor(s) in the performance of their duties. If the Designated Biologist(s) or Designated Monitor(s) is unable to comply with the ITP, then they shall notify the CDFW Representative immediately. Permittee shall not enter into any agreement or contract of any kind, including but not limited to non-disclosure agreements and confidentiality agreements, with its contractors and/or the Designated Biologist(s) that prohibit or impede open communication with CDFW, including but not limited to providing CDFW staff with the results of any surveys, reports, or studies or notifying CDFW of any non-compliance or take. Failure to notify CDFW of any noncompliance, take, injury or damage of a Covered Species because of such agreement or contract may result in CDFW taking actions to prevent or remedy a violation of this ITP.</p>	During Covered Activities	
5.4	<p><u>Education Program.</u> Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before they are authorized to perform any work. The program shall consist of a presentation from the Designated Biologist(s) for the Covered Species included in this ITP, that includes a discussion of the biology and general behavior of the Covered Species, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and project-specific protective measures described in this ITP. Permittee shall provide interpretation for non-English speaking workers, and the same instruction shall be provided to any new workers before they are authorized to perform work in the Project Area. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees that will be conducting work in the Project Area.</p>	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
5.5	<u>Construction Monitoring Documentation.</u> The Designated Biologist(s) and Designated Monitor(s) shall maintain construction-monitoring documentation on-site in either hard copy or digital format throughout the construction period, which shall include a copy of this ITP with attachments and a list of signatures of all personnel who have successfully completed the education program. Permittee shall ensure a copy of the construction-monitoring documentation is available for review at the Project Area upon request by CDFW.	During Covered Activities	
5.6	<u>Trash Abatement.</u> Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed, ideally at daily intervals but at least once a week, to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.	Before the start of, and during Covered Activities	
5.7	<u>Dust Control.</u> Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist(s). Permittee shall keep the amount of water used to the minimum amount needed and shall not allow water to form puddles. Permittee shall not apply dust suppressant, surfactant, soil binders, or stabilizer products that may be harmful to Covered Species. Permittee shall obtain written approval from CDFW before applying any dust suppressant (other than water), surfactant, soil binders, stabilizer products, hydro-mulch, or hydroseed. Permittee shall provide all available documentation of each product's safety or hazards to wildlife to CDFW with any such request for approval.	During Covered Activities	
5.8	<u>Erosion Control Materials.</u> Permittee shall prohibit use of erosion control materials that are potentially harmful to Covered Species and other species, such as monofilament netting, photodegradable mesh (erosion control matting) in potential Covered Species' habitat.	During Covered Activities	
5.9	<u>Delineation of Work Area Boundaries.</u> Before starting Covered Activities within each discrete part of the Project Area, including parking, staging, and equipment storage areas (work area), Permittee shall clearly delineate the boundaries of the work areas. The boundary of each work area shall be delineated with stakes, fencing, and/or flags and shall be maintained with signage until the completion of Covered Activities in that area.	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
5.10	<p><u>Pesticide Use.</u> Permittee shall not use pesticides, including herbicides, insecticides, or rodenticides within the Project Area without prior consultation with and written approval from CDFW. Through this consultation, CDFW may approve limited use of herbicides through targeted spray (e.g., backpack sprayer) at a buffer from Covered Species habitat. If approved, all pesticide application should be conducted by a Licensed and Certified Pesticide Applicator and used as directed by the manufacturer. Use of neonicotinoid pesticides will not be approved by CDFW within the Project Area.</p> <p>Permittee shall avoid spraying herbicides on plants that are in bloom to minimize direct or indirect contact with CBB, unless otherwise approved by CDFW in writing. These plants may serve as obligatory resources that a CBB individual or colony is reliant upon. Instead, the Permittee shall target other vegetive phases when the chemicals are most effective as recommended by the manufacturer. Pesticides shall be applied directly to the targeted pest or site, and always according to the label. Appropriate weather conditions and other applications of best management practices, as well as label precautions, shall always be followed.</p>	During Covered Activities	
5.11	<p><u>Fertilizers.</u> Permittee shall not use fertilizers (or any similar soil additives, hereby referred to as "fertilizer") within the Project Area, unless Permittee requests and receives a written approval from CDFW. To request written approval for fertilizer application, no less than 60 days prior to the proposed application, Permittee shall submit to CDFW for review and approval a Fertilizer Application Plan. The Fertilizer Application Plan will detail the type of fertilizer proposed to be used, method of application, amount of fertilizer to be used, spatial extent and timing of proposed application, impacts assessment of application specific to CBB, measures to reduce impacts to CBB, and justification for need of fertilizer application.</p>	During Covered Activities	
5.12	<p><u>Delineation of Habitat.</u> Before starting Covered Activities at any work area, Permittee shall clearly delineate habitat of the Covered Species within the work area with posted signs, posting stakes, flags, and/or rope or cord, and place fencing as necessary to minimize the disturbance of Covered Species' habitat. Permittee shall restrict all Covered Activities to within the fenced, staked, or flagged work areas. Permittee shall maintain all fencing, stakes, and flags until the completion of Covered Activities in each work area.</p>	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
5.13	<u>Project Access</u> . Project-related personnel shall access the Project Area for any Covered Activities using existing routes and shall not cross Covered Species' habitat outside of, or en route to the Project Area. Permittee shall restrict Project-related vehicle traffic to established roads, staging areas, and parking areas as per the <u>Staging Areas</u> Condition of Approval. Permittee shall ensure that vehicle speeds do not exceed 15 miles per hour to avoid Covered Species on or traversing the roads. If Permittee determines construction of routes for travel is necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before conducting such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur because of the Project modification.	During Covered Activities	
5.14	<u>Staging Areas</u> . Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the disturbance areas described in the Project Description. If Permittee determines parking, storage, laydown, or staging areas are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur because of the Project modification.	During Covered Activities	
5.15	<u>Hazardous Waste</u> . Permittee shall immediately stop and, pursuant to pertinent state and federal statutes and regulations, arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area, and shall properly contain and dispose of any unused or leftover hazardous products off-site.	During Covered Activities	
5.16	<u>CDFW Access</u> . Permittee shall provide CDFW staff with reasonable access to the Project and shall otherwise fully cooperate with CDFW efforts to verify compliance with or effectiveness of mitigation measures set forth in this ITP.	During Covered Activities	
5.17	<u>Refuse Removal</u> . Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all temporary fill and construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.	During Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
5.18	<u>Wildfire Avoidance</u> . Permittee or Permittee's contractors shall minimize the potential for human-caused wildfires by carrying water or fire extinguishers and shovels in all Project-related vehicles and equipment. The use of shields, protective mats, or use of other fire preventative methods shall be used during grinding and welding to minimize the potential for fire. Personnel shall be trained regarding the fire hazard for wildlife as part of the worker education program described in the <u>Education Program</u> Condition of Approval.	During Covered Activities	
6.1	<u>Notification Before Commencement</u> . The Designated Representative shall notify CDFW at least 14 calendar days before starting Covered Activities and at least 14 days before recommencing Covered Activities after any break in construction activities lasting more than 30 days and shall document compliance with all pre-Project Conditions of Approval before starting or recommencing Covered Activities.	Before the start of, and during Covered Activities	
6.2	<u>Notification of Non-compliance</u> . The Designated Representative, Designated Biologist(s) and Designated Monitor(s) shall immediately notify CDFW if the Permittee is not in compliance with any Condition of Approval of this ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in this ITP and/or the MMRP. The Designated Representative shall follow up within 24 hours with a written report to CDFW describing, in detail, any non-compliance with this ITP and suggested measures to remedy the situation.	During Covered Activities	
6.3	<u>Pre-Activity Survey Reports</u> . Prior to starting Covered Activities at each work area, Permittee shall prepare and submit to CDFW the results of pre-activity surveys and maps (according to the <u>CBB Pre-Activity Clearance Surveys</u> , <u>Identification of CBB Nests</u> , <u>CTS Pre-Activity Clearance Surveys</u> , <u>Flag and Map CTS Burrows and Crevices</u> , and <u>TRAN Pre-Activity Clearance Surveys</u> Conditions of Approval).	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
6.4	<p><u>Compliance Monitoring.</u> A Designated Biologist shall be on-site for the duration of Covered Activities (including night-work), unless otherwise approved by CDFW in writing. When certain Covered Activities have been approved without daily monitoring, a Designated Biologist or Designated Monitor shall conduct compliance inspections at least twice per week during all Covered Activities. During Covered Activities, at least one Designated Biologist shall be available to respond to the Project Area within one hour of being contacted to address all Covered Species needs and any other issues that may arise during implementation of this ITP. The Designated Biologist(s) and Designated Monitor(s) shall conduct compliance inspections to: (1) minimize incidental take of the Covered Species; (2) prevent unlawful take of species; (3) check for compliance with all measures of this ITP; (4) document Covered Activities observed; (5) ensure that signs, stakes, and fencing are intact; and (6) ensure that that Covered Activities are only occurring in the Project Area. The Designated Biologist(s) and Designated Monitor(s) shall prepare written observation, inspection records, and photographic documentation summarizing oversight activities and compliance inspections, observations of all Covered Species and their sign, survey results, and monitoring activities required by this ITP. Written observations, inspection records, and photographic documentation shall be provided to CDFW upon request.</p>	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
6.5	<p><u>Covered Species Observations and Notification</u>. During all Covered Activities, workers shall inform a Designated Biologist if an individual of CBB or CTS is observed in the Project Area. All work in the vicinity of the observed Covered Species, which could injure or kill the animal, shall cease immediately until the Covered Species moves from the Project Area of its own accord or until the Designated Biologist(s) have relocated the Covered Species following the CDFW-approved relocation plan (as per the <u>CTS Mortality Reduction and Relocation Plan</u> and <u>CBB Mortality Reduction and Relocation Plan</u> Conditions of Approval). Permittee shall notify the Regional Representative identified in the <u>Monthly Compliance Reports</u> Condition of Approval within 24-hours if an active CBB nest is found within the Project Area. Permittee shall report other observations of live/non-injured CBB or CTS within five business days of discovery of a Covered Species within the Project Area to the Regional Representative and Regional Office identified in the <u>Monthly Compliance Reports</u> Condition of Approval.</p> <p>The Designated Biologist(s) and Designated Monitor(s) shall maintain a record of Covered Species observed, handled, or protected in-place. This information shall include for each individual of Covered Species: (1) date, time, and location (Global Positioning System (GPS) coordinates and maps) of observation, handling, release, or protection in-place; (2) the name of the party that identified the Covered Species; (3) circumstances of the observation; (4) for CTS and CBB, the general condition and health, noting all visible conditions including gait and behavior, ectoparasites, injuries, etc. and any diagnostic markings, sex, age (juvenile or adult); (5) for TRAN, the general condition and health and population census within the Project Area; (6) actions undertaken; (7) habitat description; and (8) for CTS and CBB, ambient temperature when handled and released. The Designated Biologist(s) shall also submit this information to CDFW's California Natural Diversity Database (CNDDB) as per the <u>CNDDB Observations</u> Condition of Approval. The Designated Biologist(s) shall include this information in the next Quarterly Compliance Report or Annual Status Report, whichever is submitted first relative to the observation.</p>	During Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
6.6	<p><u>CTS Mortality Reduction and Relocation Plan</u>. The Designated Biologist(s) shall prepare a CTS Mortality Reduction and Relocation Plan and submit it to CDFW for review and approval a minimum of 30 days prior to starting Covered Activities located between PMs 15.40 and 28.40 (including vehicle and equipment parking and staging). The CTS Mortality Reduction and Relocation Plan shall include, but not be limited to: detailed survey, capture, handling, and relocation methods; identification of suitable relocation areas; required frequency and duration of compliance monitoring as per the <u>Compliance Monitoring</u> Condition of Approval; identification of a wildlife rehabilitation center or veterinary facility that will accept and is capable of treating injured CTS; and measures to be coordinated with the <u>CBB Mortality and Reduction Plan</u>. Covered Activities located between PMs 15.40 and 28.40 (including vehicle and equipment parking and staging) may not proceed until the CTS Mortality Reduction and Relocation Plan has been approved in writing by CDFW. Designated Monitor(s) are prohibited from capturing and handling CTS unless specifically approved in writing by CDFW and under the direct supervision of the Designated Biologist(s). Any proposed changes to the CDFW-approved CTS Mortality Reduction and Relocation Plan shall be submitted in writing to CDFW and approved by CDFW in writing prior to implementation of any proposed CTS Mortality Reduction and Relocation Plan modifications.</p>	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
6.7	<p><u>CBB Mortality Reduction and Relocation Plan</u>. The Designated Biologist(s) shall prepare a CBB Mortality Reduction and Relocation Plan and submit it to CDFW for review and approval a minimum of 30 days prior to starting Covered Activities located between PMs T25.68 and 45.8, including staging areas. The CBB Mortality Reduction and Relocation Plan shall include, but not be limited to: a discussion and map of the portions of the Project Area where CBB may occur; detailed survey, handling and bee identification methods; measures to minimize impacts to foraging bees during vegetation removal; methods to characterize habitat types; methods to identify active nesting and overwintering habitat including during CBB surveys and CTS burrow excavation; measures to minimize impacts to overwintering bees during overwintering habitat removal; identification of suitable relocation areas; required frequency and duration of compliance monitoring according to the <u>Compliance Monitoring Condition of Approval</u>; and measures to be coordinated with the <u>CTS Mortality Reduction and Relocation Plan</u>. Covered Activities may not proceed until the CBB Mortality Reduction and Relocation Plan has been approved in writing by CDFW. Designated Monitor(s) are prohibited from capturing and handling CBB unless specifically approved in writing by CDFW and under the direct supervision of the Designated Biologist(s). Any proposed changes to the CDFW-approved CBB Mortality Reduction and Relocation Plan shall be submitted in writing to CDFW and approved by CDFW in writing prior to implementation of any proposed CBB Mortality Reduction and Relocation Plan modifications.</p>	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
6.8	<p><u>CBB Survey Plan</u>. If Covered Activities are proposed to occur during the CBB active period (approximately February 1 through October 31; includes queen flight season, colony active period, and gyne flight season), the Designated Biologist(s) shall prepare a CBB Survey Plan and submit it to CDFW for review and approval a minimum of 30 days prior to starting Covered Activities between PMs T25.68 and 45.8, including staging areas. The CBB Survey Plan shall describe methods that will be implemented to survey for above ground bees, consistent with CDFW's <i>Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species</i> (June 6, 2023). The CBB Survey Plan shall identify when the surveys are planned to take place (i.e., season and how much time between surveys), types of habitat to be surveyed for (i.e., foraging, nesting, and/or overwintering), survey method(s), justification for timing and method of survey design (e.g., elevation, climatic conditions, previous year's precipitation, average ambient temperature, species active periods, etc.), and the capture and identification protocol(s). If photographs will be used as vouchers, the CBB Survey Plan must identify the person(s) who will provide positive identification. Decontamination protocols shall be specified before and after bumble bee sampling within a work area, to reduce the likelihood of disease transmission, utilizing methods effective against diseases, such as <i>Varimorpha bombi</i> (formerly <i>Nosema</i>). All sampling equipment (e.g., nets, vials, other sampling materials, boots) shall be sterilized for 10 minutes following the bleach method in the 2023 Survey Considerations or with UV light (direct sunlight), by placing the equipment in direct sunlight for a minimum of two days.</p>	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
6.9	<p><u>Monthly Compliance Reports</u>. The Designated Representative or Designated Biologist(s) shall compile the observation and inspection records identified in the <u>Compliance Monitoring</u> Condition of Approval; the total number of nights worked according to the <u>Lighting and Night Work</u> Condition of Approval; information and maps of TRAN removal according to the <u>TRAN Removal</u> Condition of Approval, CTS no-disturbance buffer maps according to the <u>CTS Burrow and Crevice Avoidance</u> Condition of Approval; and a copy of the MMRP table with notes showing the current implementation status of each mitigation measure into a Monthly Compliance Report for CDFW. Monthly Compliance Reports shall be submitted to the CDFW offices listed in the Notices section of this ITP and via e-mail to CDFW's Regional Representative and Headquarters CESA Program by the 7<sup>th</sup> calendar day following the reporting month. At the time of this ITP's approval, the CDFW Regional Representative is Adam Thompson (<a href="mailto:Adam.Thompson@wildlife.ca.gov">Adam.Thompson@wildlife.ca.gov</a>), the Regional Office email is <a href="mailto:RRR.R4@wildlife.ca.gov">RRR.R4@wildlife.ca.gov</a>, and Headquarters CESA Program email is <a href="mailto:CESA@wildlife.ca.gov">CESA@wildlife.ca.gov</a>. CDFW may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permittee in writing of the new reporting schedule.</p>	During Covered Activities	
6.10	<p><u>Annual Status Reports</u>. Permittee shall provide CDFW with an Annual Status Report no later than January 31 of every year beginning with issuance of this ITP and continuing until CDFW accepts the Final Mitigation Report. Each Annual Status Report shall include, at a minimum: (1) a summary of all Monthly Compliance Reports for that year identified in the <u>Monthly Compliance Reports</u> Condition of Approval; (2) a general description of the status of the Project Area and Covered Activities, including actual or projected completion dates, if known; (3) a copy of the table in the MMRP with notes showing the current implementation status of each mitigation measure; (4) an assessment of the effectiveness of each completed or partially completed mitigation measure in avoiding, minimizing and mitigating Project impacts; (5) a summary of all compliance monitoring and surveys associated with ground-disturbing Project activities for the reporting period; (6) all available information about Project-related incidental take of Covered Species; (7) an accounting of the number of acres subject to both temporary and permanent disturbance, both for the prior calendar year, and a total since ITP issuance; and (8) information about other Project impacts on the Covered Species. Annual Status Reports shall be submitted via email to the entities identified in the <u>Monthly Compliance Reports</u> Condition of Approval.</p>	During Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
6.11	<u>CNDDDB Observations</u> . The Designated Biologist(s) shall submit all observations of Covered Species to CDFW's California Natural Diversity Database (CNDDDB) within 60 calendar days of the observation and the Designated Biologist(s) shall include copies of the submitted forms with the next applicable Annual Status Report.	During Covered Activities	
6.12	<u>Final Mitigation Report</u> . No later than 45 days after completion of all mitigation measures, Permittee shall provide CDFW with a Final Mitigation Report. The Designated Biologist(s) shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Monthly Compliance Reports and all Annual Status Reports; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP's Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on all Covered Species; and (8) any other pertinent information.	Following Covered Activities and completion of all mitigation measures	
6.13	<u>Notification of CTS or CBB Take or Injury</u> . Permittee shall immediately notify the Designated Biologist(s) if a CBB or CTS is taken or injured by a Project-related activity, or if a CBB or CTS is otherwise found dead or injured within the vicinity of the Project. If a CTS is injured, the Designated Biologist(s) shall take the injured animal(s) to a CDFW-approved facility according to the <u>CTS Injury</u> Condition of Approval. If a CBB is killed or found deceased during Covered Activities, Permittee shall transport the carcass, as feasible, according to the <u>CBB Carcass Salvage</u> Condition of Approval. The Designated Biologist(s) or Designated Representative shall provide initial notification to CDFW by calling the Regional Office at (559) 243-4005 and the CDFW Regional Representative. The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured and the ITP Number. Following initial notification, the Permittee shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, location of the animal or carcass, photograph(s), if possible, explanation as to the cause of take or injury, and any other pertinent information. The written report shall be submitted via email to the Regional Representative and Regional Office identified in the <u>Monthly Compliance Reports</u> Condition of Approval.	During Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
7.1	<u>Open Excavation Inspection.</u> Workers shall inspect all open holes, sumps, and trenches at the beginning and end of each day for trapped animals. Workers shall either cover all trenches, holes, sumps, and other excavations with sidewalls steeper than a 1:1 (45 degree) slope when workers or equipment are not actively working in the excavation, which includes cessation of work overnight, or ensure that excavations have an escape ramp of earth or a non-slip material with a less than 1:1 (45 degree) slope. Coverings shall be comprised of hardware cloth or similar that restricts animals such as CTS from digging or squeezing under and becoming entrapped. The Designated Biologist(s) or Designated Monitor(s) shall inspect excavation coverings to ensure compliance and shall thoroughly inspect all trenches, holes, sumps, and other excavations for CBB or CTS (or other animals) before they are backfilled. If any worker discovers that a CBB or CTS has become trapped, Permittee shall cease all Project-related activities in the vicinity and notify the Designated Biologist(s) immediately. Project workers, Designated Biologist(s), and Designated Monitor(s) shall provide the opportunity for the animal to escape unimpeded out of the work area before allowing work to continue. Alternatively, if the CBB or CTS will not leave the Project Area unimpeded, the Designated Biologist(s) shall capture and relocate the individual(s) as per the CDFW-approved mortality reduction and relocation plan (as per <u>CTS Mortality Reduction and Relocation Plan</u> and <u>CBB Mortality Reduction and Relocation Plan</u> Conditions of Approval).	During Covered Activities	
7.2	<u>Materials, Vehicle and Equipment Inspection.</u> Workers shall thoroughly inspect all conduits with a diameter of one inch or greater, vehicles and other equipment that are stored for one or more overnight periods for CBB or CTS before the object is subsequently moved, buried, or capped. If a CBB or CTS is present, the worker shall notify the Designated Biologist(s) or Designated Monitor(s) and wait for the individual(s) to move unimpeded out of the Project Area. Alternatively, if the CBB or CTS will not leave the Project Area unimpeded, the Designated Biologist(s) shall capture and relocate the animal as per the CDFW-approved mortality reduction and relocation plan (as per <u>CTS Mortality Reduction and Relocation Plan</u> and <u>CBB Mortality Reduction and Relocation Plan</u> Conditions of Approval).	During Covered Activities	
7.3	<u>Vegetation Management.</u> Permittee shall minimize disturbance or removal of vegetation to the amount necessary to complete Covered Activities. As feasible, vegetation shall be trimmed with hand tools to no lower than 4-inches above the ground surface, to the extent necessary to gain access to work areas.	During Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
7.4	<u>Soil Stockpiles</u> . Permittee shall ensure that soil stockpiles are placed where soil shall not pass into potential CTS and/or CBB breeding habitat, or into any "waters of the state," including streams that traverse the Project Area, in accordance with Fish and Game Code section 5650. Permittee shall appropriately protect stockpiles to prevent soil erosion.	During Covered Activities	
7.5	<u>Lighting and Night Work</u> . Permittee shall not use permanent or temporary, fixed, exterior lighting, including motion-triggered security lighting that casts light into Covered Species habitat beyond the footprint of the Project Area. The number of nights and dates of night worked shall be documented in the annual status report (refer to the <u>Annual Status Report</u> Condition of Approval).	During Covered Activities	
<b><i>Crotch's Bumble Bee (CBB):</i></b>			
7.6	<u>Additional Pesticide Application Measures for CBB</u> . Permittee shall follow the pesticide best-management practices described by Xerces Society's 2018 Guidance to Protect Habitat from Pesticide Contamination, the California Department of Pesticide Regulation's California's Managed Pollinator Protection Plan, and the University of California's Division of Agriculture and Natural Resources Statewide Integrated Pest Management Program's <i>Best Management Practices to Protect Bees from Pesticides</i> . Permittee shall not use any second-generation anticoagulant rodenticide (e.g., brodifacoum, bromadiolone, difethialone, and difenacoum) or neonicotinoid pesticides on the Project Area. Permittee shall not use any first-generation anticoagulant rodenticide (e.g., diphacinone, chlorophacinone, and warfarin) on the Project Area without prior written permission from CDFW. Permittee shall use the least toxic products at the least concentrated application possible. Permittee shall not use neonicotinoid pesticides or mixtures with fungicides and adjuvants, like those that contain alkylphenol ethoxylates, or soil fumigants, which penetrate the soil and can poison ground nesting bees. Permittee shall not apply pesticides to suspected or confirmed CBB nest or until a Designated Biologist approved for CBB has performed pre-application surveys and confirmed CBB are not present, each morning before pesticides are applied within 50 feet of potential CBB habitat. A Designated Biologist approved for CBB shall continue to monitor for potential CBB activity during all pesticide application activities. Pesticide application shall cease if CBB are observed within 50 feet of the application area.	Before the start of, and during Covered	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
7.7	<u>Seasonal Limitations for Protection of CBB</u> . If feasible, Permittee shall avoid initial vegetation clearing and ground disturbance to CBB and their habitat during the CBB active period (approximately February 1 through October 31). If feasible, native or non-native flowering vegetation removal shall occur prior to bloom and before the CBB active period. If Covered Activities cannot be avoided during this time and vegetation needs to be removed while in bloom, the Designated Biologist(s) approved for CBB shall perform pre-activity surveys according to the <u>CBB Pre-Activity Clearance Survey</u> Condition of Approval. If foraging CBB are found in areas designated for vegetation removal, the Designated Biologist(s) shall search for potential nests according to the <u>Identification of CBB Nesting</u> Condition of Approval.	Before the start of, and during Covered	
7.8	<u>CBB Pre-Activity Clearance Survey</u> . If Covered Activities are proposed to occur during the CBB active period (approximately February 1 through October 31), no more than 14 days prior to starting Covered Activities at each work area between PMs T25.68 and 45.8 (including staging areas), the Designated Biologist(s) approved for CBB shall survey at the work area and a 50-foot buffer around the work area as described in the CDFW-approved <u>CBB Survey Plan</u> . The Designated Biologist(s) approved for CBB shall repeat the surveys if there has been a break in Covered Activities by more than 30 days. The Permittee shall provide survey results and mapping to CDFW prior to starting Covered Activities. The survey results shall include a description of vegetation communities and floral resources identified in each work area, maps of known or potential nesting sites, any CBB observations, and measures that will be implemented to avoid or minimize direct impacts to CBB or CBB habitat resources, if observed within or adjacent to a work area as per the CDFW-approved <u>CBB Mortality Reduction and Relocation Plan</u> .	Before the start of Covered Activities	
7.9	<u>Identification of CBB Nests</u> . During CBB pre-activity clearance surveys, the Designated Biologist(s) or approved Designated Monitor(s) approved for CBB shall identify and map all potential CBB nesting habitat, including rodent burrows, dry cavities in rock walls or rock piles, under bunch grasses), and flag potential nest that are accessible, according to the <u>CBB Nest Avoidance</u> Condition of Approval. For purposes of this ITP, "accessible" is defined as within the ROW and of a steepness that allows for safe investigation by the Designated Biologist(s). If Covered Activities may occur while nests may be occupied (approximately February 1 to August 30, depending on seasonal conditions), the Designated Biologist(s) approved for CBB shall further investigate all accessible potential nesting habitat for occupancy according to the CDFW-approved <u>CBB Mortality Reduction and Relocation Plan</u> . All active nests shall be avoided, according to the <u>CBB Nest Avoidance</u> Condition of Approval.	Before the start of, and during Covered	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
7.10	<p><u>CBB Nest Avoidance</u>. If an active CBB nest is found during pre-activity surveys or at any time during Covered Activities, the Permittee shall delineate a minimum 50-foot no-disturbance buffer around the nest. Covered Activities shall not begin or resume until the nest has senesced (becomes inactive or is no longer in use), as determined by the Designated Biologist(s) approved for CBB, in consultation with CDFW. The Permittee shall report observation of active nests to CDFW within 24 hours of finding the nest according to the <u>Covered Species Observations and Notification</u> Condition of Approval. To determine whether a nest has senesced, the Designated Biologist(s) approved for CBB shall observe the nest for three consecutive days, for a minimum of one hour per day. Observation shall occur at least one hour after sunrise and at least two hours before sunset on a warm sunny day (65-90 degrees Fahrenheit), with wind less than eight miles per hour. The nest may be deemed senesced if no activity is noted within the observation period. The buffer area shall be clearly marked in the field using signs, stakes or posts with highly visible rope, or high visibility fencing. The Permittee shall contact CDFW immediately if a nest is discovered during ongoing work, to discuss measures that either have been, or will be implemented to avoid and minimize take of nesting bees.</p>	During Covered Activities	
7.11	<p><u>CBB Carcass Salvage</u>. If a CBB is killed or otherwise found deceased during Project activities, Permittee shall contact CDFW to determine the fate of the carcass. As feasible, the carcass shall be salvaged, photographed, and placed in a labeled, clean plastic, resealable bag or vial and placed in a freezer. The label shall include a unique identifier (collection number), species name, time and date of collection, collection location, GPS location (including datum and horizontal error in feet), circumstances surrounding death (e.g. freezer may have been too cold; hot day and extreme shifts in temperature from ambient air to cooler may have contributed), collector name and contact information (phone number or email), and ITP tracking number. If deemed necessary by CDFW, the Permittee shall deliver the carcass (on dry ice if possible) to the following address:</p> <p>CDFW Wildlife Genetics Research Unit (Wildlife Health Lab)  Attention: Michael Buchalski  1415 North Market Boulevard, Suite 9  Sacramento, California 95834</p>	During Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
<i>California Tiger Salamander (CTS):</i>			
7.12	<p><u>CTS Pre-Activity Clearance Surveys.</u> No more than 14 days prior to starting Covered Activities, or resuming Covered Activities after a break of at least 30 days, at each work area between PMs 15.40 and T28.40 (including staging areas), the Designated Biologist(s) approved for CTS shall survey the work area and a 50-foot buffer for CTS individuals and burrows and crevices suitable for CTS occupancy. The Designated Biologist(s) shall repeat the surveys if there has been a break in Covered Activities by more than 30 days to search for new burrows and crevices suitable for CTS occupancy. These surveys shall provide 100 percent visual coverage (including burrow and crevice openings) of the work area and a 50-foot buffer zone around the work area. If any life stages (adults, eggs, or larvae) of CTS are found and avoidance is not possible, the Designated Biologist(s) shall capture and relocate the CTS according to the CDFW-approved CTS Mortality Reduction and Relocation Plan (see <u>CTS Mortality Reduction and Relocation Plan</u> Condition of Approval).</p>	Before the start of, and during Covered Activities	
7.13	<p><u>Flag and Map CTS Burrows and Crevices.</u> During CTS pre-activity clearance surveys, the Designated Biologist(s) or approved Designated Monitor(s) approved for CTS shall map all animal burrows and crevices suitable for CTS occupancy and flag those that are accessible for avoidance or excavation, according to the <u>CTS Burrow and Crevice Avoidance</u> and <u>CTS Burrow and Crevice Excavation</u> Conditions of Approval. For purposes of this ITP, "accessible" is defined as within the ROW and of a steepness that allows for safe excavation by the Designated Biologist(s) and/or Designated Monitor(s). The Permittee shall provide survey results and mapping to CDFW prior to starting Covered Activities.</p>	Before the start of, and during Covered	
7.14	<p><u>CTS Burrow and Crevice Avoidance.</u> The Permittee shall establish a no-disturbance buffer of 50 feet or greater around potential CTS burrows and crevices identified and/or flagged according to the <u>CTS Pre-Activity Clearance Surveys</u> and <u>Flag and Map CTS Burrows and Crevices</u> Conditions of Approval, when they can be avoided from ground disturbing or other Covered Activities that could crush or entomb CTS. The boundary of the no-disturbance areas shall be mapped and clearly marked in the field using signs, stakes or posts with highly visible rope, or high visibility fencing that shall be removed upon completion of Covered Activities in each work area. The Permittee shall provide the no-disturbance maps with the next Monthly Compliance Report (see <u>Monthly Compliance Reports</u> Condition of Approval).</p>	During Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
7.15	<u>CTS Burrow and Crevice Excavation</u> . No more than seven days after completing CTS pre-activity clearance surveys and no more than 14 days prior to initiating Covered Activities within a given work area, or resuming Covered Activities after a break in construction activity of more than 30 days, all accessible animal burrows and crevices identified during the <u>CTS Pre-Activity Clearance Surveys</u> and <u>Flag and Map CTS Burrows and Crevices</u> Conditions of Approval that are within the work area and cannot be avoided by Covered Activities shall be fully excavated under the direct supervision of the Designated Biologist(s) approved for CTS based on the CDFW-approved <u>CTS Mortality Reduction and Relocation Plan</u> and <u>CBB Mortality Reduction and Relocation Plan</u> . The Designated Biologist(s) approved for CTS shall capture and relocate any live CTS discovered during burrow and crevice excavation in accordance with the CDFW-approved <u>CTS Mortality Reduction and Relocation Plan</u> . The Permittee shall provide the results of the burrow and crevice excavation and any CTS relocation activities with the next applicable Annual Status Report (see <u>Annual Status Reports</u> Condition of Approval).	Before the start of, and during Covered	
7.16	<u>Precipitation</u> . The Permittee shall monitor the National Weather Service 72-hour forecast for the work areas with suitable CTS habitat (between PMs 15.40 and PM T28.40). If a 50% or greater chance of more than 1/2 inch of rainfall in a 24-hour period is predicted to occur during Covered Activities, or if unexpected rainfall commences during Covered Activities, Permittee shall cease all Covered Activities in those work areas. Work at these locations may resume 24 hours after the rain ceases and when no further rain is predicted in the 72-hour forecast. The Designated Biologist(s) and Designated Monitor(s) shall survey for CTS at the work areas before Covered Activities resume, and the Designated Biologist(s) shall capture and relocate any CTS that are discovered during the surveys, according to the CDFW-approved <u>CTS Mortality Reduction and Relocation Plan</u> .	Before the start of, and during Covered Activities	
7.17	<u>Fieldwork Code of Practice</u> . To ensure that the Designated Biologist(s) does not convey disease between the Project Area and areas outside the Project Area, the fieldwork code of practice developed by the Declining Amphibian Populations Task Force Fieldwork Code of Practice (see Attachment 3) shall be always followed. The Designated Biologist(s) may substitute a bleach solution (0.5 to 1.0 cup of bleach to 1.0 gallon of water) for the ethanol solution. The Designated Biologist(s) shall ensure that all traces of the disinfectant are removed before entering the next aquatic habitat.	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
7.18	<p><u>CTS Injury</u>. If a CTS is injured as a result of Covered Activities, the Designated Biologist(s) approved for CTS shall immediately take it to a CDFW approved wildlife rehabilitation or veterinary facility. Permittee shall identify the facility before starting Covered Activities, according to the <u>CTS Mortality Reduction and Relocation Plan</u> Condition of Approval. Permittee shall bear any costs associated with the care or treatment of such injured or damaged Covered Species. The Permittee shall notify CDFW of the injury as described in the <u>Notification of CTS or CBB Take or Injury</u> Condition of Approval.</p>	During Covered Activities	
<i>Tree Anemone (TRAN):</i>			
7.19	<p><u>TRAN Pre-Activity Clearance Surveys</u>. The Designated Biologist(s) approved for TRAN shall perform surveys for TRAN in each work area and a 50-foot buffer around the work areas located between PMs L29.03 and R34.92 no more than a year prior to starting Covered Activities at the work area. Surveys shall be scheduled during the flowering season (May 1 to June 30), as feasible. All potential and known TRAN individuals detected shall be mapped and, where accessible, also flagged. The Permittee shall submit the survey results and mapping to CDFW in a written report prior to starting or resuming Covered Activities at each work area. Maps shall depict the work area boundary, the 50-foot survey buffer, the boundary of the TRAN plants, and the boundary of the estimated seedbank (20-feet around the outer boundary of parent plants). The report shall also describe traits or resources used to properly identify the species, including traits used to distinguish it from closely related and sympatric species (<i>Philadelphus lewisii</i>).</p>	Before the start of, and during Covered Activities	
7.20	<p><u>TRAN Avoidance</u>. The Permittee shall establish a no-disturbance buffer of 20 feet or greater around the perimeter of TRAN plants identified and mapped according to the <u>TRAN Pre-Activity Clearance Surveys</u> Condition of Approval, when they can be avoided from ground disturbing or other Covered Activities that could result in take of plants or seedbank. The boundary of the no-disturbance area shall be clearly marked in the field using signs, stakes or posts with highly visible rope, or high visibility fencing that shall be removed upon completion of Covered Activities in each work area. Permittee may request an alternative buffer based on slope and anticipated seed dispersal. Any change in buffer shall not be implemented without written approval from CDFW.</p>	Before the start of, and during Covered Activities	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
7.21	<p><u>TRAN Removal</u>. The Designated Biologist(s) approved for TRAN shall be present during all initial vegetation removal and ground disturbing activities in work areas located between PMs L29.03 and R34.92 according to the <u>Compliance Monitoring Condition of Approval</u>. The Designated Biologist(s) shall document and map the locations of types of TRAN disturbance (plants trimmed, plants removed, seedbank disturbed) and the Permittee shall provide the results and maps with the next Monthly Compliance Report (see <u>Monthly Compliance Reports</u> Condition of Approval).</p>	Before the start of, and during Covered Activities	
8.	<p><b>Habitat Management Land Acquisition:</b> CDFW has determined that permanent protection and perpetual management of compensatory habitat is necessary and required pursuant to CESA to fully mitigate Project-related impacts of the taking on the Covered Species that will result from implementation of the Covered Activities. This determination is based on factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the protected acreage required to provide for adequate compensation.</p> <p>To meet this requirement, the Permittee shall either purchase 1.36 acres of CTS upland habitat credits, 0.276 acres of TRAN credits, and 9.24 acres of CBB credits from CDFW-approved mitigation or conservation bank(s) pursuant to the <u>Covered Species Credits</u> Condition of Approval OR shall provide for both the permanent protection and management of at least 1.36 acres of CTS upland refugia habitat, 0.276 acres of TRAN habitat, and 9.24 acres of CBB habitat of Habitat Management (HM) lands pursuant to the <u>HM Lands Acquisition and Protection</u> Condition of Approval and the calculation and deposit of the management funds pursuant to the <u>Endowment Fund</u> Condition of Approval. Purchase of Covered Species credits OR permanent protection and funding for perpetual management of HM lands must be complete before starting Covered Activities, or within 12 months of the effective date of this ITP if Security is provided pursuant to the <u>Security</u> Condition of Approval for all uncompleted obligations.</p>	Before starting Covered Activities, or within 12 months of the effective date of the ITP if Security is provided	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
8.1	<p><u>Cost Estimates</u>. For the purposes of determining the Security amount, CDFW has estimated the cost sufficient for CDFW or its contractors to complete acquisition, protection, and perpetual management of the HM lands and restoration of temporarily disturbed habitat as follows (all Covered Species combined):</p> <p>8.1.1. Land acquisition costs for HM lands identified in the <u>Habitat Management Lands Acquisition and Protection</u> Condition of Approval, estimated at \$14,556.04/acre for 10.88 acres of habitat: <b>\$158,369.72</b>. Land acquisition costs are estimated using local fair market current value per acre for lands with habitat values meeting mitigation requirements;</p> <p>8.1.2. All other costs necessary to review and acquire the land in fee title and record a conservation easement as described in the <u>Fee Title and Conservative Easement</u> Condition of Approval, estimated at <b>\$268,600.00</b>;</p> <p>8.1.3. Start-up costs for HM lands, including initial site protection and enhancement costs as described in the <u>Start-up Activities</u> Condition of Approval, estimated at <b>\$7,851.36</b>;</p> <p>8.1.4. Interim management period funding as described in the <u>Interim Management</u> Condition of Approval, estimated at <b>\$70,047.77</b>;</p> <p>8.1.5. Long-term management funding as described in the <u>Endowment Fund</u> Condition of Approval, estimated at: \$28,487.74/acre for 10.88 acres of habitat: <b>\$309,946.58</b>. Long-term management funding is estimated initially for the purpose of providing Security to ensure implementation of HM lands management:</p> <p>8.1.6. Related transaction fees including but not limited to account set-up fees, administrative fees, title and documentation review and related title transactions, expenses incurred from other state agency reviews, and overhead related to transfer of HM lands to CDFW as described in the <u>Reimburse CDFW</u> Condition of Approval, estimated at <b>\$13,600.00</b>: and</p> <p>8.1.7. All costs associated with CDFW engaging an outside contractor to complete the mitigation tasks, including but not limited to acquisition, protection, and perpetual funding and management of the HM lands and restoration of temporarily disturbed habitat. These costs include but are not limited to the cost of issuing a request for proposals, transaction costs, contract administration costs, and costs associated with monitoring the contractor's work <b>\$42,000.00</b>.</p>	Before starting Covered Activities, or within 12 months of the effective date of the ITP if Security is provided	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
8.2	<p><u>Covered Species Credits</u>. If the Permittee elects to purchase Covered Species credits to complete compensatory mitigation obligations, then Permittee shall purchase 1.36 acres of CTS upland habitat credits, 0.276 acres of TRAN credits, and 9.24 acres of CBB credits from a CDFW-approved mitigation or conservation bank prior to initiating Covered Activities, or no later than 12 months from the issuance of this ITP if Security is provided pursuant to the <u>Security</u> Condition of Approval. Prior to purchase of Covered Species credits, Permittee shall obtain CDFW approval to ensure the mitigation or conservation bank is appropriate to compensate for the impacts of the Project. Permittee shall submit to CDFW a copy of the Bill of Sale(s) and Payment Receipt prior to initiating Covered Activities or within 12 months from issuance of this ITP if Security is provided.</p>	Before starting Covered Activities, or within 12 months of the effective date of the ITP if Security is provided	
8.3	<p><u>Habitat Management Lands Acquisition and Protection</u>. If the Permittee elects to provide for the acquisition, permanent protection, and/or perpetual management of HM lands to complete compensatory mitigation obligations, then the Permittee shall:</p> <p>8.3.1. <u>Fee Title</u>. Transfer fee title of the HM lands to CDFW pursuant to terms approved in writing by CDFW. Alternatively, CDFW, in its sole discretion, may authorize a governmental entity, special district, non-profit organization, for-profit entity, person, or another entity to hold title to and manage the property provided that the district, organization, entity, or person meets the requirements of Government Code sections 65965-65968, as amended.</p> <p>8.3.2. <u>Fee Title</u>. Transfer fee title of the HM lands to CDFW pursuant to terms approved in writing by CDFW. Alternatively, CDFW, in its sole discretion, may authorize a governmental entity, special district, non-profit organization, for-profit entity, person, or another entity to hold title to and manage the property provided that the district, organization, entity, or person meets the requirements of Government Code sections 65965-65968, as amended.</p> <p>8.3.3. <u>HM Lands Approval</u>. Obtain CDFW written approval of the HM lands before acquisition and/or transfer of the land, and/or funding an endowment or management activities on the land by submitting, at least three months before acquisition, transfer, or funding of the HM lands, documentation identifying the land to be purchased or property interest conveyed to an approved entity as mitigation for the Project's impacts on Covered Species;</p> <p>8.3.4. <u>HM Lands Documentation</u>. If HM lands are acquired and/or transferred, provide a recent preliminary title report, Phase I Environmental Site Assessment, and other necessary documents (please contact CDFW for document list). All documents conveying the HM lands and all conditions of</p>	Before starting Covered Activities, or within 12 months of the effective date of the ITP if Security is provided	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
	<p>title are subject to the approval of CDFW, and if applicable, the Wildlife Conservation Board and the Department of General Services;</p> <p>8.3.5. <u>Land Manager</u>. Designate both an interim and long-term land manager approved by CDFW. The interim and long-term land managers may, but need not, be the same. The interim and/or long-term land managers may be the landowner or another party. Documents related to land management shall identify both the interim and long-term land managers. Permittee shall notify CDFW of any subsequent changes in the land manager within 30 days of the change. If CDFW will hold fee title to the mitigation land, CDFW will also act as both the interim and long-term land manager unless otherwise specified. The grantee for the conservation easement cannot serve as the interim or long-term manager without the express written authorization of CDFW in its sole discretion.</p> <p>8.3.6. <u>Start-up Activities</u>. Provide for the implementation of start-up activities, including the initial site protection and enhancement of HM lands, once the HM lands have been approved by CDFW. Start-up activities include, at a minimum: (1) providing a final management plan for CDFW approval (see <a href="https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=137386&amp;inline">https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=137386&amp;inline</a>); and (2) conducting initial habitat restoration or enhancement, if applicable. If HM lands are acquired and/or transferred, start-up activities also include: (1) providing a baseline biological assessment and land survey report within four months of recording or transfer; (2) developing and transferring Geographic Information Systems (GIS) data if applicable; (3) establishing initial fencing; (4) conducting litter removal; (5) conducting initial habitat restoration or enhancement, if applicable; and (6) installing signage;</p> <p>8.3.7. <u>Interim Management (Initial and Capital)</u>. Provide for the interim management of the HM lands. The Permittee shall ensure that the interim land manager implements the interim management of the HM lands as described in the final management plan and conservation easement approved by CDFW. The interim management period shall be a minimum of three years from the date of HM land acquisition and protection and full funding of the Endowment and includes expected management following start-up activities. Interim management period activities described in the final management plan shall include fence repair, continuing trash removal, site monitoring, and vegetation and invasive species management.</p> <p>Permittee shall either (1) provide Security to CDFW for the minimum of three years of interim management that the land owner, Permittee, or land manager agrees to</p>		



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
	manage and pay for at their own expense, (2) establish an escrow account with written instructions approved in advance in writing by CDFW to pay the land manager annually in advance, or (3) establish a short-term enhancement account with CDFW or a CDFW-approved entity for payment to the land manager.		
8.4	<p><u>Endowment Fund.</u> If the Permittee elects to provide for the acquisition, permanent protection, and/or perpetual management of HM lands to complete compensatory mitigation obligations, then the Permittee shall ensure that the HM lands are perpetually managed, maintained, and monitored by the long-term land manager as described in this ITP, the conservation easement, and the final management plan approved by CDFW. After obtaining CDFW approval of the HM lands, Permittee shall provide long-term management funding for the perpetual management of the HM lands by establishing a long-term management fund (Endowment). The Endowment is a sum of money, held in a CDFW-approved fund that is permanently restricted to paying the costs of long-term management and stewardship of the mitigation property for which the funds were set aside, which costs include the perpetual management, maintenance, monitoring, and other activities on the HM lands consistent with this ITP, the conservation easement, and the management plan as per the <u>Land Manager</u> Condition of Approval. Endowment as used in this ITP shall refer to the endowment deposit and all interest, dividends, other earnings, additions and appreciation thereon. The Endowment shall be governed by this ITP, Government Code sections 65965-65968, as amended, and Probate Code sections 18501-18510, as amended.</p> <p>8.4.1. <u>Identify an Endowment Manager.</u> The Endowment shall be held by the Endowment Manager, which shall be either CDFW or another entity qualified pursuant to Government Code sections 65965-65968, as amended. Permittee shall submit to CDFW a written proposal that includes: (i) the name of the proposed Endowment Manager; (ii) whether the proposed Endowment Manager is a governmental entity, special district, nonprofit organization, community foundation, or congressionally chartered foundation; (iii) whether the proposed Endowment Manager holds the property or an interest in the property for conservation purposes as required by Government Code section 65968(b)(1) or, in the alternative, the basis for finding that the Project qualifies for an exception pursuant to Government Code section 65968(b)(2); and (iv) a copy of the proposed Endowment Manager's certification pursuant to Government Code section 65968(e).</p> <p>Within thirty days of CDFW's receipt of Permittee's written proposal, CDFW shall inform Permittee in writing if it determines the proposal does not satisfy the requirements of Fish and Game Code section 2081(b)(3) and, if so, shall</p>	Before starting Covered Activities, or within 12 months of the effective date of the ITP if Security is provided	



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
	<p>provide Permittee with a written explanation of the reasons for its determination. If CDFW does not provide Permittee with a written determination within the thirty-day period, the proposal shall be deemed consistent with Section 2081(b)(3).</p> <p>8.4.2. <u>Calculate the Endowment Funds Deposit.</u> After obtaining CDFW written approval of the HM lands, long-term management plan, and Endowment Manager, Permittee shall prepare an endowment assessment (equivalent to a Property Analysis Record (PAR)) to calculate the amount of funding necessary to ensure the long-term management of the HM lands (Endowment Deposit Amount). Note that the endowment for the easement holder should not be included in this calculation. The Permittee shall submit to CDFW for review and approval of the results of the endowment assessment before transferring funds to the Endowment Manager.</p> <p>8.4.2.1. <u>Capitalization Rate and Fees.</u> Permittee shall obtain the capitalization rate from the selected Endowment Manager for use in calculating the endowment assessment and adjust for any additional administrative, periodic, or annual fees.</p> <p>8.4.2.2. <u>Endowment Buffers/Assumptions.</u> Permittee shall include in the endowment assessment assumptions the following buffers for endowment establishment and use that will substantially ensure long-term viability and security of the Endowment:</p> <p>8.4.2.2.1. <u>10 Percent Contingency.</u> A 10 percent contingency shall be added to each endowment calculation to hedge against underestimation of the fund, unanticipated expenditures, inflation, or catastrophic events.</p> <p>8.4.2.2.2. <u>Three Years Delayed Spending.</u> The endowment shall be established assuming spending will not occur for the first three years after full funding.</p> <p>8.4.2.2.3. <u>Non-annualized Expenses.</u> For all large capital expenses to occur periodically but not annually such as fence replacement or well replacement, payments shall be withheld from the annual disbursement until the year of anticipated need or upon request to Endowment Manager and CDFW.</p>		



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
	<p>8.4.3. <u>Transfer Long-term Endowment Funds</u>. Permittee shall transfer the long-term endowment funds to the Endowment Manager upon CDFW approval of the Endowment Deposit Amount identified above.</p> <p>8.4.4. <u>Management of the Endowment</u>. The approved Endowment Manager may pool the Endowment with other endowments for the operation, management, and protection of HM lands for local populations of the Covered Species but shall maintain separate accounting for each Endowment. The Endowment Manager shall, at all times, hold and manage the Endowment in compliance with this ITP, Government Code sections 65965-65968, as amended, and Probate Code sections 18501-18510, as amended.</p> <p>Notwithstanding Probate Code sections 18501-18510, the Endowment Manager shall not make any disbursement from the Endowment that will result in expenditure of any portion of the principal of the endowment without the prior written approval of CDFW in its sole discretion. Permittee shall ensure that this requirement is included in any agreement of any kind governing the holding, investment, management, and/or disbursement of the Endowment funds.</p> <p>Notwithstanding Probate Code sections 18501-18510, if CDFW determines in its sole discretion that an expenditure needs to be made from the Endowment to preserve the conservation values of the HM lands, the Endowment Manager shall process that expenditure in accordance with directions from CDFW. The Endowment Manager shall not be liable for any shortfall in the Endowment resulting from CDFW's decision to make such an expenditure.</p>		
8.5	<p><u>Reimburse CDFW</u>. Permittee shall reimburse CDFW for all reasonable costs incurred by CDFW related to issuance and monitoring of this ITP, including, but not limited to transaction fees, account set-up fees, administrative fees, title and documentation review and related title transactions, costs incurred from other state agency reviews, and overhead related to transfer of HM lands to CDFW.</p>	<p>Before starting Covered Activities, or within 12 months of the effective date of the ITP if Security is provided</p>	
9	<p><b>Security:</b> The Permittee may proceed with Covered Activities only after the Permittee has ensured funding (Security) to complete any activity required by the Habitat Management Land Acquisition Condition of Approval that has not been completed before Covered Activities begin. Permittee shall provide Security as follows:</p>		
9.1	<p><u>Master Funding Agreement</u>. Security for this ITP shall be governed by the Master Funding Agreement between the California Department of Fish and Wildlife and the California Department of Transportation, dated September 30, 2024.</p>		



ITP COA (Source)	Mitigation Measure	Implementation Schedule	Status / Date / Responsible Party(ies)
9.2	<u>Funding Memorandum</u> . Permittee has prepared and CDFW has approved, the project-specific Funding Memorandum required by the Master Funding Agreement and attached to this ITP as Attachment 4.		
9.3	<u>Security Amount</u> . The Security shall be in the amount of <b>\$870,415.43</b> . This amount is based on the cost estimates identified in the <u>Cost Estimates</u> Condition of Approval.		
9.4	<u>Funding of the Child Expenditure Authorization (EA)</u> . Permittee shall create and fund the Child EA with funds equivalent to the Security Amount.	Prior to effective date of the ITP	
9.5	<u>Compliance with the Master Funding Agreement</u> . Permittee shall complete all requirements set forth in the Master Funding Agreement and shall at all times comply with the terms and conditions of that Agreement.	Before the start of, and during Covered Activities	
9.6	Even if Security is provided, the Permittee must complete the purchase of credits, required acquisition, protection and transfer of all HM lands, record any required conservation easements, and/or fund the endowment of HM lands no later than 12 months from the effective date of this ITP. CDFW may require the Permittee to provide additional HM lands and/or additional funding to ensure the impacts of the taking are minimized and fully mitigated, as required by law, if the Permittee does not complete these requirements within the specified timeframe.	Before starting Covered Activities, or within 12 months of the effective date of the ITP if Security is provided	



ATTACHMENT 2  
Biologist Resume Form



**ATTACHMENT 2**

Department of Fish and Wildlife

**BIOLOGIST RESUME COVER SHEET**

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**SUBMIT EACH RESUME AS A SEPARATE DOCUMENT**

Number of Resumes Included in Transmittal: \_\_\_\_\_

Name	Requested Role(s) <sup>1</sup>	Species/Resource(s)

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<sup>1</sup> Requested roles correspond to the biological staffing requirements indicated in the Lake and Streambed Alteration (LSA) Agreement or California Endangered Species Act Incidental Take Permit (ITP). Roles may include a "Qualified Biologist" or "Designated Biologist" with the necessary experience to survey for special status species, or a "Designated Monitor" with the necessary experience to monitor construction activities for special status species. An individual may request more than one role.





Department of Fish and Wildlife

**BIOLOGIST RESUME FORM**

*This form requests information about the qualifications of the Qualified Biologist, Designated Biologist and Designated Monitor specified in California Endangered Species Act Incidental Take Permits (ITP) and Lake or Streambed Alteration (LSA) Agreements issued by California Department of Fish and Wildlife (CDFW).*

**Completing this form will ensure the receipt of adequate information and expedite CDFW review of qualifications.**

**SECTION I. NAME AND CONTACT INFORMATION**

Name:		Title:	
Company Name & Address:		Phone:	
		Email:	

**SECTION II. EDUCATION**

College/University & Degree Type Related to Natural Resource Science:	
Other Relevant Workshops & Training:	

**SECTION III. ROLE(S) AND PERMIT REQUIREMENTS**

Requested Role(s):	
Relevant LSA Agreement Measures or ITP Conditions <sup>2</sup> :	

**SECTION IV. SPECIES AND RESOURCE EXPERIENCE – SUMMARY**

*This section summarizes experience by special status species and other resource. Use one row for each species or other resource where surveys or special protections are required in the CESA ITP or LSA Agreement for which biologist approval is requested.<sup>3</sup> If more space is needed, add rows to this table. Provide details in Section 5.*

Species or Resource	Number of Field Seasons & Hours, Life Stages Observed <i>Provide project details in Section 5</i>	Life History Knowledge <i>Describe formal workshops &amp; training with dates, or informal training details</i>	CDFW SCP, MOU, & USFWS 10a1a Authorization Number & Authorized Activities <i>This form does not fulfill SCP, MOU, &amp; USFWS 10a1a reporting requirements</i>
Insert Species or Resource 1	Field seasons: Hours: Life Stages:		Issued to: Expiration: Agency contact:
Insert Species or Resource 2	Field seasons: Hours: Life Stages:		Issued to: Expiration: Agency contact:
Insert Species or Resource 3	Field seasons: Hours: Life Stages:		Issued to: Expiration: Agency contact:

<sup>2</sup> List all measures and conditions from the LSA Agreement or ITP requiring biological staff (i.e., Qualified Biologist, Designated Biologist, or Designated Monitor).

<sup>3</sup> Often LSA Agreements/ITPs require surveys and other protections for multiple species and other resources. Include only those for which the biologist has experience and is requesting approval.



**Project Name:**  
**LSA Agreement/ITP Number(s):**

## SECTION V. SPECIES AND RESOURCE EXPERIENCE – DETAILS

*This section details experience from the three most recent and relevant projects for each species and resource identified in Section 4. If more space is needed, attach additional pages in the same table format (i.e., copy/paste format).*

<b>A. Species or Resource:</b>			
Project 1 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s) <sup>4</sup> :	
Survey Type(s) <sup>5</sup> :		Construction Monitoring <sup>6</sup> :	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB <sup>7</sup> (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 2 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 3 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:

<sup>4</sup> Insert the role as described in the associated LSA Agreement, ITP or other agency permit. If these permits were not issued, describe the role based on the duties, e.g., "lead biologist with handling authorization" or "designated monitor."

<sup>5</sup> For example, pre-construction survey or description of the protocol or guideline followed.

<sup>6</sup> Include the number of days and describe the types of activities monitored (e.g., heavy equipment operation).

<sup>7</sup> CNDDDB is the abbreviation for California Natural Diversity Database.



**Project Name:**  
**LSA Agreement/ITP Number(s):**

Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Additional Information:			

<b>B. Species or Resource:</b>			
Project 1 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 2 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 3 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:



**Project Name:**  
**LSA Agreement/ITP Number(s):**

Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Additional Information:			

<b>C. Species or Resource:</b>			
Project 1 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 2 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:
Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Project 3 Name & Location:		Project Start & End Dates:	
LSA Agreement, ITP, or Other Agency Permit Number:		Role(s):	
Survey Type(s):		Construction Monitoring:	Days: Activities:



**Project Name:****LSA Agreement/ITP Number(s):**

Species Life Stages Observed & Handled, Number of Each:	Life Stage: Number Observed: Number Handled: Reported to CNDDDB (Y/N):	Company Name, Professional Reference Name, Phone, Email:	
If <u>not</u> reported to CNDDDB, why:			
CDFW and Other Agency Email:			
Additional Information:			



## ATTACHMENT 3

The Declining Amphibian Task Force  
Fieldwork Code of Practice



## Attachment 3

## The Declining Amphibian Task Force Fieldwork Code of Practice

A code of practice, prepared by the Declining Amphibian Task Force (DAPTF) to provide guidelines for use by anyone conducting field work at amphibian breeding sites or in other aquatic habitats. Observations of diseased and parasite-infected amphibians are now being frequently reported from sites all over the world. This has given rise to concerns that releasing amphibians following a period of captivity, during which time they can pick up unapparent infections of novel disease agents, may cause an increased risk of mortality in wild populations. Amphibian pathogens and parasites can also be carried in a variety of ways between habitats on the hands, footwear, or equipment of fieldworkers, which can spread them to novel localities containing species which have had little or no prior contact with such pathogens or parasites. Such occurrences may be implicated in some instances where amphibian populations have declined. Therefore, it is vitally important for those involved in amphibian research (and other wetland/pond studies including those on fish, invertebrates and plants) to take steps to minimize the spread of disease and parasites between study sites.

1. Remove mud, snails, algae, and other debris from nets, traps, boots, vehicle tires and all other surfaces. Rinse cleaned items with sterilized (e.g. boiled or treated) water before leaving each study site.
2. Boots, nets, traps, etc., should then be scrubbed with 70% ethanol solution (or sodium hypochlorite 3 to 6%) and rinsed clean with sterilized water between study sites. Avoid cleaning equipment in the immediate vicinity of a pond or wetland.
3. In remote locations, clean all equipment as described above upon return to the lab or "base camp". Elsewhere, when washing machine facilities are available, remove nets from poles and wash with bleach on a "delicates" cycle, contained in a protective mesh laundry bag.
4. When working at sites with known or suspected disease problems, or when sampling populations of rare or isolates species, wear disposable gloves and change them between handling each animal. Dedicate sets of nets, boots, traps, and other equipment to each site being visited. Clean and store them separately and the end of each field day.
5. When amphibians are collected, ensure the separation of animals from different sites and take great care to avoid indirect contact between them (e.g. via handling, reuse of containers) or with other captive animals. Isolation from un-sterilized plants or soils which have been taken from other sites is also essential. Always use disinfected/disposable husbandry equipment.
6. Examine collected amphibians for the presence of diseases and parasites soon after capture. Prior to their release or the release of any progeny, amphibians should be quarantined for a period and thoroughly screened for the presence of any potential disease agents.
7. Used cleaning materials (liquids, etc.) should be disposed of safely and if necessary taken back to the lab for proper disposal. Used disposable gloves should be retained for safe disposal in sealed bags.



ATTACHMENT 4

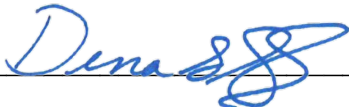
Master Funding Agreement Memorandum



**Exhibit B**  
**FUNDING MEMORANDUM**  
**06-0X220**

- 1) Name of Project: FRE 168 Culvert Rehab
- 2) Brief Description of the Project: see ITP application
- 3) ITP #: *not yet provided by CDFW*
- 4) Caltrans Parent Project EA: 06-0X220
- 5) Caltrans Child EA and program funding source: 06-0X221 SHOPP
- 6) Estimated costs of Mitigation (including monitoring): \$901,155
- 7) Total amount for security (combined total of estimated costs of Mitigation and Monitoring):  
Total Securities: **\$1,932,858** (\$941,429 and 991,428) \$1,950,000 is programmed in CHILD EA

The funds for this project have been currently budgeted (but not yet allocated), for the project as described above. The funds that have been put aside in the Child EA will be only for the purpose of satisfying mitigation requirements and will not be re-allocated to another other element of the project or expended for any purpose other than completing the mitigation requirements.

Signature 

Date: 9/30/24

Name/Title: Dena Gonzalez, Biology Senior

**Instruction:** This form is to be transmitted by CALTRANS to CDFW with each application for an incidental take permit under Fish and Game Code section 2081, and with each request for a Consistency Determination under Fish and Game Code section 2080.1. CALTRANS personnel who signs permit shall also sign this form.