



**California Department of Fish and Wildlife  
 Bay-Delta Region 3  
 2825 Cordelia Road, Suite 100  
 Fairfield, CA 94534**

California Endangered Species Act  
 Incidental Take Permit No. 2081-2024-012-03

**STATE ROUTE 12 MAJOR PAVEMENT REHABILITATION (R2) PROJECT  
 (04-2Q550)**

**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).

**Permittee:** California Department of Transportation  
**Principal Officer:** Lindsay Vivian, Office Chief  
**Contact Person:** Nancy Frost, [Nancy.Frost@dot.ca.gov](mailto:Nancy.Frost@dot.ca.gov), (510) 715-9020  
**Mailing Address:** 111 Grand Avenue, MS-8E, Oakland, CA 94612

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

This ITP shall become effective when signed by all parties and received by CDFW as described in the Notices section of this ITP. Unless renewed by CDFW, this ITP and its authorization to take the Covered Species shall expire on **December 31, 2030**.

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 7.7 of this ITP.

**III. Project Location:**

The State Route 12 Major Pavement Rehabilitation (2R) Project (Project) is located along State Route 12 (SR-12) at Post Mile (PM) 7.7 to PM 14.1 in Solano County, in the State of California (Exhibit A). The Project will occur on SR-12 from 0.5 mile east of Walters

<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.

Road/Lawler Ranch Parkway (westernmost end) to 0.5 mile east of Shiloh/Lambie Road (easternmost end) near the City of Fairfield, Solano County (See Figure 1).

**IV. Project Description:**

The Project proposes to replace asphalt concrete surfacing and overlay, replace the temporary barriers located in the median with permanent concrete barriers type 60M, replace shoulder and centerline rumble strips, replace metal beam guardrail with Midwest guardrail system, upgrade crash cushions to current standards, upgrade drainage systems, widen shoulders, remove and replace the existing asphalt concrete dikes, and provide erosion control where necessary. In addition, the Project proposes to upgrade the bridge railings at the Union Creek bridge and Denverton Creek bridge to be consistent with current Caltrans standards.

**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. California tiger salamander ( <i>Ambystoma californiense</i> )	Threatened <sup>4</sup>

This species and only this species is the “Covered Species” for the purposes of this ITP.

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

Project activities and their resulting impacts are expected to result in the incidental take of individuals of the Covered Species. The activities described above expected to result in incidental take of individuals of the Covered Species include initial site preparation; bridge work on Union and Denverton Creek bridges; heavy equipment operation; handling of stockpiles and stored materials; foot traffic; grading; trenching; road resurfacing; installation and removal of two temporary creek diversion systems (TCDS); replacing median barrier, bumble strips and guardrails, culverts and drainage; excavation associated with installation of signage; fencing; vegetation removal; fill placement; and/or relocation activities prescribed by this ITP (Covered Activities).

Incidental take of individuals of the Covered Species in the form of mortality (“kill”) may occur as a result of Covered Activities such as destruction of burrows and dens that the Covered Species inhabit; being crushed under moving vehicles and equipment; and desiccation or predation along fence lines and other barriers to movement. Incidental take of individuals of the Covered Species may also occur from the Covered Activities in the form of pursue, catch, capture, or attempt to do so of the Covered Species from relocation actions absent implementation of protective conditions. The areas where authorized take of the Covered

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

Species is expected to occur include Covered Species habitat areas subject to ground disturbing activities, as shown in Figure 1 (collectively, the Project Area).

The Project is expected to cause the temporary loss of 6.32 acres and a permanent loss of 0.178 acres of habitat for the Covered Species, bringing total impacts to 6.5 acres (Attachment 1 and 2). 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 stress resulting from construction noise and vibrations and from capture and relocation; temporary and permanent habitat loss; and long-term effects due to increased pollution, increased competition for food and space, and increased vulnerability to predation.

## **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. 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 for the State Route 12 Major Pavement Rehabilitation (2R) Project (SCH No.: 2022100135) for adopted by California Department of Transportation on March 7, 2022 as lead agency for the Project pursuant to the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.).
- 3. LSA Agreement Compliance:** Permittee shall implement and adhere to the mitigation measures and conditions related to the Covered Species in the Lake and Streambed Alteration (LSA) Agreement (Environmental Permit Management Information System

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(EPIMS) Notification No. EPIMS-SOL-46344-R3) for the Project executed by CDFW pursuant to Fish and Game Code section 1600 et seq.

- 4. ESA Compliance:** Permittee shall implement and adhere to the terms and conditions related to the Covered Species in the State Route 12 Major Pavement Rehabilitation Project Biological Opinion once finalized for the Project pursuant to the Federal Endangered Species Act (ESA). For purposes of this ITP, where the terms and conditions for the Covered Species in the federal authorization are less protective of the Covered Species or otherwise conflict with this ITP, the conditions of approval set forth in this ITP shall control.
- 5. 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 3 to this ITP.
- 6. General Provisions:**
  - 6.1. 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.
  - 6.2. Designated Biologist(s), Biological Monitor(s).** Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of the Designated Biologist(s) and Biological Monitor(s) using the Biologist Resume Form (Attachment 4) or another format containing the same information at least 30 days before starting Covered Activities. Permittee shall ensure that the Designated Biologist(s) and Biological Monitor(s) are knowledgeable and experienced in the biology, natural history, collecting and handling of the Covered Species. The Designated Biologist(s) and Biological 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 Biological Monitor(s) in writing before starting Covered Activities and shall also obtain approval in advance, in writing, if the Designated Biologist(s) or Biological Monitor(s) must be changed.
  - 6.3. Designated Biologist Authority.** To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist 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 Site and otherwise facilitate the Designated Biologist

in the performance of his/her duties. If the Designated Biologist is unable to comply with the ITP, then the Designated Biologist 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 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 non-compliance or take or injury of a Covered Species as a result of such agreement or contract may result in CDFW taking actions to prevent or remedy a violation of this ITP.

- 6.4. Education Program.** Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before performing any work. The program shall consist of a presentation from the Designated Biologist 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. Would like to include specifics: Emphasis will be placed on the importance of the habitat and life-stage requirements within the context of Project avoidance and minimization measures. Handouts, illustrations, photographs, and/or Project mapping that show the areas where minimization and avoidance measures are being implemented will be included as part of this education program. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. 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. 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.
- 6.5. Construction Monitoring Documentation.** The Designated Biologist(s) and Biological 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 site upon request by CDFW.
- 6.6. 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.

- 6.7. Dust Control.** Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist. Permittee shall keep the amount of water used to the minimum amount needed and shall not allow water to form puddles.
- 6.8. Erosion Control Materials.** Permittee shall prohibit use of erosion control materials potentially harmful to Covered Species and other species, such as monofilament netting (erosion control matting) or similar material, in potential Covered Species' habitat.
- 6.9. Delineation of Property Boundaries.** Before starting Covered Activities along each part of the route in active construction, Permittee shall clearly delineate the boundaries of the Project Area with fencing, stakes, or flags. Permittee shall restrict all Covered Activities to within the fenced, staked, or flagged areas. Permittee shall maintain all fencing, stakes, and flags until the completion of Covered Activities in that area.
- 6.10. Delineation of Habitat.** Permittee shall clearly delineate habitat of the Covered Species within the Project 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.
- 6.11. Project Access.** Project-related personnel shall access the Project Area using existing routes, or routes identified in the Project Description 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, and parking areas. Permittee shall ensure that vehicle speeds do not exceed 20 miles per hour to avoid Covered Species on or traversing the roads. If Permittee determines construction of routes for travel 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 as a result of the Project modification.
- 6.12. Staging Areas.** Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the Project Area using, to the extent possible, previously disturbed areas. Additionally, Permittee shall not use or cross Covered Species' habitat outside of the marked Project Area unless provided for as described in Condition of Approval 6.11 of this ITP.
- 6.13. 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.

**6.14. 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.

**6.15. 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.

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

**7.1. Notification Before Commencement.** The Designated Representative shall notify CDFW 14 calendar days before starting Covered Activities and shall document compliance with all pre-Project Conditions of Approval before starting Covered Activities.

**7.2. Notification of Non-compliance.** The Designated Representative 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.

**7.3. Compliance Monitoring.** The Designated Biologist shall be on-site daily when Covered Activities occur. The Designated Biologist shall conduct compliance inspections a minimum of once per week during periods of inactivity and/or in areas adjacent to known Covered Species breeding locations. The Designated Biologist 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) check all exclusion zones; and
- (5) ensure that signs, stakes, and fencing are intact, and that Covered Activities are only occurring in the Project Area.

The Designated Representative or Designated Biologist shall prepare daily written observation and inspection records summarizing oversight activities and compliance

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inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by this ITP.

- 7.4. Monthly Compliance Report.** The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 7.3 into a Monthly Compliance Report and submit it to CDFW along with a copy of the MMRP table with notes showing the current implementation status of each mitigation measure. 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. At the time of this ITP's approval, the CDFW Regional Representative is Karen Taylor, Senior Environmental Scientist (Specialist) ([Karen.Taylor@wildlife.ca.gov](mailto:Karen.Taylor@wildlife.ca.gov)), Regional CESA email, [R3CESA@wildlife.ca.gov](mailto:R3CESA@wildlife.ca.gov), and Headquarters CESA Program email, [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.
- 7.5. Annual Status Report.** Permittee shall provide CDFW with an Annual Status Report (ASR) no later than January 31 of every year beginning with issuance of this ITP and continuing until CDFW accepts the Final Mitigation Report identified below. Each ASR shall include, at a minimum: (1) a summary of all Monthly Compliance Reports for that year identified in Condition of Approval 7.4; (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) all available information about Project-related incidental take of the Covered Species; (6) 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 (7) information about other Project impacts on the Covered Species.
- 7.6. CNDDDB Observations.** The Designated Biologist 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 shall include copies of the submitted forms with the next Monthly Compliance Report or ASR, whichever is submitted first relative to the observation.
- 7.7. Final Mitigation Report.** No later than 60 days after completion of all mitigation measures, Permittee shall provide CDFW with a Final Mitigation Report. The Designated Biologist shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Monthly Compliance Reports and all ASRs; (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 the Covered Species; and (8) any other pertinent information.

**7.8. Notification of Take or Injury/Damage.** Permittee shall immediately notify the Designated Biologist if a Covered Species is taken or injured/damaged by a Project-related activity, or if a Covered Species is otherwise found dead or injured/damaged within the vicinity of the Project. The Designated Biologist or Designated Representative shall provide initial notification to CDFW by calling the Regional Office at (707) 428-2002. Initial notification shall also be provided to the CDFW Regional Representative is Karen Taylor, Senior Environmental Scientist (Specialist) ([Karen.Taylor@wildlife.ca.gov](mailto:Karen.Taylor@wildlife.ca.gov)) and Regional CESA email, [R3CESA@wildlife.ca.gov](mailto:R3CESA@wildlife.ca.gov). The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured/damaged and the ITP Number (2081-2024-012-03). Following initial notification, 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, and if possible, provide a photograph, explanation as to cause of take or injury/damage, and any other pertinent information.

**8. 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:

**8.1. Seasonal Work Window and Weather.** Permittee shall limit Covered Activities to the period between June 1 and October 15, until the expiration of this ITP. Permittee shall monitor the National Weather Service 72-hour forecast for the Project Area. No Covered Activities shall occur during a rain event. No Project activities will be started if the associated erosion control measures cannot be completed prior to the onset of precipitation. No Covered Activities shall occur if there is a 40 percent chance of precipitation or greater in the National Weather Service 72-hour forecast for the Project Area. Covered Activities may continue 24 hours after the rain ceases if there is less than a 40 percent chance of precipitation in the 24-hour forecast for the Project Area.

**8.2. Time of Day Work Restriction.** For any activity that will clear, grub, remove existing unpaved features, excavate embankments, remove existing drainage features, construct new drainage features or excavate soil that is not covered by a paved area, the Permittee shall terminate all Covered Activities 30 minutes before sunset and shall not resume Covered Activities until 30 minutes after sunrise unless approved by the CDFW Representative in writing. The Permittee shall use sunrise and sunset

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times established by the U.S. Naval Observatory Astronomical Applications Department for determining when Covered Activities shall terminate and resume. Nightwork exceptions may be authorized upon written request and written approval with CDFW (via E-Mail). Nightwork requests beyond thirty (30) nights may require an amendment to this ITP.

- 8.3. Pre-Construction Surveys.** The Designated Biologist shall complete walking surveys of the Project Area prior to any ground-disturbing activity (such as excavation, grading, road widening, and operation of heavy equipment), and shall follow earthmoving equipment to look for Covered Species during initial site grading. Areas to be surveyed shall include suitable habitat features for the Covered Species such as aquatic and upland areas as well as under woody debris. Pre-construction surveys shall be done in conjunction with the installation of the temporary Covered Species construction barrier described in Condition of Approval 8.4. If a Covered Species is discovered by the Designated Biologist or anyone else, the Designated Biologist shall move the animal to a safe nearby location (e.g. mouth of a ground-squirrel burrow outside of the construction area) and monitor it until it is determined that it is not imperiled by predators or other dangers.
- 8.4. Temporary Covered Species Barrier.** Prior to beginning Covered Activities, Permittee shall submit plans for a temporary Covered Species barrier along the limits of temporary vehicle staging areas, initial grading areas and other disturbance areas to prevent the Covered Species from dispersing into the Project Area. The barrier shall be designed to prevent Covered Species from entering the work area, while allowing trapped individuals to leave the work area, and shall remain in place until all construction activities have been completed. The barrier shall consist of fencing at least three feet tall and buried to a depth of a minimum of four inches below the soil surface. Barrier support stakes shall be restricted to the side of the work area (no stakes on the side opposite of the work area) to prevent the possibility of Covered Species using the posts to climb over the fence. Holes or burrows, which appear to extend under the barrier, shall be blocked to minimize Covered Species movement under the barrier. The Designated Biologist (or other trained staff during periods when no covered Activities occur) shall inspect the barrier daily, and before, during and after storm events. The Permittee shall maintain and repair the barrier immediately to ensure that it is functional and without defects. Vegetation shall be managed on the opposite side of the work area at least three feet outward to prevent the possibility of Covered Species from using vegetation to climb over the barrier. The vegetation barrier may be modified in consultation with CDFW. Permittee shall provide refuge opportunities, such as cover boards (2-foot x 2-foot plywood), along the silt fencing on both sides of the barrier. The Designated Biologist shall inspect refuge areas each morning during and after rain events. Animals found within the interior fence shall be relocated outside the fence line no more than 300 feet from the Project boundary and shall be relocated by the Designated Biologist per the Relocation Plan.

- 8.5. Small Mammal Burrow Survey and Inspections.** Prior to the initiation of construction the Project area shall be surveyed for small mammal and other wildlife burrows. If burrows are detected they shall be avoided to the most feasible extent practicable. Avoidance shall include excluding from the Project Area as an environmental sensitive area (ESA) using the protocol outlined in Condition of Approval 8.4. If impacts to burrows cannot be avoided by Covered Activities alternative methods of avoidance shall be developed in coordination with CDFW.
- 8.6. Trench Escape and Inspection.** The Designated Biologists and trained construction foreman/manager, supervised by the Designated Biologist, shall inspect all open holes, sumps, and trenches within the Project Area at the beginning of each day for any open hole greater than one (1) foot. To prevent inadvertent entrapment of Covered Species, the Designated Biologist(s) shall oversee the covering of all trenches, holes, sumps, or other excavations with a depth greater than one (1) foot. Covering methods can include steel plates, wood planks and earthen overlay. The coverings shall be constructed to make sure wildlife cannot burrow into the area being covered. If the area cannot be covered an escape ramp (earthen fill or wood plank material) shall be installed at an angle of no more than 30 degrees and inspected each day by the Designated Biologist. Each morning prior to beginning Covered Activities and immediately before trenches, holes, sumps, or other excavations are backfilled, the Designated Biologist(s) and/or construction foreman/manager shall thoroughly inspect them for Covered Species. Permittee shall cease all Covered Activities in the vicinity and notify the Designated Biologist(s) immediately if any worker discovers that Covered Species have become trapped. If at any time a trapped Covered Species is discovered by the Designated Biologist or anyone else, the Designated Biologist shall capture and relocate the animal to a safe nearby location per the Relocation Plan described in Conditions of this permit.
- 8.6.1.** If open holes, sumps, trenches, or excavations cannot be covered then a temporary barrier shall be installed around any trenches, holes, sumps, or other excavations to prevent Covered Species from becoming trapped.
- 8.7. Inspection of Pipes and Culverts.** All construction pipes, culverts, or similar structures that are stored at the Project site for one or more overnight periods shall be securely capped prior to storage or inspected by the Designated Biologist before the pipe is subsequently buried, capped, or otherwise used or moved in any way. If a Covered Species is discovered inside a pipe by the Designated Biologist or anyone else, the Covered Species shall be allowed to leave its own accord, or if it can be safely captured, it shall be relocated by the Designated Biologist to a suitable location outside of the Project Area.
- 8.8. Vehicle and Equipment Inspection.** Workers shall inspect for Covered Species under vehicles and equipment before the vehicles and equipment are moved. If a Covered Species is present, the worker shall wait for the Covered Species to move unimpeded to a safe location. Alternatively, the Permittee shall contact the

Designated Biologist to determine if the Designated Biologist can safely move the Covered Species in Accordance with Conditions of this permit.

- 8.9. Notification of Non-Native Covered Species or Hybrids.** The Designated Biologist shall immediately notify CDFW if a suspected non-native barred tiger salamander (*Ambystoma tigrinum mavortium*) or Covered Species/non-native hybrid is found within the Project Area within 24 hours by calling CDFW's Regional Representative. The Designated Biologist shall not release any non-native or hybrid salamanders back to the wild until directed to do so by CDFW. The Designated Biologist shall follow the Capture and Handling measures outlined in this ITP).
- 8.10. Covered Species Handling and Injury.** If an injured Covered Species is found during the Project term, the Designated Biologist shall evaluate the individual and immediately contact the CDFW Regional Representative, via email and telephone, to discuss the next steps. If the CDFW Regional Representative cannot be contacted immediately, the Designated Biologist shall place the injured individual in a safe and shaded location. Any injured Covered Species shall be placed in a shaded container and kept moist, and shall be handled and assessed according to the *Restraint and Handling of Live Amphibians*, USGS, National Wildlife Health Center (D. Earl Greene, ARMI SOP NO. 100; 16 February 2001); If the CDFW Regional Representative is not available or has not responded within 15 minutes of initial attempts then the following steps shall be taken:
- 8.10.1.** If the injury to the Covered Species is minor or healing and the individual is likely to survive, the individual shall be released immediately;
- 8.10.2.** If it is determined that the Covered Species has major or serious injuries as result of Project-related activities, then the Designated Biologist shall immediately take it to the Lindsay Wildlife Museum or another CDFW-approved facility. If taken into captivity the individual shall remain in captivity and not be released into the wild unless it has been kept in quarantine and the release is authorized by CDFW and USFWS. Permittee shall bear any costs associated with the care or treatment of such injured Covered Species. The circumstances of the injury, the procedure followed and the final disposition of the injured animal shall be documented in a written incident report.
- 8.11. Covered Species Relocation Plan.** The Designated Biologist(s) shall prepare a Covered Species Relocation Plan (Relocation Plan) and submit for CDFW review 60 days prior to the initiation of construction. The Relocation Plan shall include, but not be limited to, pre-activity survey methodology appropriate for the season, capture, handling, and relocation methods; and identification of where the individuals will be relocated to. The relocation areas shall be identified by the Designated Biologist(s) based upon best suitable habitat available and time of year and approved by CDFW prior to the start of Covered Activities. The Relocation Plan shall be submitted to CDFW for review and approval prior to the beginning of Covered Activities. Covered Activities anywhere within the Project Area may not proceed until the Relocation Plan

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is approved in writing by CDFW. Only the approved Designated Biologist(s) are authorized to capture and handle the Covered Species.

- 8.12. Permanent Lighting Prohibition.** No new or replacement of existing permanent light sources are otherwise authorized under the terms of this ITP.
- 8.13. Temporary Lighting Avoidance and Minimization.** All temporary Project lighting associated with construction staging areas, access routes and construction sites shall be shut down upon the completion of work each day and not used as security lighting overnight. Temporary Project lighting on the surface of the road shall be directed towards the road surface and shall not be directed into areas outside of the road surface to prevent additional light pollution and disruption of nocturnal wildlife activity. Baffles and various shading devices may be employed.
- 8.14. Rock Slope Protection Filter Fabric Prohibition.** No rock slope protection (RSP) filter fabric or similar plastic-derived materials are authorized for permanent use within the Project Area.
- 8.15. Wildlife Connectivity for Covered Species.** Permittee shall increase diameter of three designated culverts to 48-inches to provide relatively safe passage for the Covered Species to cross under SR-12. Permittee shall embed culverts with a natural bottom to provide a moist surface for small wildlife using the culvert to pass under SR-12 and preserve the integrity of upstream seasonal wetlands by maintaining the consistent flow rate. Depth of the embedded material within the culverts will be 12-inches.
- 8.16. Wildlife Directional Curbs for Covered Species.** Permittee shall install CDFW-approved Covered Species directional curbs to direct individuals towards the wildlife passages and away from SR-12. Directional curbs will be installed 131 feet on each side of the three wildlife crossing culverts at PM 11.85. Small turnarounds will be incorporated at the ends of the curbs to change the trajectory of movement for herpetofauna and small mammals.

- 9. Habitat Management Land Acquisition and Restoration:** 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 3.694 acres of Covered Species credits from a CDFW-approved mitigation or conservation bank pursuant to Condition of Approval 9.1 below, OR shall provide for both the permanent protection and management of 6.5 acres of Habitat Management (HM) lands pursuant to Condition of

Approval 9.3 below and the calculation and deposit of the management funds pursuant to Condition of Approval 9.4 below.

Compensatory habitat shall include upland foraging and dispersal habitat for Covered Species through preservation, restoration, enhancement, and/or creation of habitat that is the same or better quality as upland habitat and the riparian habitat that will be impacted. 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 18 months of the effective date of this ITP if Security is provided pursuant to Condition of Approval 10 below for all uncompleted obligations. The Permittee shall also restore on-site 6.32 acres of temporarily impacted Covered Species habitat pursuant to Condition of Approval 9.4 below.

### **On-site Connectivity Mitigation**

Construction of the State Route 12 Major Pavement Rehabilitation Project will include improvements to existing culverts to provide relatively safe passage for wildlife to cross under the road. Curbs will be incorporated into the design to direct small wildlife, such as California tiger salamander (*Ambystoma californiense*) (CTS), to the crossing structure (see Attachment 3).

The diameter of three culverts will be increased to 48 inches. The new culverts will be embedded with streambed material in the invert embedding the culverts with a natural bottom will provide a moist surface for small wildlife using the culvert to pass under the highway and will preserve the integrity of upstream seasonal wetlands by maintaining a consistent flow rate. The depth of the embedded material within culverts will be 12 inches.

Drainage system work at PMs 11.3 (Drainage System 8 at Station 289+74), 11.6 (Drainage System 9 at Station 303+89), and 11.98 (Drainage System 10 at Station 319+70) will remove the entire existing 30-inch reinforced concrete pipe (RCP) culvert and flared end sections (FESs) at both ends with a 48-inch RCP culvert.

**9.1. Covered Species Credits.** To compensate for the 6.5 acres of temporary and permanent impacts, Permittee shall purchase 3.694 acres of Covered Species credits from a CDFW-approved mitigation or conservation bank prior to initiating Covered Activities, or no later than 18 months from the issuance of this ITP if Security is provided pursuant to Condition of Approval 10 below. 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.

**9.2. 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:

**9.2.1. On-site Connectivity Mitigation.** On-site connectivity mitigation in the form of directional curbs, increased culvert size and 3 years of post-construction monitoring will offset the total security amount pursuant to Condition of Approval 10.3 below in the amount of: **\$132,052.00**

**9.2.2. Covered Species Credits for Temporary Impacts.**

**9.2.2.1.** Purchase 3.16 acres Covered Species credits from a CDFW-approved mitigation or conservation bank: **\$158,000.00**

**9.2.3. Covered Species Credits for Permanent Impacts.** Purchase 0.534 acres of Covered Species credits from a CDFW-approved mitigation or conservation bank: **\$26,700.00**

**9.2.4. Covered Species Post-Construction Movement Study.** Conduct post-construction monitoring for 3-years by a CDFW-approved Covered Species Movement Study: **\$40,000.00**

**9.3. Bill of Sale and Payment Receipt.** Permittee shall submit to CDFW a copy of the Bill of Sale(s) and Payment Receipt or prior to Project activities or within 18 months from issuance of this ITP if Security is provided.

**9.4. Habitat Restoration.** Permittee shall restore on-site the 6.32 acres of Covered Species habitat that will be temporarily disturbed during construction to pre-project or better conditions. Thirty (30) days prior to the initiation of Covered Activities, the Permittee shall prepare a Vegetation Restoration Plan to facilitate revegetation of the 6.32 acres of temporary construction disturbance on-site and shall ensure that the Plan is successfully implemented by the contractor. The Plan shall include detailed specifications for restoring all temporarily disturbed areas, such as seed mixes and application methods. The plan shall also indicate the best time of year for seeding to occur. Plantings undertaken between June and October shall include regular watering to ensure adequate growth.

Seeding placed after October 1 shall be applied by hydroseed or fiber rolls. Erosion control blankets with monofilament or woven plastic strands shall not be used. Submission in the form of a map or figure that outlines areas of impacts and areas of re-seeding that include before and after Covered Activities photos should also be included. At the discretion of CDFW, all exposed areas where seeding is unsuccessful after 90 days shall receive appropriate soil preparation and a second application of seeding or mulch as soon as is practical on a day mutually agreed upon with CDFW.

**9.4.1. Covered Species Movement Study.** Permittee shall submit a Covered Species Movement Study Plan for approval to CDFW 30 days prior to the initiation of Covered Activities. The study shall focus on determining if SR-12 presents a barrier to Covered Species movement and if connectivity features are being

utilized to influence designs for future segments of the SR-12 Project to accommodate Covered Species movement. The study plan shall determine the number of cameras to be installed and their locations for each connectivity location. The cameras shall be capable of sensing small herpetofauna. The study shall monitor the selected location for a period of at least 3 months each year after construction is complete over a period of five years. As an alternative the Permittee may develop an environmental-DNA (e-DNA) study proposal in coordination with CDFW.

**10. 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 9 that has not been completed before Covered Activities begin. Permittee shall provide Security as follows:

**10.1. 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 3, 2021.

**10.2. 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 5.

**10.3. Security Amount.** The Security shall be in the amount of **\$356,752.00**. This amount is determined by CDFW based on the cost estimates identified in Condition of Approval 9.1 above and the Funding Memorandum.

**10.4. Funding of the Child Expenditure Authorization (EA).** Permittee shall create and fund the Child EA with funds equivalent to the Security Amount.

**10.5. 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.

Even if Security is provided, the Permittee must complete the required acquisition, protection and transfer of all HM lands and record any required conservation easements no later than 18 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 the 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 nor CDFW shall be liable for any costs incurred in complying with stop-work orders.

#### **XI. Liability:**

All terms and conditions of this ITP shall be binding upon each Permittee. Notwithstanding California Civil Code section 1431 or any other provision of law, each Permittee shall be jointly and severally liable for performance of all terms, conditions, and obligations of this ITP and shall be jointly and severally liable for any unauthorized take or other violations of this ITP, whether committed by Permittees or any person acting on behalf of one or more Permittees, including their officers, employees, representatives, agents or contractors and subcontractors. Any failure by one or more Permittees to comply with any term, condition, or obligation herein shall be deemed a failure to comply by all Permittees.

#### **XII. 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. The Permittee is responsible for complying with all other applicable federal, state, and local law.

### **XIII. Notices:**

The Permittee shall sign and return this ITP to CDFW. A manual or digital signature is acceptable, provided a digital signature complies with Government Code section 16.5. Digital signatures facilitated by CDFW will be automatically returned. Manual (wet) signatures on duplicate original paper copies shall be returned by the Permittee via registered first-class mail or overnight delivery to the following address:

Habitat Conservation Planning Branch  
California Department of Fish and Wildlife  
Attention: CESA Permitting Program  
Post Office Box 944209  
Sacramento, CA 94244-2090

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 (2081-2024-012-03) in a cover letter and on any other associated documents.

Original cover with attachment(s) to:

Erin Chappell, Regional Manager  
California Department of Fish and Wildlife – Bay Delta Region  
2825 Cordelia Road, Suite 100  
Fairfield, CA 94534  
[R3CESA@wildlife.ca.gov](mailto:R3CESA@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, CA 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:

Karen Taylor, Senior Environmental Scientist (Specialist)  
California Department of Fish and Wildlife – Bay Delta Region  
2825 Cordelia Road, Suite 100  
Fairfield, CA 94534  
(707) 337-1187  
[Karen.Taylor@wildlife.ca.gov](mailto:Karen.Taylor@wildlife.ca.gov)

Incidental Take Permit  
No. 2081-2024-012-03

**California Department of Transportation**

STATE ROUTE 12 MAJOR PAVEMENT REHABILITATION (2R) PROJECT

#### **XIV. 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, California Department of Transportation. (See generally Pub. Resources Code, §§ 21067, 21069.) The lead agency's prior environmental review of the Project is set forth in the State Route 12 Major Pavement Rehabilitation (R2) Project (SCH No.: 2022100135) dated September 2022 that the California Department of Transportation adopted for the State Route 12 Major Pavement Rehabilitation (R2) Project on November 7, 2022. 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 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.

#### **XV. 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, the State Route 12 Major Pavement Rehabilitation (R2) Project, Mitigated Negative Declaration, United States Fish and Wildlife Service Biological Opinion, the results of site visits and consultations, 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

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STATE ROUTE 12 MAJOR PAVEMENT REHABILITATION (2R) PROJECT

of the acreage required to provide for adequate compensation. Based on this evaluation, CDFW determined that the protection and management in perpetuity of 6.9 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.

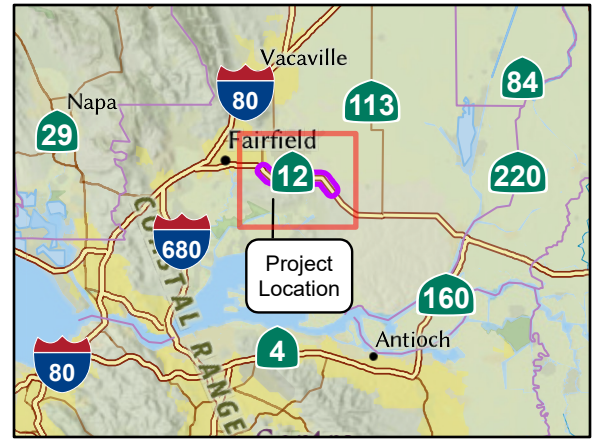
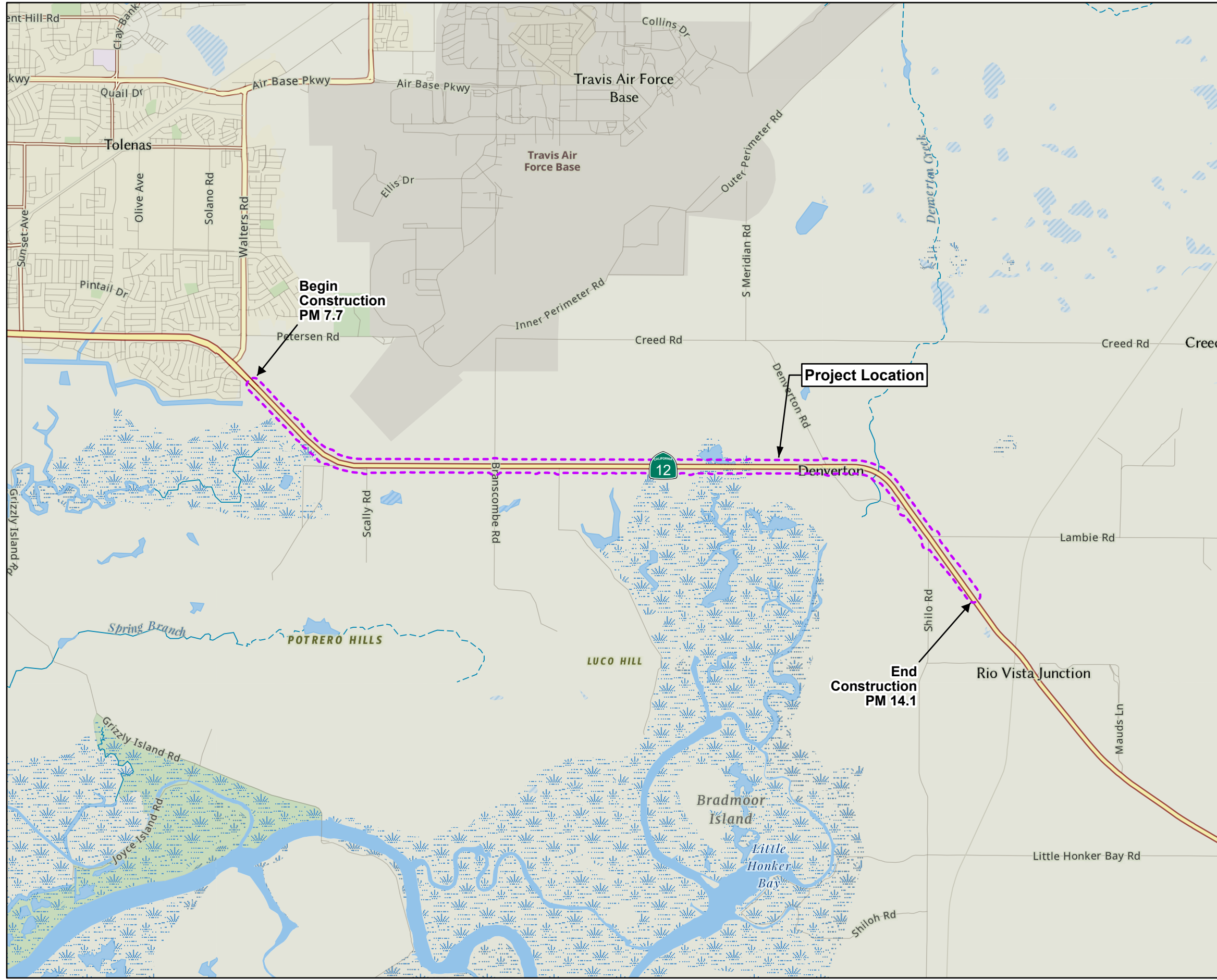
**XVI. Attachments:**

FIGURE 1	Map of Project Location (04-2Q550)
ATTACHMENT 1	Project Impacts Map (04-2Q550)
ATTACHMENT 2	Covered Species Habitat Map (04-2Q550)
ATTACHMENT 3	Wildlife Passage Connectivity Proposal (serving as Mitigation Monitoring and Reporting Program)
ATTACHMENT 4	Biologist Resume Form
ATTACHMENT 5	Master Funding Agreement Funding Memorandum

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

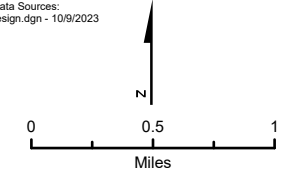
**ON** 8/27/2024.

Signed by:  
*Greg Martinelli for*  
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Erin Chappell, Regional Manager  
Bay Delta Region

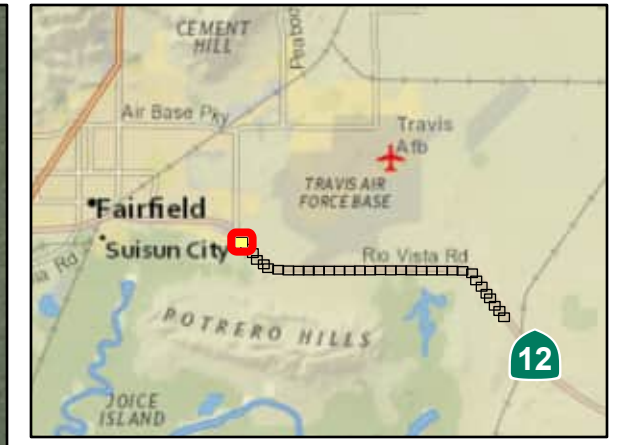


**Legend**  
 Biological Study Area (453 acres)

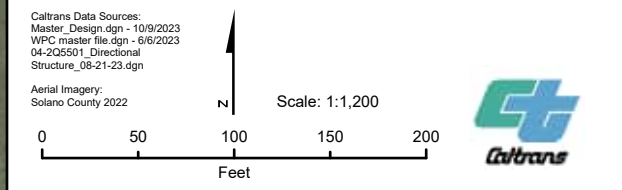
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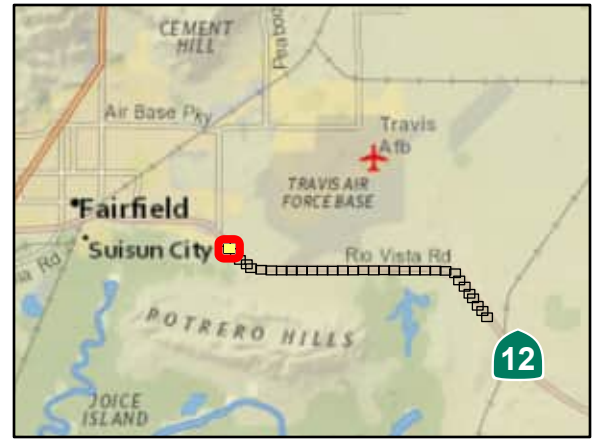
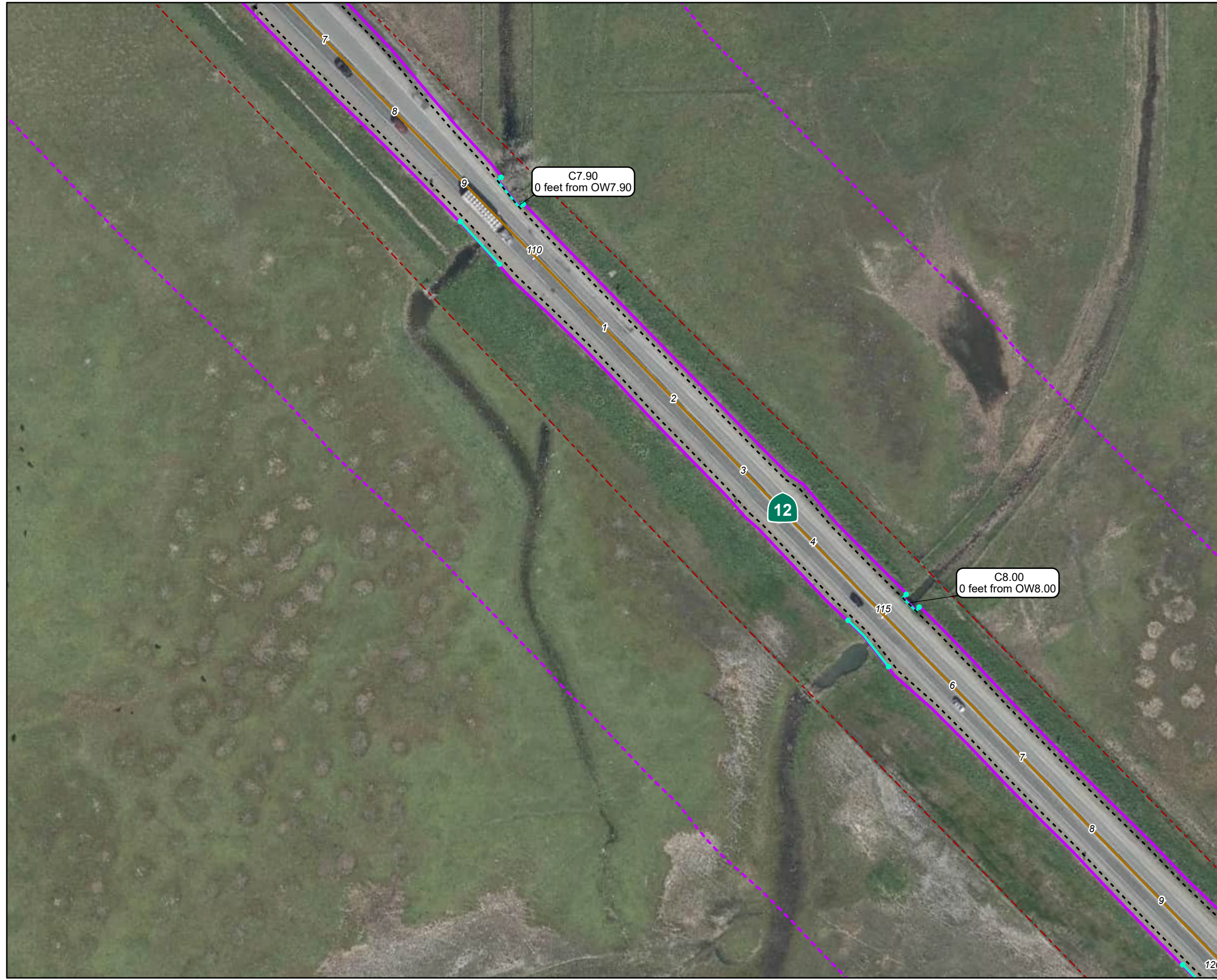
**Figure 1**  
**Project Vicinity**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



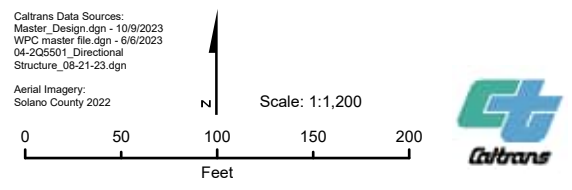
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Concrete Barrier



**Attachment 1**  
**Project Elements**  
**Map 1 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

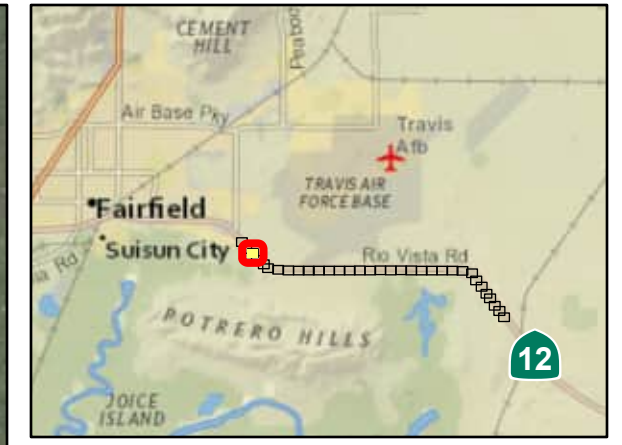


- Legend**
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  - Action Area (453 acres)
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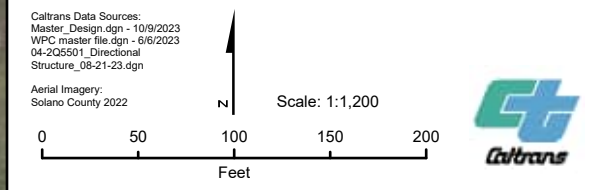


**Attachment 1**  
**Project Elements**  
**Map 2 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

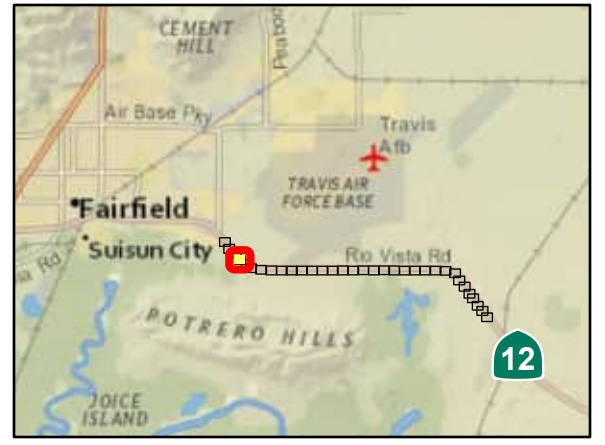




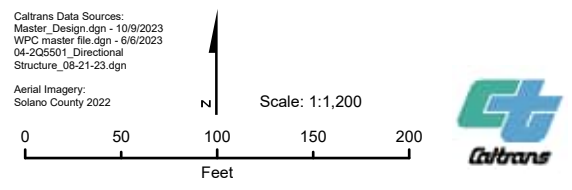
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  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
  - Staging Area



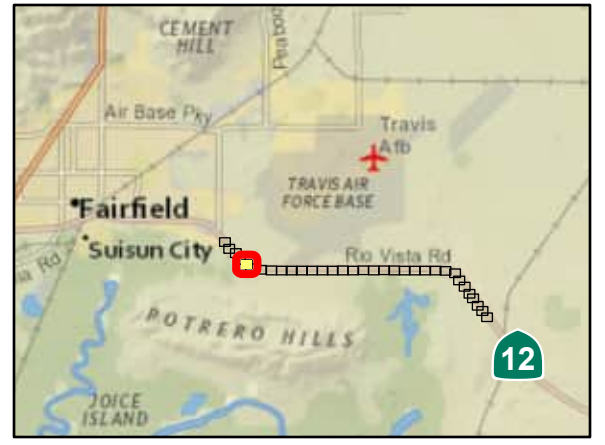
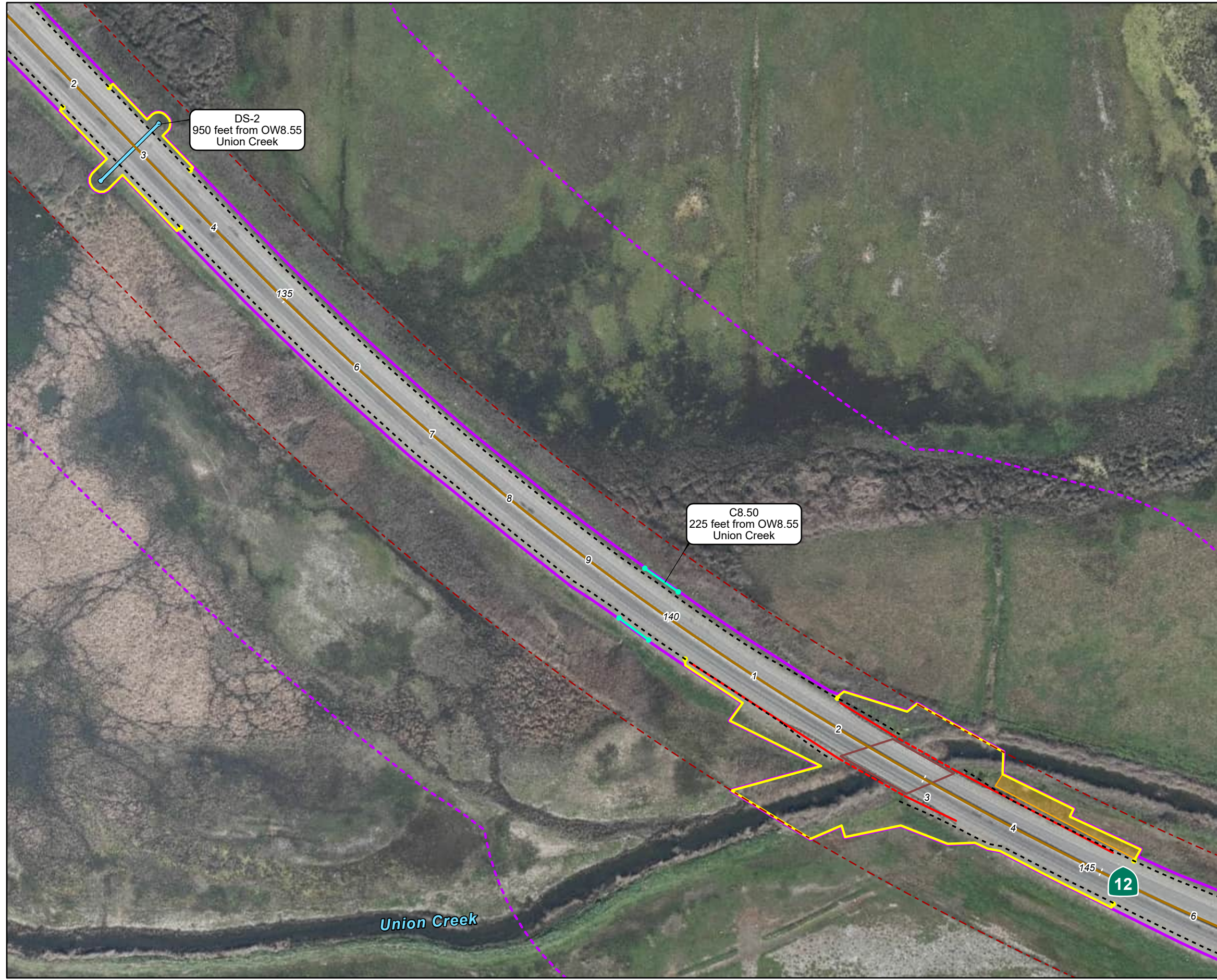
**Attachment 1**  
**Project Elements**  
**Map 3 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



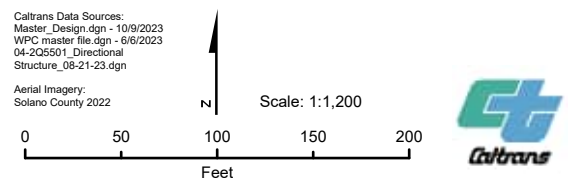
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  - Existing Caltrans ROW
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  - Concrete Barrier
  - Staging Area
  - Culvert Replacement
  - 30" RCP



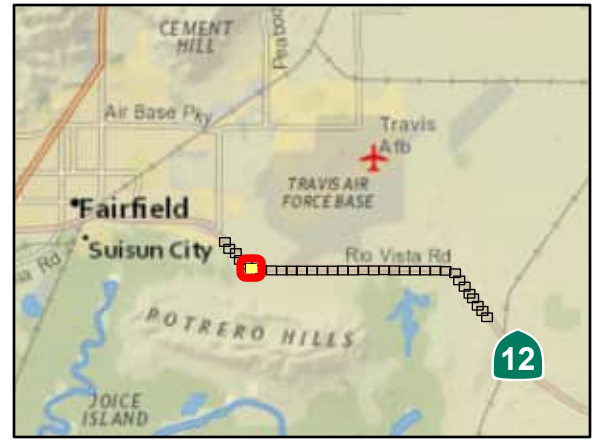
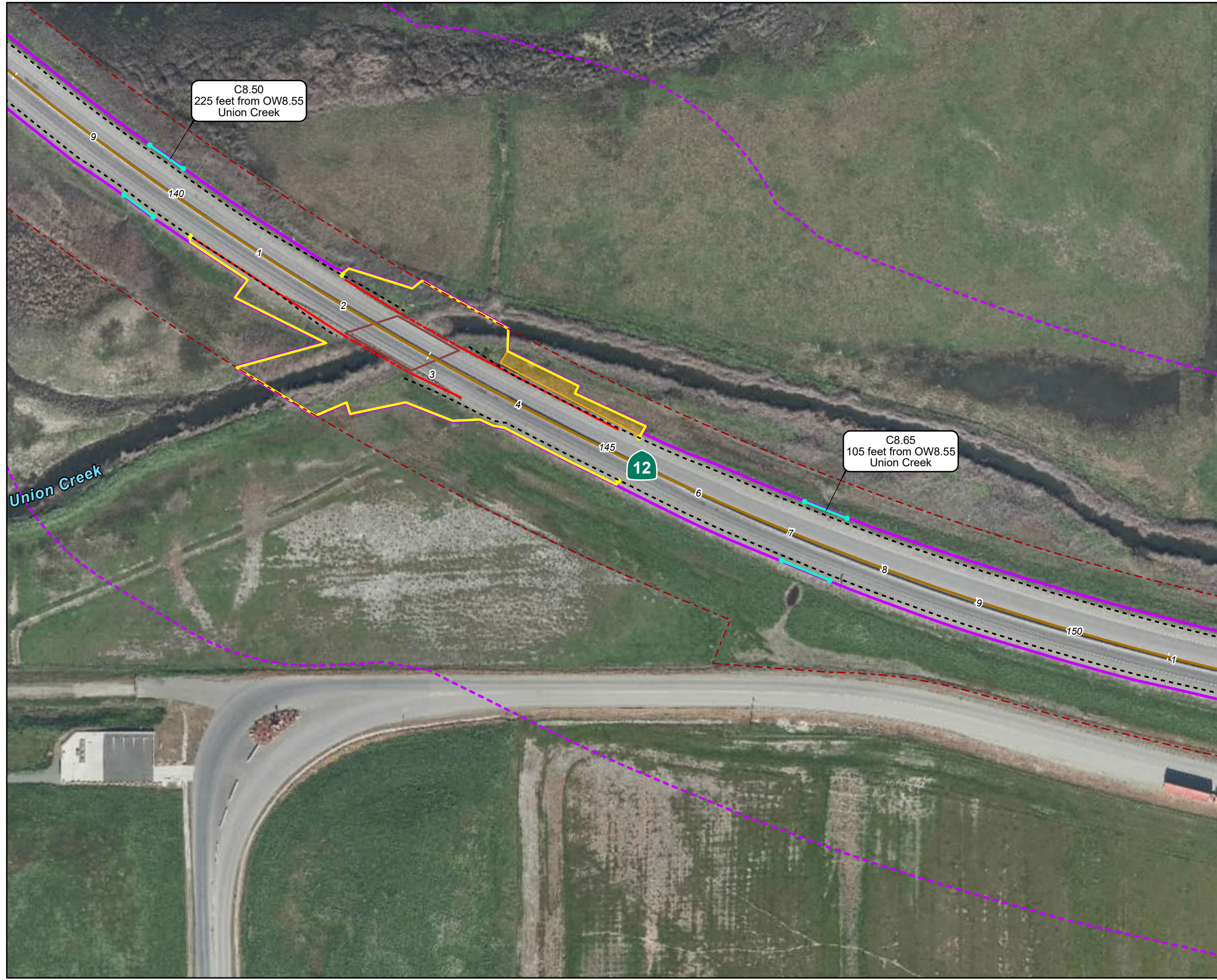
**Attachment 1**  
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 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



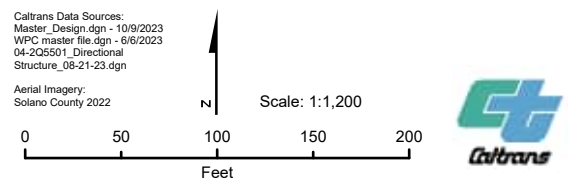
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Temporary Wildlife Exclusion Fencing
  - Replace Bridge Railing
  - Install MGS and Remove MBGR
  - Concrete Barrier
  - Existing Bridge
  - Staging Area
  - Culvert Replacement
  - 30" RCP



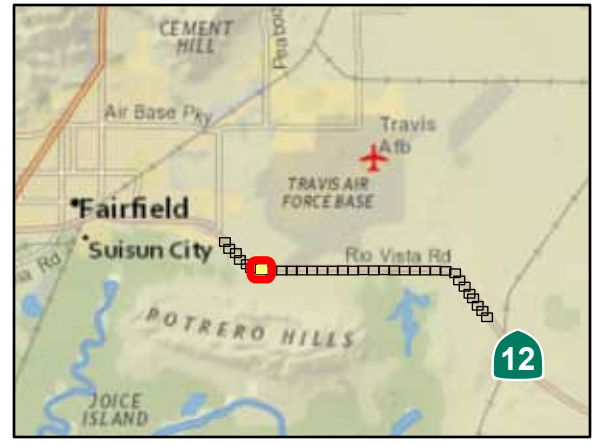
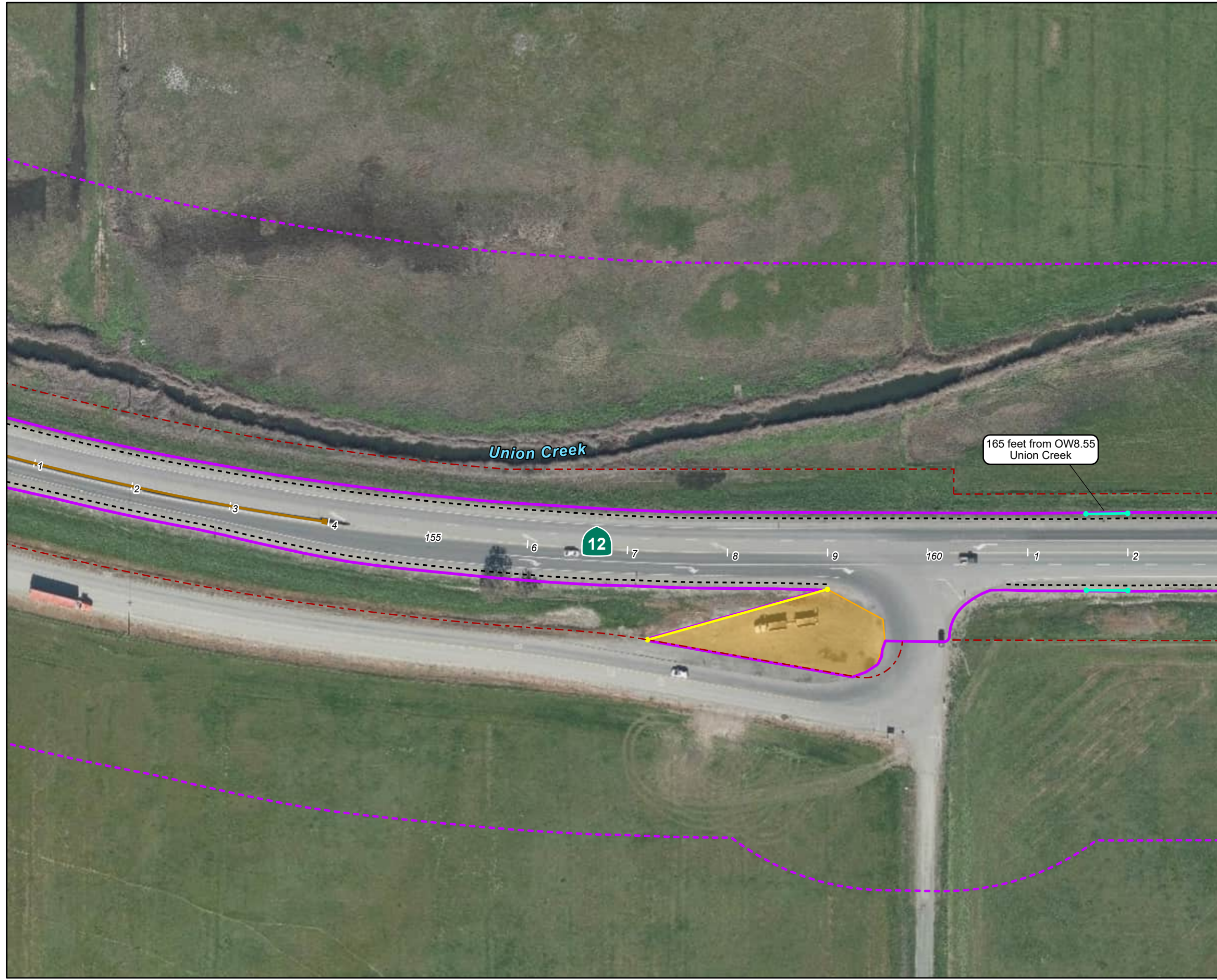
**Attachment 1**  
**Project Elements**  
**Map 5 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



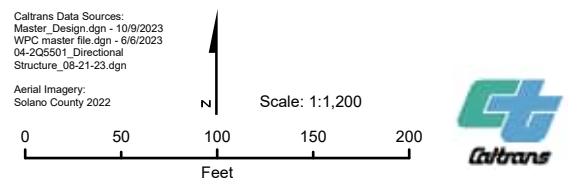
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  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
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  - Temporary Wildlife Exclusion Fencing
  - Replace Bridge Railing
  - Install MGS and Remove MBGR
  - Concrete Barrier
  - Existing Bridge
  - Staging Area



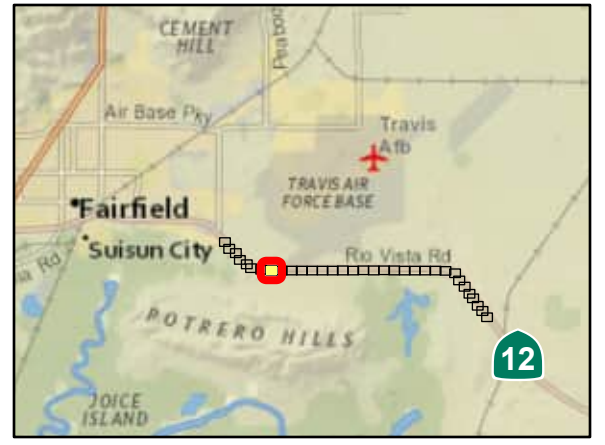
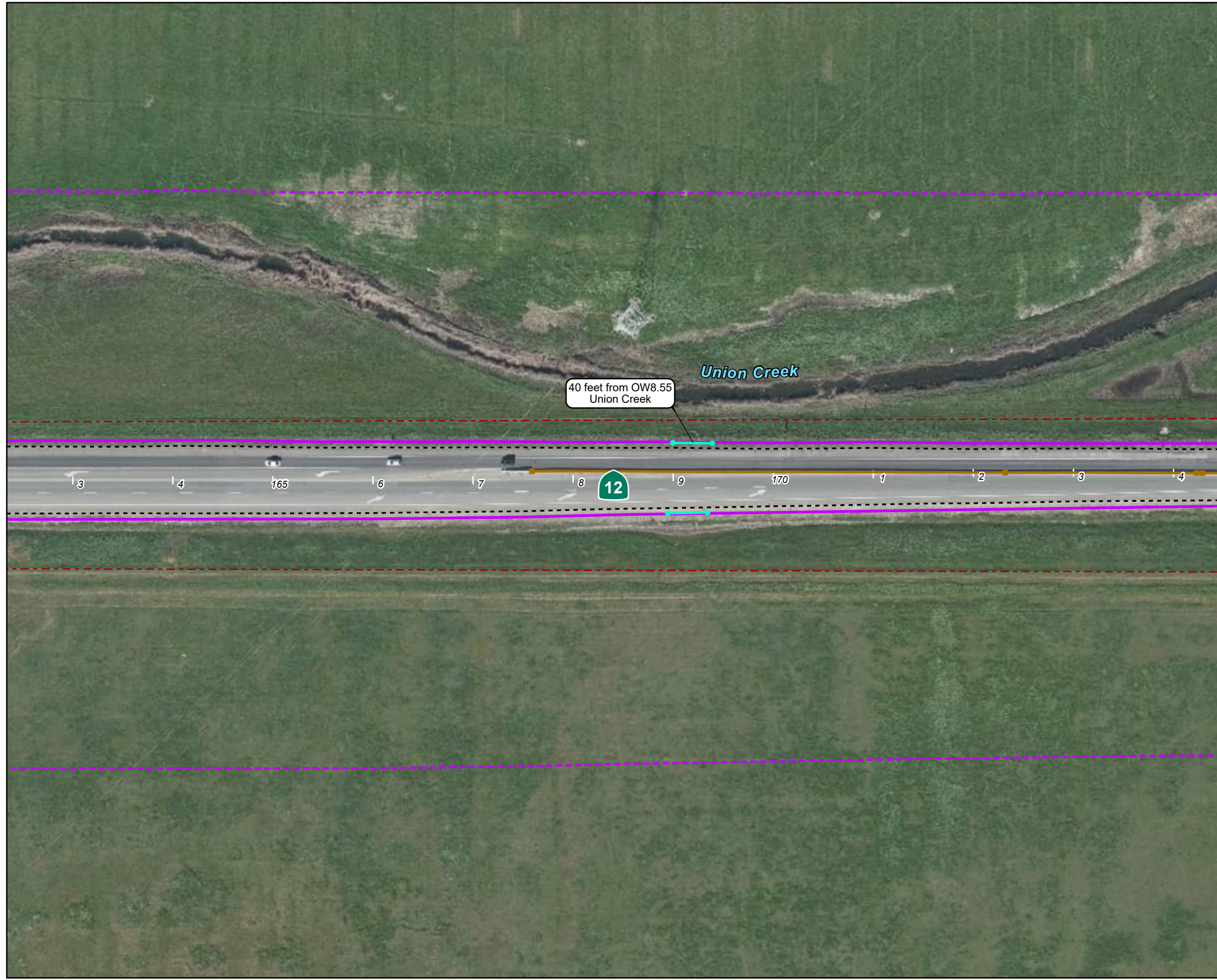
**Attachment 1**  
**Project Elements**  
**Map 6 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
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  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
  - Staging Area



**Attachment 1**  
**Project Elements**  
**Map 7 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
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  - Temporary High Visibility Fencing
  - Concrete Barrier

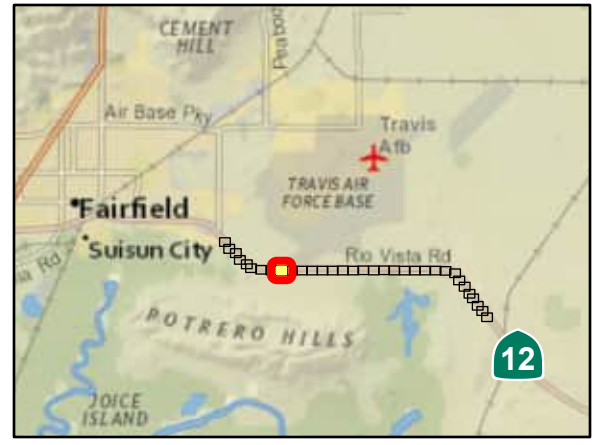
Caltrans Data Sources:  
 Master\_Design.dgn - 10/9/2023  
 WPC\_master\_file.dgn - 6/6/2023  
 04-2Q5501\_Directional  
 Structure\_08-21-23.dgn

Aerial Imagery:  
 Solano County 2022

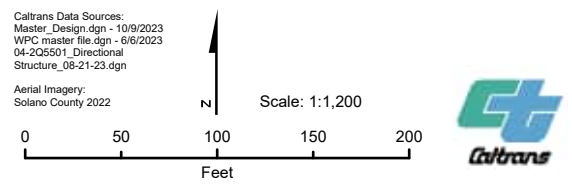
Scale: 1:1,200

0 50 100 150 200  
 Feet

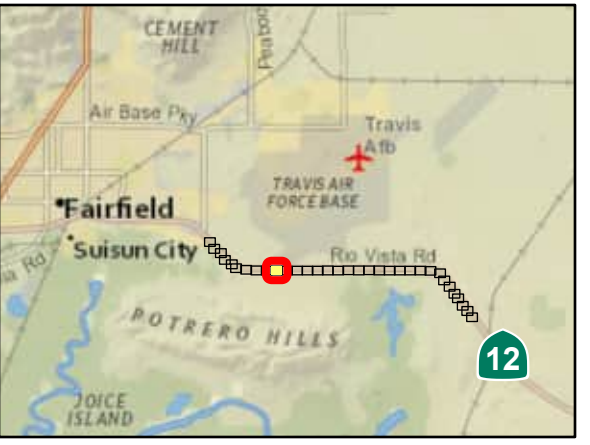
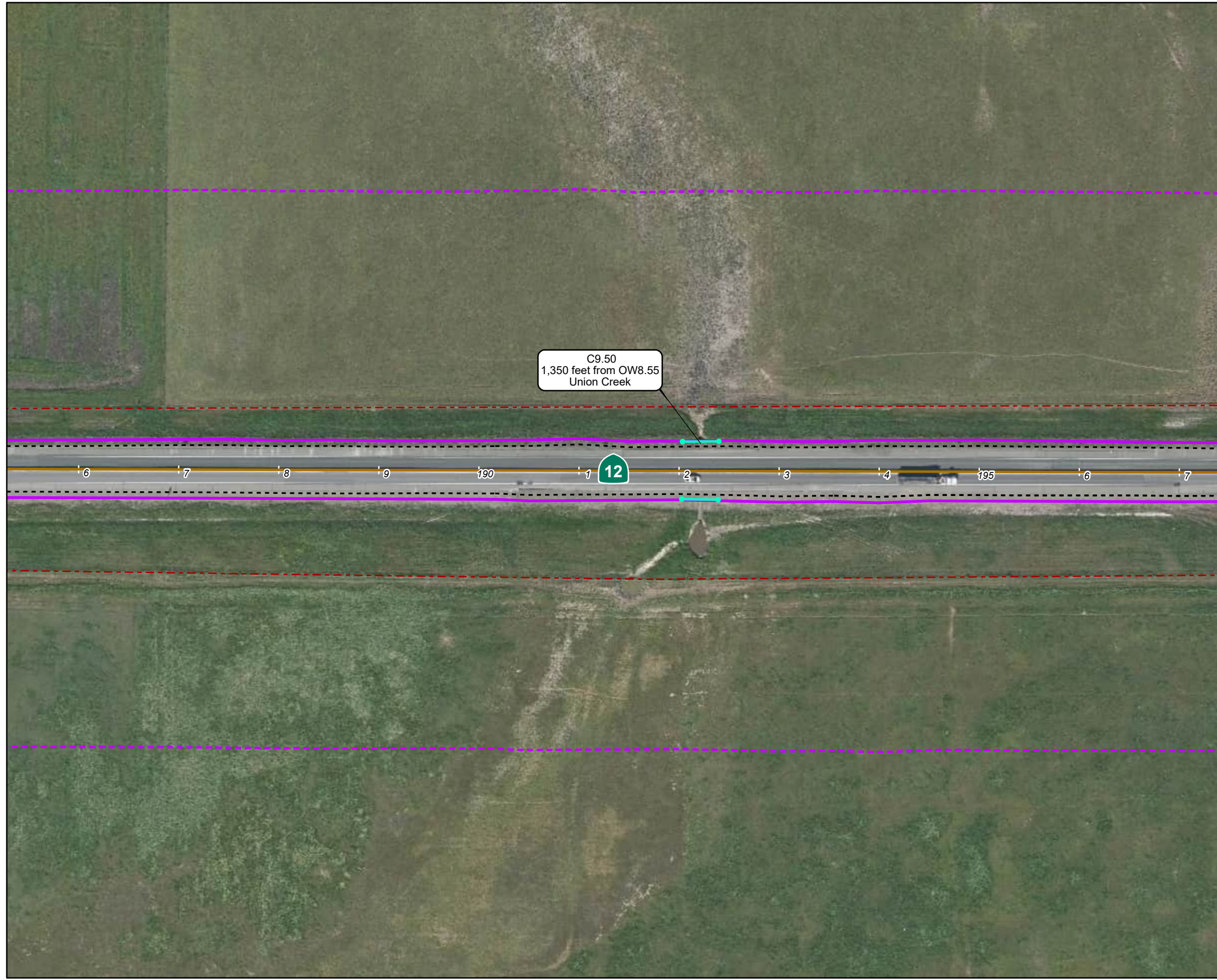
**Attachment 1**  
**Project Elements**  
**Map 8 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



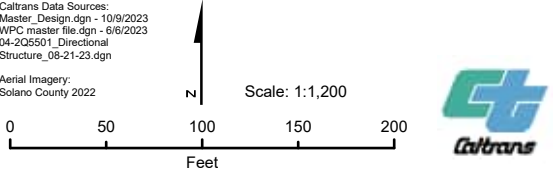
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Concrete Barrier



**Attachment 1**  
**Project Elements**  
**Map 9 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

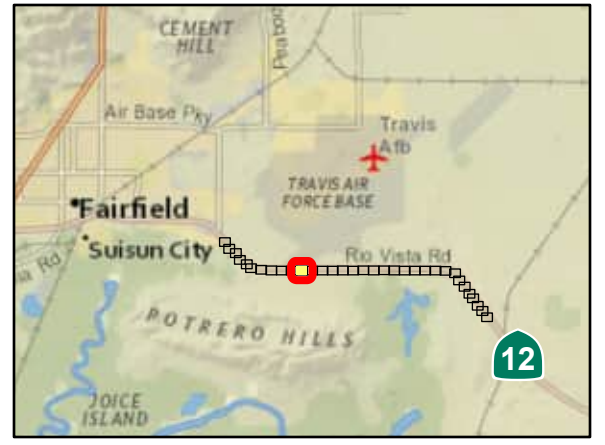
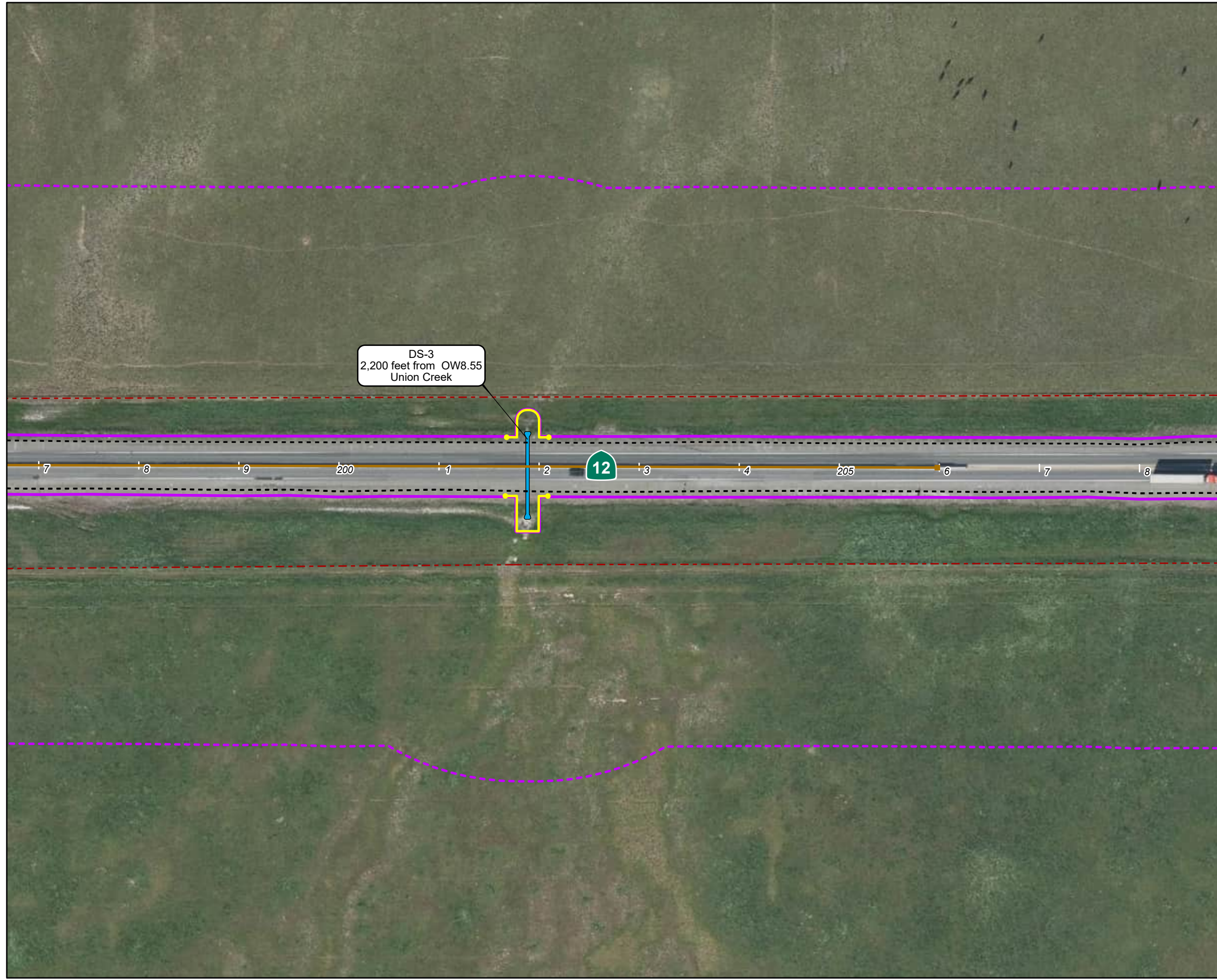


- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Concrete Barrier

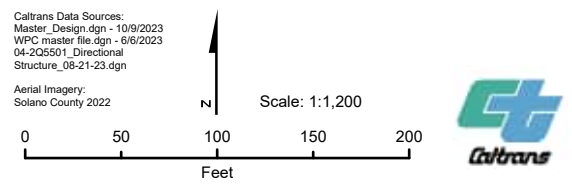


**Attachment 1**  
**Project Elements**  
**Map 10 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

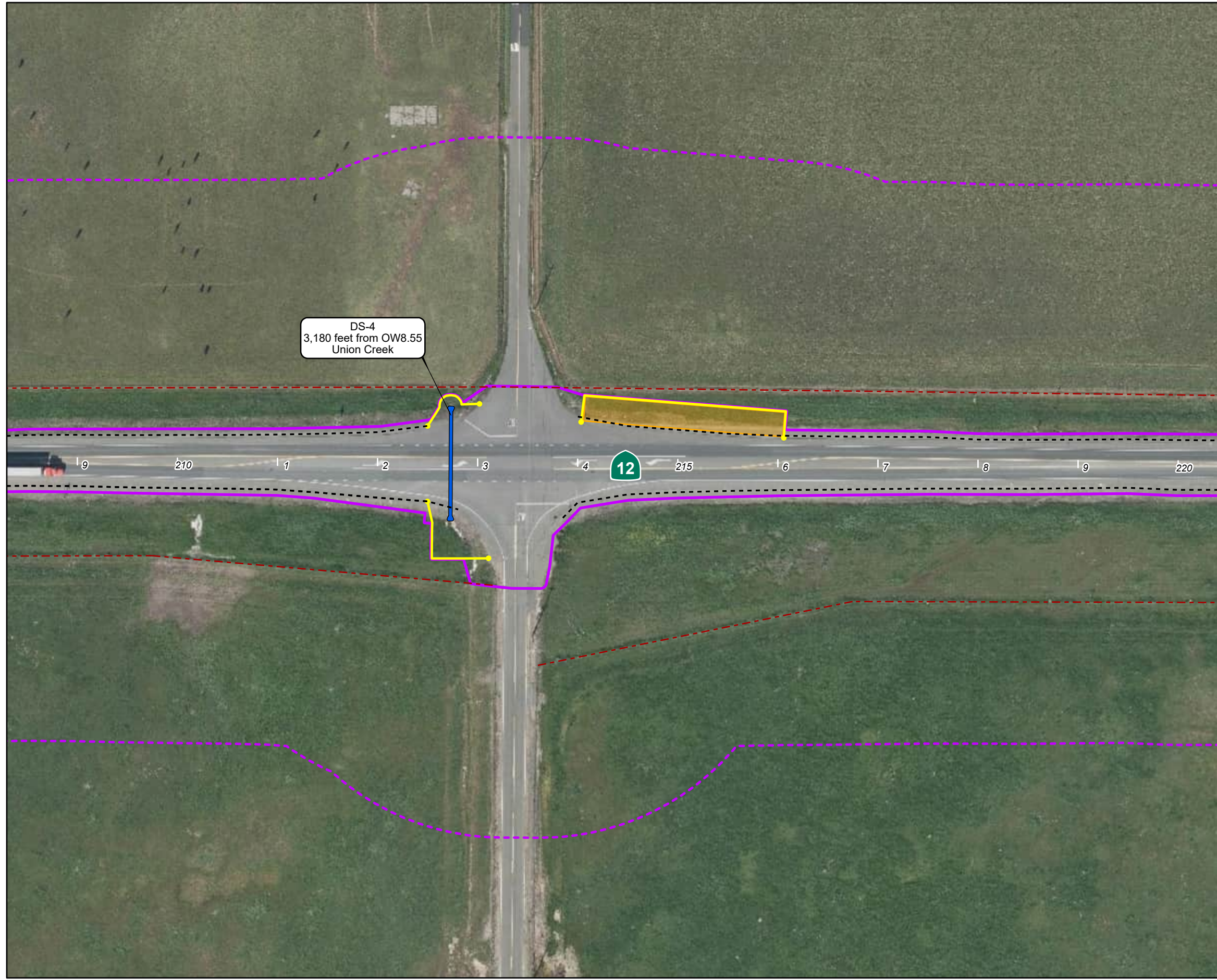




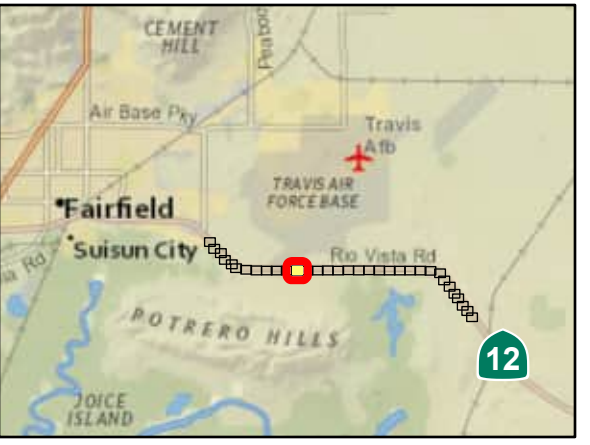
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
  - Culvert Replacement
  - 36" RCP



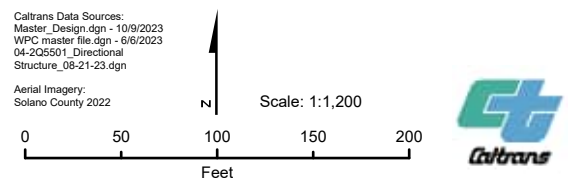
**Attachment 1**  
**Project Elements**  
**Map 11 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



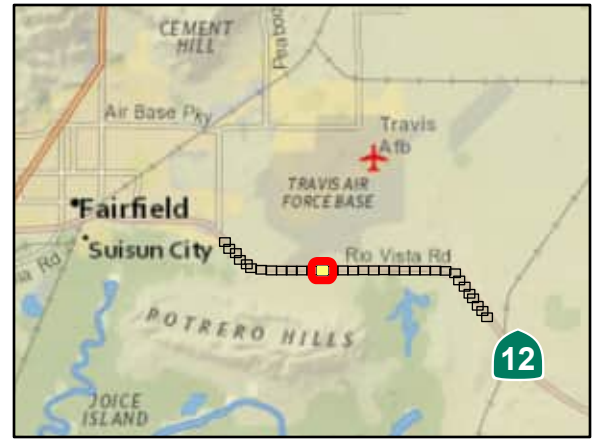
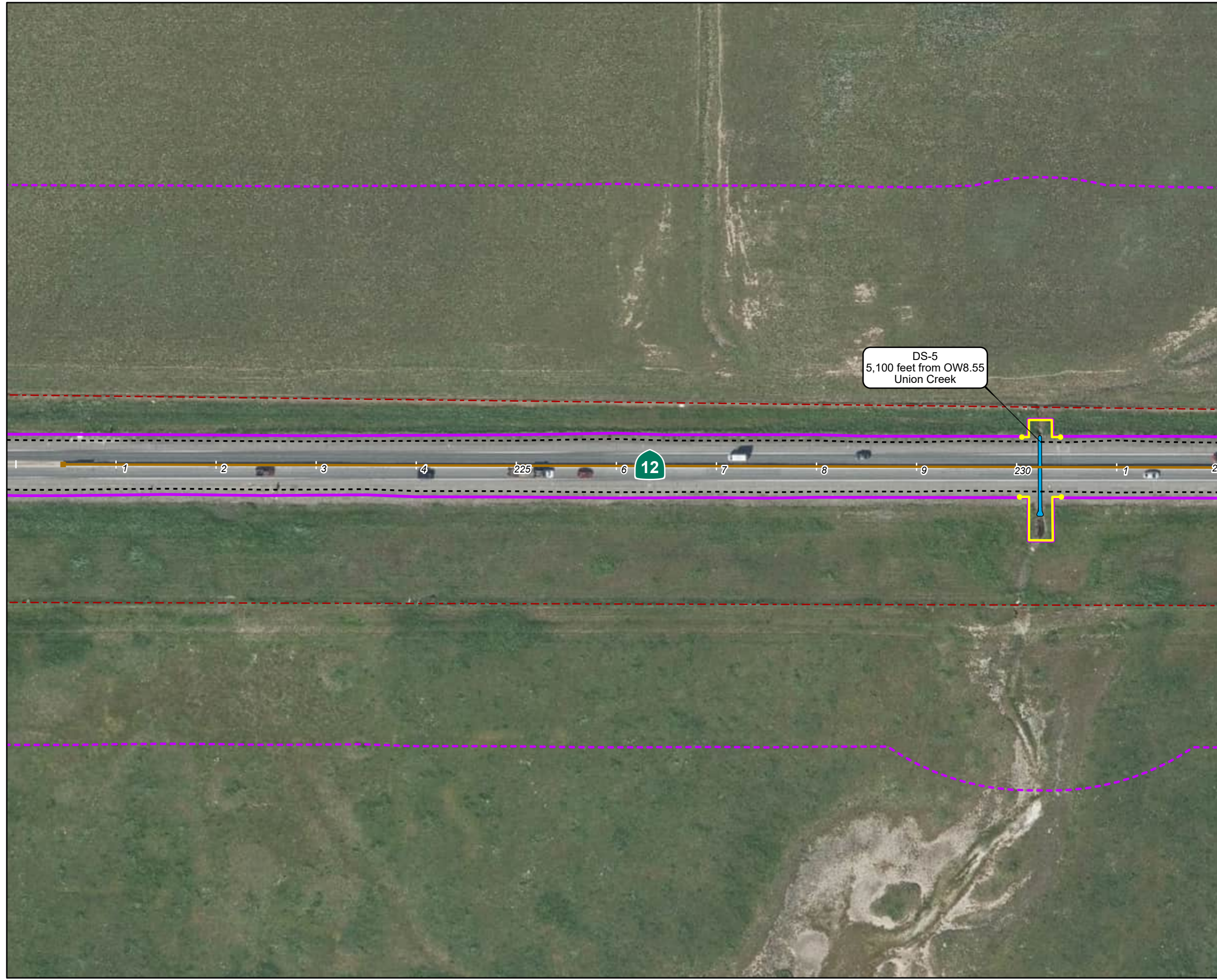
DS-4  
3,180 feet from OW8.55  
Union Creek



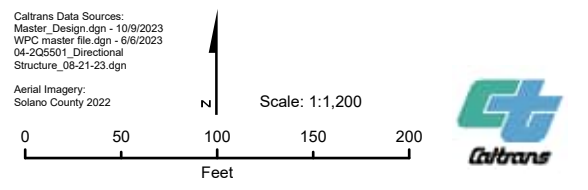
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary Wildlife Exclusion Fencing
  - Staging Area
  - Culvert Replacement
  - 48" RCP



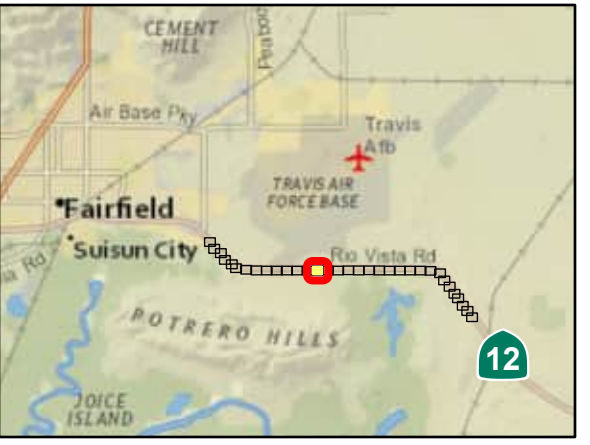
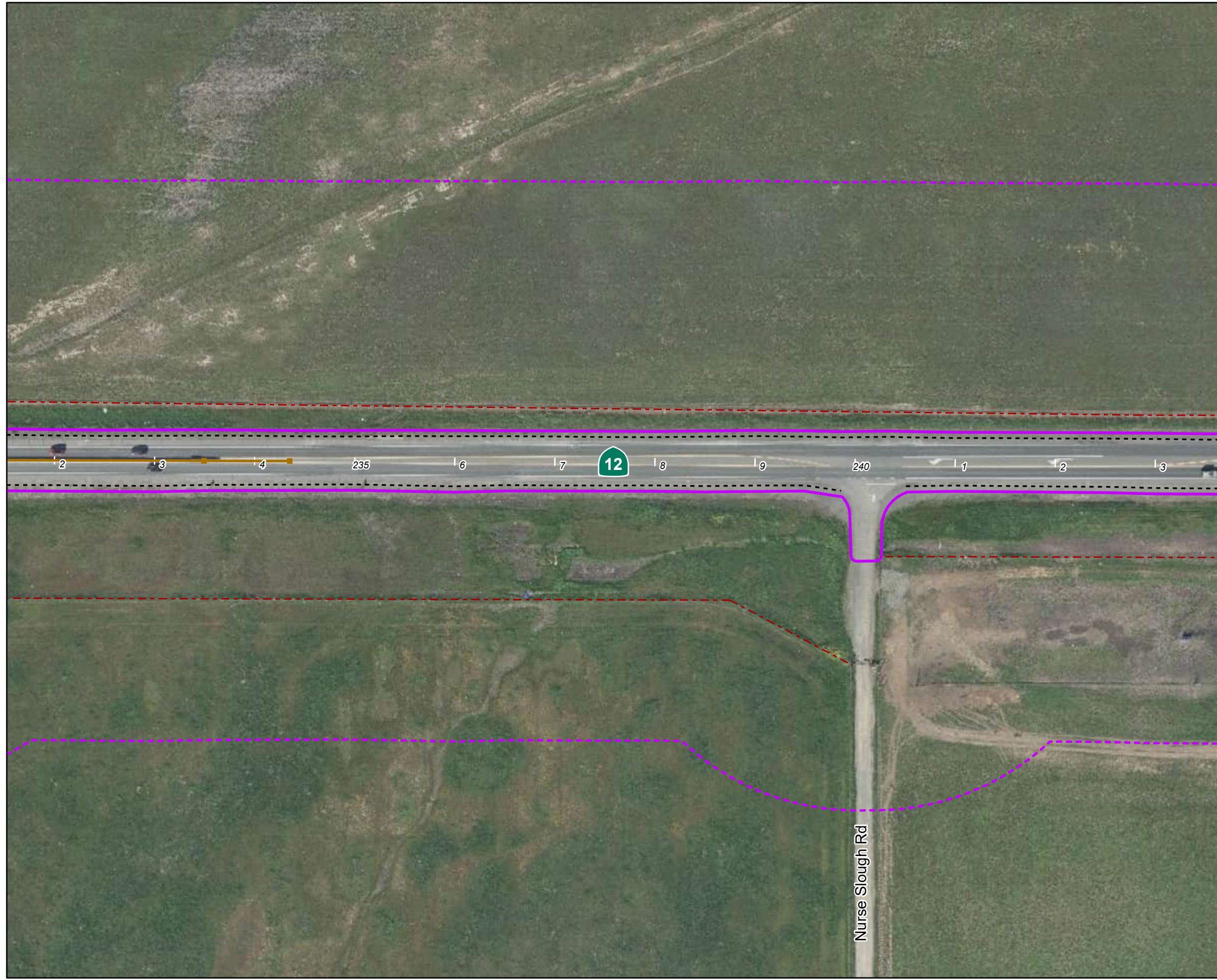
**Attachment 1**  
**Project Elements**  
**Map 12 of 33**  
State Route 12  
Major Pavement Rehabilitation Project  
EA 04-2Q550, SOL-12-PM 7.7/14.1  
Solano County, California



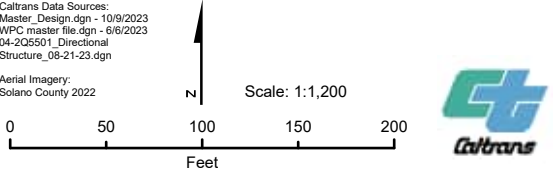
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
  - Culvert Replacement
  - 36" RCP



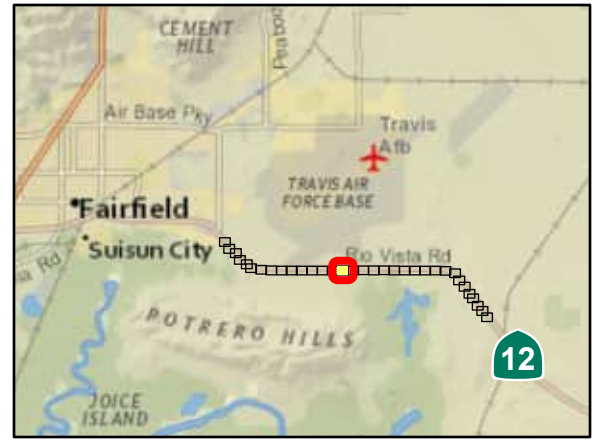
**Attachment 1**  
**Project Elements**  
**Map 13 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



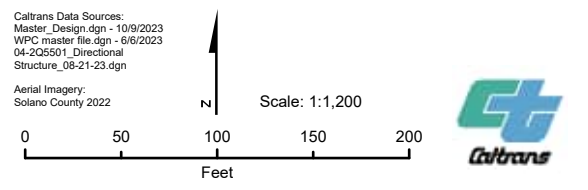
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Concrete Barrier



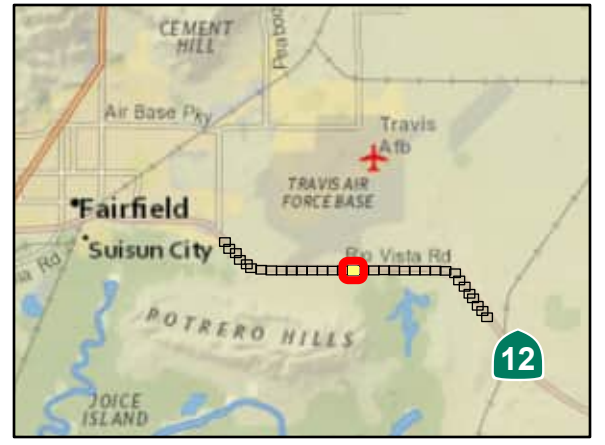
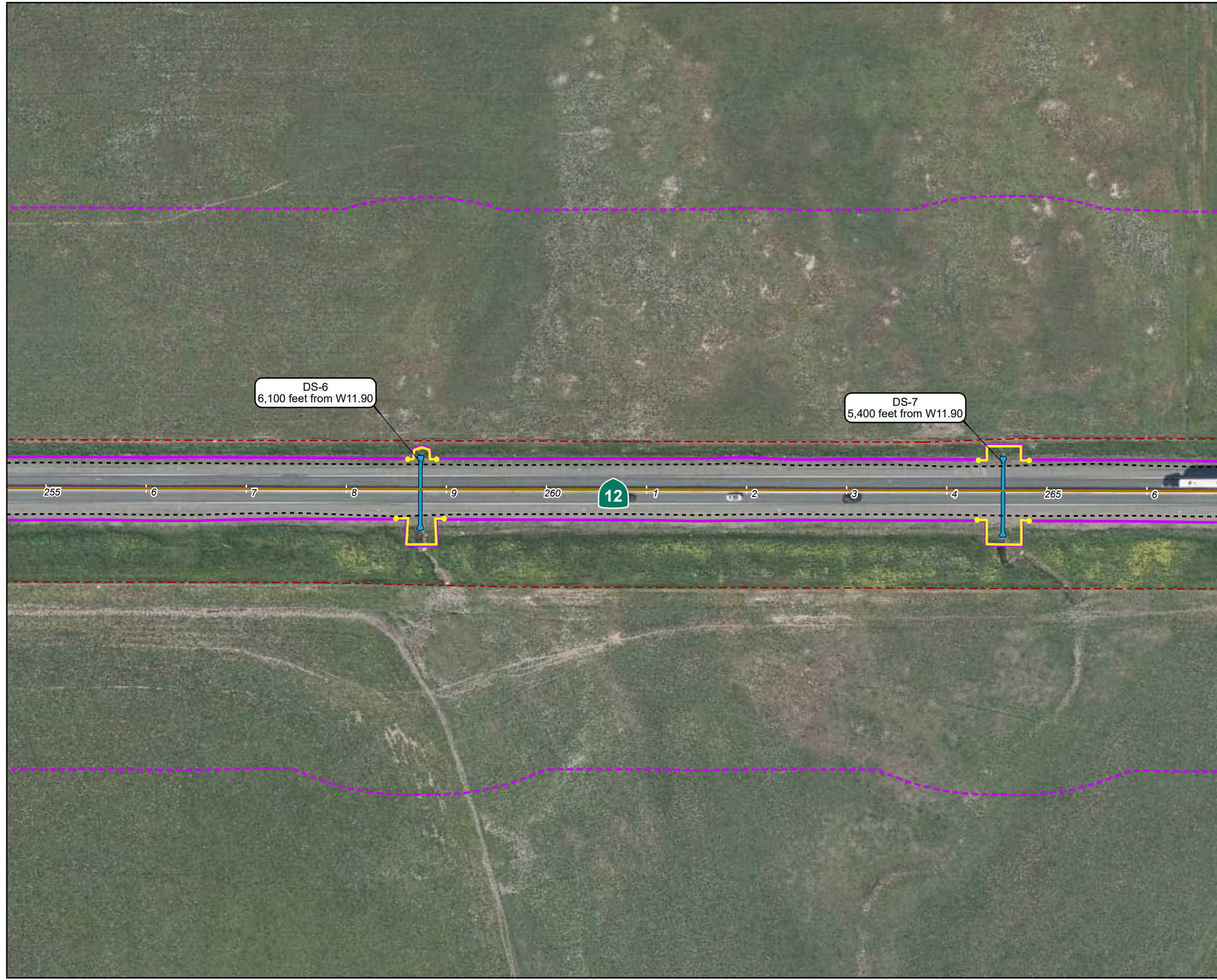
**Attachment 1**  
**Project Elements**  
**Map 14 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



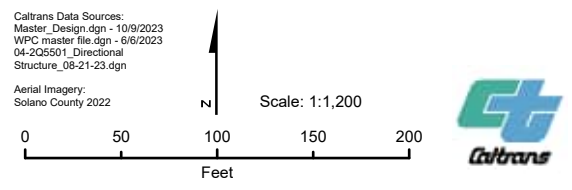
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Concrete Barrier



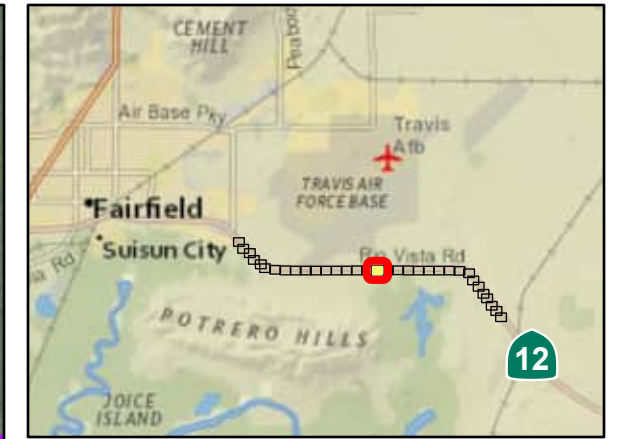
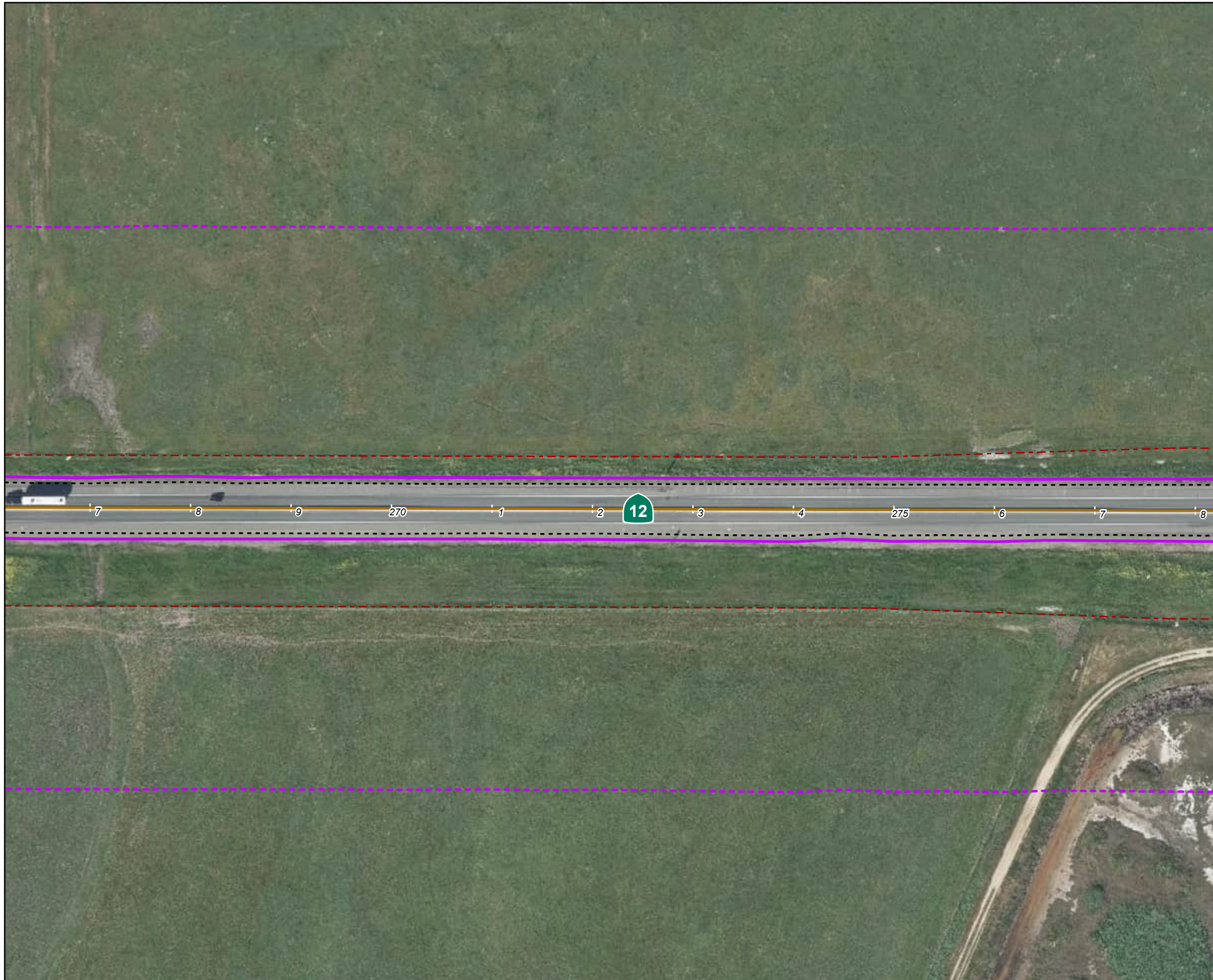
**Attachment 1**  
**Project Elements**  
**Map 15 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California








- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
  - Culvert Replacement
  - 36" RCP



**Attachment 1**  
**Project Elements**  
**Map 16 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

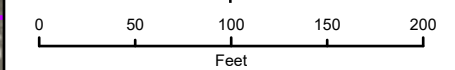


**Legend**

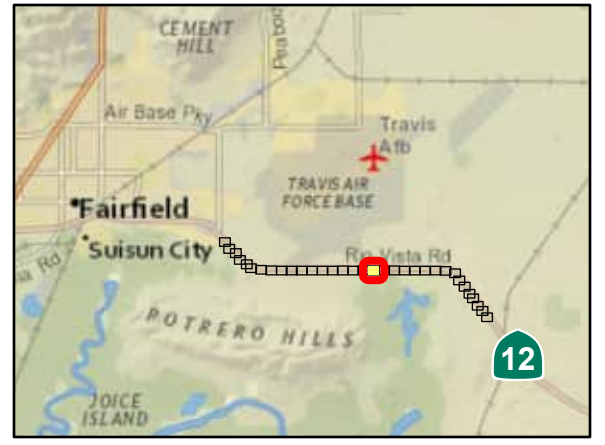
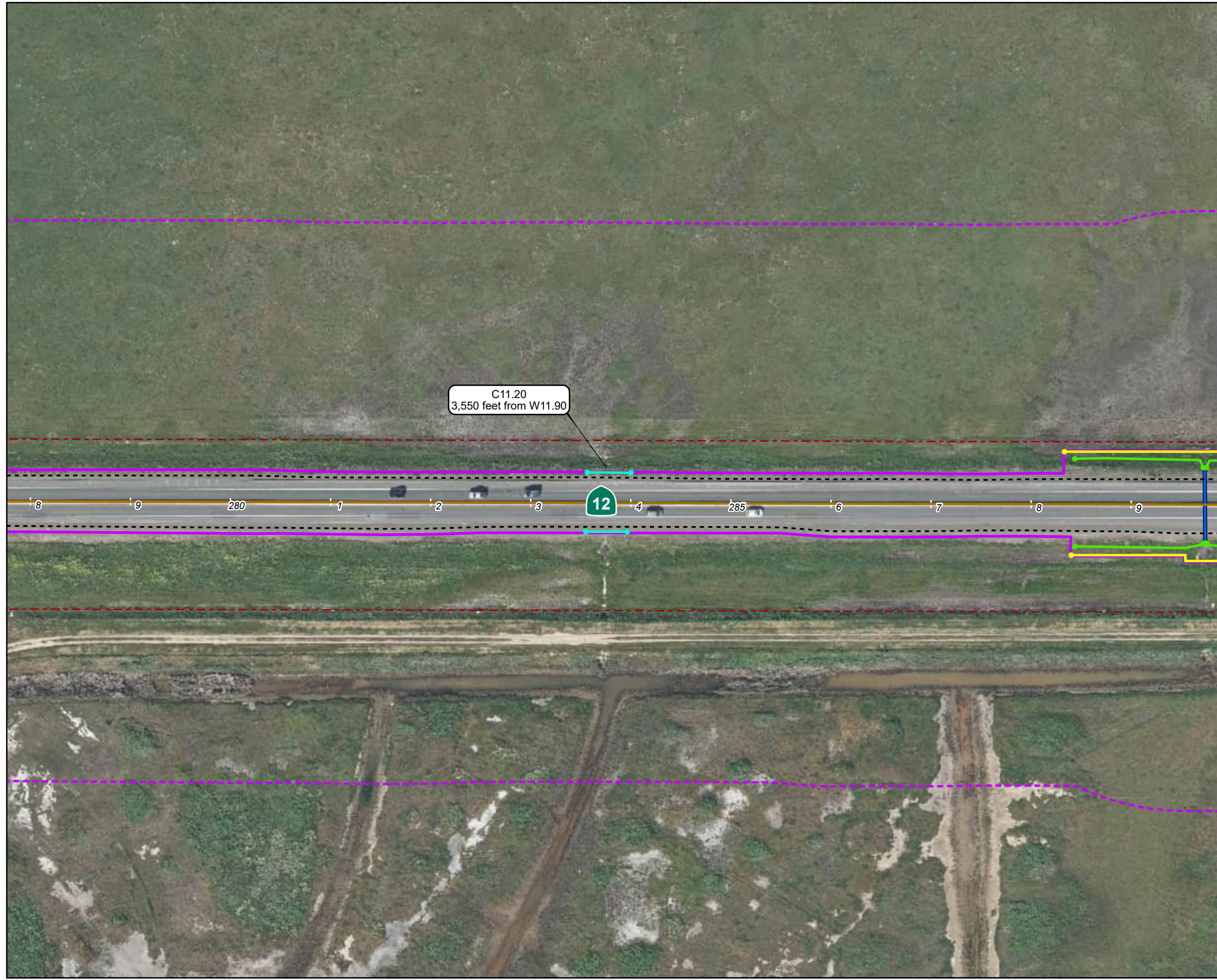
-  Project Footprint (52.83 acres)
-  Action Area (453 acres)
-  Existing Caltrans ROW
-  Cut/Fill Limits
-  Concrete Barrier

Caltrans Data Sources:  
Master\_Design.dgn - 10/9/2023  
WPC\_master\_file.dgn - 6/6/2023  
04-2Q5501\_Directional  
Structure\_08-21-23.dgn

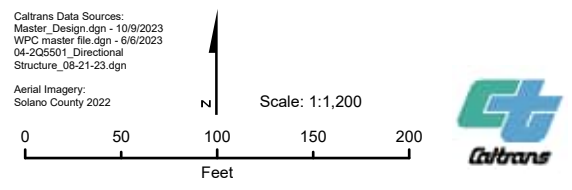
Aerial Imagery:  
Solano County 2022



**Attachment 1**  
**Project Elements**  
**Map 17 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

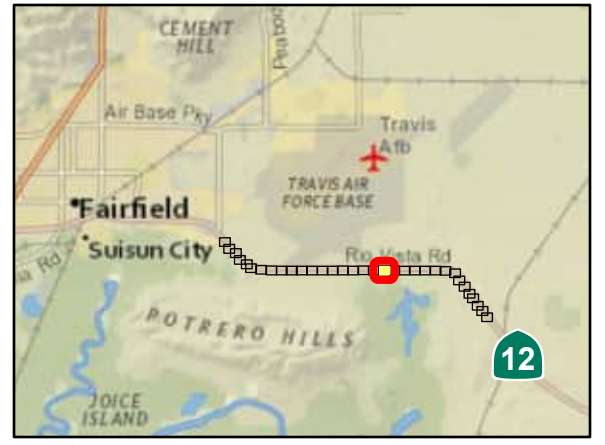
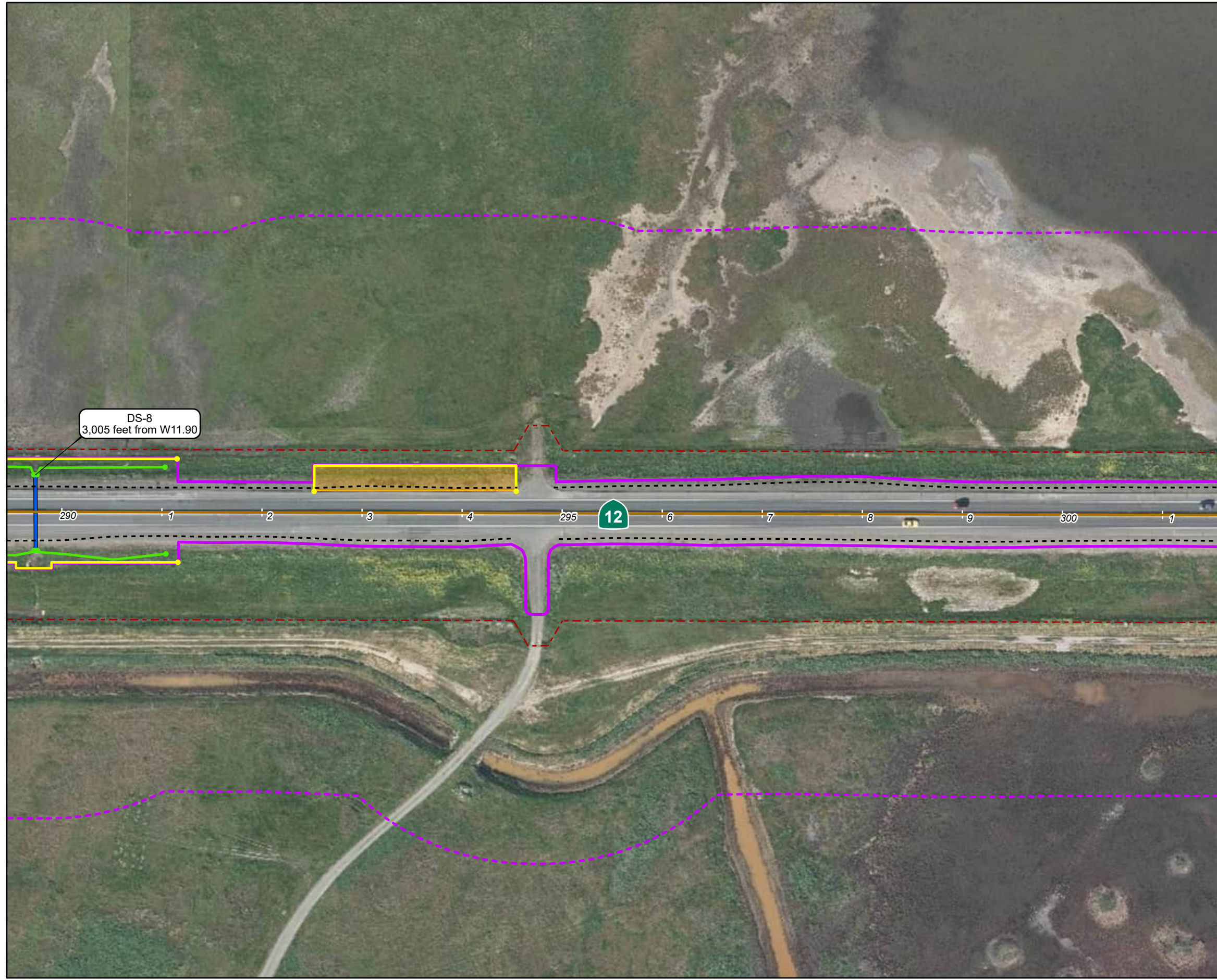


- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Wildlife Directional Curbs
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
- Culvert Replacement**
- 48" RCP

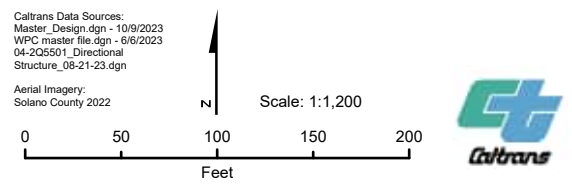


**Attachment 1**  
**Project Elements**  
**Map 18 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

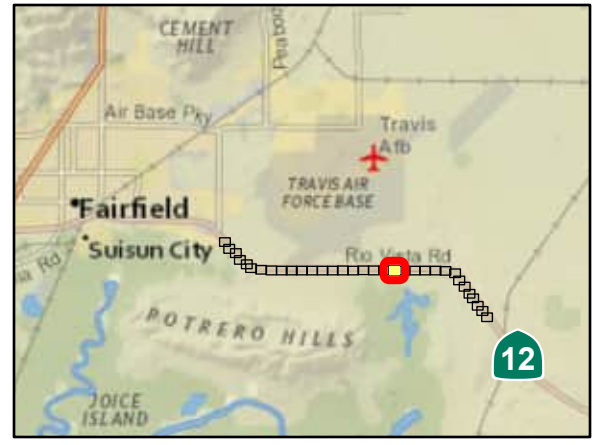




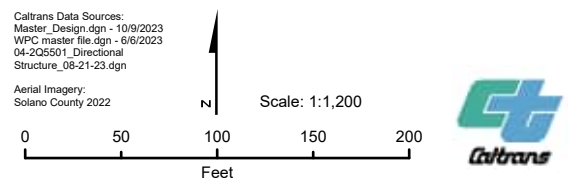
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Wildlife Directional Curbs
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
  - Staging Area
- Culvert Replacement
- 48" RCP



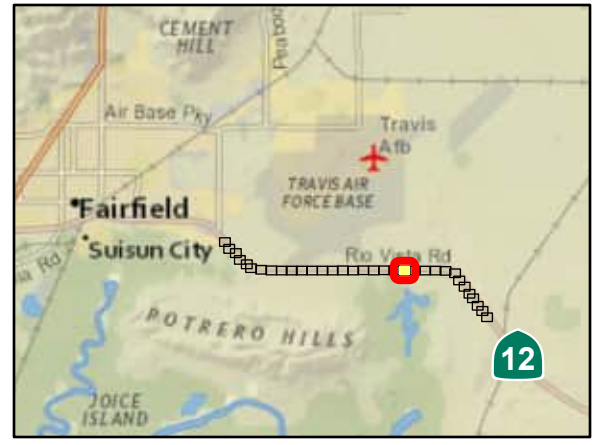
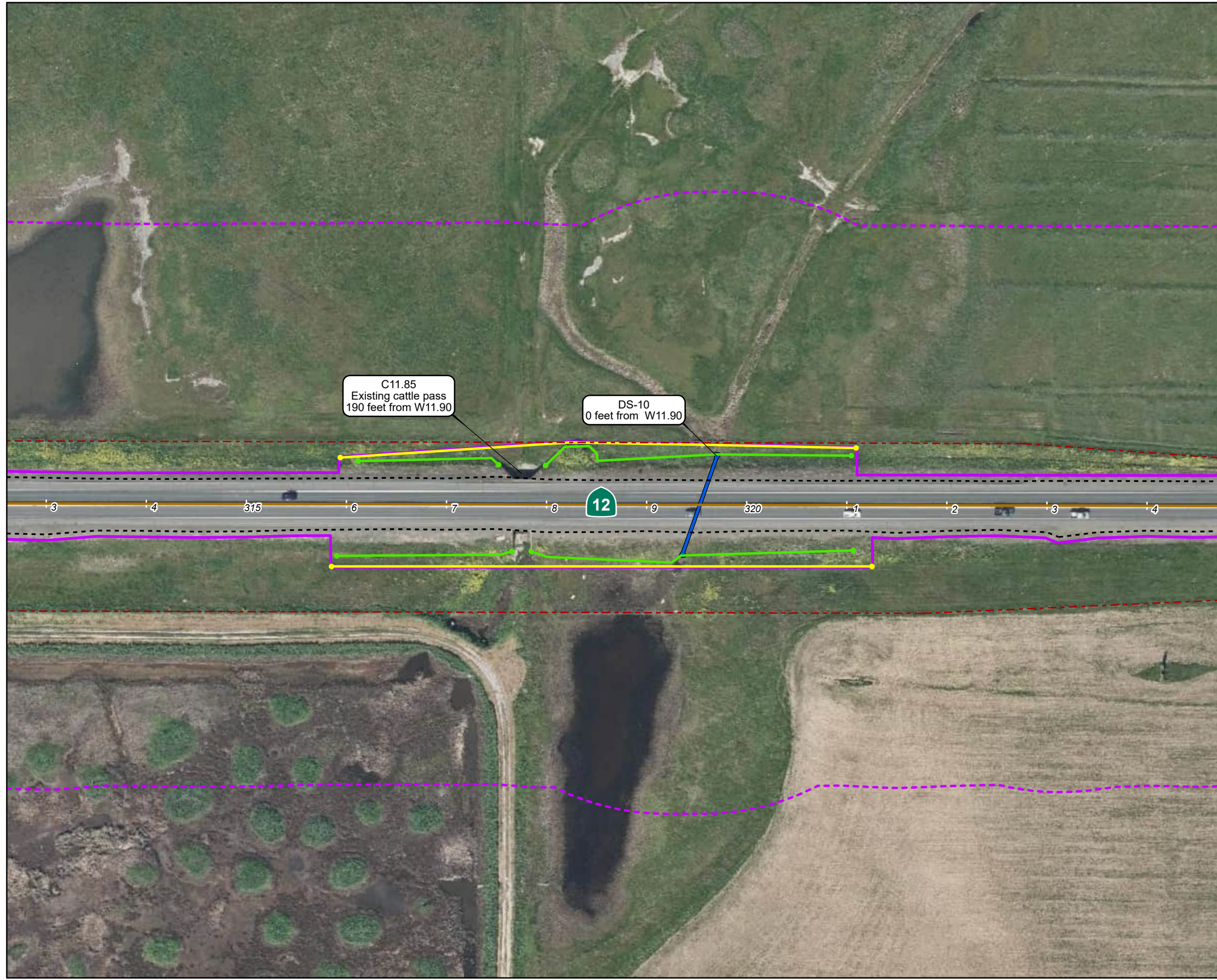
**Attachment 1**  
**Project Elements**  
**Map 19 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



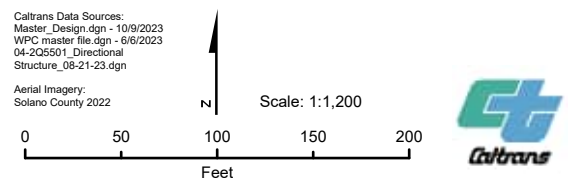
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Wildlife Directional Curbs
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
- Culvert Replacement**
- 48" RCP



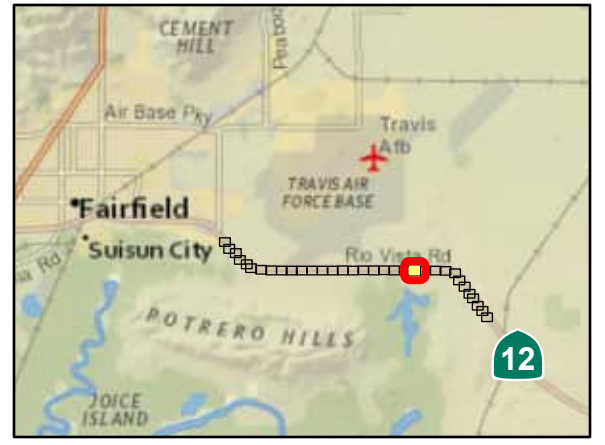
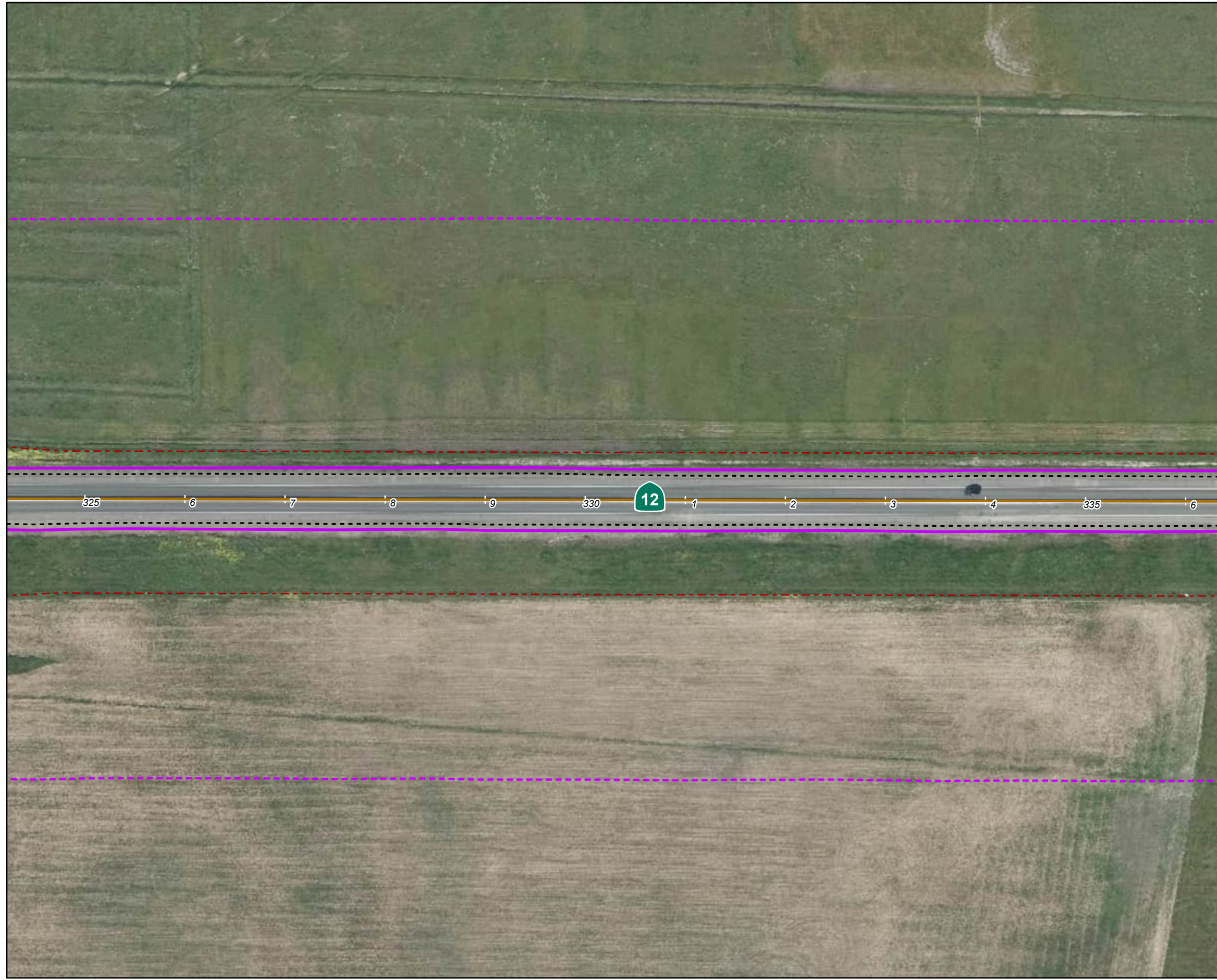
**Attachment 1**  
**Project Elements**  
**Map 20 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



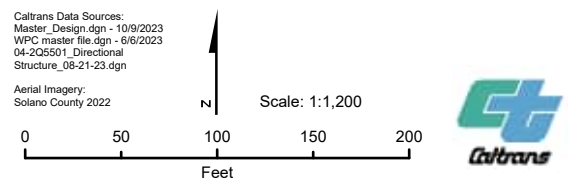
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Wildlife Directional Curbs
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
  - Culvert Replacement
  - 48" RCP



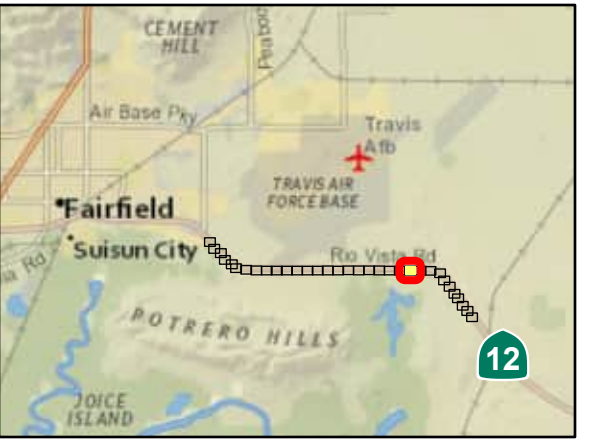
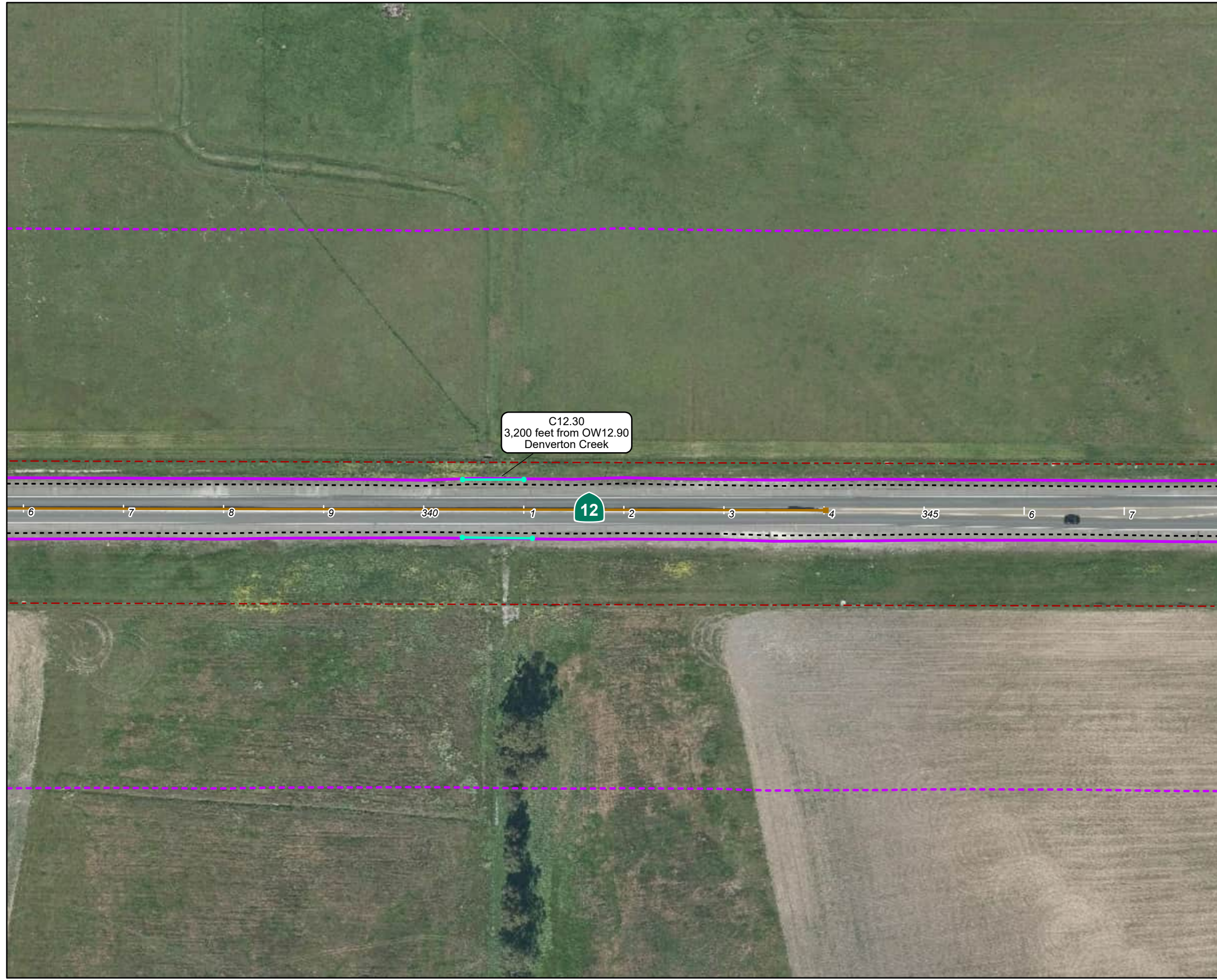
**Attachment 1**  
**Project Elements**  
**Map 21 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



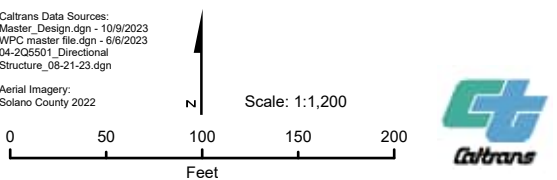
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Concrete Barrier



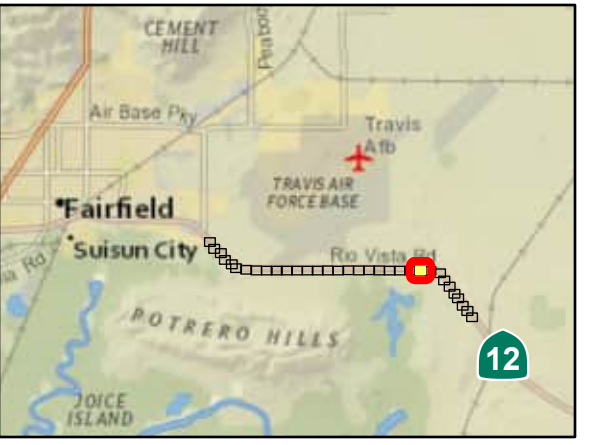
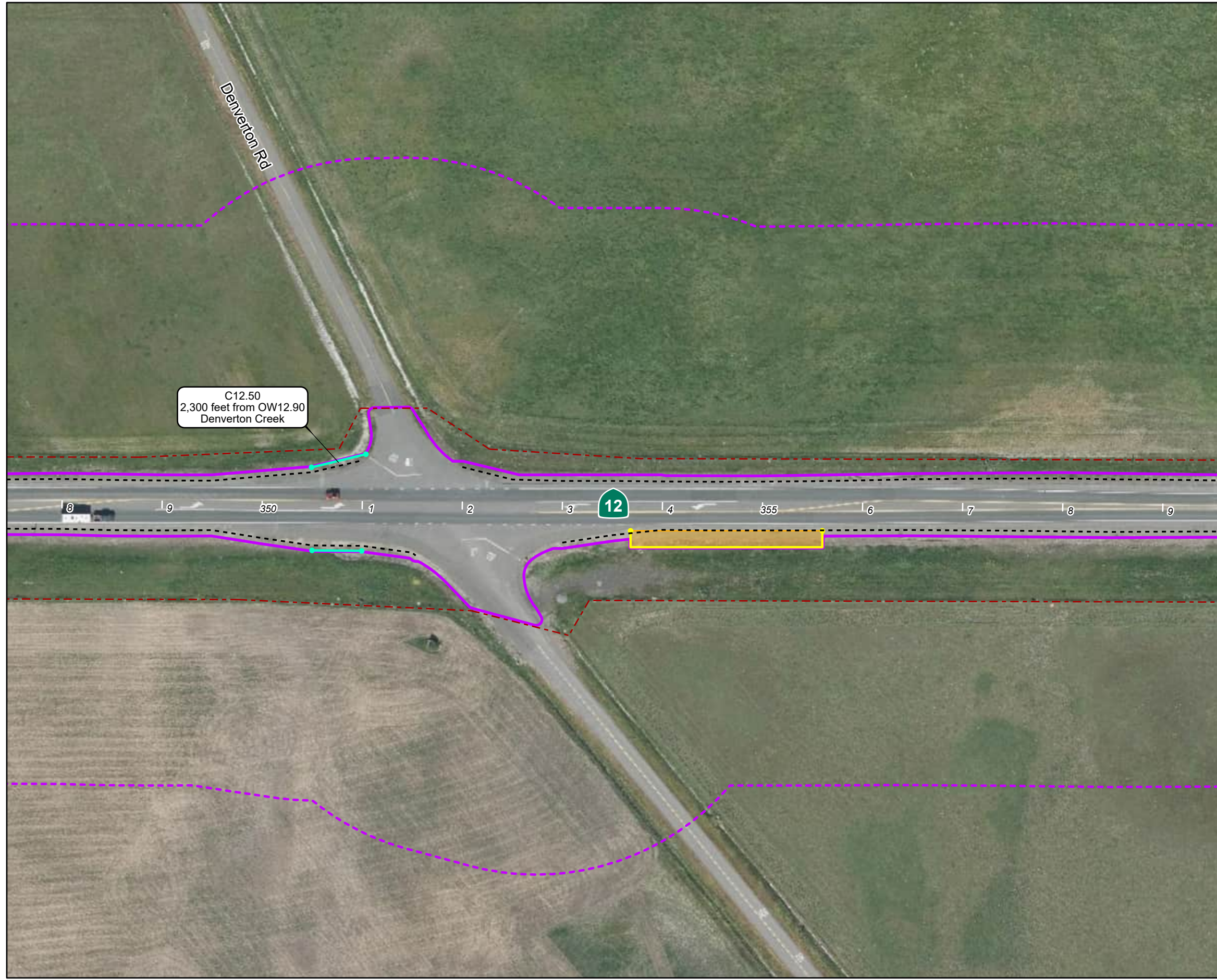
**Attachment 1**  
**Project Elements**  
**Map 22 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Concrete Barrier

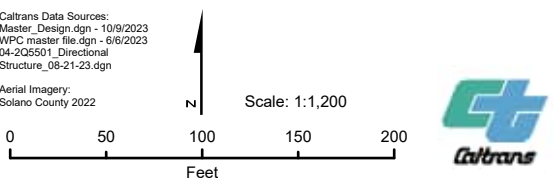


**Attachment 1**  
**Project Elements**  
**Map 23 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

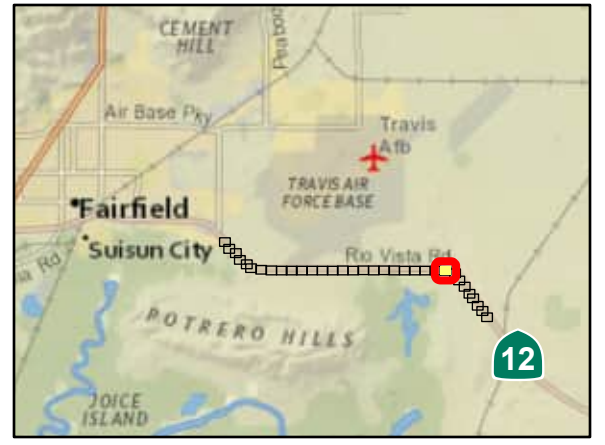


- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Temporary Wildlife Exclusion Fencing
  - Staging Area

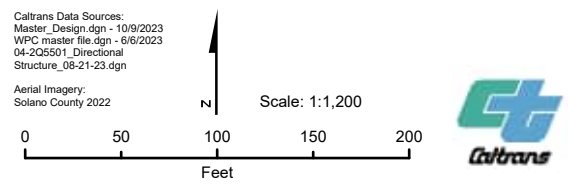
C12.50  
2,300 feet from OW12.90  
Denverton Creek



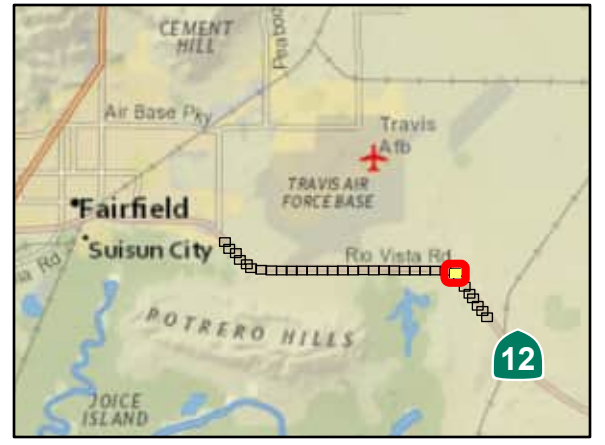
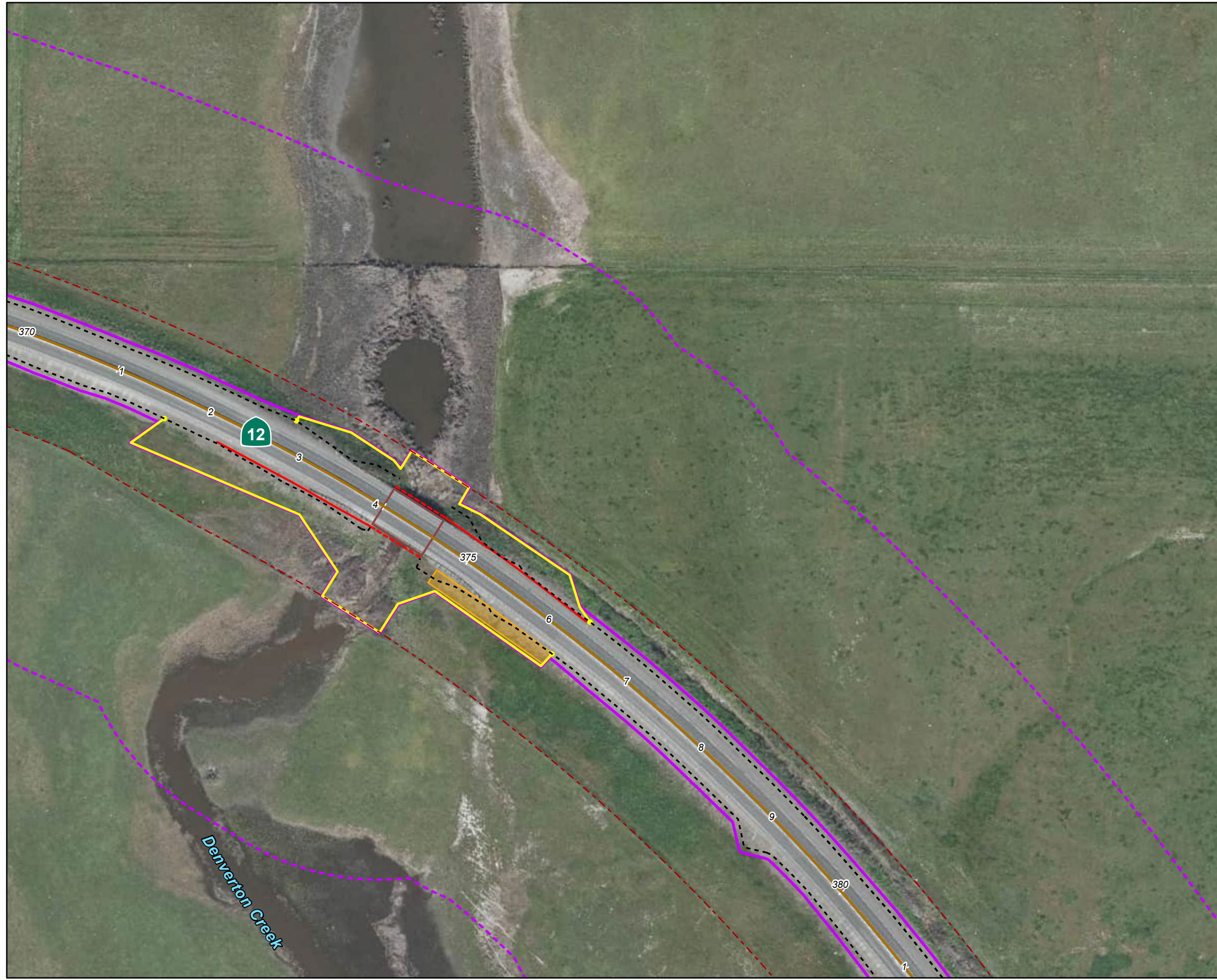
**Attachment 1**  
**Project Elements**  
**Map 24 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



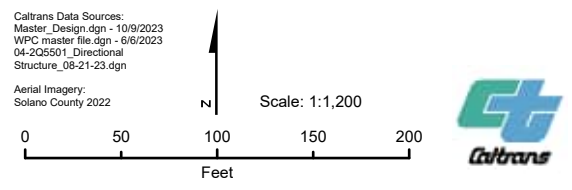
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Concrete Barrier



**Attachment 1**  
**Project Elements**  
**Map 25 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

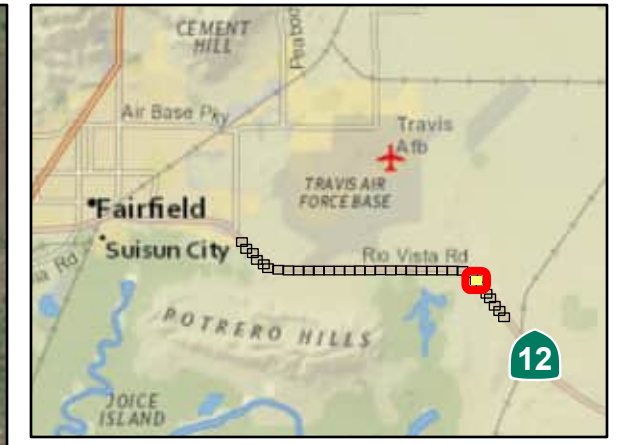
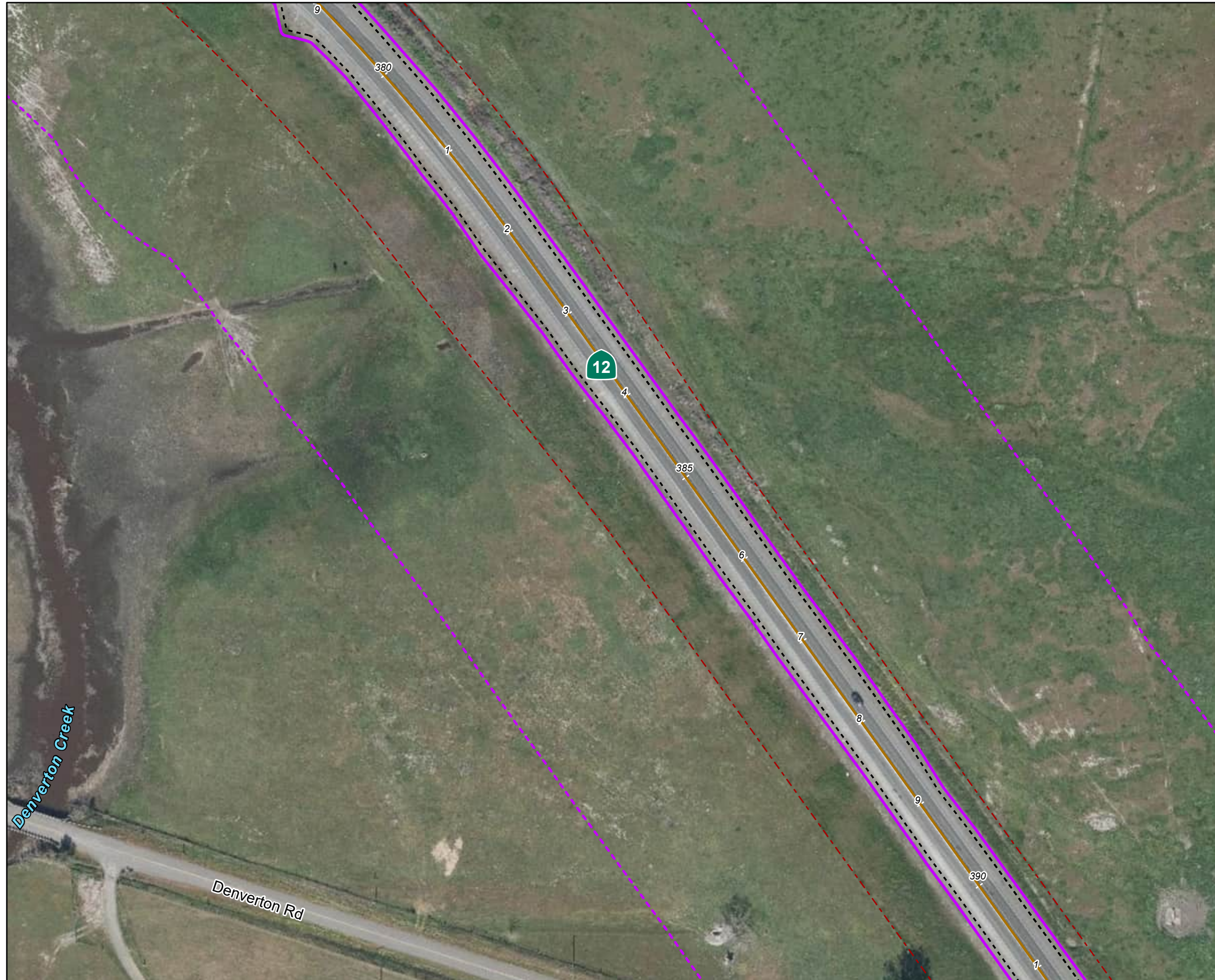


- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary Wildlife Exclusion Fencing
  - Replace Bridge Railing
  - Install MGS and Remove MBGR
  - Concrete Barrier
  - Existing Bridge
  - Staging Area

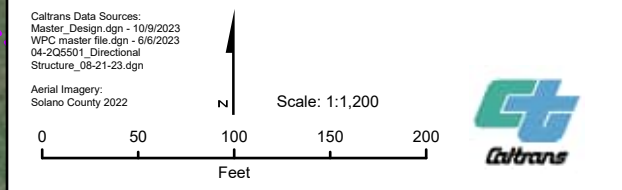


**Attachment 1**  
**Project Elements**  
**Map 26 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

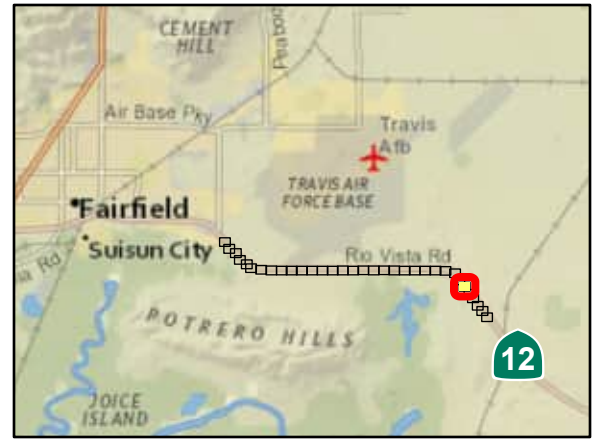
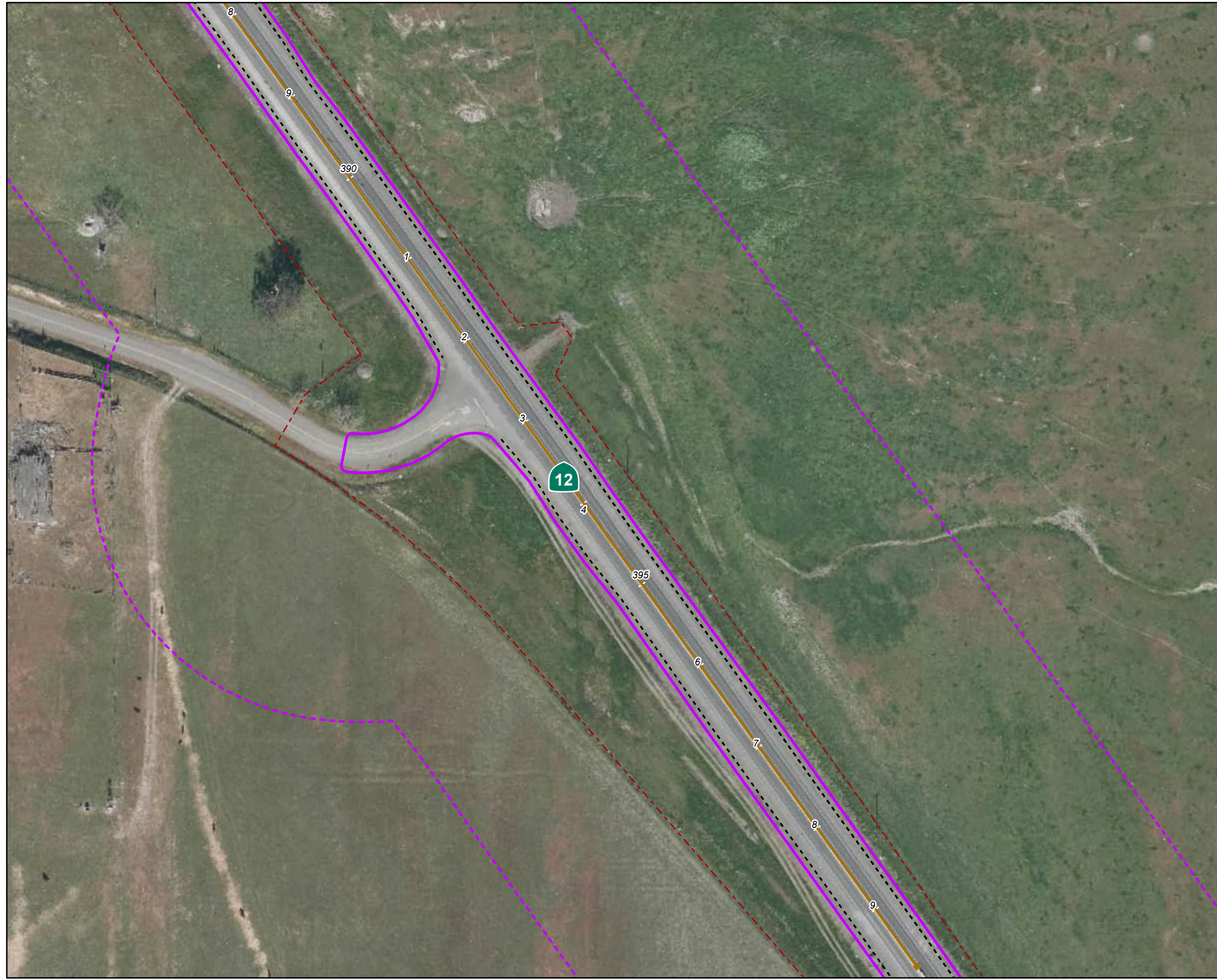




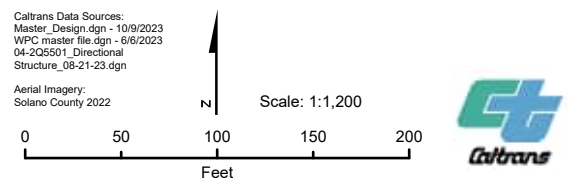
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Concrete Barrier



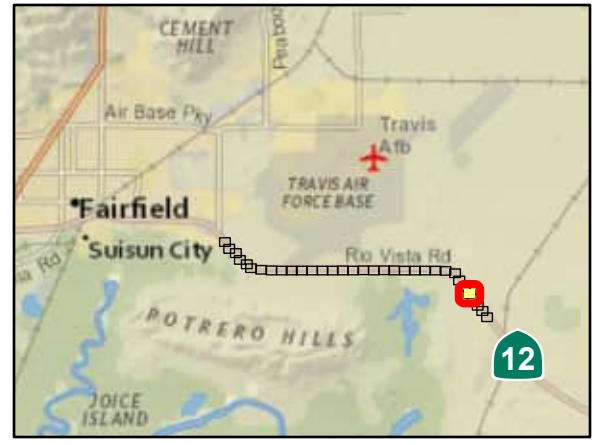
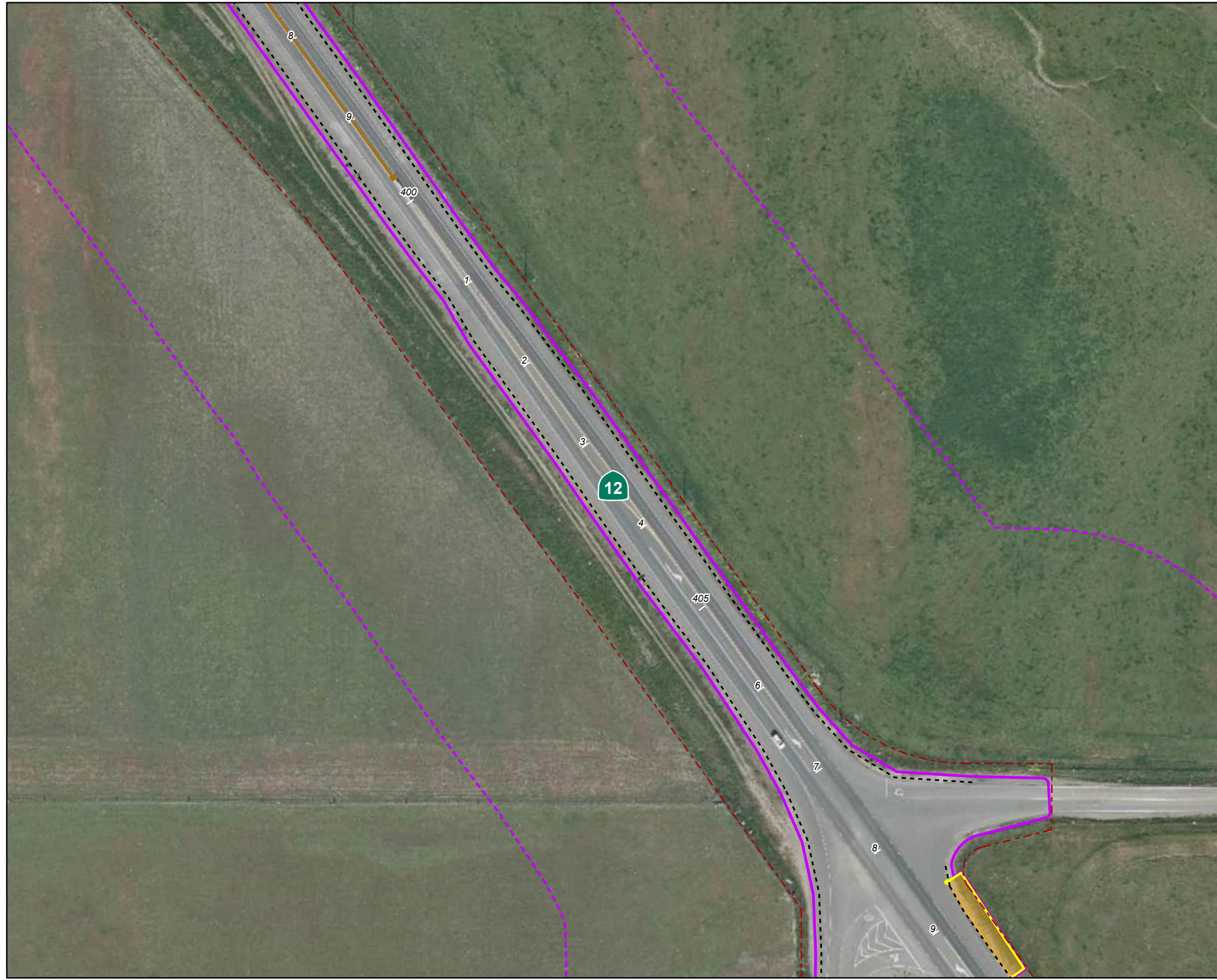
**Attachment 1**  
**Project Elements**  
**Map 27 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



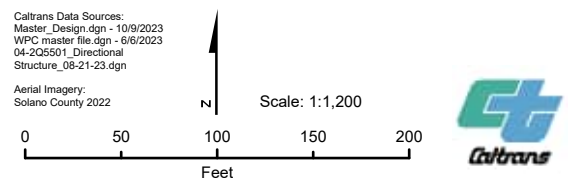
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Concrete Barrier



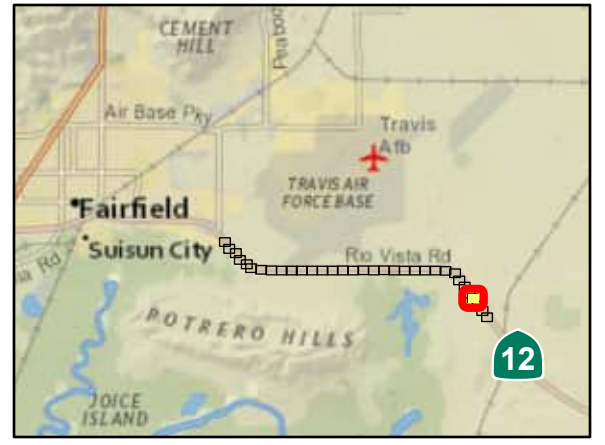
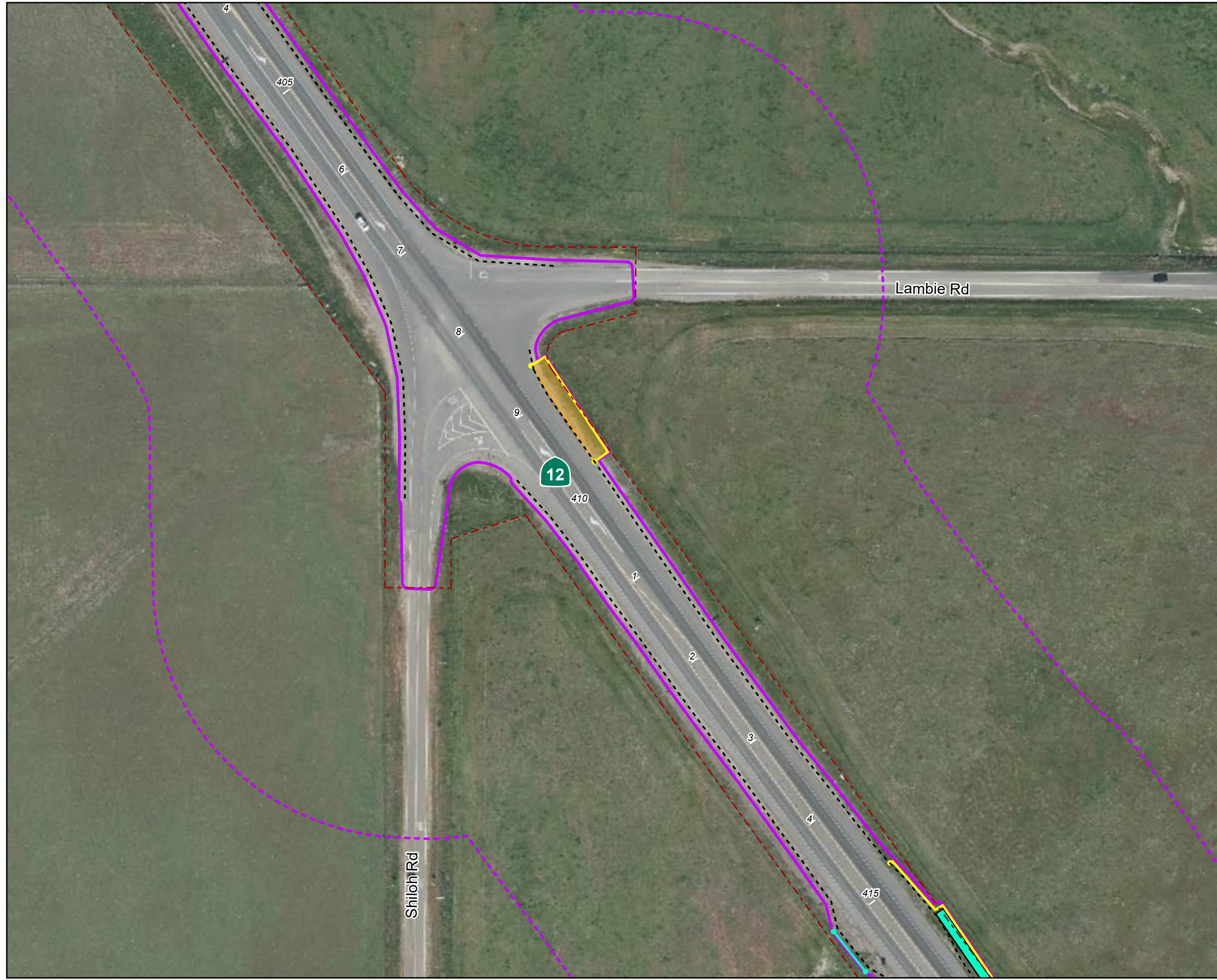
**Attachment 1**  
**Project Elements**  
**Map 28 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



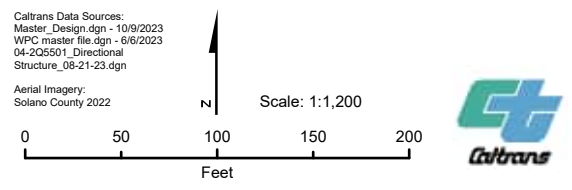
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary Wildlife Exclusion Fencing
  - Concrete Barrier
  - Staging Area



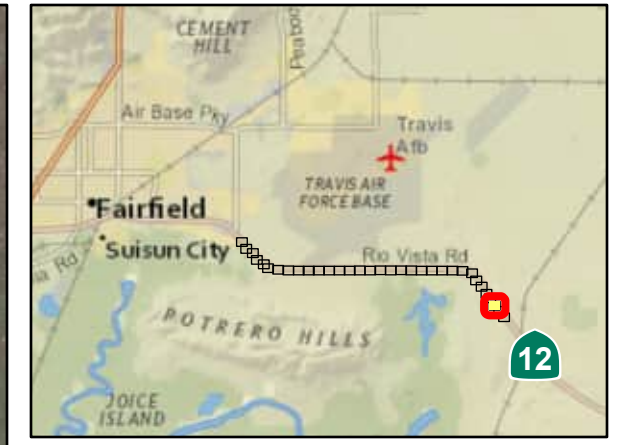
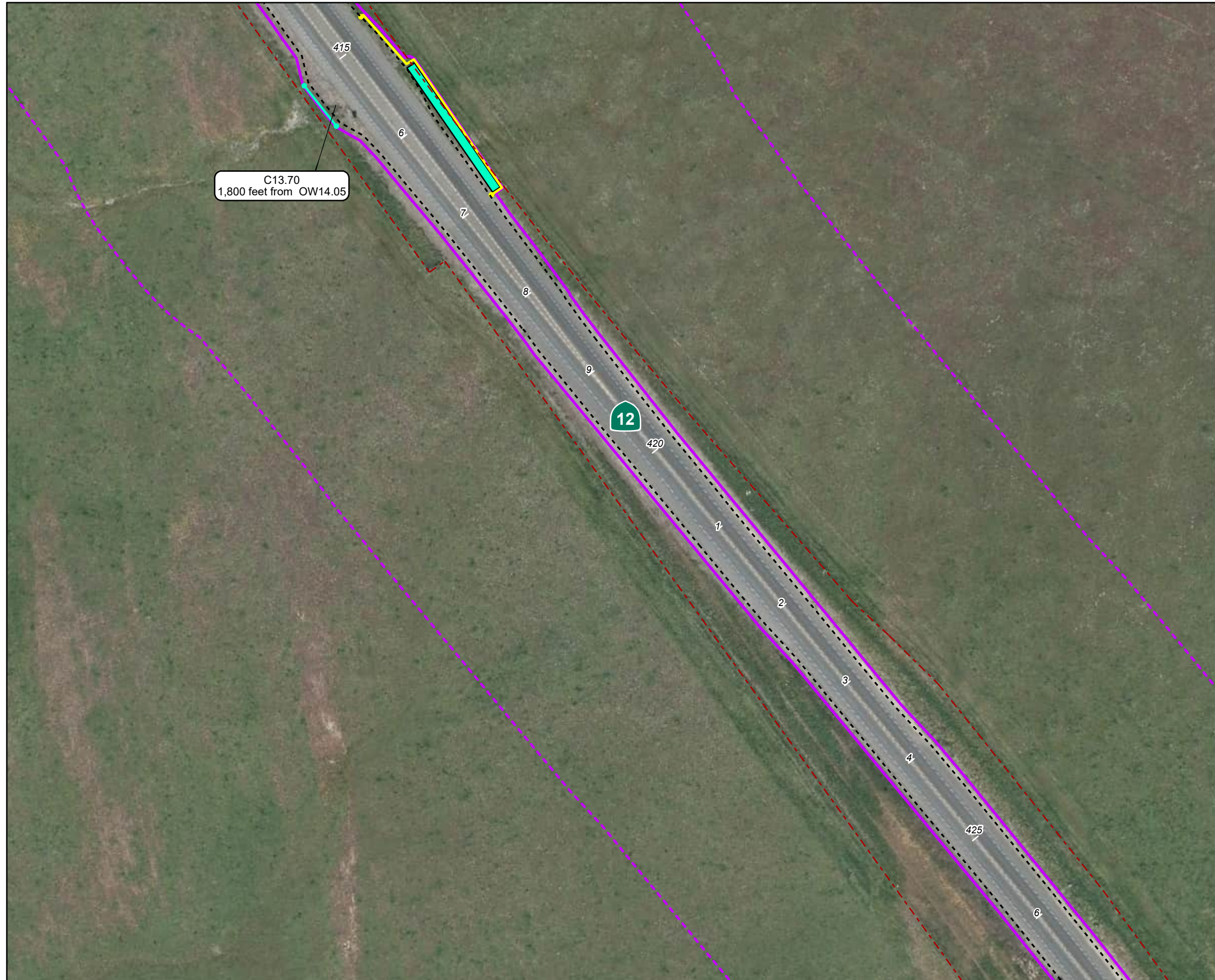
**Attachment 1**  
**Project Elements**  
**Map 29 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



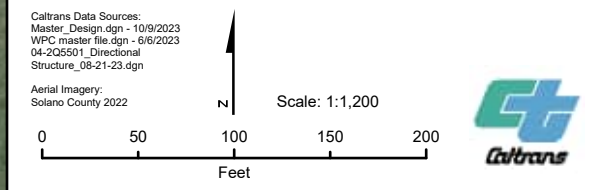
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Temporary Wildlife Exclusion Fencing
  - Bioswale
  - Staging Area



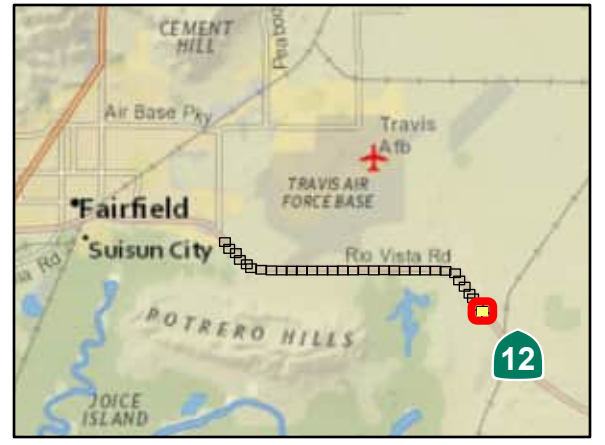
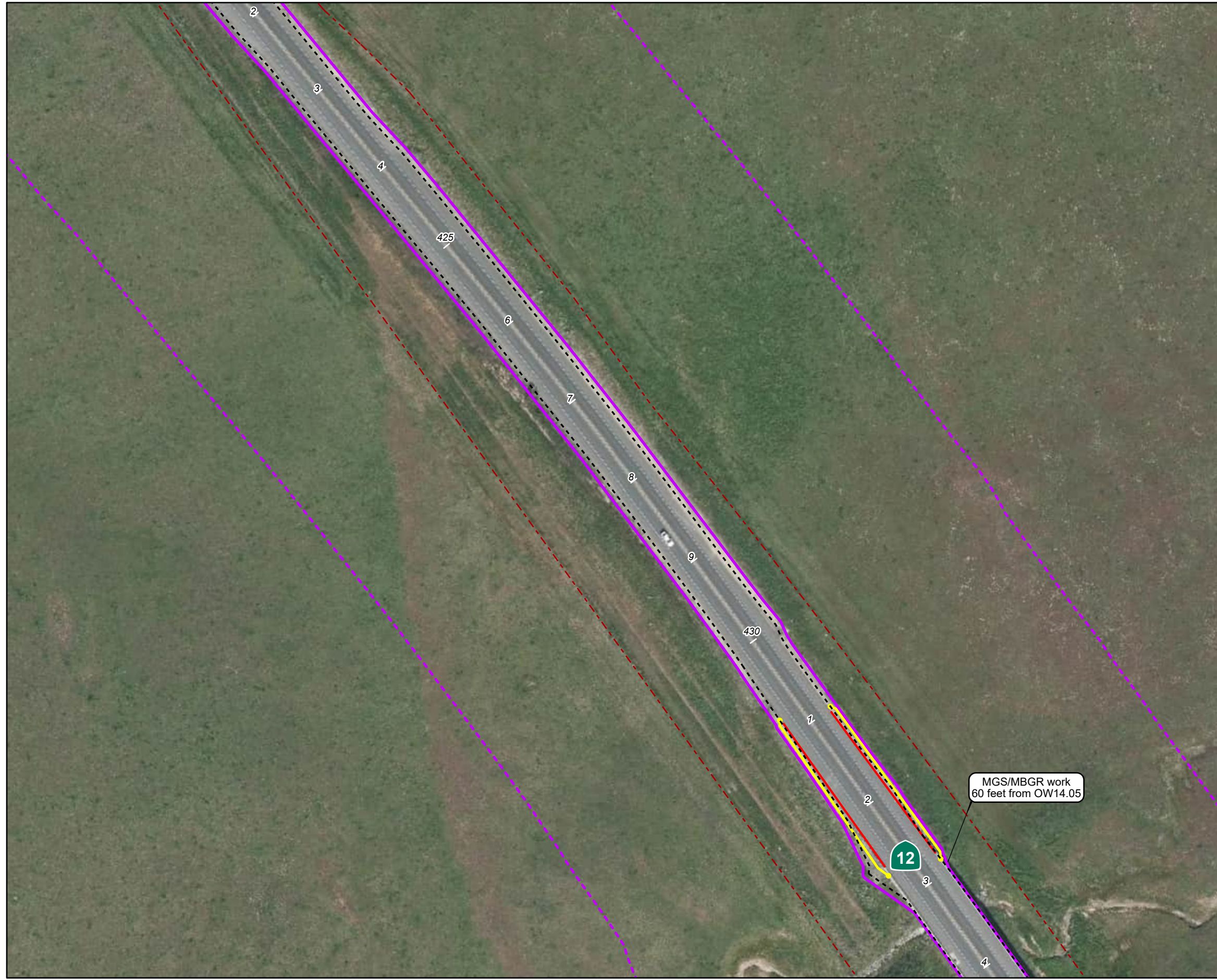
**Attachment 1**  
**Project Elements**  
**Map 30 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



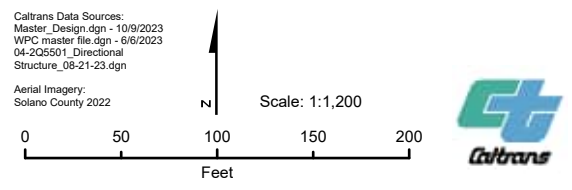
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary High Visibility Fencing
  - Temporary Wildlife Exclusion Fencing
  - Bioswale



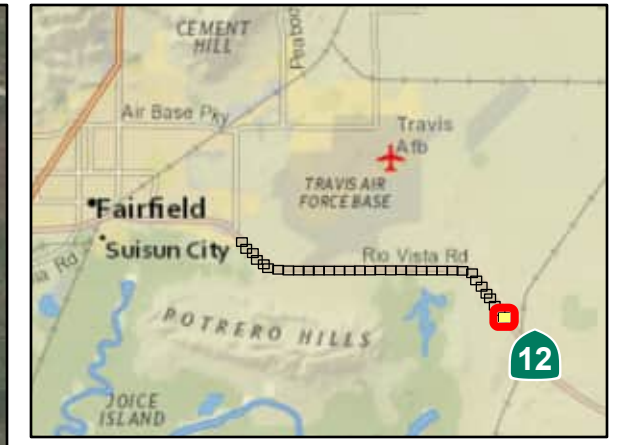
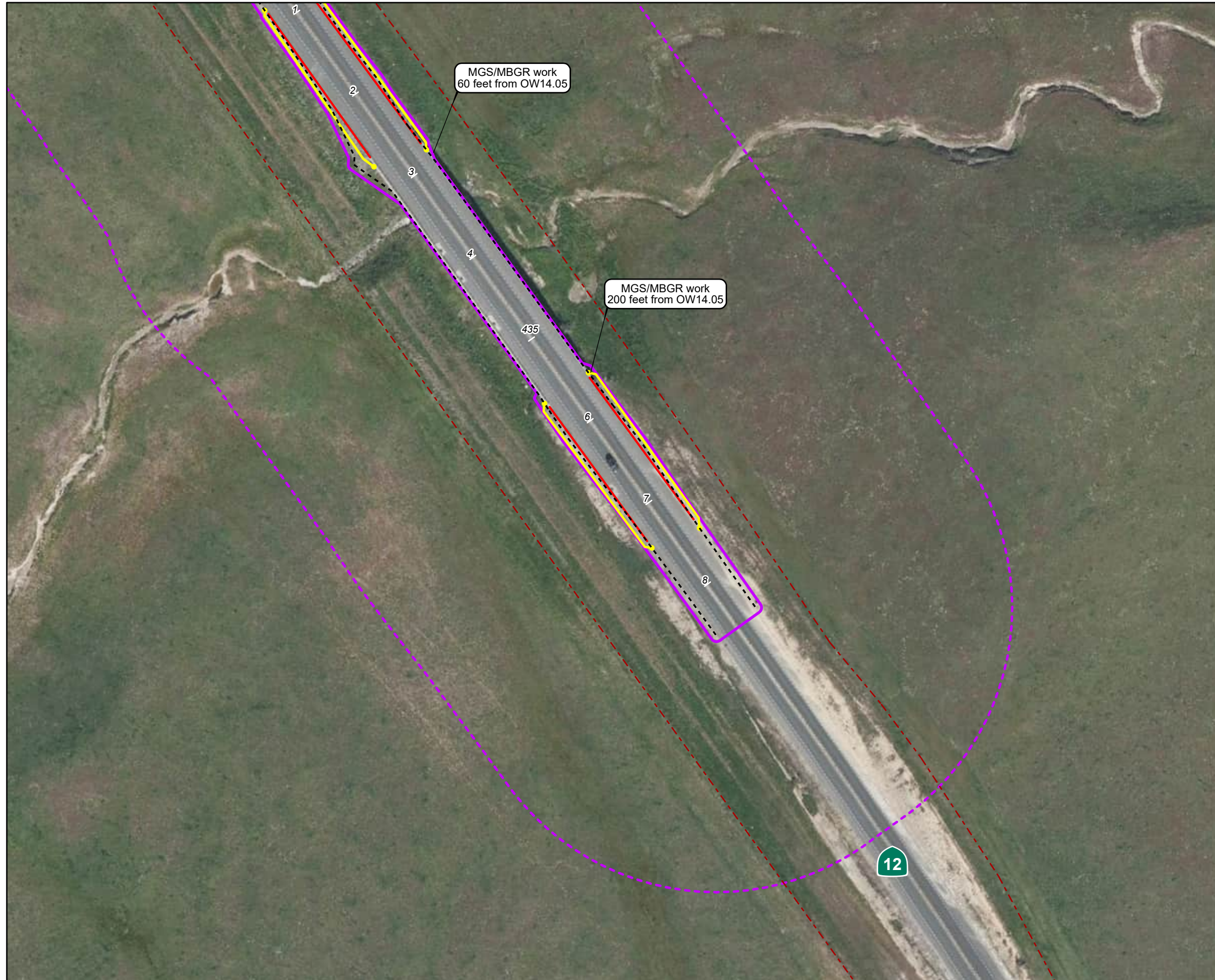
**Attachment 1**  
**Project Elements**  
**Map 31 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



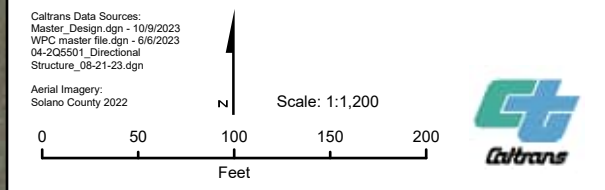
- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary Wildlife Exclusion Fencing
  - Install MGS and Remove MBGR



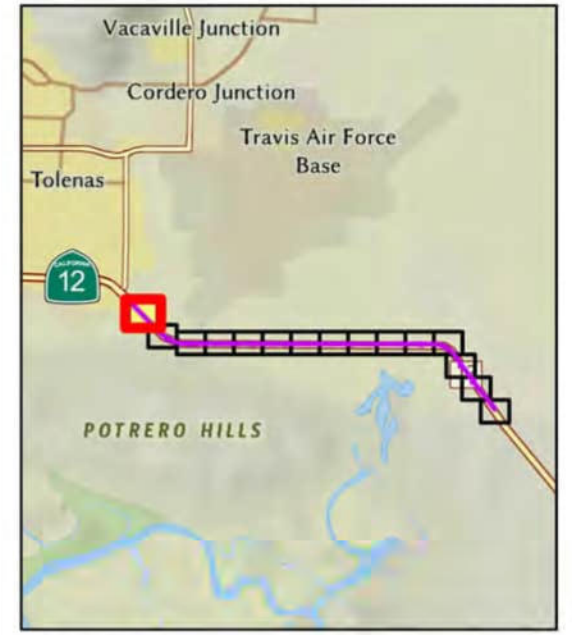
**Attachment 1**  
**Project Elements**  
**Map 32 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



- Legend**
- Project Footprint (52.83 acres)
  - Action Area (453 acres)
  - Existing Caltrans ROW
  - Cut/Fill Limits
  - Temporary Wildlife Exclusion Fencing
  - Install MGS and Remove MBGR



**Attachment 1**  
**Project Elements**  
**Map 33 of 33**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

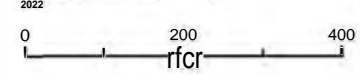
- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▨ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

- ▨ CDFW Riparian (80 SF)
- ▨ CWA Other Waters (6,335 SF/338 LF)
- ▨ CWA Wetland (25,293 SF)
- ▨ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Sources:  
 Sixty-one from  
 MMar 09-09 dgn (compiled by  
 Cattano on Jun 6, 2023; BCDC  
 Juradoon from Suisun Marsh  
 PioMcton PMr. Management Areas  
 GIS data - dainest/ki data from N  
 Schwaner - P. GA of Services  
 Manju' Consulting, LLC (May '6  
 and 28, 2023) and N. Schroff  
 and S. McGarry of Intoni  
 ComuTNI Inc. (Sept 24, 2023)



**Attachment 2**  
**Aquatic Resources Delineation Map**  
 Map: 1 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-72-PM 7.7/74.7  
 So/ano County, California





**Legend**

- Post Miles
- - - Caltrans Right of Way
- Study Area (51.50 Acres)
- CDFW Jurisdiction
- BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

- CDFW Riparian (80 SF)
- OW CWA Other Waters (6,335 SF/338 LF)
- CWA Wetland (25,293 SF)
- Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Source:  
Sludman hwn  
Matar Damngdn provided by  
Caninos on Jun. 6, 2023. BCDC  
Jurisdiction from Susan Mc-Vi  
Protection Air. MmiaBaineol A-  
GIS Mla datation dal. from N  
SchWMM and P Gal of Johnston  
Mango Corsatog, LLC (May 16  
and 26, 2023) and N Senonator  
and S KUGaw.y of inieon  
Corwul-ng Ire. 24, 2023

Acn. lmi nrv Solano County  
2021

**Attachment 2**  
**Aquatic Resources Delineation Map**  
 Map: 2 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▨ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

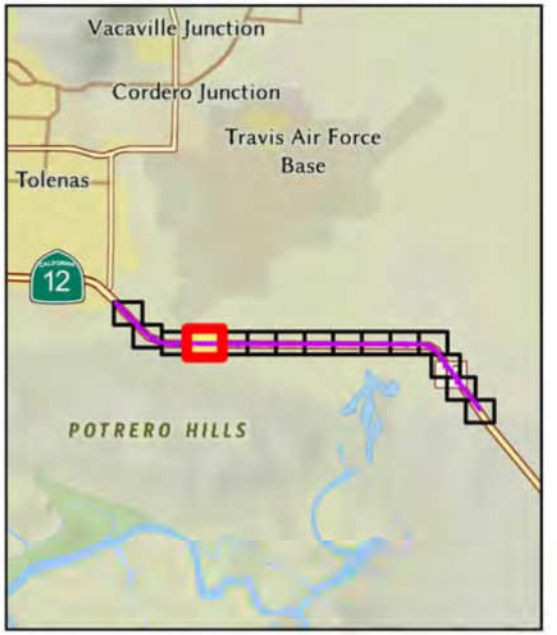
**Potentially Jurisdictional Aquatic Features**

- ▭ CDFW Riparian (80 SF)
- ▭ CWA Other Waters (6,335 SF/338 LF)
- ▭ CWA Wetland (25,293 SF)
- ▭ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Sources:  
Study area from  
Final Design provided by  
Caltrans on June 6, 2023. BCDC  
Jurisdiction from Solano Mid-H  
Protection Plan, Management Areas  
GIS data from Solano County  
GIS data from Solano County  
Manjori Consulting, LLC (May '16  
and 28, 2023) and N. Schowalter  
and S. McCarty of Integral  
Consulting Inc. (Sept. 24, 2023)  
Aerial Imagery: Solano County  
2021

**Attachment 2**  
**Aquatic Resources Delineation Map**  
 Map: 3 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

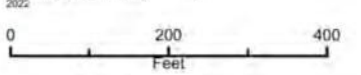
- Post Miles
- - - Caltrans Right of Way
- Study Area (51.50 Acres)
- CFDW Jurisdiction
- BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

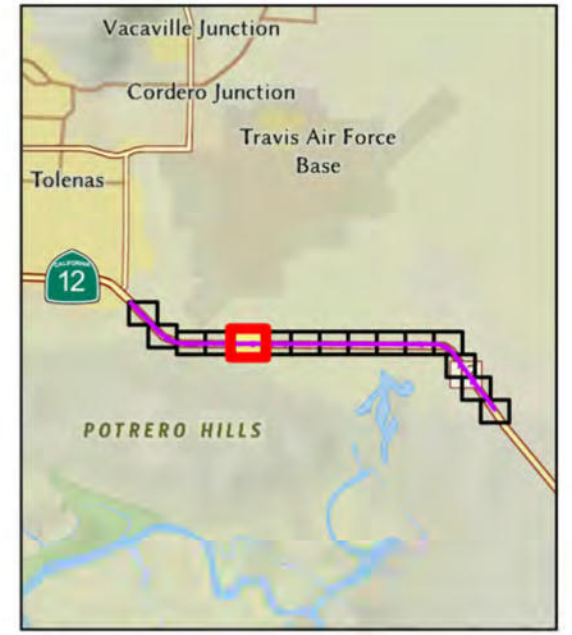
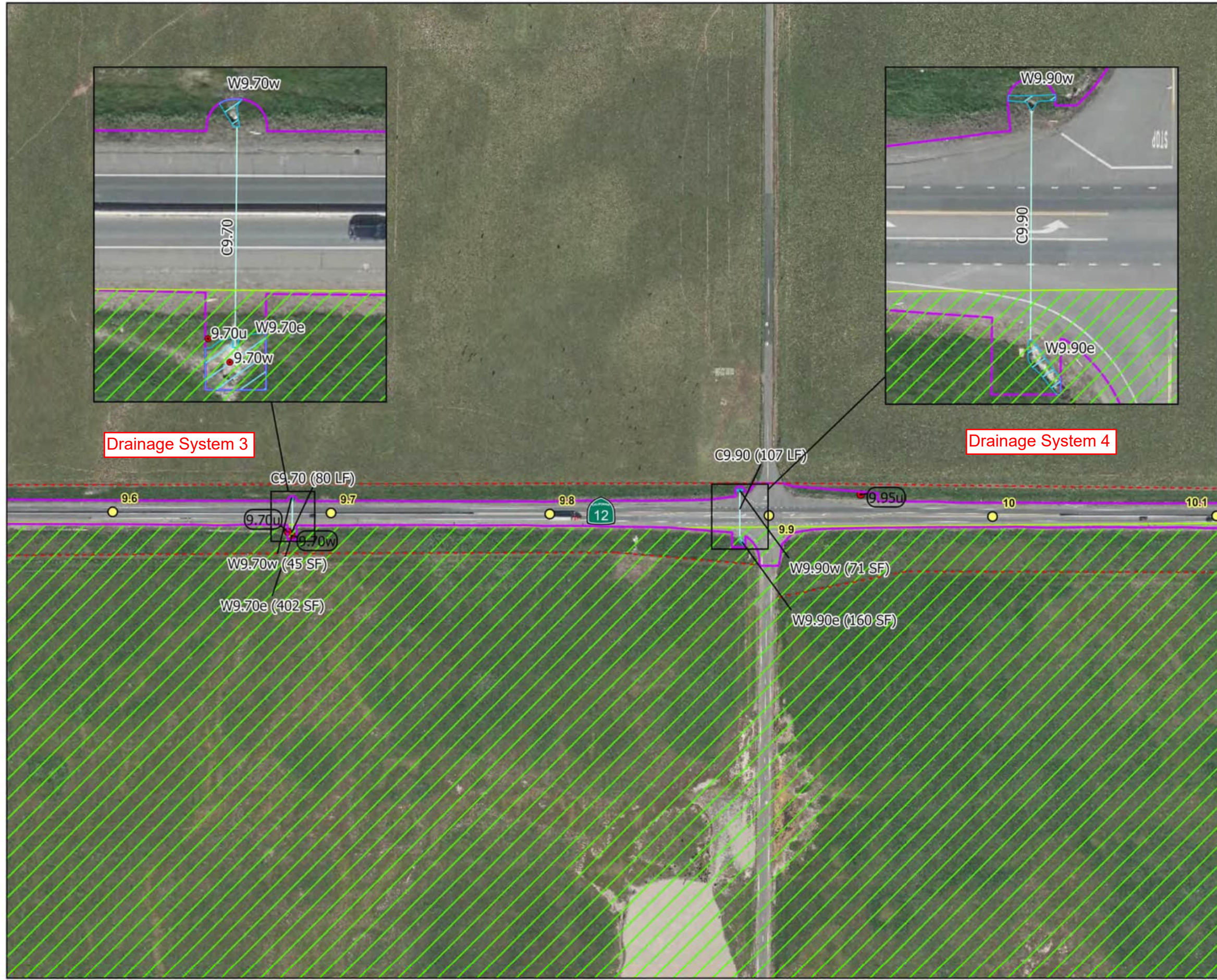
- CFDW Riparian (80 SF)
- CWA Other Waters (6,335 SF/338 LF)
- CWA Wetland (25,293 SF)
- Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Sources:  
Study area from  
Major\_Design.dgn provided by  
Caltrans on June 6, 2023; BCDC  
Jurisdiction from Salton Marsh  
Protection Plan Management Areas  
GIS data: elevation data from N.  
Schowalter and P. Gil of Johnson  
Marjot Consulting, LLC (May 18  
and 26, 2023); and N. Schowalter  
and S. McCarvey of Integral  
Consulting Inc. (Sept. 26, 2023).



**Attachment 2**  
**Aquatic Resources Delineation Map**  
**Map: 4 of 15**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▭ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

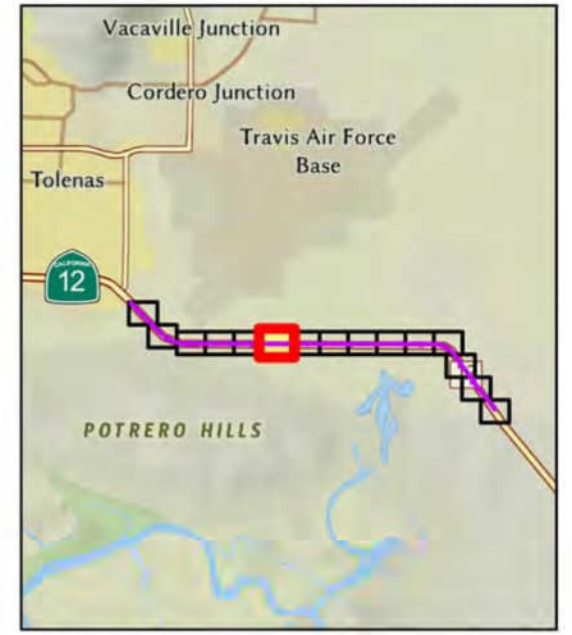
**Potentially Jurisdictional Aquatic Features**

- ▭ CDFW Riparian (80 SF)
- ▭ CWA Other Waters (6,335 SF/338 LF)
- ▭ CWA Wetland (25,293 SF)
- ▭ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Date: 10/3/2023  
 Study Area from  
 Merial Dwtjndign pfoVXM by  
 Caltrans on Jun. 6, 2023. BCDC  
 Jurisdiction, from Suitun Md-h  
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 Schwollm and P Gai of Joerwren  
 Manjot Consi-ng, LLC (May '6  
 and 26 2023) and N Scno'oM-  
 and S. McGa' ver nt interoal  
 Consi-ng Inc. (Seet. 24 2023)  
 Acn. lmi'ary Solano County  
 2021

**Attachment 2**  
**Aquatic Resources Delineation Map**  
 Map: 5 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▭ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

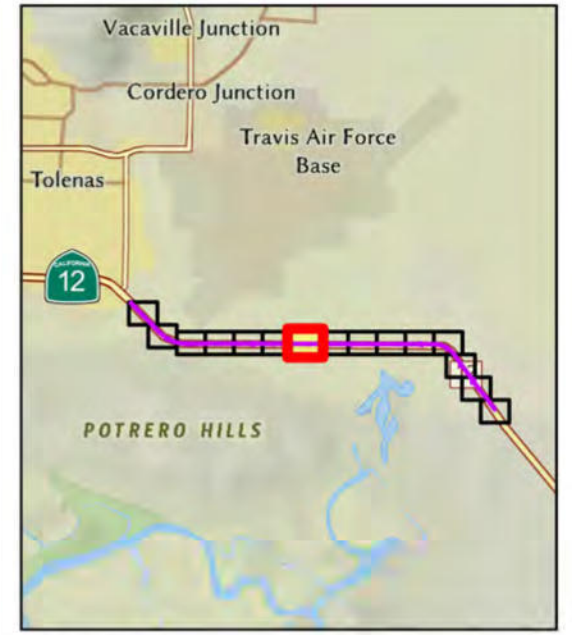
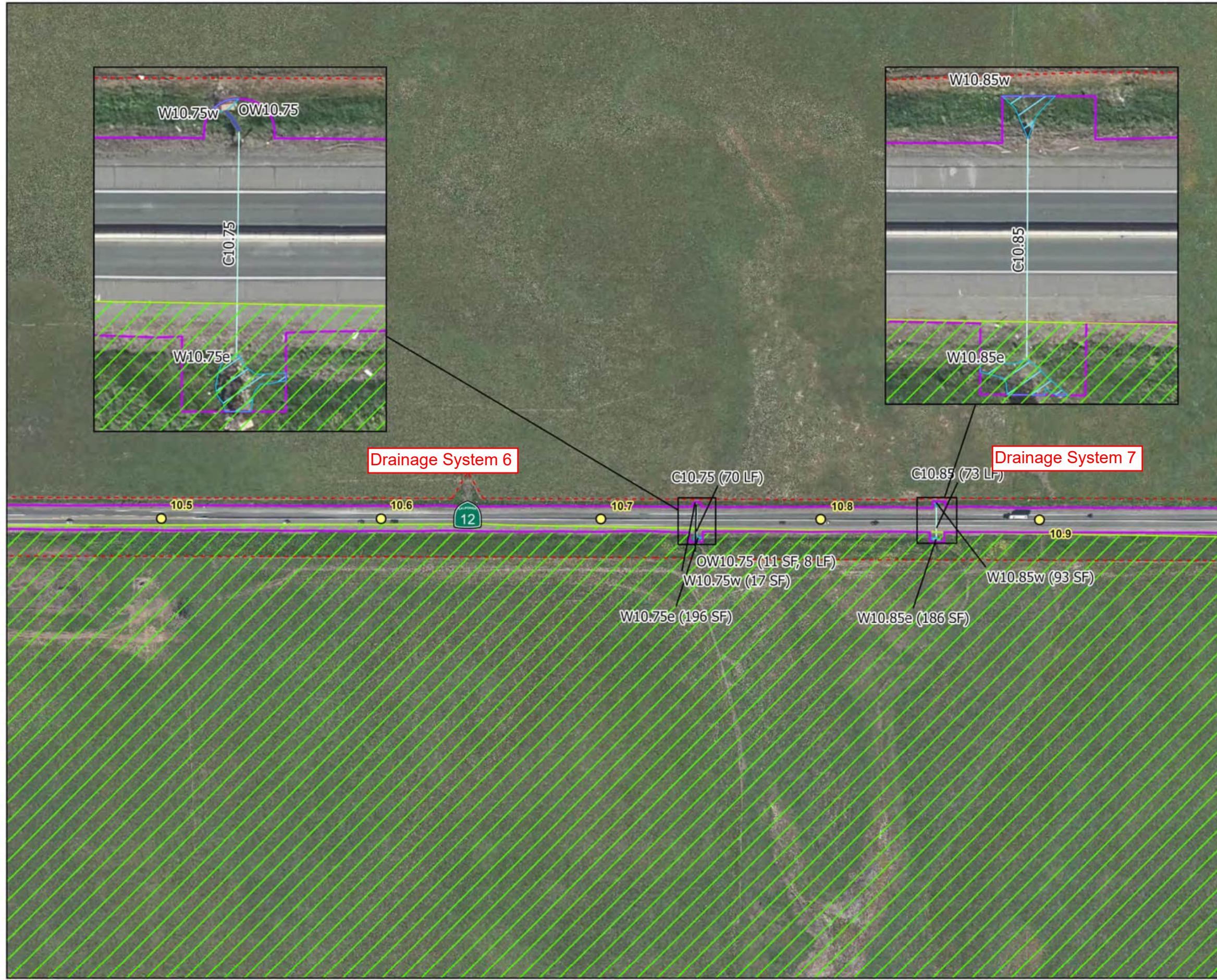
- ▭ 2 CDFW Riparian (80 SF)
- ▭ CWA Other Waters (6,335 SF/338 LF)
- ▭ CWA Wetland (25,293 SF)
- ▭ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Source:  
Study Area Item  
Matar\_DaMpn.dgn provided by  
Caltrans on June 6, 2023. BCDC  
Jurisdiction, from Suisun Marsh  
Protect-wi PMr, MdnatpTxwH Aress  
GIS Mta - dation data from N  
Schowalter sup P. 01/01/2023  
Manjy ConM'ng, LLC May '6  
and 28, 2023) and K. Scno'atw  
and S. McCary of [inter]  
Consulting Inc. (Sept. 24, 2023)

Aan - im'gan, Solano County  
2022

Attachment 2  
 Aquatic Resources Delineation Map  
 Map: 6 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▨ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

- ▨ CDFW Riparian (80 SF)
- ▨ CWA Other Waters (6,335 SF/338 LF)
- ▨ CWA Wetland (25,293 SF)
- ▨ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Source:  
Study area from  
Mater. Data provided by  
Caltrans on June 6, 2023. BCDC  
Jurisdiction from Statewide  
Protective Area, Monitored Areas  
GIS data delineation data from N  
Schiraldi and P. G. of Johnson  
Manjot Consulting, LLC (May '06  
and 2023) and N. Schiraldi  
and S. McGarvey at Integral  
Consulting Inc. (Dec. 24, 2023)

Anal. in v. Selene County  
2021

0 200 400  
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Attachment 2  
Aquatic Resources Delineation Map  
Map: 7 of 15  
State Route 12  
Major Pavement Rehabilitation Project  
EA 04-2Q550, SOL-12-PM 7.7/14.1  
Solano County, California



**Legend**

- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▭ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

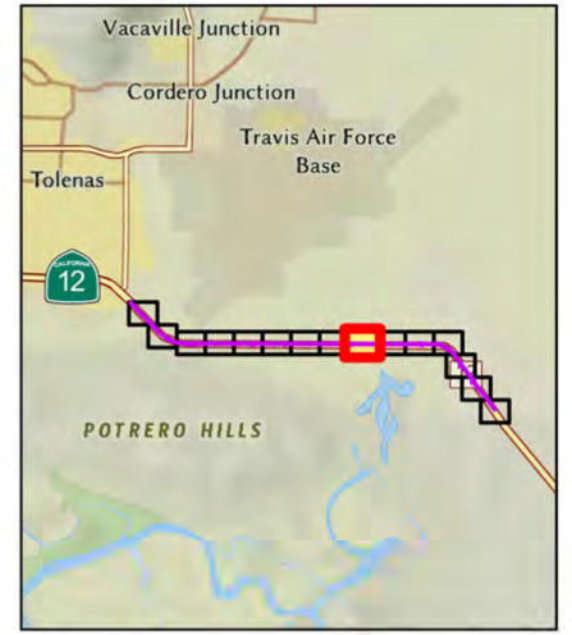
- ▭ CDFW Riparian (80 SF)
- ▭ CWA Other Waters (6,335 SF/338 LF)
- ▭ CWA Wetland (25,293 SF)
- ▭ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Sources:  
 Sliir/J man hwn  
 Ma-aal D e e y n d g n (coveted by  
 Caninos on June 6, 2023. 0C0C  
 Jurwek'cn from Smtun M)\*-h  
 ProOoCIMI Pkeh Management Areas  
 GIS Maa daknoeloo data from N  
 Solma'nal and P GA of Johnson  
 Monjo' Consia'ng, LLC (May '6  
 and 26 2023) and N Scna'aM-  
 and S KUGawe, nt intoon  
 Consult'ng Ire <Sec. 24 2023)

Acn' i m iqrvv Solano County  
 2021

Attachment 2  
 Aquatic Resources Delineation Map  
 Map: 8 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▭ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

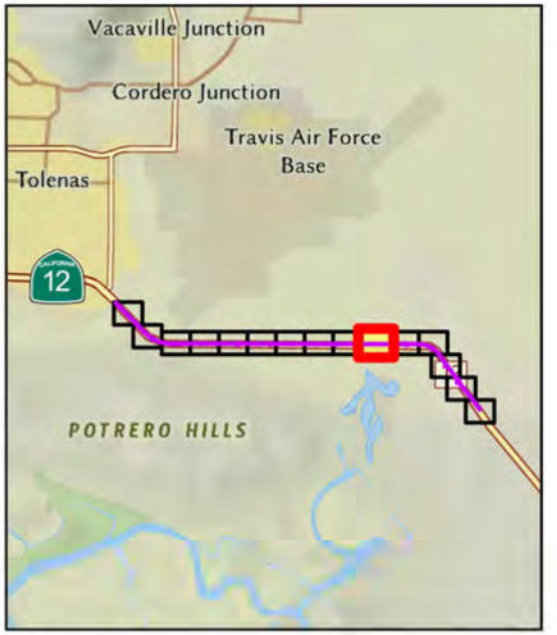
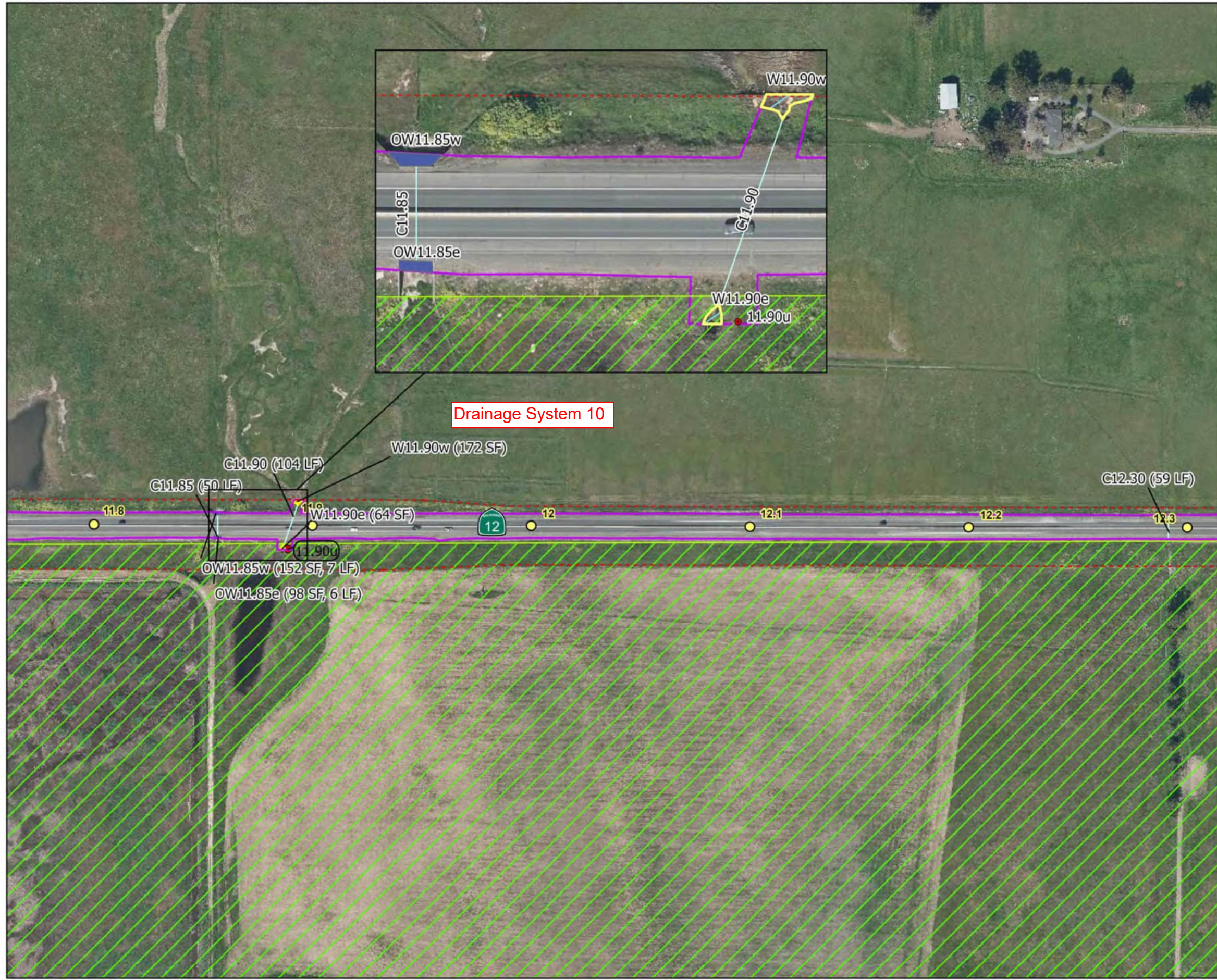
- ▭ CDFW Riparian (80 SF)
- ▭ CWA Other Waters (6,335 SF/338 LF)
- ▭ CWA Wetland (25,293 SF)
- ▭ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data provided by Solano County GIS on June 6, 2023. BCDC Jurisdiction from Solano County GIS data. CDFW Riparian from Solano County GIS data. CWA Other Waters from Solano County GIS data. CWA Wetland from Solano County GIS data. Culverted Waters from Solano County GIS data. Map prepared by Manjo' Consulting, LLC on May 16 and 28, 2023. and N. Schowalter and S. K. Galloway of Integral Geospatial Inc. on 7/24/2023. Approved by Solano County 2022.

Attachment 2  
 Aquatic Resources Delineation Map  
 Map: 9 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California





**Legend**

- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▭ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

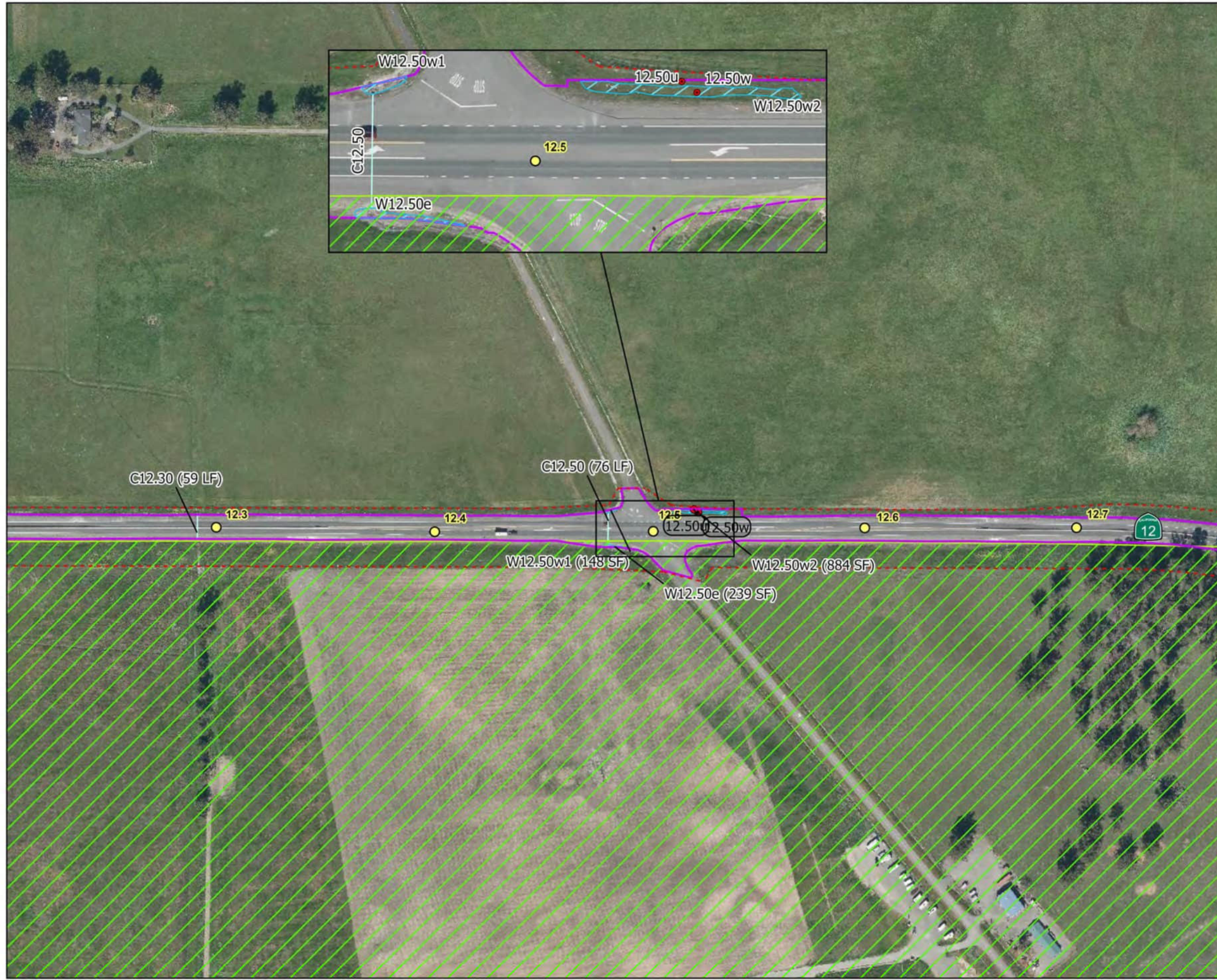
- ▭ CDFW Riparian (80 SF)
- E5** CWA Other Waters (6,335 SF/338 LF)
- ▭ CWA Wetland (25,293 SF)
- ▭ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Served:  
 Slud... from  
 Matar... provided by  
 Caninos on Jan 6, 2023. BCDC  
 Jurisdiction from Sultun...  
 Protection Pwr. f...  
 GIS M... data from N  
 Scho... of Johnson  
 Marmol Consu'ng, LLC May '6  
 and 28 2023) and N Sconomr  
 S. McGa' ver nt inteonj  
 Coraul'ng I.C. (Scot 24, 2023)

Aerial Imagery: Solano County  
 2021

Attachment 2  
 Aquatic Resources Delineation Map  
 Map: 10 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

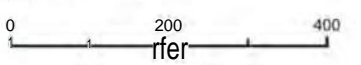
- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▭ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

- ▭ CDFW Riparian (80 SF)
- ▭ CWA Other Waters (6,335 SF/338 LF)
- ▭ CWA Wetland (25,293 SF)
- ▭ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Source:  
 Sixt, ncan hem  
 Masai, Design dgn JKU/Oee by  
 Cattin, on Jun 6, 2023 BCDC  
 Jurator, bom Suisun Marsh  
 Pofattin pfor, JdiAGST/vei AIOSS  
 GIS Mia Mhnoofoo data from N  
 Schowetw, P GA of Japance  
 Manjo' Consu'na, LLC i-My 16  
 and 26 2023) and N Scno'oM-  
 S. McCary of integal  
 CorralTs, Ire (Best, 26 2023)



**Attachment 2**  
**Aquatic Resources Delineation Map**  
 Map: 11 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

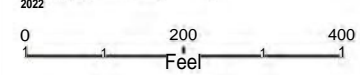
- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▨ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

- ▨ CDFW Riparian (80 SF)
- ▨ CWA Other Waters (6,335 SF/338 LF)
- ▨ CWA Wetland (25,293 SF)
- ▨ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Sources:  
 Study area from  
 Mraai 08Hgn v 0' PGI) by  
 Caltrans on Jun. 6, 2022. BCDC  
 Juradson hom Sultun Mid-h  
 PioMcicxi Flan KlongamMH Areas  
 GIS Mia daWnoooolal, hixn N  
 SchoneH\* MN) P GA Of Junooc  
 Manjot Consumes, ILC (May '6  
 and 26 2023) and N SconouUv  
 and S McGa' ver « inteonl  
 Coraurlbog Inc. (Res# 24 2023)



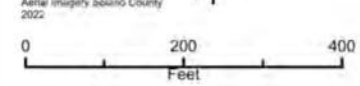
Attachment 2  
 Aquatic Resources Delineation Map  
 Map: 12 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



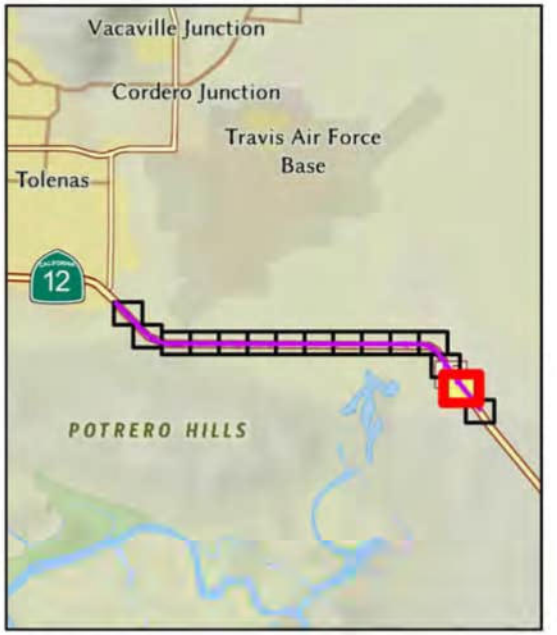
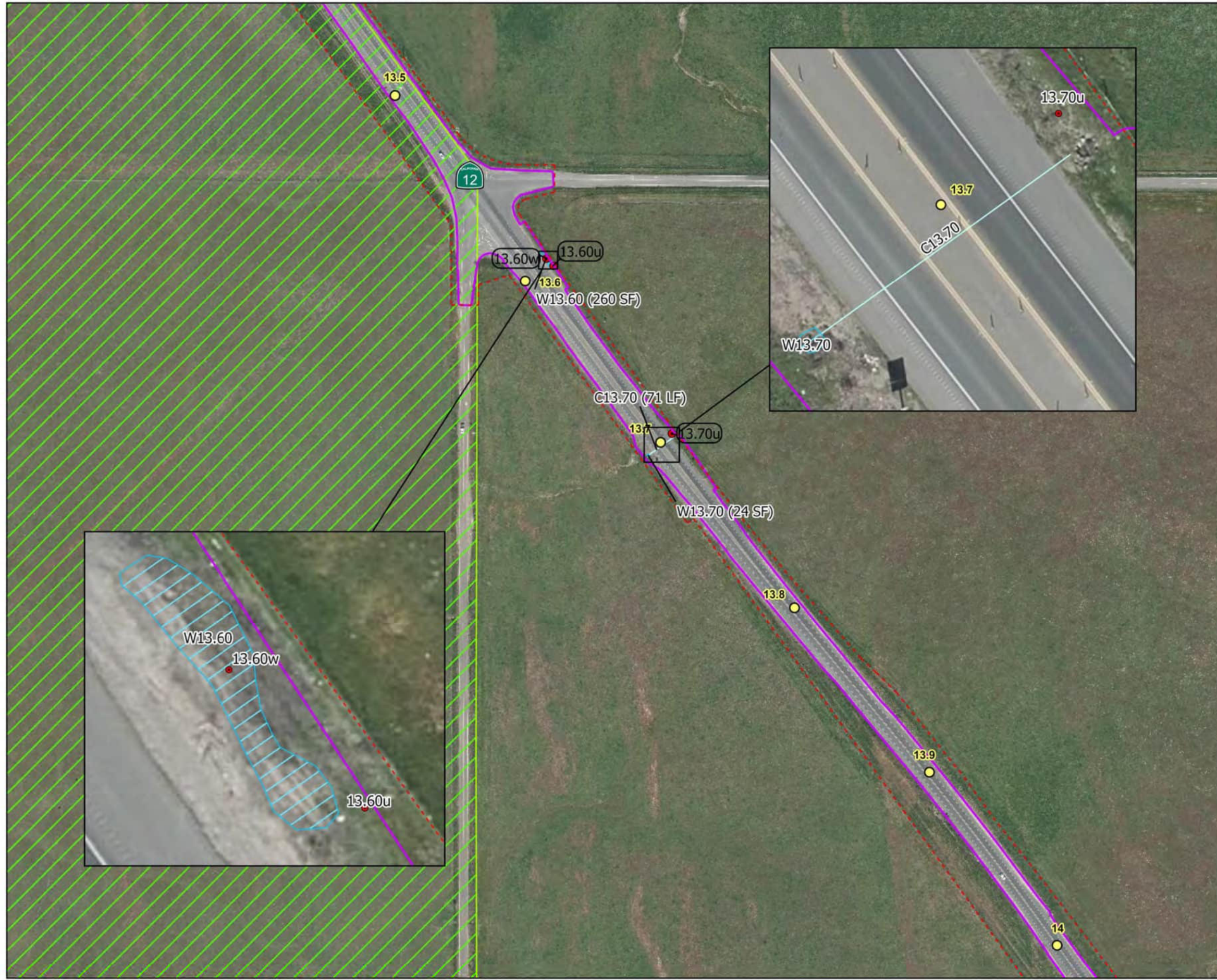
- Legend**
- Post Miles
  - - - Caltrans Right of Way
  - ▭ Study Area (51.50 Acres)
  - ▨ CDFW Jurisdiction
  - ▨ BCDC Jurisdiction
  - Wetland Sample Points
- Potentially Jurisdictional Aquatic Features
- ▭ CDFW Riparian (80 SF)
  - ▭ CWA Other Waters (6,335 SF/338 LF)
  - ▭ CWA Wetland (25,293 SF)
  - ▭ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Sources:  
Study area from  
Marsal\_Design.dgn provided by  
Caltrans on June 6, 2023; BCDC  
Jurisdiction from Solano Marsh  
Protection Plan Management Areas  
GIS data: delineation data from N.  
Schowalter and P. Gil of Johnson  
Maritz Consulting, LLC (May 18  
and 26, 2023); and N. Schowalter  
and S. McCarvey of Integral  
Consulting Inc. (Sept. 26, 2023).



**Attachment 2**  
**Aquatic Resources Delineation Map**  
**Map: 13 of 15**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

- Post Miles
- - - Caltrans Right of Way
- ▭ Study Area (51.50 Acres)
- ▨ CDFW Jurisdiction
- ▨ BCDC Jurisdiction
- Wetland Sample Points

Potentially Jurisdictional Aquatic Features

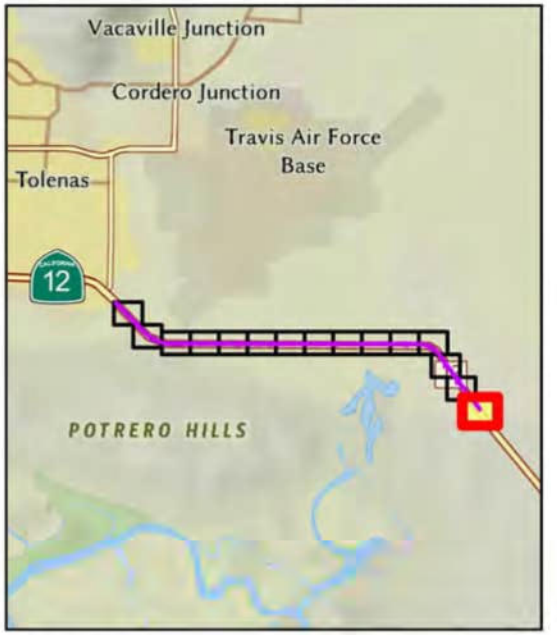
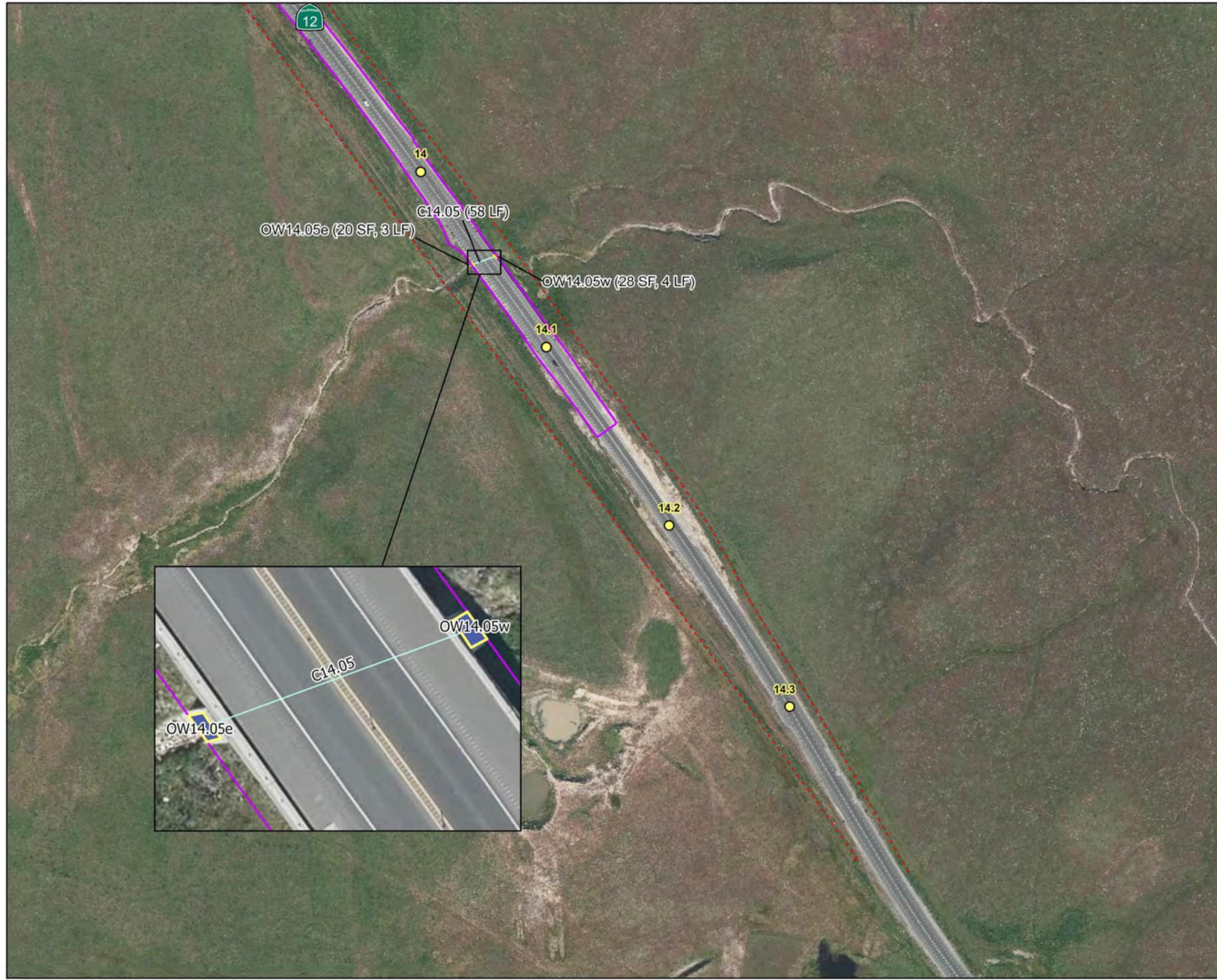
- ▨ CDFW Riparian (80 SF)
- ▨ CWA Other Waters (6,335 SF/338 LF)
- ▨ CWA Wetland (25,293 SF)
- ▨ Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data Sources:  
Study area from  
MMSI Design provided by  
Caltrans on June 6, 2022. BCDC  
Jurisdiction from Sultun Mid-H  
Protection PMr. Moningaitwil Areas  
GIS Map Information data from N  
Schwartz and P. GA of Jensen  
Manjoi Consulting, LLC (My '6  
and 26 2023) and 'Scho'ato  
'nd S. KUGawe, of Integral  
Consulting Inc. (Sept. 26, 2023)

Aerial Imagery: Solano County  
2022

**Attachment 2**  
**Aquatic Resources Delineation Map**  
**Map: 14 of 15**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



**Legend**

- Post Miles
- - - Caltrans Right of Way
- Study Area (51.50 Acres)
- CDFW Jurisdiction
- BCDC Jurisdiction
- Wetland Sample Points

**Potentially Jurisdictional Aquatic Features**

- CDFW Riparian (80 SF)
- CWA Other Waters (6,335 SF/338 LF)
- CWA Wetland (25,293 SF)
- Culverted Waters (1,787 LF)

Note: Flow is from north to south across highway

Data provided by Solano County GIS. Design provided by Caninos on June 6, 2023. BCDC Jurisdiction, both Solano County and Contra Costa County. Project Manager: Michael Arms. GIS data derived from N Schreiner and P Gil of Johnson Manjix Consulting, LLC (May 16 and 26, 2023) and N Schreiner and S KUGawo, of Inispaal Consulting Inc. (Dec. 24, 2023). Aerial Imagery: Solano County 2022.

**Attachment 2**  
**Aquatic Resources Delineation Map**  
 Map: 15 of 15  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California

# Wildlife Passage Connectivity Proposal

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Construction of the State Route (SR) 12 Major Pavement Rehabilitation Project (Project) will include improvements to existing culverts to provide relatively safe passage for wildlife to cross under the road. Curbs will be incorporated into the design to direct small wildlife, such as California tiger salamander (*Ambystoma californiense*) (CTS), to the crossing structure.

## Locations Being Considered for Culvert Improvements

The diameter of three culverts will be increased to 48 inches. The new culverts will be embedded with streambed material in the invert, as shown on Drainage Plan DD-1 in Attachment A. Embedding the culverts with a natural bottom will provide a moist surface for small wildlife using the culvert to pass under the highway and will preserve the integrity of upstream seasonal wetlands by maintaining a consistent flow rate. The depth of the embedded material within culverts will be 12 inches.

Drainage system work at PMs 11.3 (Drainage System 8 at Station 289+74), 11.6 (Drainage System 9 at Station 303+89), and 11.98 (Drainage System 10 at Station 319+70) will remove the entire existing 30-inch reinforced concrete pipe (RCP) culvert and flared end sections (FESs) at both ends with a 48-inch RCP culvert.

## Wildlife Directional Curb

A wildlife barrier would generally be installed for 131 feet on each side of the wildlife crossing culverts as well as at one existing dry crossing at PM 11.85 to direct individuals towards the wildlife passages and away from SR 12. The length of the barrier has been designed based on *Research to Inform Caltrans Best Management Practices for Reptile and Amphibian Road Crossings* (Brehme and Fisher 2021), which found that CTS move an average distance of 40 meters (131 feet) along a barrier before “giving up.” The barriers may be reduced at some locations if it is necessary to avoid direct impact to wetland habitat.

The barrier would be composed of standard curbs installed at the toe of the slope. The curb design plan sheet A87A is presented in Attachment A. This material is proposed due to the low maintenance requirements anticipated compared to a fence, as well as the advantages of non-transparent barriers. CTS were found to move along solid barriers at a faster speed than transparent barriers (Brehme and Fisher 2021). Small turnarounds will be incorporated at the ends of the curb barriers to change the trajectory of movement for herpetofauna and small mammals.

## **Maintenance**

These culverts will be on the list of facilities for Caltrans Maintenance to inspect annually. If storms wash vegetation or other debris such that it occludes the culvert's use for wildlife passage, Caltrans Maintenance will remove the material.

## **Value Assessment**

Wildlife passage improvements will enhance habitat connectivity for small wildlife, such as CTS, crossing SR 12. The Connectivity Restoration Map in Attachment B shows the habitat that would be enhanced within a 500-foot buffer of the wildlife passage. The 500-foot and 1.3-mile buffers shown in Attachment B were established based on distances adult CTS have been documented from available breeding sites (USFWS 2004; California Fish and Game Commission 2010). Studies conducted at Olcott Lake on the Jepson Prairie Preserve in Solano County by Trenham and Shaffer (2005) determined that 50 percent of adult CTS occur within 500 feet of a breeding location during winter movements. Potential breeding pools are being assessed with a 1.3-mile buffer due to Searcy and Shaffer (2011) extensive Jepson Prairie study on the distances traveled of over 15,000 CTS from two breeding pools over five breeding seasons, which concluded that this species is physiologically capable of migrating each breeding season up to 1.5 miles with 95 percent of the CTS population found within 1.16 miles of a breeding pond (Searcy and Shaffer 2011).

Assumed movement corridors, based on potential habitat, are shown on the Connectivity Restoration Overview figure in Attachment B. CTS are assumed to move in approximately straight lines to and from breeding habitat (Searcy and Shaffer 2008).

Many potentially suitable aquatic breeding habitats for CTS are present within a 1.3-mile radius of the Project, as shown in Attachment B. There is a large vernal pool along the north side of SR 12 at the culvert at PM 11.60 that is a known breeding pool for CTS. Currently, CTS migrating to and from this known breeding site has ready access to upland habitat north of SR 12, and no barrier exists between this pool and Jepson Prairie. With the wildlife passage improvements, CTS travelling from this aquatic habitat in a southwest direction would have improved connection to the south side of SR 12.

The wildlife passage improvements along SR 12 associated with this project would also result in improved permeability of SR 12 for CTS migrating across upland habitat. Attachment B shows the potentially suitable upland habitat around the proposed wildlife passage. Passage improvements would improve connectivity between grasslands to the north and south of SR 12.



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## References

Brehme, Cheryl S. and Robert N. Fisher. 2021. *Research to Inform Caltrans Best Management Practices for Reptile and Amphibian Road Crossings*. USGS Western Ecological Research Center.

California Fish and Game Commission. 2010. List California Tiger Salamander as a threatened species. California Regulatory Notice Register. Title 14, Vol. No. 12–Z:425–427.

Searcy, Christopher A. and Shaffer, H. Bradley. 2008. *Calculating Biologically Accurate Mitigation Credits: Insights from the California Tiger Salamander*. Department of Evolution and Ecology and Center for Population Biology, 2320 Storer Hall, 1 Shields Avenue, University of California, Davis, CA 95616

Searcy, C. A. and H. B. Shaffer. 2011. “Determining the migration distance of a vagile vernal pool specialist: How much land is required for conservation of California tiger salamanders?” Pages 73-87 in D. G. Alexander and R. A. Schlising (Editors), *Research and recovery in vernal pool landscapes*. Studies from the Herbarium, Number 16. California State University, Chico, CA.

Trenham, P.C., and H.B. Shaffer. 2005. “Amphibian upland habitat use and its consequences for population viability.” *Ecological Applications* 15:1158–1168.

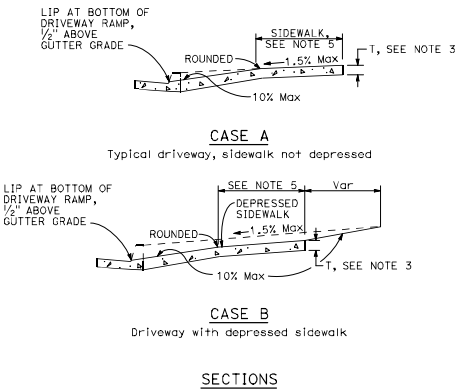
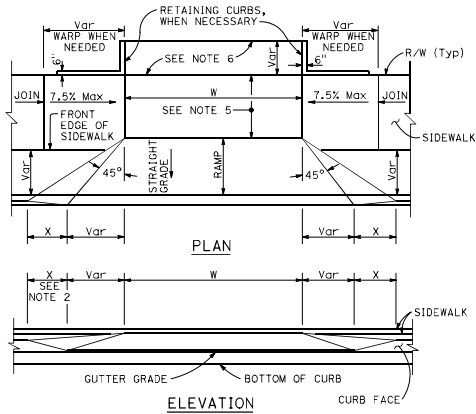
U.S. Fish and Wildlife Service (USFWS). 2004. Endangered and threatened wildlife and plants; determination of threatened status for the California tiger salamander; and special rule exemption for existing routine ranching activities; final rule. 69 FR 47212. Aug 4, 2004.



# Attachment 1    Design Plans

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**TABLE A**

CURB TYPE	DIMENSIONS			
	"H1"	"H2"	"W1"	"W2"
A1-6	1'-2"	6"	7 1/2"	1 1/2"
A1-8	1'-4"	8"	8"	2"
A2-6	1'-0"	6"	2'-7 1/2"	1 1/2"
A2-8	1'-2"	8"	2'-8"	2"
A3-6	6"	5"	7 1/4"	1 1/4"
A3-8	8"	7"	7 3/4"	1 3/4"
B1-4	1'-0"	4"	7 1/2"	2 1/2"
B1-6	1'-2"	6"	9"	4"
B2-4	10"	4"	2'-7 1/2"	2 1/2"
B2-6	1'-0"	6"	2'-9"	4"
B3-4	4"	3"	7"	2"
B3-6	6"	5"	8 1/2"	3 1/2"
D-4	10"	4"	1'-6"	1'-1"
D-6	1'-0"	6"	2'-2"	1'-9"

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL No. SHEETS

*U. David Collins*  
 REGISTERED CIVIL ENGINEER  
 No. 441957  
 Exp. 3-31-24  
 CIVIL  
 STATE OF CALIFORNIA

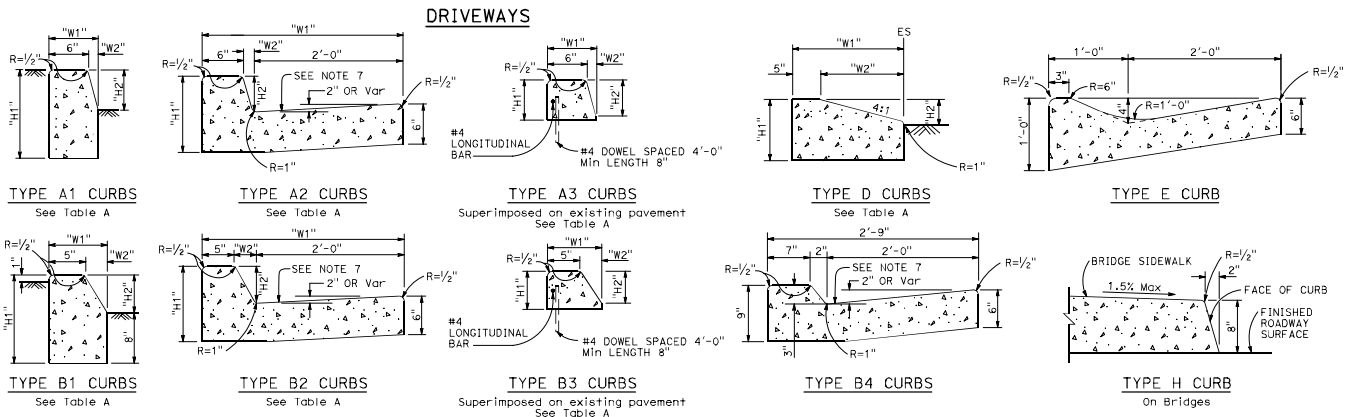
May 1, 2023  
 PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**CURB QUANTITIES**

TYPE	CUBIC YARDS PER LINEAR FOOT
A1-6	0.02585
A1-8	0.03084
A2-6	0.05903
A2-8	0.06379
A3-6	0.01036
A3-8	0.01435
B1-4	0.02185
B1-6	0.02930
B2-4	0.05515
B2-6	0.06171
B3-4	0.00641
B3-6	0.01074
B4	0.05709
D-4	0.04083
D-6	0.06804
E	0.06661

166



- NOTES:**
- Case A driveway section typically applies.
  - X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
  - Sidewalk and ramp thickness "T" at driveway shall be 4" for residential and 6" for commercial.
  - Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5'-0" from gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.
  - Minimum width of clear passageway for sidewalk shall be 4'-2".
  - Retaining curbs and acquisition of construction easement may be necessary for narrow sidewalks or curb heights in excess of 6".
  - Across the pedestrian route at curb ramp locations, the gutter pan slope shall not exceed 1" of depth for each 2'-0" of width.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**CURBS AND DRIVEWAYS**  
 NO SCALE

**A87A**

2023 STANDARD PLAN A87A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SOL	12	7.7/14.1		XYZ

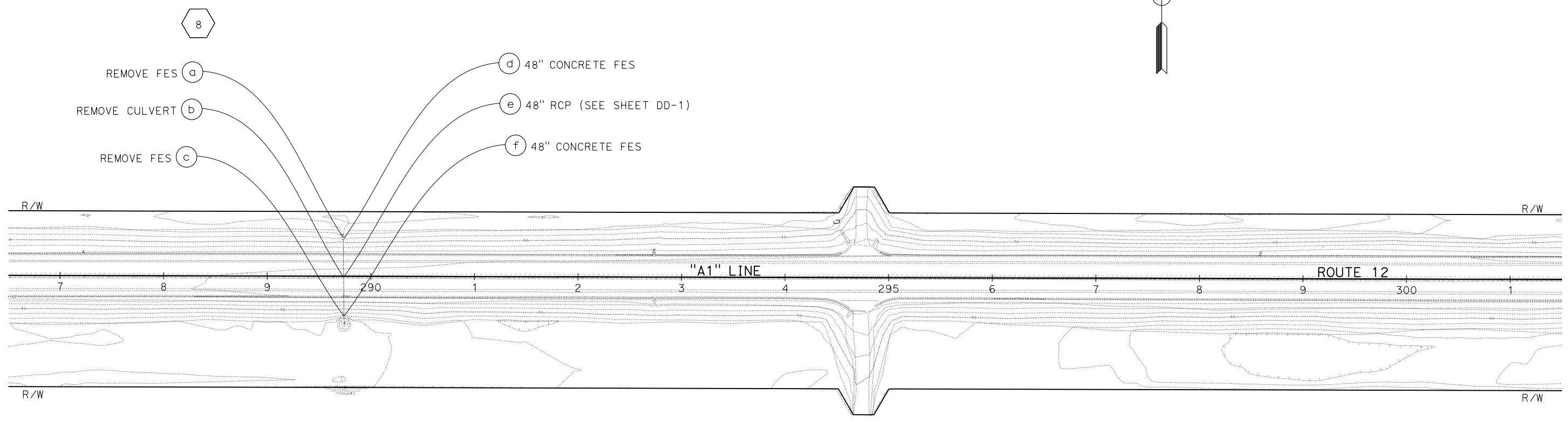
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

REVISOR	YIN	2-16-23
REVISOR		
REVISOR		
DESIGNER	JINPEI FENG	
CHECKER	KHAI LEONG	
DESIGNED BY		
CHECKED BY		
FUNCTIONAL SUPERVISOR	TUNG LY	
DEPARTMENT OF TRANSPORTATION	HYDRAULICS	



**DRAINAGE PLAN**  
SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET D-1

**D-6**

LAST REVISION DATE PLOTTED => 9-AUG-2023 07-17-23 TIME PLOTTED => 16:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SOL	12	7.7/14.1		XYZ

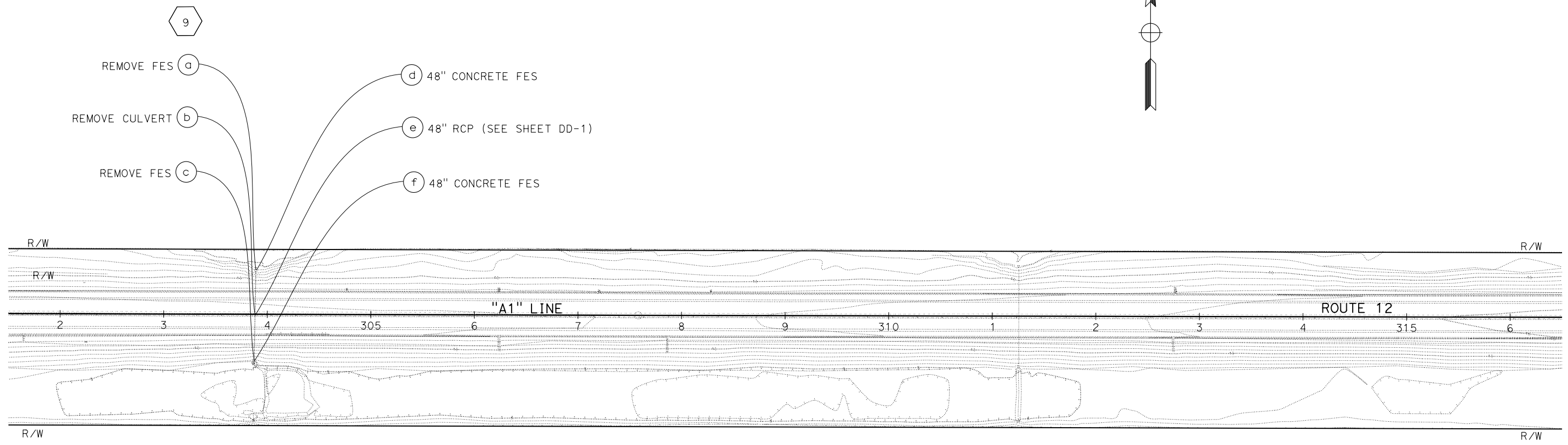
  

REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**  
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Y/N	2-16-23
REVISOR	DATE
JINPEI FENG	KHAI LEONG
CALCULATED/DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	TUNG LY
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	HYDRAULICS



**DRAINAGE PLAN**  
 SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET D-1

**D-7**

LAST REVISION DATE PLOTTED => 9-AUG-2023  
 07-17-23 TIME PLOTTED => 16:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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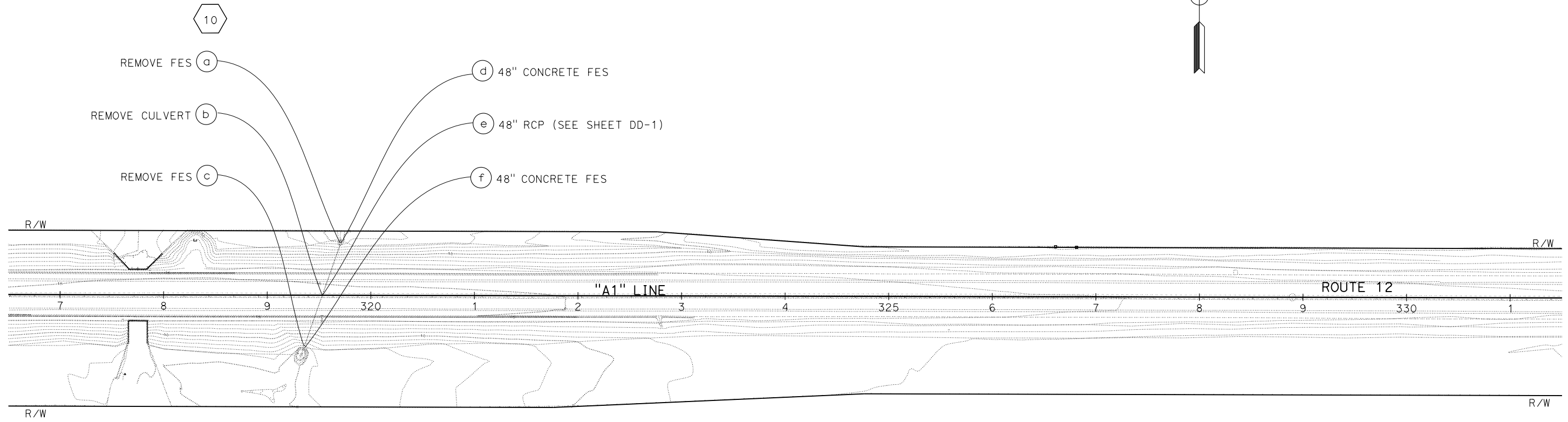
REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTE:**  
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DESIGNED BY	JINPEI FENG
CHECKED BY	KHAI LEONG
REVISIONS	YN 2-16-23
DATE	2-16-23
FUNCTIONAL SUPERVISOR	TUNG LY
DEPARTMENT OF TRANSPORTATION	HYDRAULICS



**DRAINAGE PLAN**  
SCALE: 1" = 50'

APPROVED FOR DRAINAGE WORK ONLY

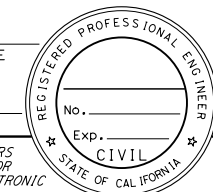
FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET D-1

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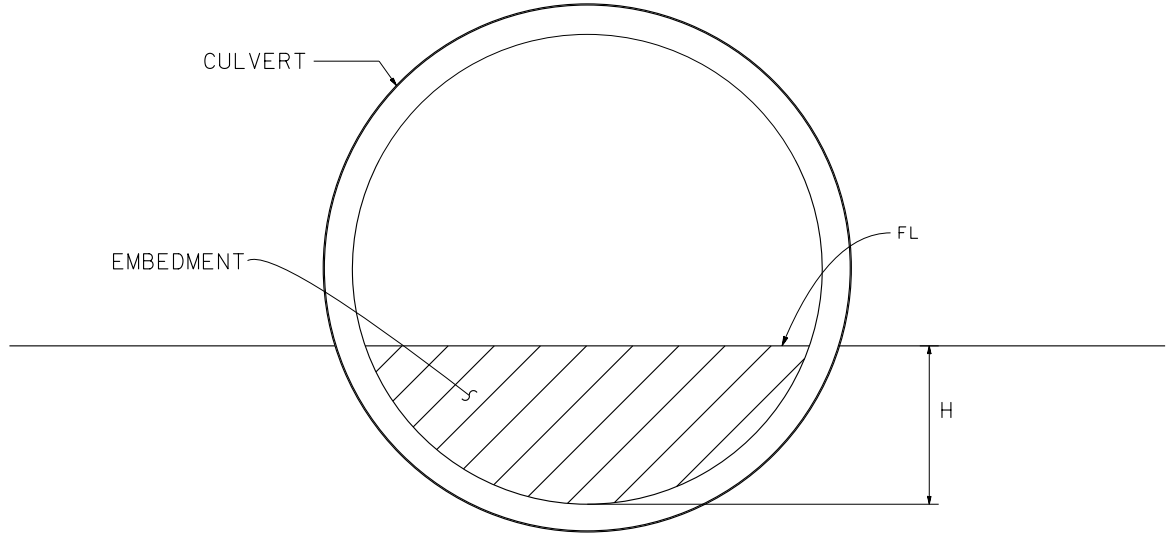
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SOL	12	7.7/14.1		XYZ

REGISTERED CIVIL ENGINEER DATE	
PLANS APPROVAL DATE	

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

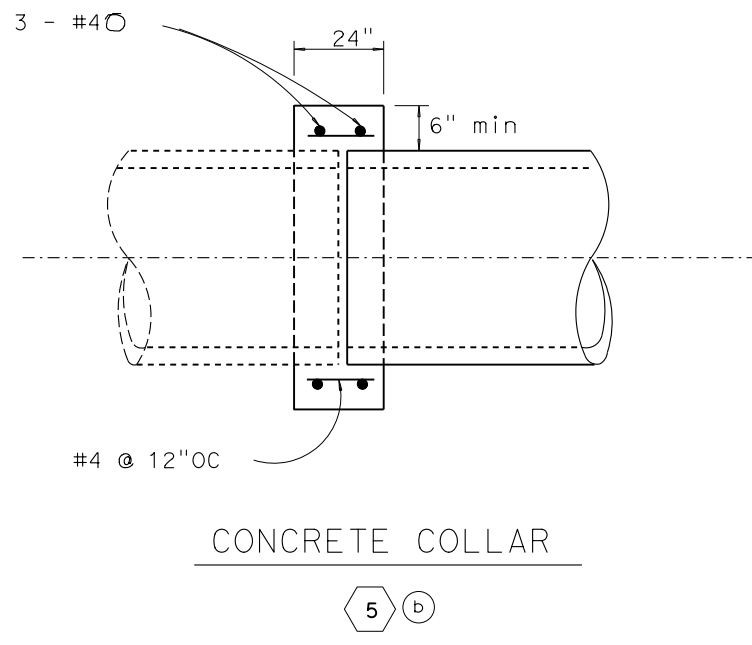
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR	DATE
<b>Caltrans</b>	TUNG LY	JINPEI FENG	YIN	2-16-23
HYDRAULICS		CHECKED BY	DATE REVISED	
		KHAI LEONG		



CULVERT WITH EMBEDMENT

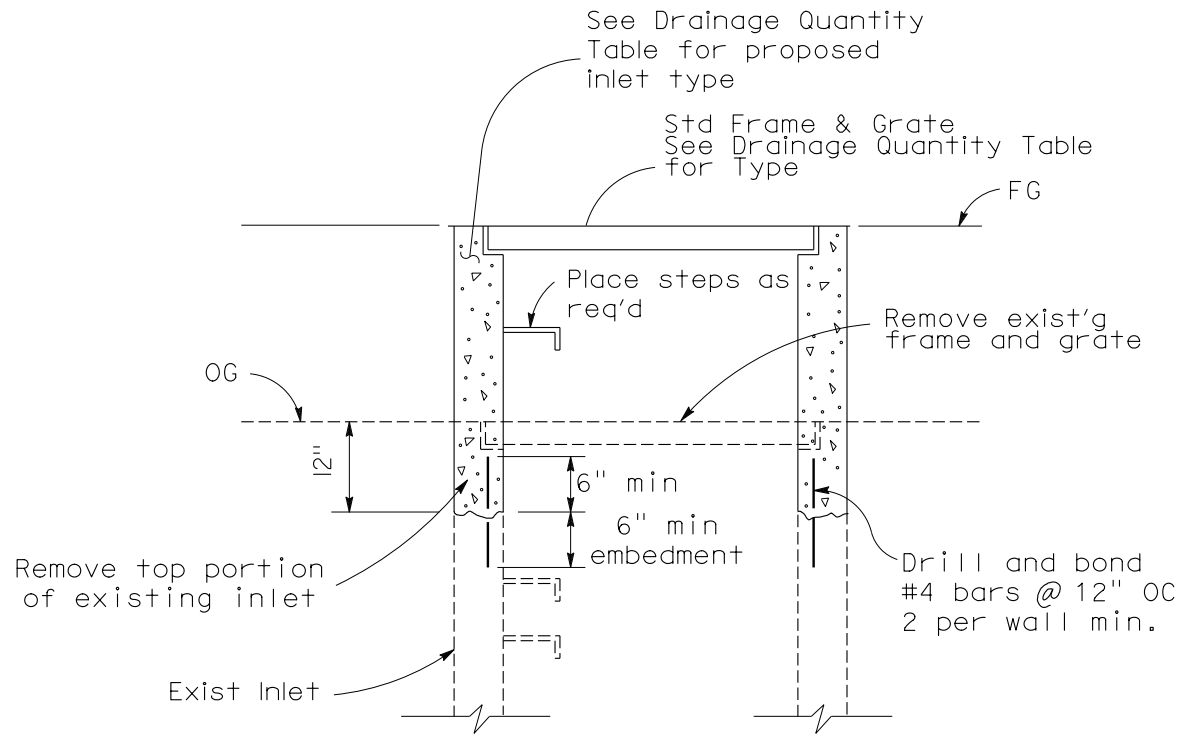
- 3 d
- 4 d
- 6 d
- 7 d
- 8 e
- 9 e
- 10 e

DRAINAGE SYSTEM	CULVERT DIAMETER (inch)	H (inch)
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">3</span> d	36	12
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">4</span> d <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">8</span> e <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">9</span> e <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">10</span> e	48	12
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</span> d <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</span> d	36	18



CONCRETE COLLAR

- 5 b



SECTIONAL VIEW

**ADJUST INLET TO GRADE**

- 11 a b c d

**DRAINAGE DETAILS**  
NO SCALE

**DD-1**

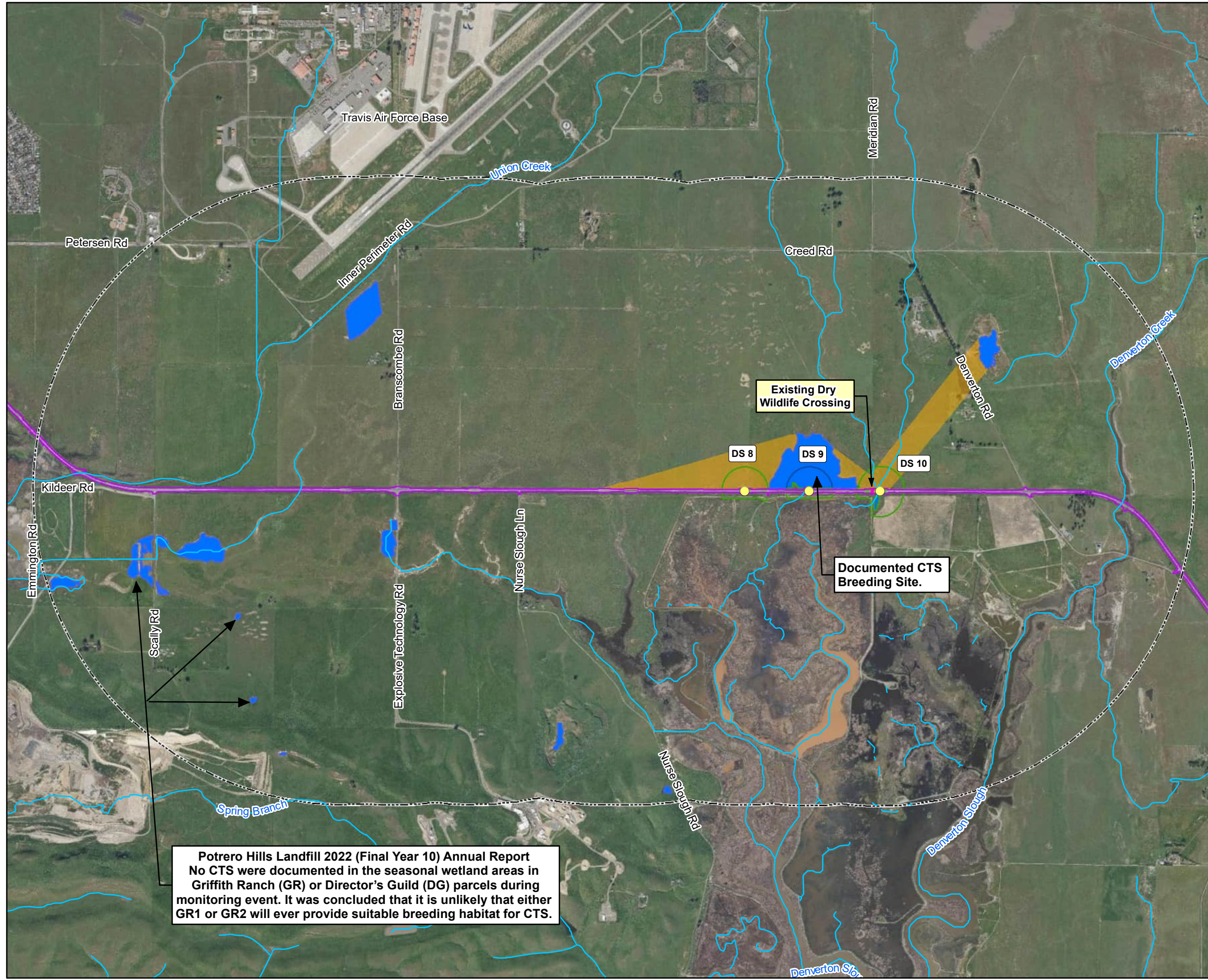
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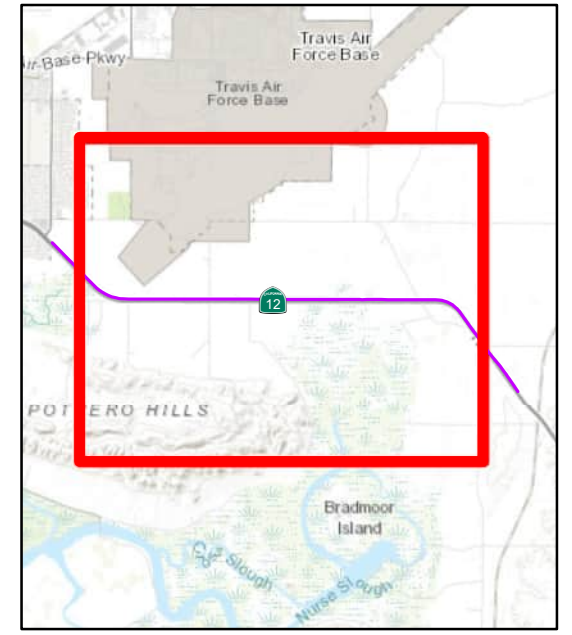
# Attachment 2    Connectivity Restoration Map

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**Potrero Hills Landfill 2022 (Final Year 10) Annual Report**  
 No CTS were documented in the seasonal wetland areas in Griffith Ranch (GR) or Director's Guild (DG) parcels during monitoring event. It was concluded that it is unlikely that either GR1 or GR2 will ever provide suitable breeding habitat for CTS.



**LEGEND**

- Project Footprint
- 1.3-mile Radius from Wildlife Crossing
- Existing Dry Wildlife Crossing
- Assumed Movement Corridors to Wildlife Crossings
- Wildlife Crossing

**CTS Habitat Enhancement**

**CTS Habitat within 1.3 miles of Proposed Wildlife Crossing**

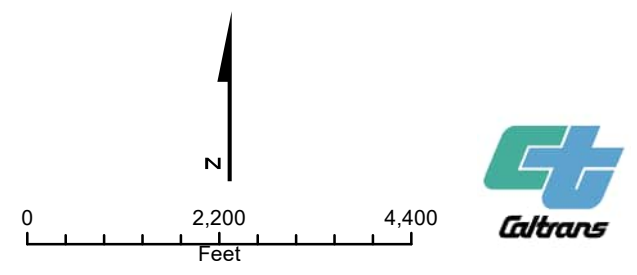
- Aquatic Habitat (77.26 acres)

**CTS Habitat within 500 feet of Proposed Wildlife Crossing**

- Aquatic Habitat
- Upland Habitat

**Imagery Source:**  
 ESRI, Solano County 2022

Wildlife Crossing locations are from  
 04-2Q5501\_Directional Structure\_08-21-23.dgn



**Connectivity Restoration Overview**  
 State Route 12  
 Major Pavement Rehabilitation Project  
 EA 04-2Q550, SOL-12-PM 7.7/14.1  
 Solano County, California



Department of Fish and Wildlife

**BIOLOGIST RESUME COVER SHEET**

Date XX.XX.2021

**EACH RESUME MUST BE SUBMITTED AS A SEPARATE FILE**

**Number of Resumes Included in Transmittal:**

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

<sup>1</sup> Requested roles correspond to the biological staffing requirements indicated in the Lake and Streambed Alteration (LSA) Agreement or 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 “Biological 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**

Date XX.XX.2021

**SECTION 1. NAME AND CONTACT INFORMATION**

<b>Name:</b>		<b>Title:</b>	
<b>Company Name &amp; Address:</b>		<b>Phone:</b>	
		<b>Email:</b>	

**SECTION 2. EDUCATION**

<b>College/University &amp; Degree Type Related to Natural Resource Science:</b>	
<b>Other Relevant Workshops &amp; Training:</b>	

**SECTION 3. ROLE(S) AND PERMIT REQUIREMENTS**

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

**SECTION 4. SPECIES AND RESOURCE EXPERIENCE – SUMMARY**

<b>LSA Agreement/ITP Special Status Species &amp; Other Sensitive Resources</b>				
<i>This section summarizes experience for species and other resource. Use one line for: 1) each species or other resource where surveys or special protections are required in the LSA Agreement/ITP for which the biologist is requesting approval.<sup>3</sup> If more space is needed, add rows to this table. Provide details in Section 5.</i>				
<b>Species or Resource</b>	<b>Number of Field Seasons &amp; Hours, Life Stages Observed</b> <i>Provide project details in Section 5</i>	<b>Life History Knowledge</b> <i>Describe formal workshops &amp; training with dates, or informal training details</i>	<b>CDFW SCP, MOU, &amp; USFWS 10a1a Authorization Number &amp; Authorized Activities</b> <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:
Insert Species or Resource 4	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 Biological 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.

**SECTION 5. SPECIES AND RESOURCE EXPERIENCE – DETAILS**

*This section provides detailed 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).*

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

<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 “biological 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> CNDDB is the abbreviation for California Natural Diversity Database.

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

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

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

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

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

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



## **MASTER FUNDING AGREEMENT**

This MASTER FUNDING AGREEMENT (AGREEMENT) is made by and between the California Department of Transportation (CALTRANS) and California Department of Fish and Wildlife (CDFW). CALTRANS and CDFW shall be collectively referred to herein as the "PARTIES" and individually as a "PARTY."

### **RECITALS**

1. CALTRANS intends to construct future transportation projects for the State Highway System (individually a "PROJECT" and collectively "PROJECTS"). Pursuant to California Fish and Game Code sections 2080.1 and 2081, CDFW can issue CALTRANS, respectively, a Consistency Determination or an Incidental Take Permit for CALTRANS PROJECTS. The Incidental Take Permit and/or Consistency Determination are hereinafter referred to individually as a "TAKE AUTHORIZATION" and collectively as "TAKE AUTHORIZATIONS."
2. CDFW's issuance of TAKE AUTHORIZATIONS for CALTRANS PROJECTS is conditioned on CALTRANS implementing certain mitigation and monitoring measures and requirements hereinafter referred to collectively as "MITIGATION REQUIREMENTS."
3. Unless CALTRANS satisfies the MITIGATION REQUIREMENTS prior to incurring impacts from a PROJECT, the TAKE AUTHORIZATIONS require that CALTRANS set aside funds to satisfy the cost CDFW has determined will be necessary to satisfy the MITIGATION REQUIREMENTS for the PROJECT, in the event of a default by CALTRANS. These funds shall be referred to herein as "SECURITY FUNDS."
4. As set forth in applicable TAKE AUTHORIZATIONS condition(s), CALTRANS is required to establish and maintain the SECURITY FUNDS in an amount, form, and manner acceptable to CDFW.
5. The PARTIES desire to enter into this AGREEMENT to establish the manner in which CALTRANS will maintain SECURITY FUNDS for the proper implementation and completion of MITIGATION REQUIREMENTS for CALTRANS PROJECTS. The specific purpose of and background for this AGREEMENT are included in the summary of CALTRANS' project programming and funding procedures set forth in Exhibit "A," attached hereto and incorporated herein by reference.

### **OPERATIVE PROVISIONS**

NOW THEREFORE, in consideration of the covenants and conditions set forth herein, the PARTIES agree as follows:

#### **1. Effective Date.**

This AGREEMENT is effective as of the date CALTRANS and CDFW have executed this AGREEMENT.

**2. Funding Memorandum**

As a condition to CDFW's issuance of a final TAKE AUTHORIZATION, CALTRANS will provide a completed Funding Memorandum to CDFW in the form of Exhibit "B," attached hereto and incorporated herein by reference, to document the manner in which CALTRANS will provide SECURITY FUNDS (the "FUNDING MEMORANDUM"). The FUNDING MEMORANDUM will include the following:

- A. The name of the project;
- B. A brief project description;
- C. The incidental take permit number or consistency determination number;
- D. The CALTRANS parent project expense authorization (EA) number;
- E. The CALTRANS child project EA (Child EA) number;
- F. The estimated costs of the MITIGATION REQUIREMENTS; and
- G. The total amount required for the SECURITY FUNDS
- H. Subject to the Budget Act provisions of this AGREEMENT, a statement that the funds have been budgeted, as well as allocated, and will not be re-allocated to another element of the PROJECTS, or to other PROJECTS, or for any other purpose.

**3. Process for CALTRANS SECURITY FUNDS.**

- A. In order to meet the SECURITY FUNDS requirement of the TAKE AUTHORIZATIONS, CALTRANS shall create and program a separate and unique project expense authorization identified as a "Child EA" which is more fully described in Exhibit "A." After the Child EA is established, CALTRANS will transfer the SECURITY FUNDS, once allocated for PROJECTS, to the Child EA.
- B. CALTRANS agrees to use the SECURITY FUNDS in the Child EA exclusively to satisfy MITIGATION REQUIREMENTS required by TAKE AUTHORIZATIONS.
- C. In the event CDFW determines that CALTRANS is not satisfying MITIGATION REQUIREMENTS, the PARTIES will resolve any issues through the internal dispute resolution process described in Exhibit "C," attached hereto and incorporated herein by reference.
- D. CDFW acknowledges and agrees that the provisions of this AGREEMENT constitute advance written approval of a security form by CDFW's Office of the General Counsel for all CALTRANS TAKE AUTHORIZATIONS statewide.
- E. If after exhausting the internal resolution process described in Exhibit "C." the PARTIES fail to resolve issues relating to MITIGATION REQUIREMENTS and SECURITY FUNDING, CDFW will notify CALTRANS, in writing, of its intent to obtain the unused remaining

SECURITY FUNDS, and CALTRANS shall take all necessary actions to transfer all remaining, unencumbered SECURITY FUNDS to CDFW within 45 days.

F. CDFW and CALTRANS will work together in good faith until MITIGATION REQUIREMENTS are completed. CALTRANS will follow processes described in Exhibit "A" to program additional funds, if needed, to complete MITIGATION REQUIREMENTS. In the event CDFW obtains the remaining unencumbered SECURITY FUNDS, pursuant to subsection E above, CALTRANS will work in good faith to provide CDFW with access to any mitigation lands within a CALTRANS right of way or otherwise under the control of CALTRANS, and to facilitate the timely completion of the MITIGATION REQUIREMENTS, and CDFW will work in good faith to obtain all necessary approvals from CALTRANS to access the mitigation lands and complete the MITIGATION REQUIREMENTS in accordance with CALTRANS policies and practices for its lands.

G. If CDFW obtains the remaining unencumbered SECURITY FUNDS, pursuant to subsection E above, and those funds are insufficient to complete the MITIGATION REQUIREMENTS, CALTRANS agrees to replenish the Child EA, and CDFW and CALTRANS agree to meet to identify appropriate sources of funding to replenish the Child EA for the timely completion of the MITIGATION REQUIREMENTS.

#### **4. Budget Contingency Clause**

The PARTIES mutually agree that if the Budget Act of the current year and/or any subsequent years covered under this AGREEMENT does not appropriate sufficient funds for the funding required under this AGREEMENT, this AGREEMENT shall be of no further force and effect. If funding for any fiscal year is reduced or deleted by the Budget Act for purposes of the FUNDING SECURITY, CALTRANS shall have the option to either terminate this AGREEMENT without liability or offer an AGREEMENT amendment to reflect the reduced amount. In addition, CALTRANS' obligations under this AGREEMENT are subject to Legislative appropriation and allocation by the California Transportation Commission (CTC).

In the event this AGREEMENT is terminated due to the Legislature's failure to appropriate sufficient funds or CALTRANS exercises its option to terminate this AGREEMENT after a reduction or deletion of funds, CALTRANS shall remain responsible for funding and completing the MITIGATION REQUIREMENTS, and CALTRANS and CDFW shall agree to meet and to work in good faith to identify appropriate sources of funding to complete the MITIGATION REQUIREMENTS.

#### **5. Termination**

Either PARTY may terminate this AGREEMENT upon sixty (60) days' prior written notice to the other PARTY. The PARTIES agree that, if this AGREEMENT is terminated for any reason, prior to the effective date of the termination CALTRANS shall provide alternative performance security to CDFW, in a form to be approved in advance in writing by CDFW's Office of General Counsel, for all PROJECTS for which the MITIGATION REQUIREMENTS have not been completed.

**6. Retention of Records/Audits**

The PARTIES shall maintain as public records all books, documents, papers, accounting records and other evidence pertaining to the performance of this AGREEMENT, including but not limited to, the costs of administering this AGREEMENT. The PARTIES shall make such materials available at their respective offices at all reasonable times and for three years from the date CALTRANS has satisfied its MITIGATION REQUIREMENTS and obligations under this AGREEMENT. The PARTIES, State Auditor, Federal Highway Administration, or any duly authorized representative of the Federal government having jurisdiction under Federal laws or regulations (including the basis of Federal funding in whole or in part), shall have access to any party's books, records, and documents that are pertinent for audits and examinations. Excerpts, transactions, and copies thereof shall be furnished upon request.

**7. Applicable laws.**

All applicable laws and regulations relating to the use of federal or state funds shall apply notwithstanding other provisions of this AGREEMENT.

**8. Amendments**

Except as provided in Section 14 regarding Notices, this AGREEMENT may only be amended by written agreement, executed by all PARTIES.

**9. Severability**

In case any part, term, portion, or provision of this AGREEMENT is or shall be invalid, illegal, or unenforceable, the remaining parts, terms, portions, and provisions shall remain in full force and effect.

**10. Miscellaneous**

Nothing within the provisions of this AGREEMENT is intended to create duties, or obligations to, or rights in third parties not a party to this AGREEMENT, or to affect the legal liability of either party to the AGREEMENT by imposing any standard of care different from the standard of care imposed by law.

**11. Entire Agreement**

This AGREEMENT reflects the entire AGREEMENT of the PARTIES with respect to the subject matter hereof and supersedes all prior or contemporaneous oral or written understandings, statements, representations, and promises.

**12. Authority**

Each of the PARTIES represents and warrants that each of the persons executing this AGREEMENT on its behalf has full and complete legal authority to do so and thereby binds the party to this AGREEMENT.

**13. Counterparts**

This AGREEMENT may be executed in one or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument. CDFW and CALTRANS agree that digital signatures are acceptable for execution of this AGREEMENT.

**14. Notices**

Notices made or required under this AGREEMENT shall be directed to the CALTRANS and CDFW representative as follows:

CDFW:

Chad Dibble, Deputy Director  
Ecosystem Conservation Division  
Department of Fish and Wildlife  
P.O. Box 944209  
Sacramento, CA 94244-2090  
916-653-6956  
chad.dibble@wildlife.ca.gov

CALTRANS:

Philip J. Stolarski, Chief  
Division of Environmental Analysis  
Department of Transportation  
1120 N St, MS 27  
Sacramento, CA 95814  
916-206-7254  
phil.stolarski@dot.ca.gov

The CALTRANS and CDFW representatives during the term of this AGREEMENT may be changed by advance written notice without the necessity of an amendment to this AGREEMENT.

15. Electronic Signatures.

Electronic signatures of the PARTIES, whether digital or encrypted, are intended to authenticate this AGREEMENT and shall have the same force and effect as manual signatures for this AGREEMENT.

“CALTRANS”

STATE OF CALIFORNIA

Department of Transportation

By:  \_\_\_\_\_

Director

“CDFW”

STATE OF CALIFORNIA

Department of Fish and Wildlife

By: See following page \_\_\_\_\_

Director

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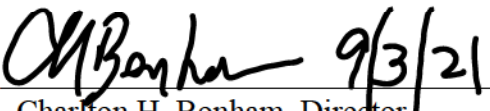
“CALTRANS”

STATE OF CALIFORNIA  
Department of Transportation

By: See prior page  
Toks Omishakin, Director

“CDFW”

STATE OF CALIFORNIA  
Department of Fish and Wildlife

By:  9/3/21  
Charlton H. Bonham, Director

## **EXHIBIT A TO MASTER FUNDING AGREEMENT**

### **CALTRANS PROJECT PROGRAMMING AND FUNDING PROCEDURES**

All PROJECTS begin by CALTRANS preparing a Project Initiation Document (PID) that contains a purpose and need statement, defined project scope, capital and support cost estimate for each alternative, and project work-schedule. The cost estimate includes the projected costs of environmental studies, mitigation, and monitoring to meet anticipated MITIGATION REQUIREMENTS. The California Transportation Commission (CTC) then allocates project environmental analysis and preliminary project design funds based upon the project scope and cost estimates in the PID, including costs for anticipated MITIGATION REQUIREMENTS. CALTRANS can then allocate the CTC-approved funds into a programmed Expense Authorization (EA). MITIGATION REQUIREMENTS cost estimates in the PID are preliminary and subject to change, as a project's impacts and required mitigation are not definite until completion of subsequent engineered designs, environmental studies, and consultation with CDFW and other state and federal resource agencies.

The next phase of PROJECTS is the Project Approval and Environmental Document (PA&ED) component in which a Final Project Report and Final Environmental Document are completed. During this phase, CALTRANS studies each alternative and develops appropriate mitigation in consultation with both federal and state resource agencies, including CDFW, to maximize avoidance and minimization and identify effective mitigation. This process and its results are documented in the Final Environmental Document and incorporated into the Project Report. By signing the Final Project Report, the CALTRANS District Director establishes the full project description which integrates the mitigation measures as a commitment of the overall project and verifies that the resources necessary to complete the project and MITIGATION REQUIREMENTS are included in the estimated project costs. The CTC then allocates the appropriate funding for the final design and construction of the project based on the Final Environmental Document and the Final Project Report. Before allocating the funds, however, the CTC determines that the project meets its stated purpose and need and that the funds are sufficient to complete the project, including all commitments for avoidance, minimization, mitigation, and monitoring. These funds are then allocated for the anticipated programming/construction year.

The next phase for PROJECTS in the CALTRANS project development process is the preparation of plans, specifications and estimates (PS&E) necessary for the bidding process. The PS&E package is premised on the decisions and commitments in the Final Environmental Document and Final Project Report. At the completion of the PS&E phase, and prior to listing the contract for bid, the CALTRANS District Environmental Division Chief certifies that the PS&E package incorporates all environmental commitments. At that time, an Environmental Commitment Tracking Record is created to verify compliance with the environmental commitments throughout the life of the project.

As PROJECTS develop and are further evaluated during the PA&ED and PS&E phases, a decision is made regarding whether PROJECTS will result in the take of CESA-listed or candidate species. Plans to avoid, minimize, mitigate, and monitor the CESA-listed species impacts are made through early coordination with CDFW. CALTRANS and CDFW staff determine the preferred mitigation and CALTRANS may include this as a proposal to CDFW in its TAKE AUTHORIZATIONS applications or within the federal ESA consultation for take authorization to be used with TAKE AUTHORIZATIONS. The final project avoidance, minimization, and MITIGATION REQUIREMENTS and SECURITY FUNDS requirements are then delivered in the TAKE AUTHORIZATIONS by CDFW or within the federal ESA take authorization to be used for TAKE AUTHORIZATIONS.

CALTRANS is committed to fulfilling environmental commitments for PROJECTS. This includes programming sufficient resources to meet MITIGATION REQUIREMENTS. MITIGATION REQUIREMENTS may be encountered prior to impacts of CESA-listed species, concurrently with, or beyond project construction within the State's right-of-way or located outside the State's right-of-way.

With approval from the CTC, CALTRANS can apportion funding from a parent project EA and program into a new EA, referred to for accounting purposes as a "Child EA." The Child EA is used for mitigation efforts that require work after CALTRANS has accepted the contract and construction work. The Child EA is programmed to maintain adequate funding for all mitigation acquisition, construction, monitoring, maintenance, and adaptive management activities under TAKE AUTHORIZATIONS issued for the parent project. The unique Child EA establishes a dedicated fund to cover the cost of MITIGATION REQUIREMENTS that extend beyond project completion and acceptance and until CDFW has determined CALTRANS has satisfied the MITIGATION REQUIREMENTS.

When programming and/or funding adjustments are necessary during the life of PROJECTS, the project change control process must be followed by CALTRANS. A request for change is reviewed by CALTRANS Headquarters Management, including the Environmental Division Chief, for consistency with environmental commitments. If the proposed change request includes changing environmental commitments, it must be documented with the consultation and concurrence of the applicable resource agencies, and, if necessary, additional environmental studies and documentation. The changes to project budgets created by the project change control process and the creation and programming of a Child EA must be approved by the CTC.

At the construction phase of PROJECTS, the Resident Engineer monitors the progress of the project including compliance with environmental commitments. Prior to the closure of PROJECTS, the Project Manager with assistance from the district Environmental Construction Liaison reviews all aspects of the PROJECTS for compliance with MITIGATION REQUIREMENTS for TAKE AUTHORIZATIONS. After closure of the primary construction phase of PROJECTS, funding within a Child EA



ensures additional work to complete MITIGATION REQUIREMENTS exists beyond the life of the primary construction contract.

If CDFW has determined that CALTRANS has not met its MITIGATION REQUIREMENTS for TAKE AUTHORIZATIONS, the PARTIES shall use the internal resolution process described in Exhibit "C."

## EXHIBIT B TO MASTER FUNDING AGREEMENT

### FUNDING MEMORANDUM

1. Name of Project:
2. Brief Description of the Project:
3. Incidental Take Permit Number or Consistency Determination Number:
4. CALTRANS parent project EA and program funding source:
5. CALTRANS Child EA and program funding source:
6. Estimated costs of Mitigation (including monitoring):
7. Total amount for security (combined total of estimated costs of Mitigation and Monitoring):

The funds for this project have been currently budgeted and allocated, for the project as described above. The funds that have been allocated for mitigation and monitoring will not be re-allocated to another element of the project or expended for any purpose other than completing the mitigation and monitoring requirements.

Signature \_\_\_\_\_

Date \_\_\_\_\_

**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.

**EXHIBIT C TO MASTER FUNDING AGREEMENT  
INTERNAL DISPUTE RESOLUTION PROCESS**

If at any time CDFW determines that Caltrans is not meeting its MITIGATION REQUIREMENTS for TAKE AUTHORIZATIONS, the PARTIES shall use the following process for resolution.

<b>Stage</b>	<b>Caltrans Staff Title</b>	<b>DFW Staff Title</b>	<b>Duration of stage</b>
1	District Assoc./Environmental Planner (NS)	Senior Environmental Scientist	10 working days
2	District Senior Environmental Planer	Senior ES (Supervisory)	10 working days
3	District Supervisory EP	Environmental Program Manager	10 working days
4	District Principal TP/Deputy Env. Planner	Regional Manager	10 working days
5	District Director/ HQ Environmental Division Chief	HQ Deputy Director for Ecosystem Conservation	10 working days
6	Director	Director	10 working days

At each stage, if the PARTIES reach an impasse and cannot resolve the disputed issue, they will document the issue(s) needing resolution and the reasons for the impasse and notify the group in the next stage of ladder. At each stage of the resolution process, all PARTIES will seek to reach agreement within 10 working days or prepare information for the next stage of resolution until the matter is resolved.