



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

California Endangered Species Act  
 Incidental Take Permit No. 2081-2024-073-05

**PALMDALE DITCH CONVERSION PROJECT**

**I. Authority:**

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

|                           |                                                |
|---------------------------|------------------------------------------------|
| <b>Permittee:</b>         | <b>Palmdale Water District</b>                 |
| <b>Principal Officer:</b> | <b>Scott Rogers, Assistant General Manager</b> |
| <b>Contact Person:</b>    | <b>Scott Rogers, Assistant General Manager</b> |
| <b>Mailing Address:</b>   | <b>2029 E Ave Q<br/>Palmdale, CA 93550</b>     |
| <b>Telephone:</b>         | <b>(661) 456-1020</b>                          |
| <b>Email:</b>             | <b>srogers@palmdalewater.org</b>               |

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

This ITP is effective as of the date signed by CDFW below. Unless renewed by CDFW, this ITP and its authorization to take the Covered Species shall expire on **September 1, 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 6.6 of this ITP.

<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.

### **III. Project Location:**

The Palmdale Ditch is approximately 8.5 miles long and conveys water from Littlerock Reservoir to Lake Palmdale in Palmdale, Los Angeles County, California (See Appendix A: Figure 1). The Palmdale Ditch Conversion Project (Project) is specific to the northernmost section of ditch that runs 4.2 miles from Lake Palmdale to 47<sup>th</sup> Street East in unincorporated Los Angeles County (See Appendix A: Figures 2-11).

The Project includes two discontinuous work areas. The primary work area covers approximately 4.1 miles of continuous ditch from 47th Street East to the Los Angeles County Metropolitan Transportation Authority rail tracks. The secondary work area covers approximately 0.1 mile of the existing ditch where it outfalls into Lake Palmdale. These two work areas are connected by a segment of an existing underground pipeline. The underground section of the pipeline is not included in this permit. The western end of the Project is located 0.75 miles east of Highway 14 at approximately 34.539424°, -118.105437°. The eastern end of the Project is located approximately 1.6 miles south of Pearblossom Hwy 138 at 34.519550°, -118.045344°. The Project site is bounded by Highway 14 to the west and Pearblossom Highway 138 to the east.

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

The Project includes the conversion and partial realignment of 4.2 miles of open ditch to an underground pipeline. The entire Project area encompasses approximately 49.96 acres and includes the existing ditch, access roads, staging areas, paved roads, and a variable width buffer ranging from 50 to 275 feet wide, as defined in Appendix A: Figures 2-11. Project activities include temporary site access, staging, stockpiling, clearing/grubbing, demolition, excavation, pipeline installation, pipeline realignment, paving, and site restoration. Within the defined Project area, approximately 36.92 acres are identified as suitable habitat for Crotch's bumble bee (See Appendix A: Figures 2-11). These areas will be subject to revegetation and habitat restoration for CDFW approval as detailed below.

#### **Construction Components**

##### *Mobilization*

Mobilization involves the transportation and placement of construction equipment and materials within the staging and laydown areas in the Project site.

##### *Clearing and grubbing*

Clearing and grubbing includes surveying the Project site, installing boundary fencing along the Project site perimeter, stripping and stockpiling topsoil, and creating access roads.

##### *Demolition*

Demolition activities will include removal or modification of existing 48-inch culverts within both City and County roadways, portions of headwalls, bridges, flumes, tunnels, and stormwater overcrossings.

Incidental Take Permit  
No. 2081-2024-073-05  
**PALMDALE WATER DISTRICT**  
**PALMDALE DITCH CONVERSION PROJECT**

These modifications are required to facilitate pipeline installation, manhole construction, and tie-ins. Demolition areas are shown in Appendix B:

### *Pipeline Installation/Realignment*

After clearing and grubbing, and in conjunction with demolition, installation of the new pipeline will be placed in the same alignment as the existing ditch. In both soft bottom ditch and concrete ditch areas, the new pipeline will be placed within the existing ditch footprint and backfilled with a mixture of fill. Native material for the top six inches of soil.

In areas requiring realignment, the new route will be excavated, and the pipeline will be placed at the bottom of the excavated trench. Trenches will be backfilled with a mixture of fill material, with native soil used for the top six inches. The old existing ditch route will be abandoned in place as is (Appendix A: Figures 4-6, 9-11).

In specific sections, such as under existing bridges or through tunnels, the pipeline will be installed by slip lining. Slip lining is a trenchless method that allows the insertion of a smaller-diameter pipeline into an existing larger conduit, minimizing surface disruption (Appendix A: Figure 6,8). Pipeline construction is anticipated to progress at a rate of approximately 200 linear feet per day, with work occurring at multiple segments simultaneously. Pipeline installation will be completed by early March 2026.

### *Roads*

In areas where the pipeline crosses access or paved roads, roads will be excavated to allow for installation, then restored to their original condition post-construction.

### *Access routes, Stockpiling, Staging, etc.*

Construction equipment and materials staging, stockpile areas, and construction worker parking areas will occur within the defined Project area identified in Appendix C. Existing roadways will be used for access where possible.

### *Schedule*

Construction activities will occur on Monday through Friday during work hours allowed by local ordinances. Nighttime construction is not allowed unless otherwise approved by CDFW. Project construction activities near Lake Palmdale will be scheduled to avoid any work within 500 feet of suitable tricolored blackbird (*Agelaius tricolor*) habitat from mid-March through June.

### Revegetation

Following construction, the Project will restore 39.24 acres of temporary impacts within the Project area. This includes 36.92 acres of revegetation and 2.32 acres of native habitat creation on site.

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

This ITP covers the following species:

| <u>Name</u>                                       | <u>CESA Status</u> <sup>3</sup> |
|---------------------------------------------------|---------------------------------|
| 1. Crotch’s bumble bee ( <i>Bombus crotchii</i> ) | Candidate <sup>4</sup>          |

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 preparing the area for construction; clearing and removing vegetation; grading; excavating; demolition; handling of stockpiles and stored materials; compacting soils; trenching; backfilling; staging and operating heavy equipment; constructing and paving roads; pouring concrete; vehicle and foot traffic; and habitat creation, restoration, and monitoring (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 striking, burying, suffocating, crushing, entombing, and destroying individuals of the Covered Species, including nesting colonies and overwintering queens, during vegetation removal and earth work (grading, excavating, blasting, placing spoils and/or fill materials); and striking individuals of the Covered Species during operation of power tools (direct contact with sharp objects and/or blunt-force trauma). Incidental take of individuals of the Covered Species may also occur from the Covered Activities in the form of degrading, removing, or burning (as a result of fire sparked by demolition or operating machinery) nesting or foraging habitat; pursuing, catching, capturing, or attempting to do so when individuals of the Covered Species are collected for identification or relocated out of harm’s way; and disturbing habitat while conducting habitat creation, restoration, maintenance, and monitoring activities. The areas where authorized take of the Covered Species is expected to occur include the 49.96 acres of construction and restoration area (collectively, the Project Area).

The Project is expected to cause the temporary loss of **36.92 acres** of habitat for the Covered Species consisting of 16.36 acres of California Juniper Woodland (*Juniperus californica*), 7.89 acres of Big Sagebrush Scrub (*Artemisia tridentata*), 5.22 acres of Rubber Rabbitbrush Scrub (*Ericameria nauseosa*), 4.85 acres of Big Sagebrush – Rubber Rabbitbrush Scrub (*Artemisia tridentata*, *Ericameria nauseosa*), 1.66 acres of Fremont Cottonwood Forest and Woodland (*Populus fremontii* - *Fraxinus*

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

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

*velutina - Salix gooddingii*), 0.74 acres of California Sycamore – Red Willow/Arroyo Willow – Mulefat Scrub (*Platanus racemosa*, *Salix laevigata*, *Salix lasiolepis*, *Baccharis salicifolia*), 0.11 acres of California Buckwheat Scrub (*Eriogonum fasciculatum*), 0.07 acres of Sandbar Willow / Mesic Graminoids Thickets (*Salix exigua* etc. ), 0.01 acres of Tournefort's Mustard Patches (*Brassica tournefortii*), and less than 0.01 acres of Fourwing Saltbush Scrub (*Atriplex canescens*). 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 causing stress and disorientation to individuals of the Covered Species resulting from noise, ground vibrations, capture and relocation, and dust; loss or decline of foraging, nesting, and overwintering habitat resulting from introduction or spread of invasive species; decreased food supply through changes in composition of floral nectar resources or prey abundance (starvation); increased vulnerability to predation; exposure to contaminants and hazardous materials (herbicides, pesticides, vehicle and equipment fuels and fluids); exposure to pathogens through introduction of contaminated water; and long-term effects due to displacement from preferred habitat, barriers and increased travel distance to foraging, nesting, and overwintering habitat (decreased reproductive output, energetic expenses, exposure to predation and elements), changes in drainage patterns that favor different vegetative growth, increased pollution, and increased competition for food and space. Individuals of the Covered Species displaced from the Project Area due to habitat loss and degradation may be unable to survive in adjacent areas if these areas are at carrying capacity or are unsuitable for colonization.

#### **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 salvage, capture for identification, 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.

Incidental Take Permit  
No. 2081-2024-073-05  
**PALMDALE WATER DISTRICT**  
**PALMDALE DITCH CONVERSION PROJECT**

- 2. CEQA Compliance:** Permittee shall implement and adhere to the mitigation measures related to the Covered Species in the Biological Resources section of the Environmental Impact Report (SCH No.: 2023080290) certified by Palmdale Water District on December 16, 2024, 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 Notification (No. EPIMS-LAN-56772-R5) for the Project as accepted by CDFW pursuant to Fish and Game Code section 1600 et seq.
- 4. ITP Time Frame Compliance:** Permittee shall fully implement and adhere to the conditions of this ITP within the time frames set forth below and as set forth in the Mitigation Monitoring and Reporting Program (MMRP), which is included as Attachment 1 to this ITP.
- 5. General Provisions:**
  - 5.1. Designated Representative.** Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with this ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of this ITP.
  - 5.2. Designated Biologists.** Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of the Designated Biologist(s) using the Biologist Resume Form (Attachment 2) or another format containing the same information at least 30 days before starting Covered Activities. Permittee shall ensure that the Designated Biologist(s) are knowledgeable and experienced in the biology, natural history, collecting and handling of the Covered Species, as well as knowledgeable in the biology of other co-occurring bumble bee species. The Designated Biologist(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) in writing before starting Covered Activities and shall also obtain approval in advance, in writing, if the Designated Biologist(s) must be changed.
  - 5.3. 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.

Incidental Take Permit  
No. 2081-2024-073-05  
**PALMDALE WATER DISTRICT**  
**PALMDALE DITCH CONVERSION PROJECT**

If the Designated Biologist is unable to comply with the ITP, then the Designated Biologist shall notify the CDFW Representative immediately (see Condition of Approval 6.2). 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.

- 5.4. 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, general identification and how to distinguish bumble bees versus other flying insects, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and Project-specific protective measures described in this ITP. Permittee shall 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.
- 5.5. Construction Monitoring Documentation. The Designated Biologist 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.
- 5.6. Trash Abatement. Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed, ideally at daily intervals but at least once a week, to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.
- 5.7. Dust Control. Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist.

Permittee shall keep the amount of water used to the minimum amount needed and shall not allow water to form puddles.

- 5.8.** 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.
- 5.9.** 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.
- 5.10.** 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.
- 5.11.** 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 in 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 15 miles per hour to avoid Covered Species on 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.
- 5.12.** 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 5.11 of this ITP.
- 5.13.** 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.
- 5.14.** CDFW Access. Permittee shall provide CDFW staff with reasonable access to the Project and mitigation lands under Permittee control and shall otherwise fully cooperate with CDFW

Incidental Take Permit  
No. 2081-2024-073-05  
PALMDALE WATER DISTRICT  
PALMDALE DITCH CONVERSION PROJECT

efforts to verify compliance with, or effectiveness of, mitigation measures set forth in this ITP.

- 5.15. 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.

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

- 6.1. 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.
- 6.2. 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.
- 6.3. Compliance Monitoring.** The Designated Biologist shall be on-site daily when Covered Activities occur. 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 inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by this ITP.

During periods of inactivity or after vegetation clearing and grading have been completed, compliance inspections by the Designated Biologist may be reduced to a minimum of one day per week only after Permittee obtains written approval from CDFW. Permittee shall immediately resume daily compliance inspections if the Designated Biologist or CDFW finds the Permittee is out of compliance with any Conditions of Approval of this ITP, upon

written notification from CDFW, and/or if the Covered Species, including nests or overwintering queens, are suspected or confirmed in the Project Area.

- 6.4.** Monthly Compliance Report. The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 6.3 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 Andrew Aitken ([Andrew.Aitken@wildlife.ca.gov](mailto:Andrew.Aitken@wildlife.ca.gov) and copy [R5CESA@wildlife.ca.gov](mailto:R5CESA@wildlife.ca.gov)) and Headquarters CESA Program email is [CESA@wildlife.ca.gov](mailto:CESA@wildlife.ca.gov). CDFW may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permittee in writing of the new reporting schedule.
- 6.5.** 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 6.4; (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.
- 6.6.** Final Mitigation Report. No later than 45 days after completion of all mitigation measures, Permittee shall provide CDFW with a Final Mitigation Report. The Designated Biologist 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

Incidental Take Permit  
No. 2081-2024-073-05  
PALMDALE WATER DISTRICT  
PALMDALE DITCH CONVERSION PROJECT

effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.

**6.7.** 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.

**6.8.** Notification of Take or Injury Permittee shall immediately notify the Designated Biologist if a Covered Species is taken or injured by a Project-related activity, or if a Covered Species is otherwise found dead or injured within the vicinity of the Project. The Designated Biologist or Designated Representative shall provide initial notification to CDFW's Regional Representative ([Andrew.Aitken@wildlife.ca.gov](mailto:Andrew.Aitken@wildlife.ca.gov) and copy [R5CESA@wildlife.ca.gov](mailto:R5CESA@wildlife.ca.gov)) and by calling the Regional Representative at (562) 525-9688. The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured and the ITP Number. Following initial notification, Permittee shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, GPS location (including GPS error estimated in feet and datum) of the Covered Species, and if possible, photographs of the location and the Covered Species, explanation as to cause of take or injury, and any other pertinent information.

**6.8.1.** Covered Species Salvage. If a Covered Species is found deceased, the Designated Biologist shall salvage, photograph, and place the carcass in a labeled, clean Ziplock bag or vial and store it in a freezer. The label shall include a unique identifier (collection number), species name, time and date of collection, collection location, GPS location (including datum and horizontal error in feet), circumstances surrounding death (if known), collector name and contact information (phone number or email), and ITP Number. The Designated Biologist shall deliver the carcass (on dry ice if possible) to the following address and notify CDFW's Regional Representative at the time of shipping:

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

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

Incidental Take Permit  
No. 2081-2024-073-05  
PALMDALE WATER DISTRICT  
PALMDALE DITCH CONVERSION PROJECT

- 7.1.**     Timing of Vegetation Removal. Permittee shall remove vegetation after plants have stopped blooming in the fall and outside of the Colony Active Period (February 1 through August 31), to the maximum extent feasible. Permittee shall set mower blade heights no lower than 4 inches, unless otherwise approved by CDFW in writing.
- 7.2.**     Daily Work Area Coverage. Permittee shall ensure that each daily work area is adequately covered by a Designated Biologist. Permittee shall proceed with Covered Activities in a systematic manner to facilitate the Designated Biologist(s) in performing surveys required by Condition of Approval 7.5 and 7.6. If there are multiple, separate work areas on a given workday, Permittee shall provide a Designated Biologist for each separate work area.
- 7.3.**     Immediately Stop Covered Activities. Permittee shall immediately stop all Covered Activities in the vicinity where Covered Species is found, and notify the Designated Biologist and CDFW's Regional Representative ([Andrew.Aitken@wildlife.ca.gov](mailto:Andrew.Aitken@wildlife.ca.gov) and copy [R5CESA@wildlife.ca.gov](mailto:R5CESA@wildlife.ca.gov)) if a Covered Species is taken, needs to be relocated, or injured by a Project-related activity, or if a Covered Species is otherwise found dead or injured.
- 7.4.**     Overwintering Season. During Covered Activities occurring during the Overwintering Season (November 1 through January 31), the Designated Biologist shall walk ahead of grading and vegetation removal equipment and look for potential hibernacula such as leaf litter, logs, and rodent burrows.

  - 7.4.1.**     Overwintering Site Buffer. If any overwintering Covered Species are found during Covered Activities, the Permittee, in consultation with the Designated Biologist, shall immediately stop and prohibit all Covered Activities within 50 feet of the queen Covered Species individual and hibernaculum. Permittee shall delineate the 50-foot buffer and notify all workers not to enter the environmentally sensitive area. If an overwintering queen is exposed, the Designated Biologist shall cover and protect the queen bumble bee by the substrate it was found in/under and return any materials removed during surveys (e.g., grass, vegetation, bark, and debris) to re-create pre-disturbed conditions. The Designated Representative or Designated Biologist shall contact CDFW's Regional Representative within 24 hours for further consultation. The Designated Biologist shall record the queen's location with a GPS (including datum and horizontal accuracy in feet) and include photographs and a map of the queen's location as part of notification to CDFW's Regional Representative. Permittee shall increase the size and/or modify the environmentally sensitive area buffer upon notice from CDFW. Permittee shall maintain buffers until further instructions from CDFW's Regional Representative.
- 7.5.**     Nesting Season - Covered Species Pre-Construction Surveys. Prior to Covered Activities occurring during the Colony Active Period (February 1 through August 31), the Designated Biologist shall search for the Covered Species through an area planned for Covered

Incidental Take Permit  
No. 2081-2024-073-05  
PALMDALE WATER DISTRICT  
PALMDALE DITCH CONVERSION PROJECT

Activities. The Designated Biologist shall perform two (2) visual surveys consisting of meandering transects no more than 10 days prior to the commencement of Covered Activities in that area. The Designated Biologist shall conduct surveys at least four (4) days apart with the second survey occurring within two (2) days prior to starting Covered Activities in that area. The Designated Biologist shall focus attention on areas with blooming native and non-native nectar and pollen resources for the Covered Species. The survey duration shall be appropriate to the size of the area planned for Covered Activities plus 50 feet based on the metric of a minimum of one (1) person-hour of searching per three (3) acres of suitable habitat. The Designated Biologist shall conduct surveys between 8:00 AM and 4:00 PM (Pacific Standard Time) on sunny days between 55- and 90-degrees Fahrenheit with sustained wind speeds measuring less than 10 miles per hour. If the Covered Species is detected or suspected during surveys, the Designated Biologist shall flag the area where the observation was made and closely monitor the areas that were flagged during Covered Activities.

- 7.5.1. Locating Nests.** The Designated Biologist shall make every effort to locate nests if the Covered Species is suspected or confirmed within the Project Area. The Designated Biologist shall observe any ground animal burrow entrances for signs of the Covered Species. To confirm a suspected Covered Species nest, the Designated Biologist may block/cover any burrow entrance with a jar/vial (or similar) of appropriate size for no more than 30 minutes or until a bumble bee is detected. The Designated Biologist shall also observe bunch grasses, thatched annual grasses, brush piles, old bird nests, dead trees, or hollow logs to determine if a potential nest could be present. The Designated Biologist shall identify the species of bumble bee if a bumble bee is detected.
- 7.5.2. Nest Buffer.** If a Covered Species nest is detected or suspected, the Permittee, in consultation with the Designated Biologist, shall prohibit or immediately stop all Project Activities within 50 feet of the nest. Permittee shall delineate the 50-foot buffer and notify all workers not to enter the environmentally sensitive area. The Designated Representative or Designated Biologist shall contact CDFW's Regional Representative within 24 hours for further consultation (see Condition of Approval 6.4). The Designated Biologist shall record the nest location with a GPS (including datum and horizontal accuracy in feet) and include photographs and a map of the nest location as part of notification to CDFW's Regional Representative. Permittee shall increase the size and/or modify the environmentally sensitive area buffer upon notice from CDFW. Permittee shall maintain buffers until further instructions from CDFW's Regional Representative.
- 7.5.3. Repeat Surveys Following Periods of Inactivity.** If Covered Activities are suspended for longer than three days during the Queen Flight Season (February 1 through March 31), the Designated Biologist shall perform one visual survey when survey

conditions are met (see Condition of Approval 7.5) prior to re-starting Covered Activities.

- 7.6. Nesting Season - Daily Visual Sweeps. The Designated Biologist shall conduct daily visual sweeps of the Project Area for Covered Species at the start of daily work and throughout the daily workday. The Designated Biologist shall intermittently repeat visual sweeps throughout the daily work window because the Covered Species is unlikely to be active before the start of daily Covered Activities that initiate prior to 8:00 AM. If the Covered Species is detected or suspected, the Designated Biologist shall follow requirements under Condition of Approval 7.5.1 and 7.5.2. After initial vegetation clearing has been completed, the frequency of daily visual sweeps may be modified after Permittee consults with and obtains written approval from CDFW.
- 7.7. Weed Management Plan. Permittee shall submit to CDFW for its review and approval a Weed Management Plan (WMP Plan) before starting Covered Activities. The WMP Plan shall include measures to ensure that non-native invasive plant species do not become established within or adjacent to the Project Area or proliferate as a result of Covered Activities. The WMP Plan shall address non-native plants within and adjacent to the Project Area during construction and post-construction. The WMP shall also address Covered Species habitat. The WMP shall prohibit the establishment of any plant listed on the California Invasive Plant Council's (Cal-IPC) [Invasive Plant Inventory](#) (High, Moderate, Limited, and Watch lists). The WMP Plan shall address sources of non-native plant introduction and establishment; measures to minimize the potential of non-native plant spread and/or proliferate in the Project Area and adjacent to the Project Area; management of stockpiles; identification/Early Detection Rapid Response; and methods to eradicate nonnative plants prior to seed set. Prevention Best Management Practices and guidelines for invasive plants can be found on Cal-IPC's [Prevention](#) webpage and Cal-IPC's [Preventing the Spread of Invasive Plants: Best Management Practices for Land Managers](#).
- 7.8. Pesticide Use. Permittee shall not use pesticides such as herbicides, insecticides, or rodenticides within the Project Area. If pesticides must be used, including for habitat creation and restoration, Permittee shall consult with CDFW and may only use pesticides upon CDFW's written approval (see Condition of Approval 7.10 below).
- 7.9. Pesticide Use Plan. If pesticide use is approved by CDFW, Permittee shall submit to CDFW for its review and approval a Pesticide Use Plan to Avoid and Minimize Impacts to Crotch's Bumble Bee (Pesticide Use Plan). The Pesticide Use Plan shall describe Best Management Practices to avoid and minimize adverse effects of pesticide use on individuals of the Covered Species and Covered Species habitat adjacent to the Project Area.

Permittee shall incorporate the following (at a minimum) into the Pesticide Use Plan: (1) follow best management practices described by Xerces Society's Guidance to Protect

Habitat from Pesticide Contamination, California Department of Pesticide Regulation, and the University of California's Division of Agriculture and Natural Resources Statewide Integrated Pest Management Program's Best Management Practices to protect bees from pesticides; (2) avoid mixtures with adjuvants containing alkylphenol ethoxylates, (3) avoid use of soil fumigants, which penetrate the soil and can poison ground nesting bees; (4) avoid spraying herbicides, especially on plants that are in bloom to minimize direct or indirect contact the Covered Species; (5) use targeted methods only; (6) pesticide application shall be conducted when the Covered Species is overwintering (i.e., outside of the Colony Active Period) to the maximum extent practicable; (7) avoid the use of pesticides marked with the U.S. Environmental Protection Agency's bee hazard icon; and (8) preferentially use chemicals that are rated green/III in the University of California Integrated Pest Management Bee Precaution Database and chemicals of the least toxic products at the least concentrated application when possible.

- 7.10. Habitat Creation and Restoration.** Permittee shall restore 39.24 acres of temporary impacts within the Project site. This includes 36.92 acres of revegetation and creating an additional 2.32 acres of native habitat on-site. Permittee shall ensure that creation and restoration are implemented and completed to meet the following goals: (1) to create, restore, and enhance habitat that will be temporarily disturbed during Covered Activities to pre-Project or better conditions, (2) to provide locally-native floral resources for the Covered Species, and (3) to effectively control and monitor invasive plants without damage to adjacent Covered Species habitat and to root systems of establishing/planted plants.

- 7.10.1. Vegetation Sampling Methodology.** Permittee shall develop a Vegetation Sampling Methodology for CDFW's review and approval at least 60 days prior to the start of restoration activities. The Vegetation Sampling Methodology shall include both a qualitative and quantitative assessment of native and invasive plant species. The quantitative assessment shall be based on establishment of a representative number of transects within areas to be restored/enhanced (treatment sites) and paired reference areas (reference sites) within intact natural habitat that will be used as a model for creation and restoration activities. Each treatment-reference transect set shall be appropriately placed and numbered for identification purposes. The slope, aspect, and soil and hydrological conditions shall be similar for the paired treatment and reference sites. Permittee shall ensure that data collection and analysis methodologies are appropriate to document pre-Project baseline and post-restoration/creation conditions, and reflects percent cover, richness, diversity, and general abundance of native plant species by vegetative layer, and invasive plant species ranked in Cal-IPC's [Invasive Plant Inventory](#). In addition, Permittee shall establish photo stations to photograph treatment sites during the Covered Species Active Season (February 1 - October 31) to document availability of a variety of blooming plants and presence of invasive plants.

**7.10.2. Revegetation Plan.** Permittee shall submit a Revegetation Plan to CDFW for review and approval within six (6) months of issuance of this ITP. The Revegetation Plan shall include detailed descriptions and plans for the following: (1) implementation (e.g., plant palette, installation methods, timing); (2) quantitative monitoring methods for revegetation success and invasive plants (species richness, diversity, abundance, frequency/density, separated out by vegetation layer); (3) qualitative monitoring using photo stations to photograph revegetation progress and success, and compare treatment and reference sites (e.g., number of stations, locations, map, frequency of visits/photo monitoring); (4) maintenance and invasive plant control methods (e.g., supplemental watering, planting, and seeding); (5) performance standards and success criteria; and (6) measures to be taken if performance standards are not met (see Condition of 7.11.2.7). Permittee shall not implement revegetation activities until CDFW has approved the Revegetation Plan.

**7.10.2.1. Plant Palette.** Permittee shall use seed mixes consisting of only locally native species, including diverse assemblages of native flora, to ensure a continuous source of flowers for the duration of the Covered Species Active Season. Permittee shall collect seed from within the Project Area and shall source any additional seed from within 30 miles of the Project Area.

**7.10.2.2. Erosion Control.** Permittee shall protect exposed soils from erosion using biodegradable materials or appropriate mulch cover until vegetation is established. Permittee shall ensure materials used for erosion control such as mulch and/or straw are weed and pest free (e.g., Argentine ants), pathogen-free, and have not been treated with pesticides.

**7.10.2.3. Timing.** Permittee shall complete seeding during the rainy season, generally between October and March, but no later than March 31. If feasible, Permittee shall apply seed immediately prior to the first rain event. At the discretion of CDFW, Permittee shall complete a second application of seeding as soon as is practical on a date mutually agreed upon if initial seeding is unsuccessful after 90 days.

**7.10.2.4. Temporary Irrigation.** Permittee shall use temporary irrigation only if deemed necessary through consultation with CDFW. If approved, Permittee shall only use temporary irrigation during the first year of establishment. Permittee shall connect temporary irrigation to a water source only while irrigation is in use to discourage the invasion of Argentine ants. Temporary irrigation shall not be on a timer system nor connected to a permanent water source.

**7.10.2.5. Pesticides.** Permittee shall not use pesticides unless approved in advance in writing by CDFW (see Condition of Approval 7.9 and 7.10).

**7.10.2.6.** Monitoring and Maintenance. Permittee shall monitor and maintain creation and restoration areas for a period of 5 years or until performance standards have been met, whichever is longer. During the installation phase, Permittee shall perform periodic maintenance in the form of weeding with hand-tools, repair of plant protection, and/or irrigation components as needed. Permittee shall start the 5-year monitoring period only after all weeding, watering, and reseeding efforts during the installation phase have stopped for at least one year, and the area has become self-sustaining. Replacement of dead plants or reseeding area shall reset the clock to year 1 of the minimum 5-year monitoring period. Replacement plantings shall be monitored with the same survival and growth requirements for three years after planting.

**7.10.2.7.** Performance Standards. Permittee shall meet the following performance standards, at a minimum, in order for creation and restoration be considered successful: (1) provide continuous cover and variety of blooming plants during the Covered Species Active Season (February 1 - October 31); (2) no more than 5 percent deviation of cover by vegetation class (herb, forbs, grass, vines, sub-shrubs, shrubs, trees, annual, and perennial) from CDFW-approved reference site(s); (2) vegetation in each creation and restoration area consists of less than five percent of species designated as high, moderate, watch, or limited invasive plants in Cal-IPC's Invasive Plant Inventory; and (3) species richness, diversity, abundance, frequency/density within each creation and restoration area are roughly proportionate to that of the reference sites. Permittee is responsible for replacement planting, additional watering, weeding, invasive plant eradication, or any other practice necessary if the performance standards are not being met. Success should not be determined until the site has been irrigation-free for at least 5 years and the metrics for success have remained stable (no negative trend for richness/diversity/abundance/cover and no positive trend for invasive/non-native cover for each vegetation layer) for at least 5 years.

**7.10.3.** As-Built Report. Permittee shall submit an As-Built Report to CDFW within three months following restoration activities. Permittee shall detail the plant list, species abundance and diversity by vegetation layers, vegetation establishment, percent invasive plant cover with species list, and other relevant observations regarding installation activities.

**7.10.4.** Annual Reports and Monitoring. Permittee shall submit annual reports to CDFW documenting restoration and creation activities no later than January 31 of every year until performance standards have been met or until CDFW determines Annual Reports are no longer required.

Incidental Take Permit  
No. 2081-2024-073-05  
PALMDALE WATER DISTRICT  
PALMDALE DITCH CONVERSION PROJECT

**7.10.4.1.** Photo Stations. Permittee shall photograph restoration areas at least four times per year in February, April, May, and July to document changes in plant cover over time, with a particular focus on percentage and composition of nectar and pollen resources in bloom. Permittee shall provide photographs in the Annual Report.

**7.10.4.2.** Covered Species Surveys. Permittee shall monitor for the Covered Species following the Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species and shall survey at least three times per year during the Colony Active Period (February 1 through August 31) concurrent with monitoring of restoration and creation areas. Permittee shall provide survey results and photographs of any Covered Species and bumble bees observed in the Annual Report.

**8. Habitat Restoration:** CDFW has determined that habitat restoration for temporary impacts 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 restore 36.92 acres and create an additional 2.32 acres of native habitat on-site for a total of 39.24 acres of temporarily impacted Covered Species habitat pursuant to Condition of Approval 8.3 below.

**8.1.** Cost Estimates. For the purposes of determining the Security amount, CDFW has estimated the cost sufficient for CDFW or its contractors to complete acquisition, protection, and perpetual management of the HM lands as follows:

**8.1.1.** Restoration of on-site temporary effects to Covered Species habitat as described in Condition of Approval 8.3, calculated at \$20,422/acre for 39.24 acres: **\$801,390.00.**

**8.1.2.** All costs associated with CDFW engaging an outside contractor to complete the mitigation tasks, including but not limited to restoration of temporarily disturbed habitat. These costs include but are not limited to the cost of issuing a request for proposals, transaction costs, contract administration costs, and costs associated with monitoring the contractor's work **\$75,000.**

**8.2.** Reimburse CDFW. Permittee shall reimburse CDFW for all reasonable costs incurred by CDFW related to issuance and monitoring of this ITP, including, but not limited to transaction fees, account set-up fees, administrative fees, title and documentation review

Incidental Take Permit  
No. 2081-2024-073-05  
**PALMDALE WATER DISTRICT**  
**PALMDALE DITCH CONVERSION PROJECT**

and related title transactions, costs incurred from other state agency reviews, and overhead related to transfer of HM lands to CDFW.

**8.3. Habitat Restoration.** Permittee shall restore on-site the 39.24 acres of Covered Species habitat, which includes 2.32 acres of creation, that will be temporarily disturbed during construction to pre-project or better conditions. The Permittee shall prepare a Restoration Plan to facilitate revegetation of the 39.24 acres of temporary construction disturbance on-site for CDFW's review and approval prior to the start of Project activities. The Permittee 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 be consistent with requirements under Condition of Approval 7.11.1 through 7.11.4 and shall include a map showing the final perimeter of the creation and restoration areas.

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

**9.1. Security Amount.** The Security shall be in the amount of **\$876,390.00** or in the amount identified in 8.1 specific to the obligation that has not been completed. This amount is determined by CDFW based on the cost estimates identified in Condition of Approval 8.1 above, sufficient for CDFW or its contractors to complete land acquisition, property enhancement, startup costs, initial management, long-term management, and monitoring.

**9.2. Security Form.** The Security shall be in the form of an irrevocable letter of credit (see Attachment 3) or another form of Security approved in advance in writing by CDFW's Office of the General Counsel.

**9.3. Security Timeline.** The Security shall be provided to CDFW before Covered Activities begin or within 30 days after the effective date of this ITP, whichever occurs first.

**9.4. Security Holder.** The Security shall be held by CDFW or in a manner approved in advance in writing by CDFW.

**9.5. Security Transmittal.** Permittee shall transmit security to CDFW by way of an approved instrument such as an escrow agreement, irrevocable letter of credit, or other.

**9.6. Security Drawing.** The Security shall allow CDFW to draw on the principal sum if CDFW, in its sole discretion, determines that the Permittee has failed to comply with the Conditions of Approval of this ITP.

**9.7. Security Release.** The Security (or any portion of the Security then remaining) shall be released to the Permittee after CDFW has conducted an on-site inspection and received

confirmation that all secured requirements have been satisfied, as evidenced by:

- Satisfactory demonstration of completion of performance standards for restoration and creation areas;
- Timely submission of all required reports.

Even if Security is provided, the Permittee must complete the required restoration requirements no later than 18 months from the effective date of this ITP. CDFW may require the Permittee to provide additional mitigation 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 laws. This ITP may be amended without the concurrence of the Permittee as required by law, including if CDFW determines that continued implementation of the Project as authorized under this ITP would jeopardize the continued existence of the Covered Species or where Project changes or changed biological conditions necessitate an ITP amendment to ensure that all Project-related impacts of the taking to the Covered Species are minimized and fully mitigated.

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

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

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

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

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

Incidental Take Permit  
No. 2081-2024-073-05  
**PALMDALE WATER DISTRICT**  
**PALMDALE DITCH CONVERSION PROJECT**

## **XII. Notices:**

Written notices, reports and other communications relating to this ITP shall be delivered to CDFW by email or registered first class mail at the following address, or at addresses CDFW may subsequently provide the Permittee. Notices, reports, and other communications shall reference the Project name, Permittee, and ITP Number (2081-2024-073-05) in a cover letter and on any other associated documents.

Original cover with attachment(s) to:

Erinn Wilson-Olgin, Regional Manager  
California Department of Fish and Wildlife  
South Coast Region 5  
Attn: CESA Permitting Program  
3883 Ruffin Road  
San Diego, CA 92123  
[R5CESA@wildlife.ca.gov](mailto:R5CESA@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:

Andrew Aitken  
California Department of Fish and Wildlife  
South Coast Region 5  
3883 Ruffin Road  
San Diego, CA 92123  
(562) 525-9688  
[Andrew.Aitken@wildlife.ca.gov](mailto:Andrew.Aitken@wildlife.ca.gov)

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

CDFW's issuance of this ITP is subject to CEQA. CDFW is a responsible agency pursuant to CEQA with respect to this ITP because of prior environmental review of the Project by the lead agency, Palmdale Water District. (See generally Pub. Resources Code, §§ 21067, 21069.) The lead agency's prior environmental review of the Project is set forth in the Strategic Water Resources Plan Program

Incidental Take Permit  
No. 2081-2024-073-05  
**PALMDALE WATER DISTRICT**  
**PALMDALE DITCH CONVERSION PROJECT**

Environmental Impact Report, (SCH No.: 2023080290) dated December 2024 that the Palmdale Water District certified for Strategic Water Resources Plan on December 16, 2024. At the time the lead agency certified the EIR 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 EIR 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.

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

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

CDFW finds based on substantial evidence in the ITP application, Strategic Water Resources Plan EIR, 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) habitat creation and restoration; (2) establishment of avoidance zones; (3) worker education; and (4) Monthly Compliance Reports. CDFW evaluated factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW's estimate of the acreage required to provide for adequate compensation. Based on this evaluation, CDFW determined that the restoration of 36.92 acres and creation of 2.32 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;

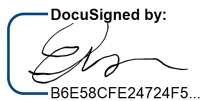
Incidental Take Permit  
No. 2081-2024-073-05  
**PALMDALE WATER DISTRICT**  
**PALMDALE DITCH CONVERSION PROJECT**

- (3) The take avoidance and mitigation measures required pursuant to the conditions of this ITP and its attachments are roughly proportional 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 findings are based, in part, on CDFW's express authority to amend the terms and conditions of this ITP without concurrence of the Permittee as necessary to avoid jeopardy and as required by law.

**XV. Attachments:**

|              |                                             |
|--------------|---------------------------------------------|
| APPENDIX A.  | Project Site Figures                        |
| APPENDIX B.  | Demolition Areas                            |
| APPENDIX C.  | Staging and Access                          |
| ATTACHMENT 1 | Mitigation Monitoring and Reporting Program |
| ATTACHMENT 2 | Biologist Resume Form                       |
| ATTACHMENT 3 | Letter of Credit Form                       |

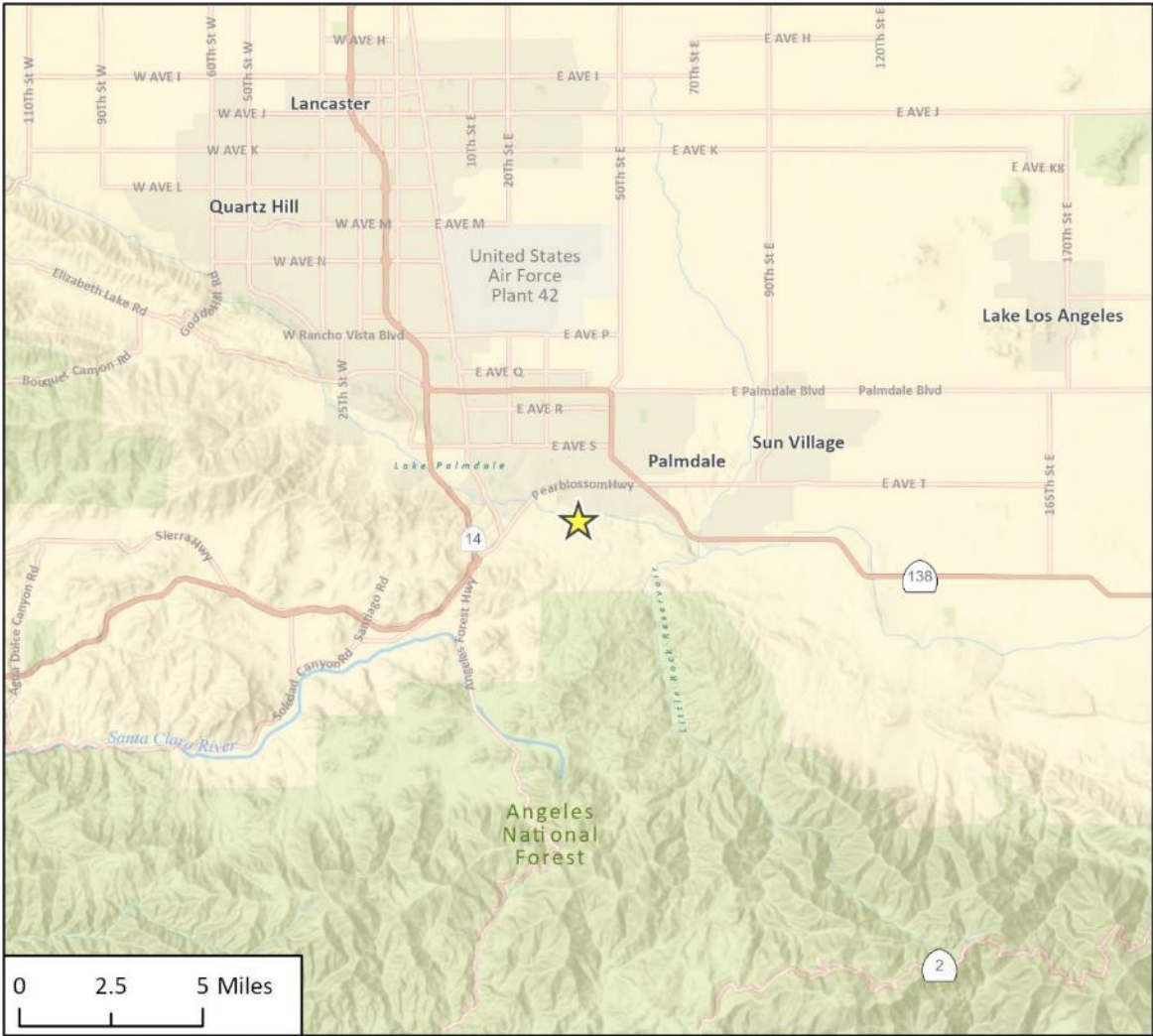
**ISSUED BY THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE ON 09/19/2025**

DocuSigned by:  
  
B6E58CFE24724F5...

Erinn Wilson-Olgin  
Regional Manager  
South Coast Region

Incidental Take Permit  
No. 2081-2024-073-05  
**PALMDALE WATER DISTRICT**  
**PALMDALE DITCH CONVERSION PROJECT**

Figure 1 Regional Location



★ Project Location



Figure 2 Suitable and Unsuitable CBB Habitat – Phase 1 (Map 1 of 10)

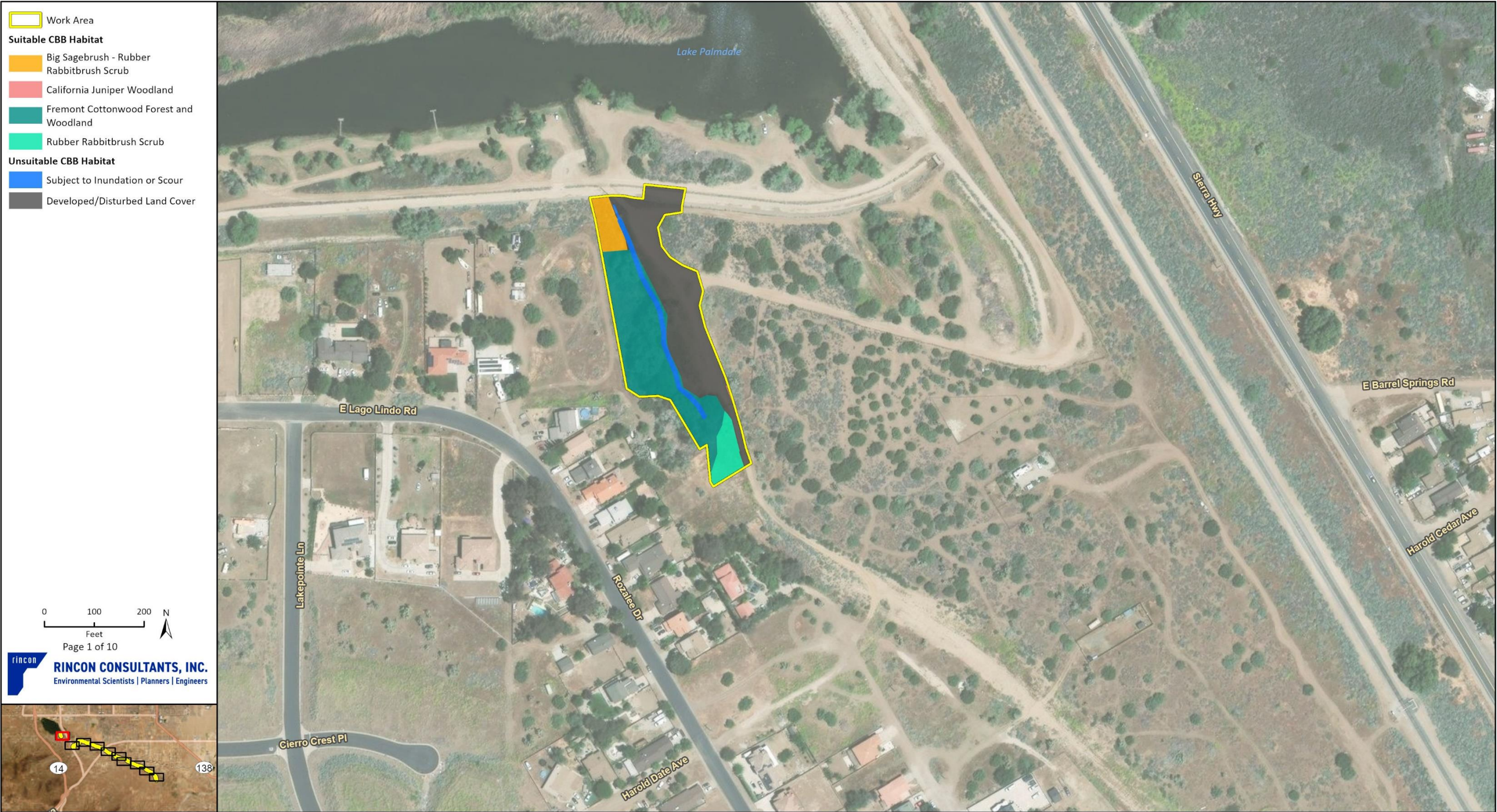
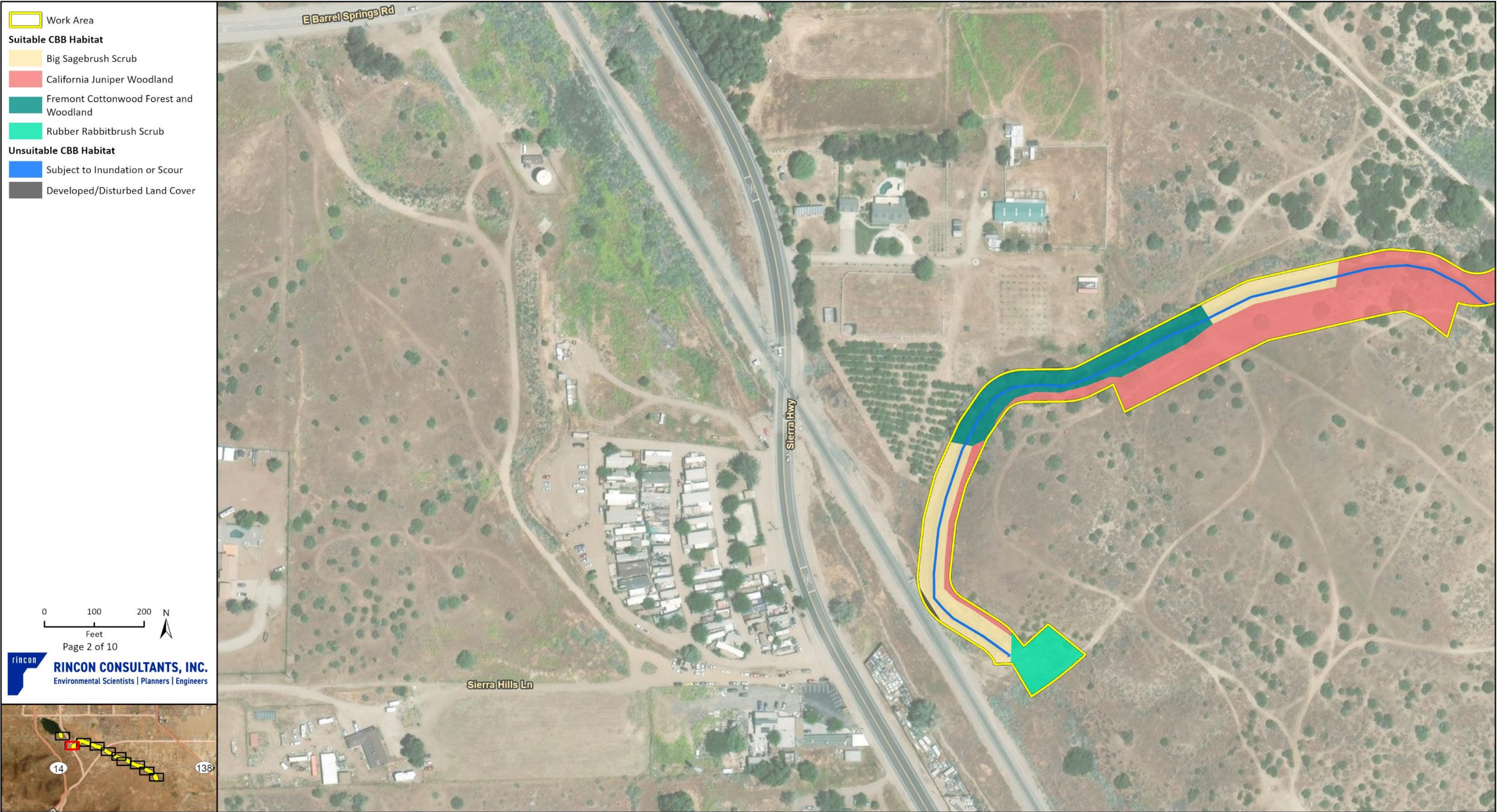


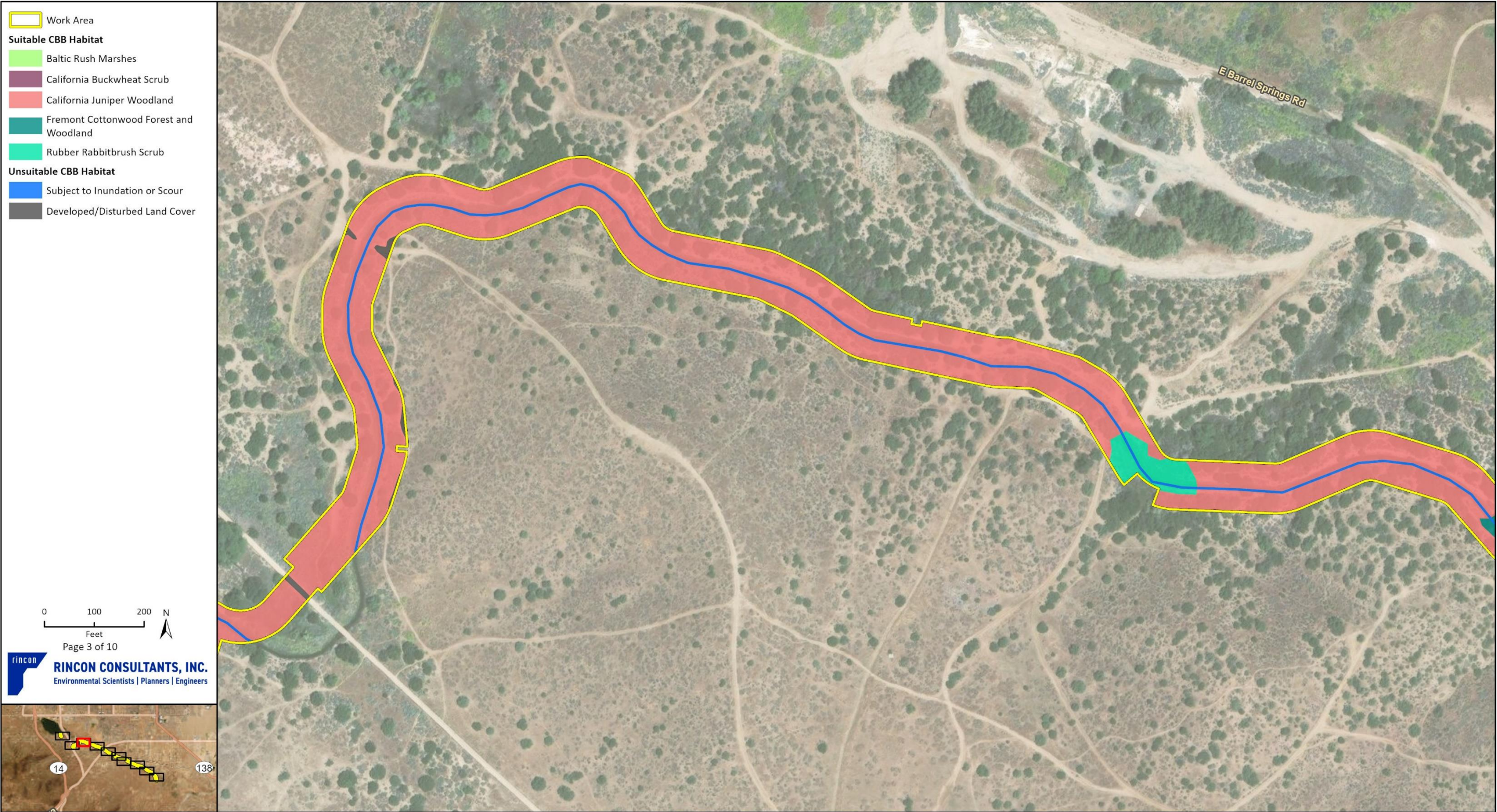
Figure 3    Suitable and Unsuitable CBB Habitat – Phase 1 (Map 2 of 10)



Imagery provided by ESRI and its licensors © 2025.

23-14737 Crotch Bumble Bee  
Fig X Vegetation CBB Suitable Habitat\_Phase I

**Figure 4    Suitable and Unsuitable CBB Habitat – Phase 1 (Map 3 of 10)**



Imagery provided by ESRI and its licensors © 2025.

23-14737 Crotch Bumble Bee  
Fig X Vegetation CBB Suitable Habitat\_Phase I

Figure 5    Suitable and Unsuitable CBB Habitat – Phase 1 (Map 4 of 10)

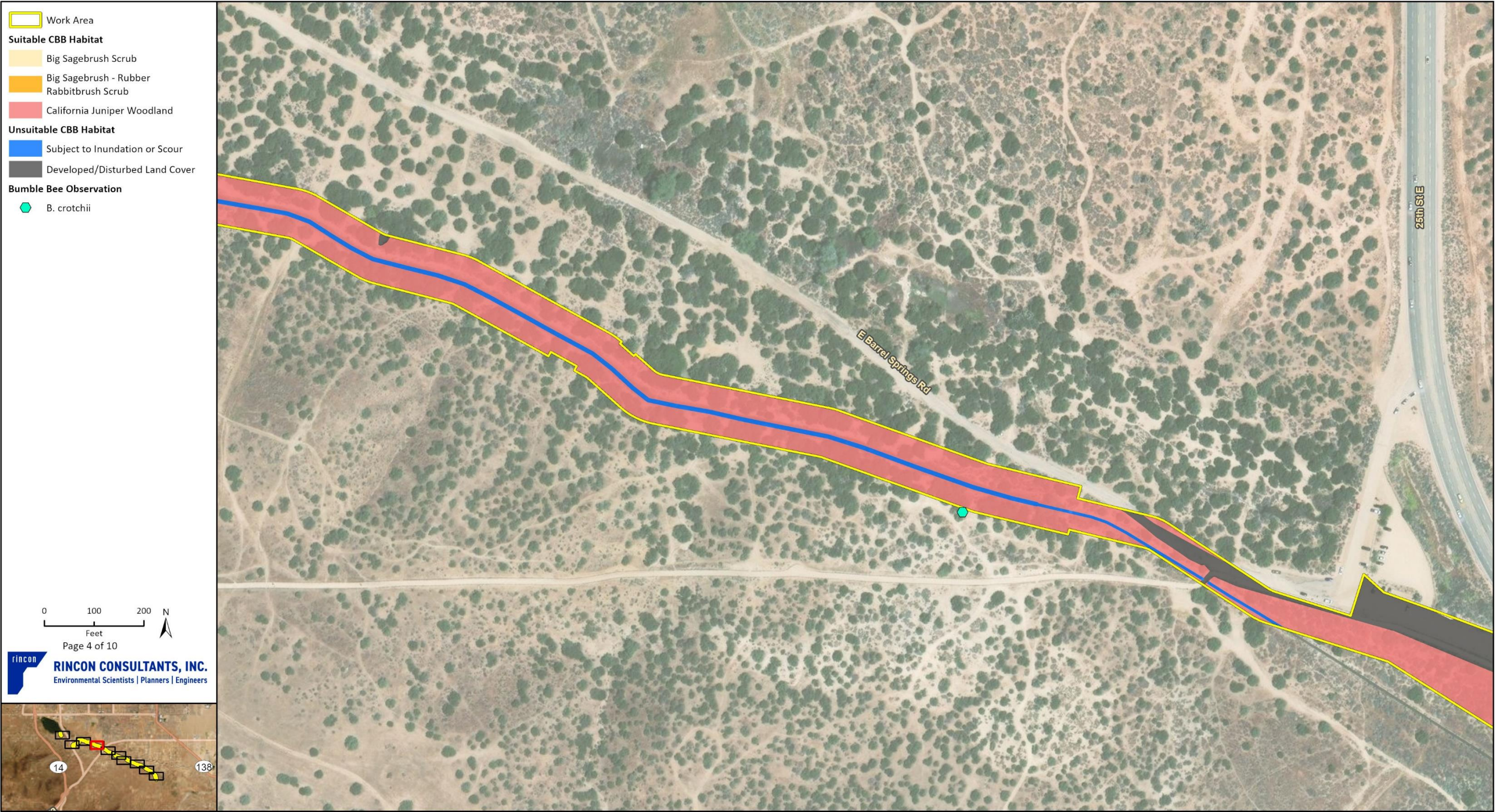


Figure 6 Suitable and Unsuitable CBB Habitat – Phase 1 (Map 5 of 10)

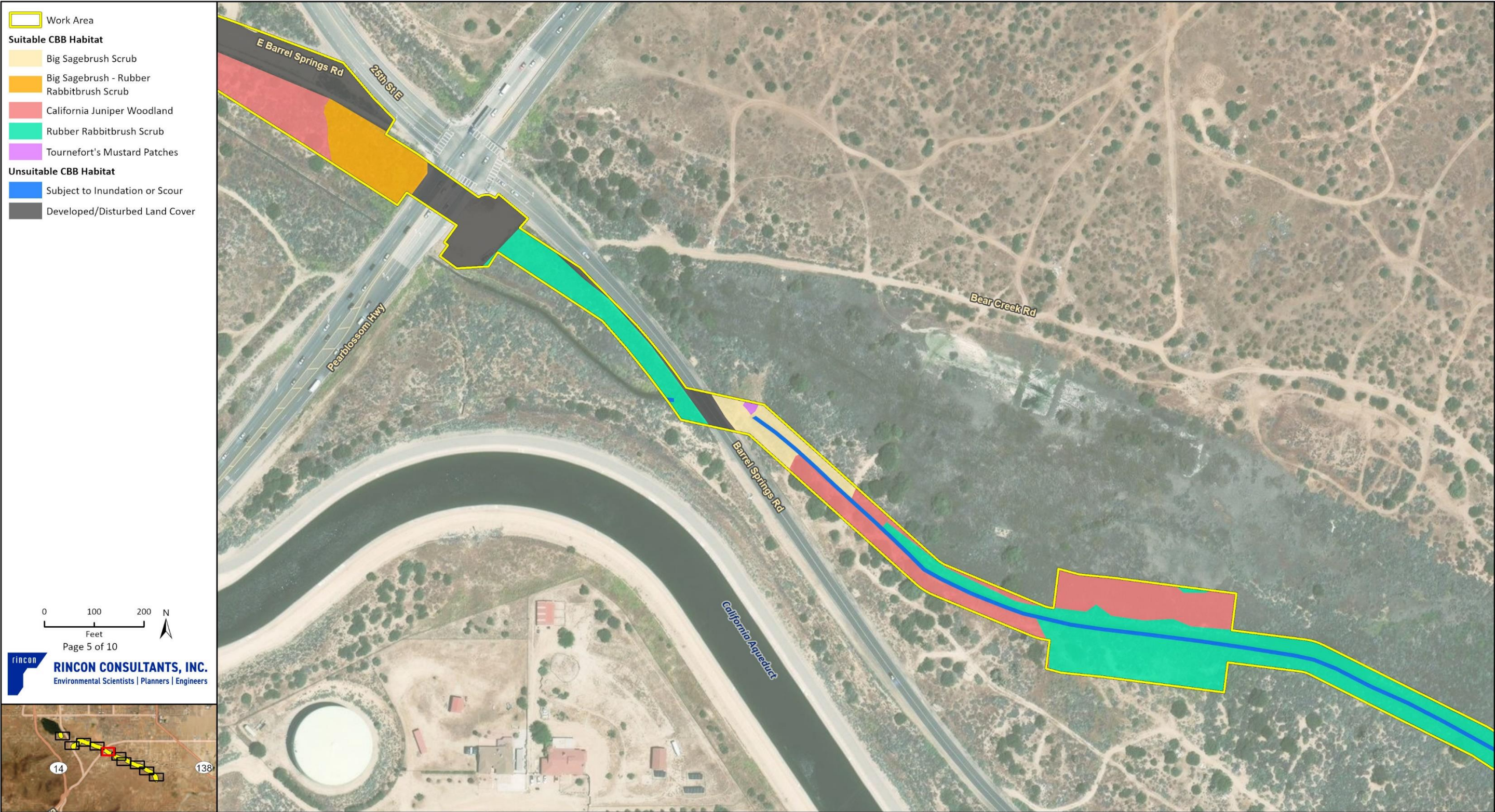


Figure 7    Suitable and Unsuitable CBB Habitat – Phase 1 (Map 6 of 10)

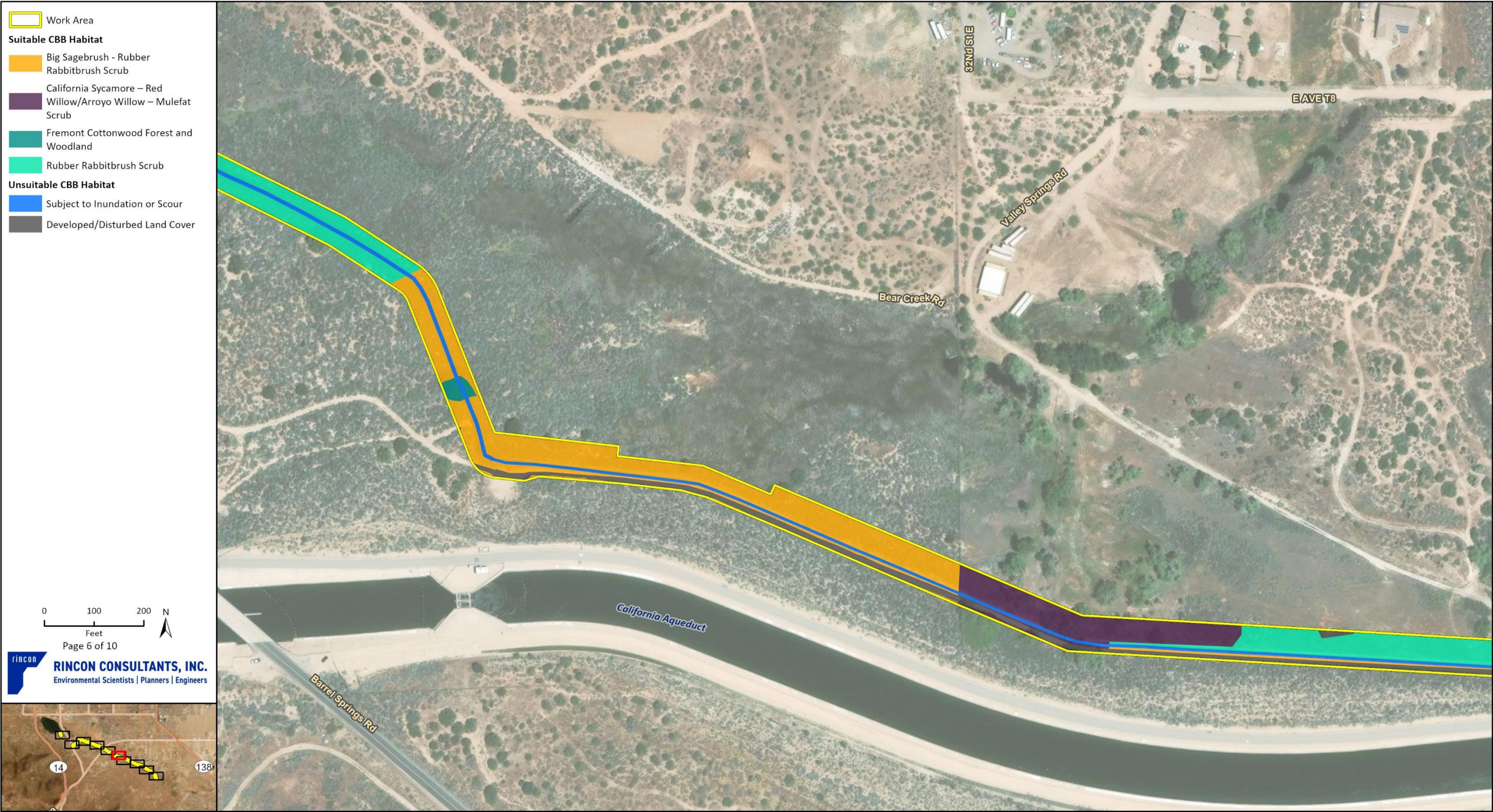
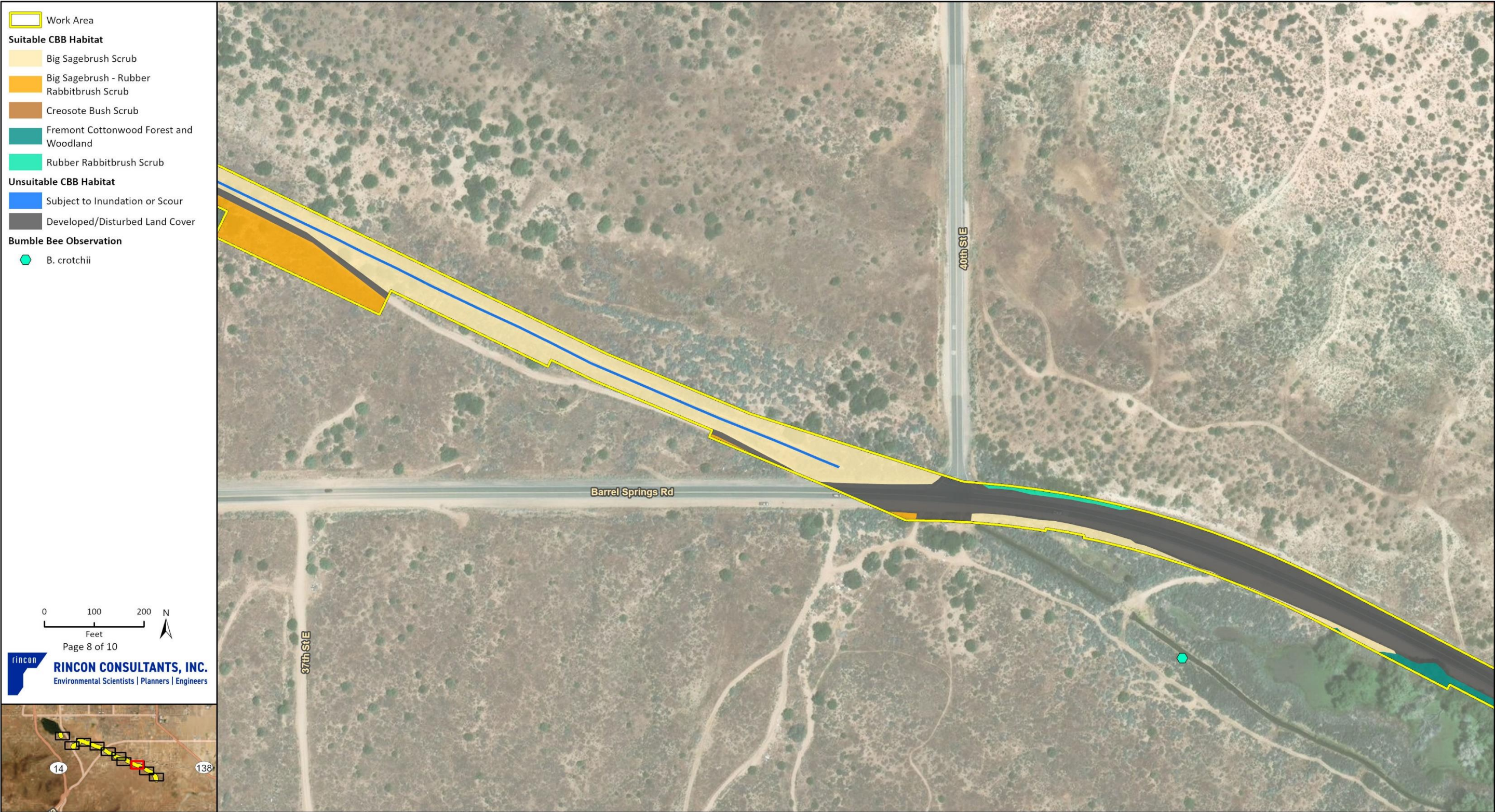


Figure 8    Suitable and Unsuitable CBB – Phase 1 Habitat (Map 7 of 10)



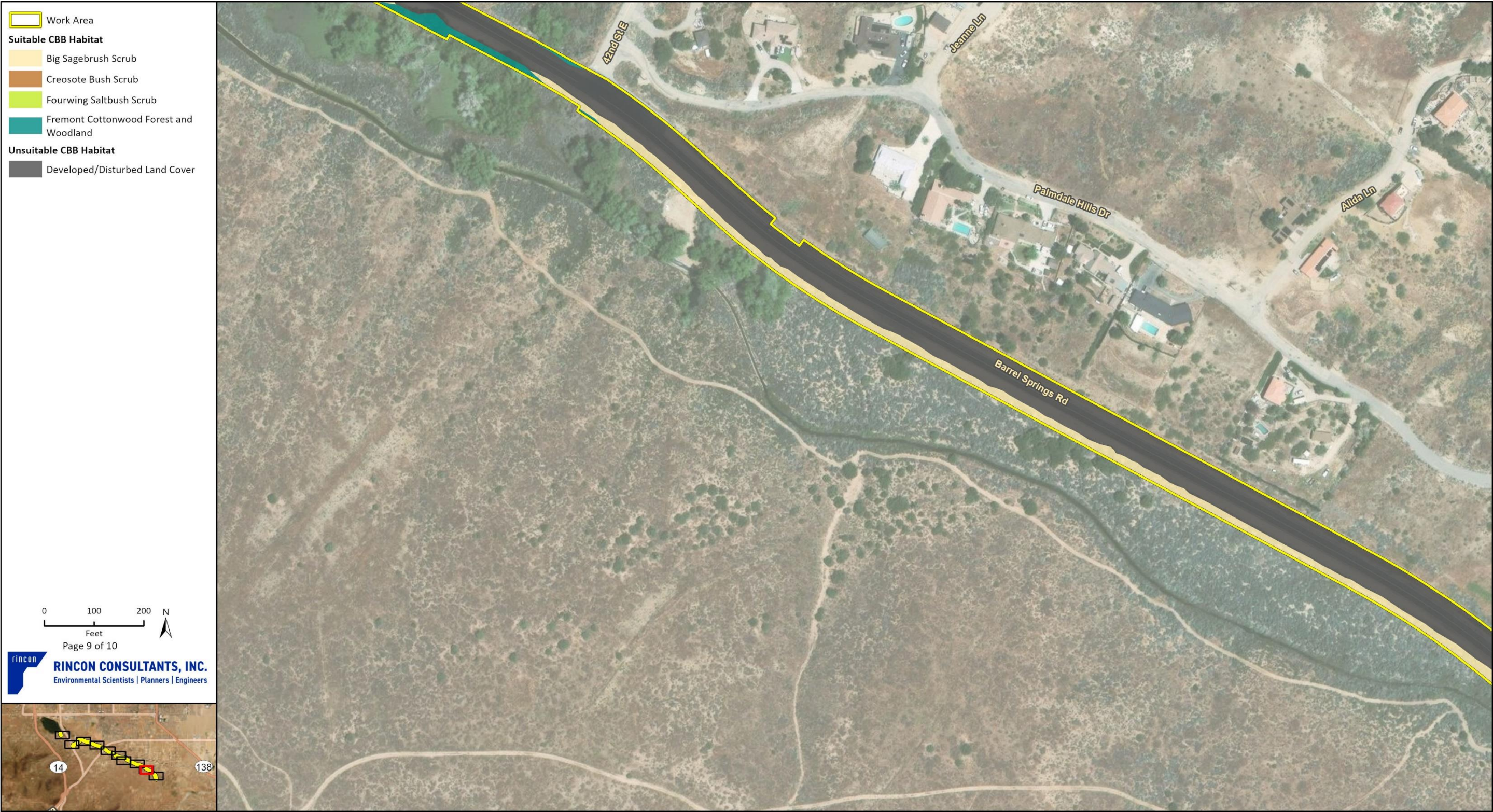
Figure 9    Suitable and Unsuitable CBB Habitat – Phase 1 (Map 8 of 10)



Imagery provided by ESRI and its licensors © 2025.

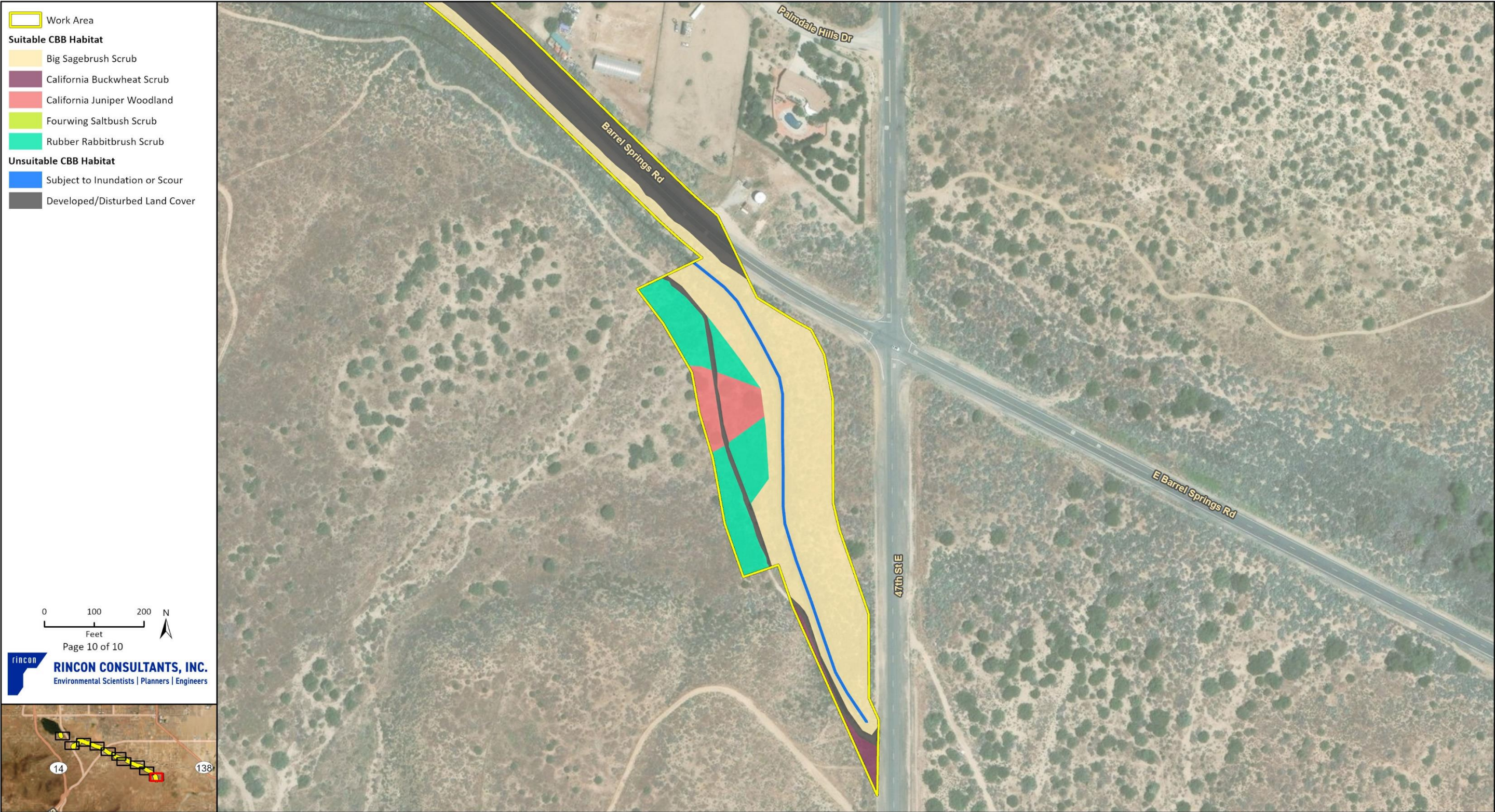
23-14737 Crotch Bumble Bee  
Fig X Vegetation CBB Suitable Habitat\_Phase I

Figure 10 Suitable and Unsuitable CBB Habitat – Phase 1 (Map 9 of 10)



Imagery provided by ESRI and its licensors © 2025. 23-14737 Crotch Bumble Bee Fig X Vegetation CBB Suitable Habitat\_Phase I

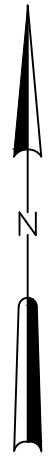
Figure 11 Suitable and Unsuitable CBB Habitat – Phase 1 (Map 10 of 10)



P:\C\USERS\CORPOL\ACAD\DWG\HAZEN AND SAWYER\2018\2018-004\_PALMDALE DITCH COVER SERVICES\PROJECT FILES\901\_DESIGN\GENERAL\100\_Saved by JCD\PPCLA.dwg date: 18/2025 4:48 PM  
PLOT DATE: 18/2025 4:05 PM BY: JCD/PPCLA



PLAN  
SCALE: 1"=2,000'



- NOTES:
1. THIS PLAN SHOWS APPROXIMATE LOCATIONS OF DEMOLITION ITEMS. SEE PLAN AND PROFILE DRAWINGS FOR SPECIFIC LOCATIONS.
  2. THIS PLAN, IN COMBINATION WITH THE DEMOLITION DETAILS ON THE FOLLOWING SHEETS, SUMMARIZES PRIMARY PROJECT DEMOLITION SCOPE ITEMS AND DOES NOT CONSTITUTE AN EXHAUSTIVE DEMOLITION SCOPE. FINAL DEMOLITION SCOPE TO BE DETERMINED BY CONTRACTOR DURING CONSTRUCTION AS NECESSARY TO COMPLETE IMPROVEMENTS.

|     |            |      |    |                                                                   |               |
|-----|------------|------|----|-------------------------------------------------------------------|---------------|
|     |            |      |    | PROJECT ENGINEER:                                                 | J. BORCHARDT  |
|     |            |      |    | DESIGNED BY:                                                      | A. BROWN      |
|     |            |      |    | DRAWN BY:                                                         | G. WILLIAMS   |
|     |            |      |    | CHECKED BY:                                                       | S. WILLIAMSON |
|     |            |      |    | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | 0 1/2" 1"     |
| REV | ISSUED FOR | DATE | BY |                                                                   |               |

90% DRAWING  
DO NOT USE FOR  
CONSTRUCTION

**Hazen**  
HAZEN AND SAWYER  
800 WEST 6th STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



PALMDALE WATER DISTRICT

APPROVED BY:

TITLE DATE

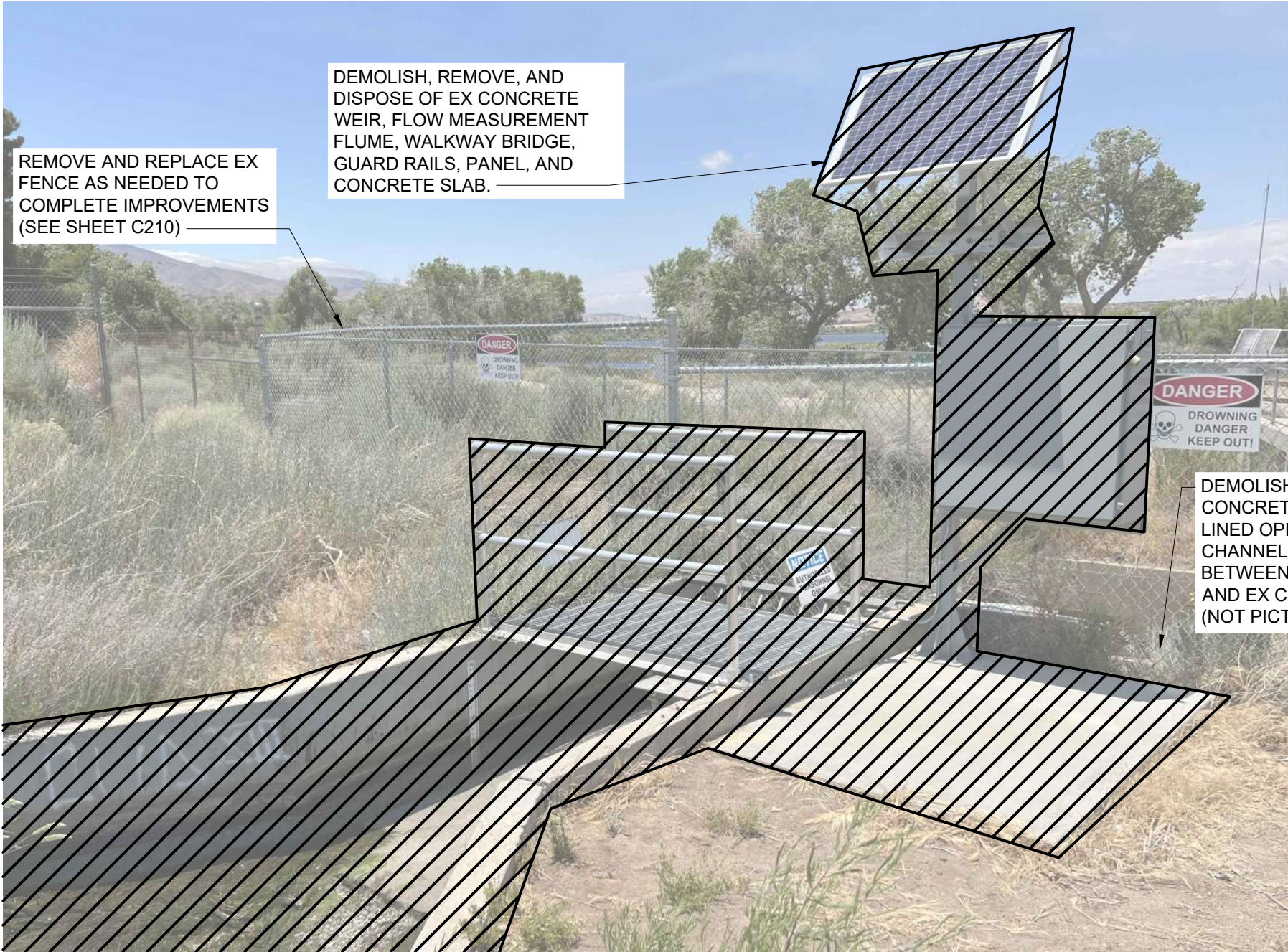
PALMDALE DITCH CONVERSION PROJECT

GENERAL  
DEMOLITION LOCATION PLAN

|                 |              |
|-----------------|--------------|
| DATE:           | JANUARY 2025 |
| HAZEN NO.:      | 20182-004    |
| SPEC NO.:       | 21-613       |
| DRAWING NUMBER: | D100         |

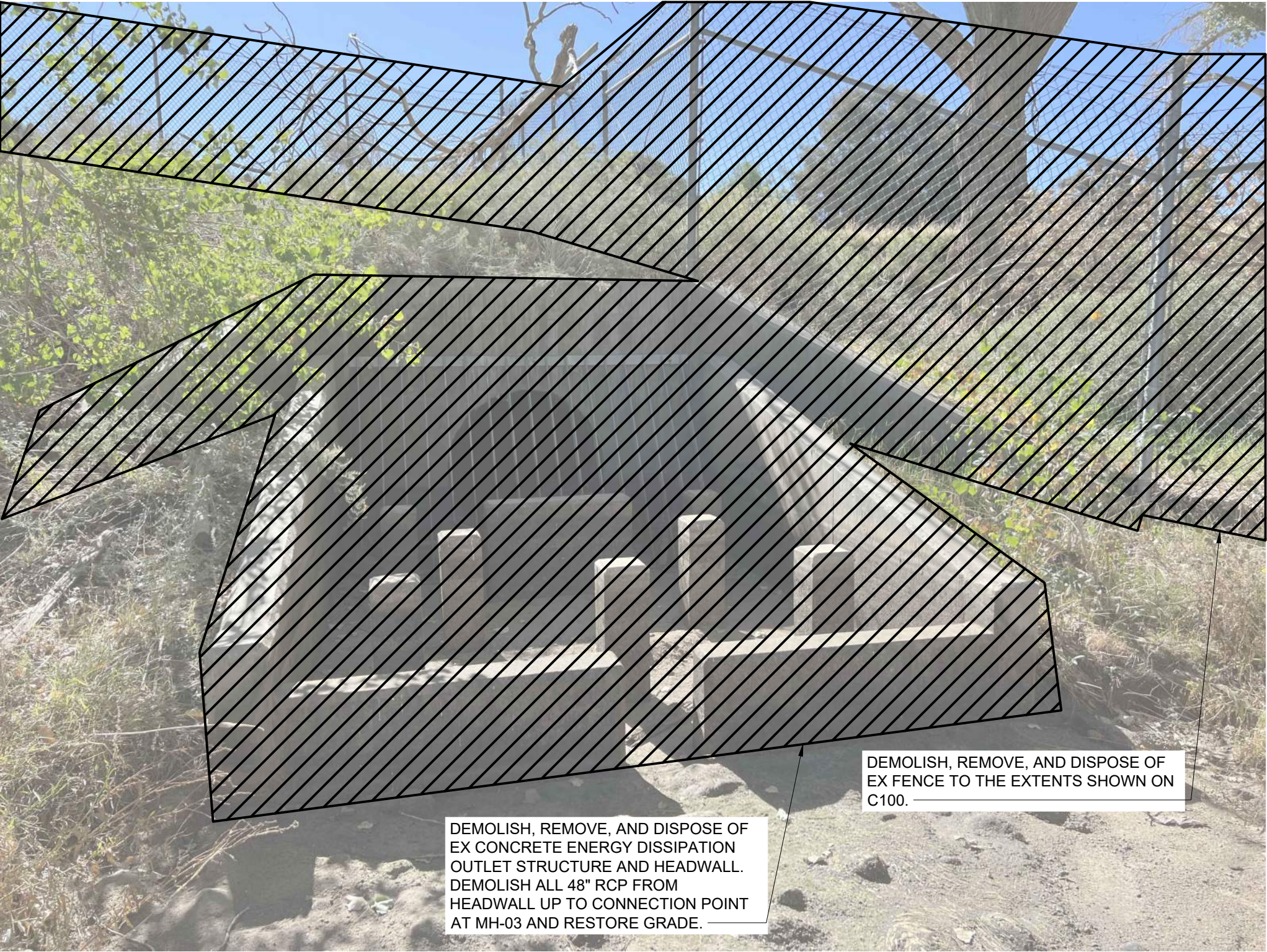
DEMOLITION NOTES:

1. SEE SHEET ##### AND PLAN/PROFILE SHEETS FOR APPROXIMATE DEMOLITION LOCATIONS.
2. STRUCTURES DESIGNATED FOR DEMOLITION SHALL BE DEMOLISHED AND DISPOSED OF OFF-SITE. MATERIAL TO BE SALVAGED SHALL BE DELIVERED TO A LOCATION DETERMINED BY THE DISTRICT REPRESENTATIVE.
3. DEMOLITION LIMITS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY DEMOLITION LIMITS REQUIRED TO CONSTRUCT PROPOSED IMPROVEMENTS.
4. DEMOLITION OF WALLS, SLABS, AND SUPPORTS SHALL INCLUDE THE COMPLETE REMOVAL AND DISPOSAL OF ALL FOUNDATIONS ASSOCIATED WITH THESE STRUCTURES.
5. REMOVE AND DISPOSE OF EXISTING CONCRETE, RIPRAP, AND COBBLES WHERE THEY EXIST AT CULVERTS/TRASH RACKS.



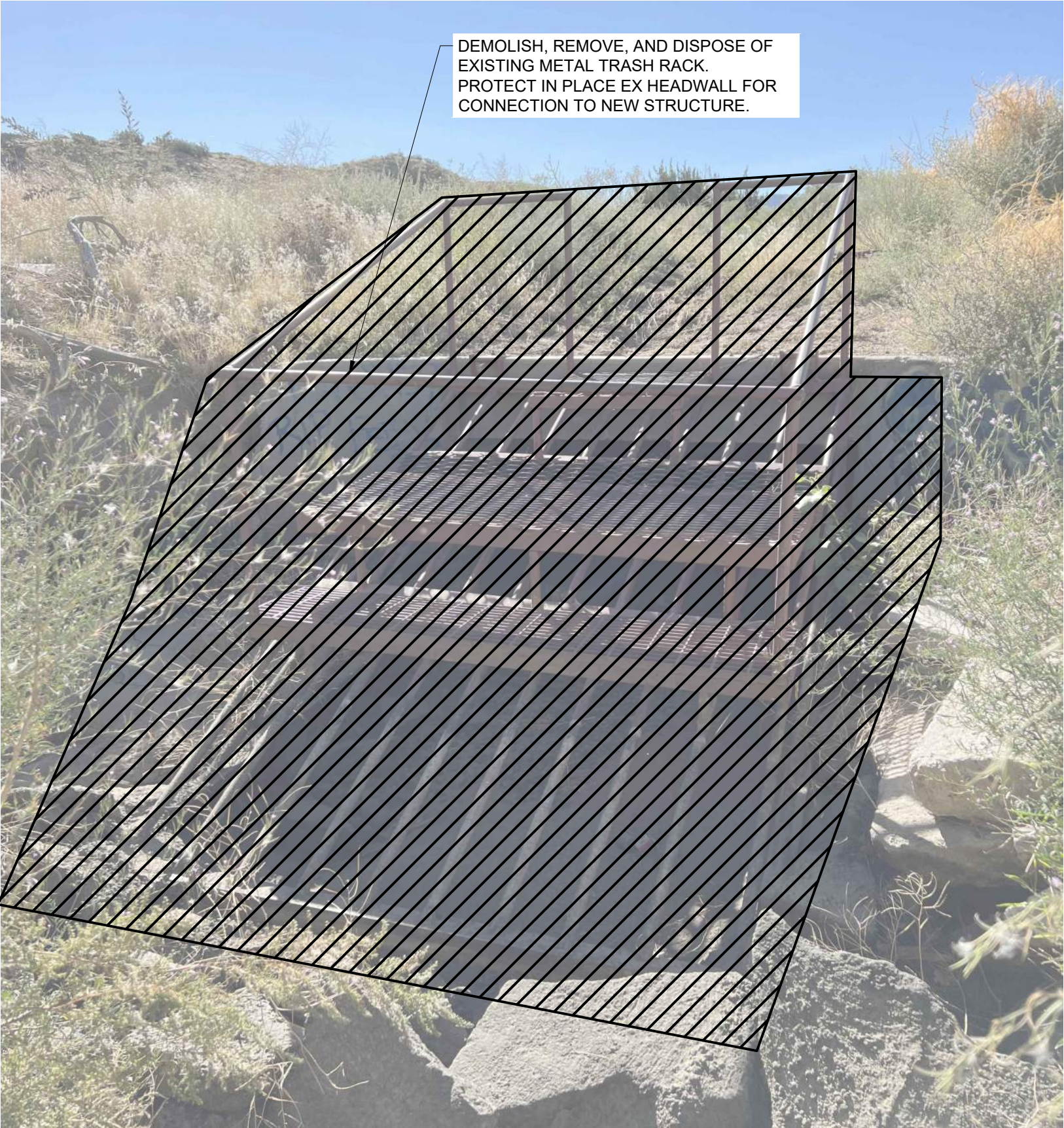
EX WEIR REMOVAL STA 2+00

DETAIL D01  
C100



EX OUTLET REMOVAL STA 6+50

DETAIL D02  
C100



EX CULVERT INLET REMOVAL STA 50+00

DETAIL D03  
C101

File: C:\Users\JCOPPOLA\Documents\HAZEN AND SAWYER\2018-004\_PALMDALE DITCH CONVERSION\PROJECT FILES\01\_DESIGN\GENERAL\DD300.DWG Saved by: JCOPPOLA Save date: 1/7/2025 4:13 PM  
Plot Date: 1/9/2025 4:09 PM BY: JCOPPOLA

|     |            |      |    |                                                                   |               |
|-----|------------|------|----|-------------------------------------------------------------------|---------------|
|     |            |      |    | PROJECT ENGINEER:                                                 | J. BORCHARDT  |
|     |            |      |    | DESIGNED BY:                                                      | A. BROWN      |
|     |            |      |    | DRAWN BY:                                                         | G. WILLIAMS   |
|     |            |      |    | CHECKED BY:                                                       | S. WILLIAMSON |
|     |            |      |    | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | 0 1/2" 1"     |
| REV | ISSUED FOR | DATE | BY |                                                                   |               |

90% DRAWING  
DO NOT USE FOR  
CONSTRUCTION

**Hazen**  
HAZEN AND SAWYER  
800 WEST 6th STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



PALMDALE WATER DISTRICT

APPROVED BY:

TITLE DATE

PALMDALE DITCH CONVERSION PROJECT

GENERAL  
DEMOLITION DETAILS - 1

DATE: JANUARY 2025

HAZEN NO.: 20182-004

SPEC NO.: 21-613

DRAWING NUMBER:

DD300



EX DROP STRUCTURE REMOVAL STA 89+30

DETAIL

D04  
C104



EX STEEL FLUME REMOVAL STA 103+00

DETAIL

D05  
C105

DEMOLITION NOTES:

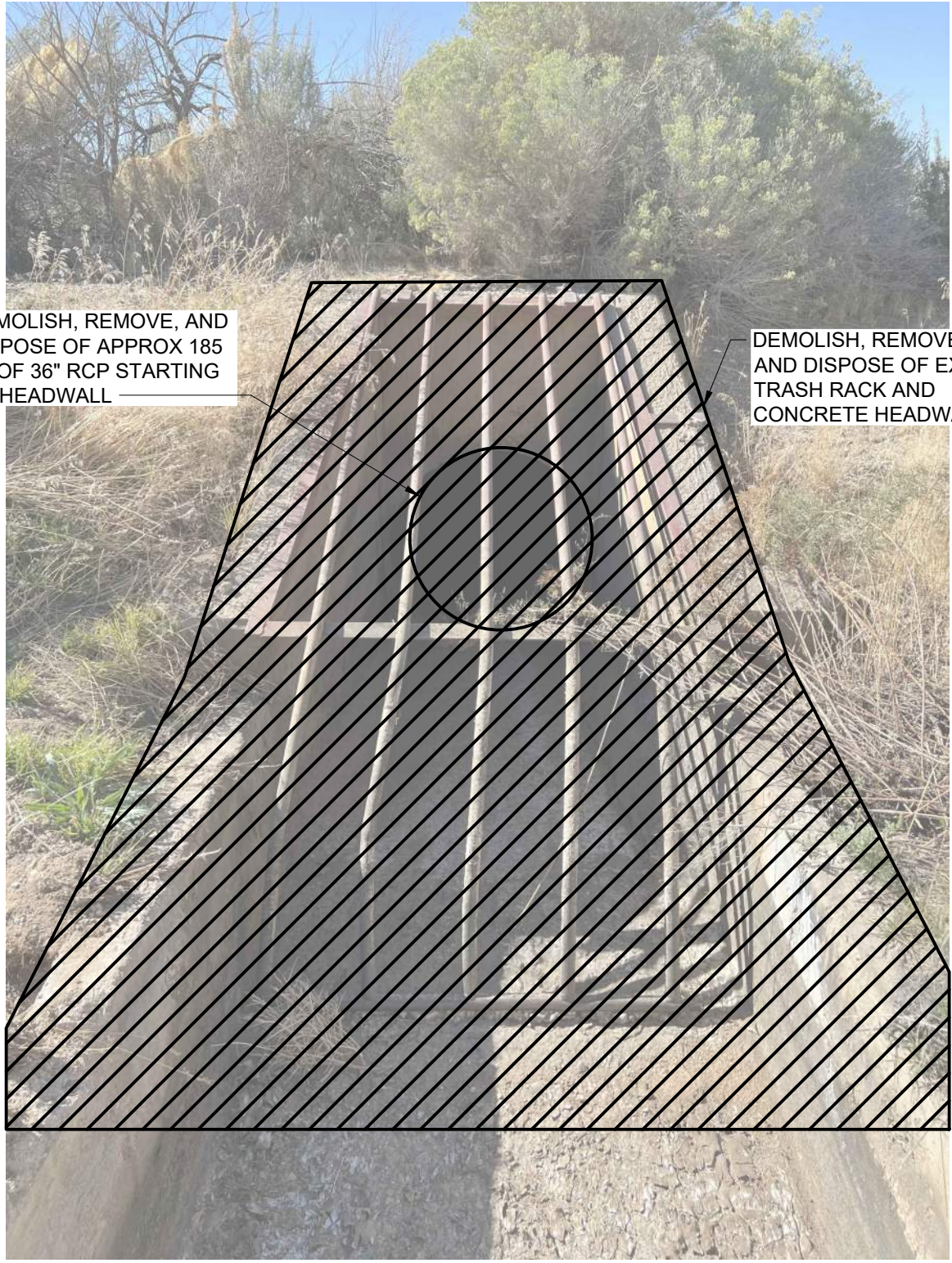
1. SEE SHEET ##### AND PLAN/PROFILE SHEETS FOR APPROXIMATE DEMOLITION LOCATIONS.
2. STRUCTURES DESIGNATED FOR DEMOLITION SHALL BE DEMOLISHED AND DISPOSED OF OFF-SITE. MATERIAL TO BE SALVAGED SHALL BE DELIVERED TO A LOCATION DETERMINED BY THE DISTRICT REPRESENTATIVE.
3. DEMOLITION LIMITS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY DEMOLITION LIMITS REQUIRED TO CONSTRUCT PROPOSED IMPROVEMENTS.
4. DEMOLITION OF WALLS, SLABS, AND SUPPORTS SHALL INCLUDE THE COMPLETE REMOVAL AND DISPOSAL OF ALL FOUNDATIONS ASSOCIATED WITH THESE STRUCTURES.
5. REMOVE AND DISPOSE OF EXISTING CONCRETE, RIPRAP, AND COBBLES WHERE THEY EXIST AT CULVERTS/TRASH RACKS.



EX TRASH RACK REMOVAL STA 144+50

DETAIL

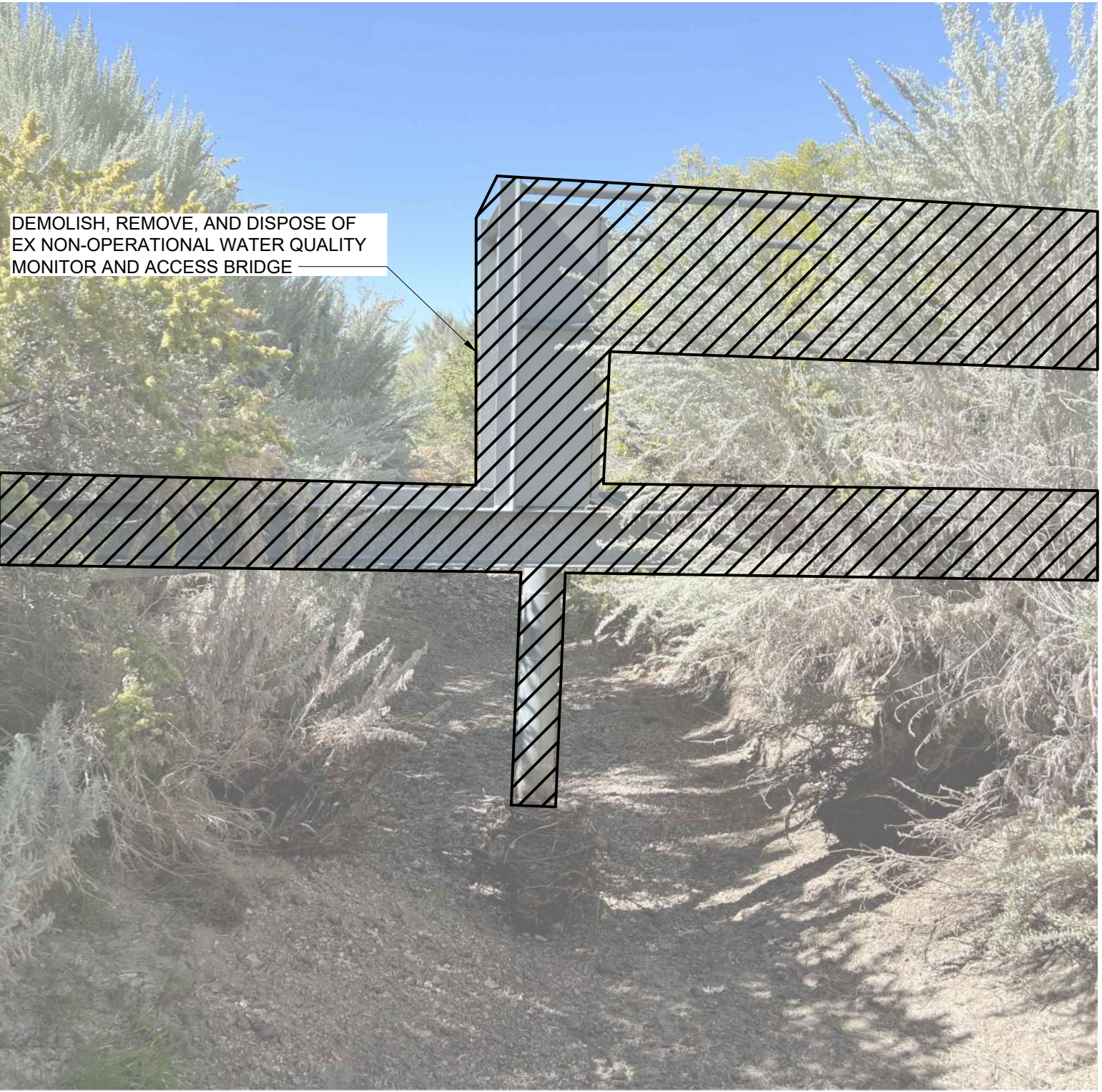
D06  
C109



EX TRASH RACK REMOVAL STA 196+70

DETAIL

D07  
C113



EX WATER QUALITY MONITOR REMOVAL STA 264+45

DETAIL

D08  
C118

File: C:\Users\B\Documents\HAZEN AND SAWYER\2018-2024 PALMDALE DITCH CONVERSION\PROJECT FILES\01 DESIGN\GENERAL\DD301.DWG, Saved by: BLAMY, Save date: 1/7/2025 3:04 PM  
Plot Date: 1/9/2025 4:10 PM BY: JCD/PROLA

|     |            |      |    |                                                                   |               |
|-----|------------|------|----|-------------------------------------------------------------------|---------------|
|     |            |      |    | PROJECT ENGINEER:                                                 | J. BORCHARDT  |
|     |            |      |    | DESIGNED BY:                                                      | A. BROWN      |
|     |            |      |    | DRAWN BY:                                                         | G. WILLIAMS   |
|     |            |      |    | CHECKED BY:                                                       | S. WILLIAMSON |
|     |            |      |    | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | 0 1/2" 1"     |
| REV | ISSUED FOR | DATE | BY |                                                                   |               |

90% DRAWING  
DO NOT USE FOR  
CONSTRUCTION

**Hazen**

HAZEN AND SAWYER  
800 WEST 6th STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



PALMDALE WATER DISTRICT

APPROVED BY:

TITLE DATE

PALMDALE DITCH CONVERSION PROJECT

GENERAL  
DEMOLITION DETAILS - 2

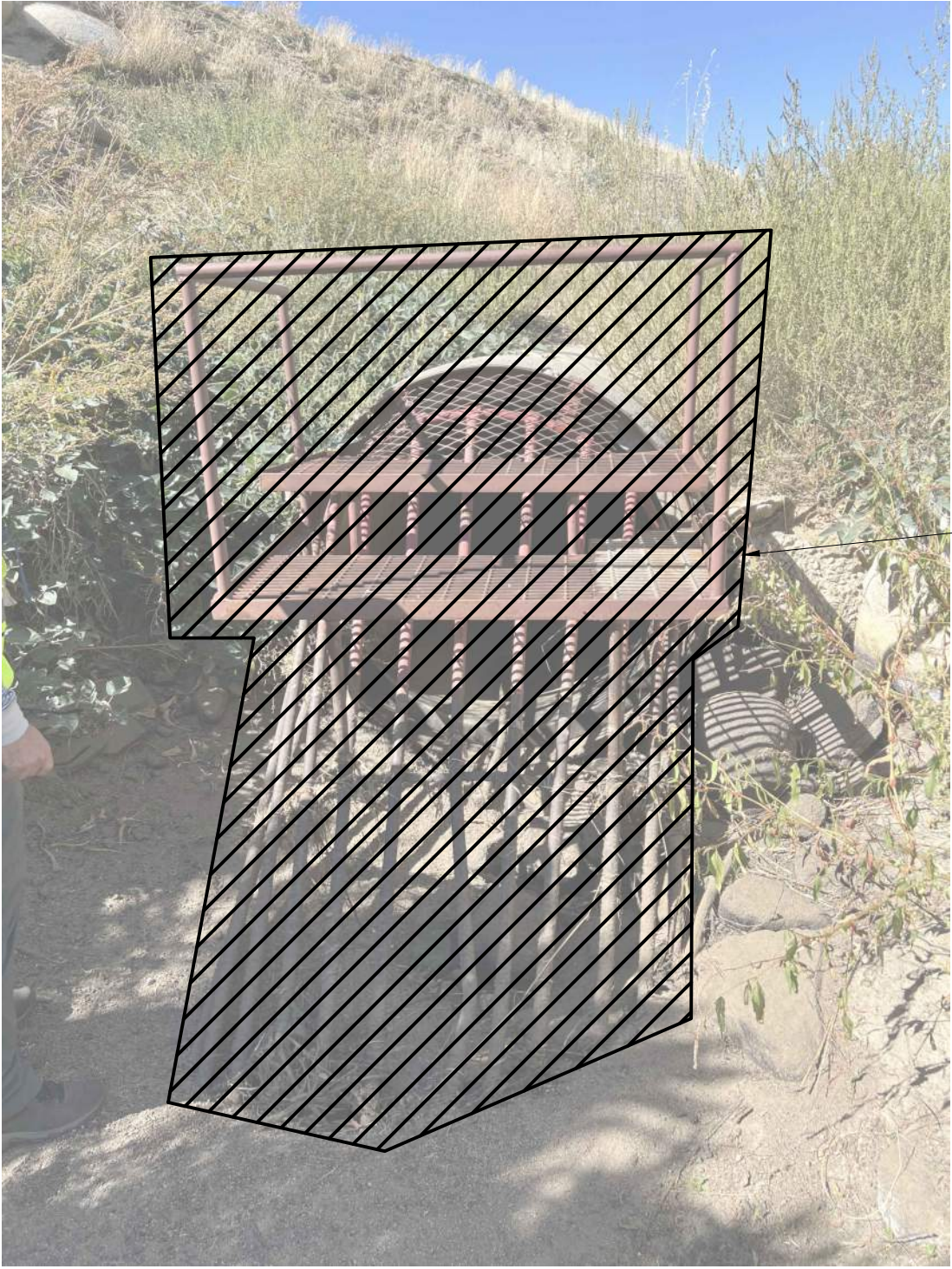
DATE: JANUARY 2025

HAZEN NO.: 20182-004

SPEC NO.: 21-613

DRAWING  
NUMBER:

DD301



DEMOLISH, REMOVE, AND DISPOSE OF EX TRASH RACK FOR CONSTRUCTION OF NEW PIPE. PROTECT END OF EX RCP FOR PIPE CONNECTION

EX TRASH RACK REMOVAL STA 279+75

DETAIL D09  
NTS C120



DEMOLISH, REMOVE, AND DISPOSE OF EX HEADWALL, CHANNEL, AND WING WALLS FOR CONSTRUCTION OF NEW PIPE. PROTECT END OF EX RCP FOR PIPE CONNECTION

EX HEADWALL REMOVAL STA 349+75

DETAIL D10  
NTS C126



DEMOLISH, REMOVE, AND DISPOSE OF EX TRASH RACK, HEADWALL, SUMP, AND CONCRETE CHANNEL FOR CONSTRUCTION OF NEW PIPE. PROTECT END OF EX RCP FOR PIPE CONNECTION

EX TRASH RACK REMOVAL STA 358+19

DETAIL D11  
NTS C126



DEMOLISH, REMOVE, AND DISPOSE OF EX VEHICLE CROSSING TUNNEL TOP IN ENTIRETY AND WALLS AS NEEDED FOR PIPE CONSTRUCTION

EX STORMWATER CROSSING STA 365+07

DETAIL D12  
NTS C127



DEMOLISH, REMOVE, AND DISPOSE OF EX STORMWATER CROSSING TUNNEL TOP IN ENTIRETY AND WALLS AS NEEDED FOR PIPE CONSTRUCTION

EX STORMWATER CROSSING STA 377+91

DETAIL D13  
NTS C128

DEMOLITION NOTES:

1. SEE SHEET ##### AND PLAN/PROFILE SHEETS FOR APPROXIMATE DEMOLITION LOCATIONS.
2. STRUCTURES DESIGNATED FOR DEMOLITION SHALL BE DEMOLISHED AND DISPOSED OF OFF-SITE. MATERIAL TO BE SALVAGED SHALL BE DELIVERED TO A LOCATION DETERMINED BY THE DISTRICT REPRESENTATIVE.
3. DEMOLITION LIMITS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY DEMOLITION LIMITS REQUIRED TO CONSTRUCT PROPOSED IMPROVEMENTS.
4. DEMOLITION OF WALLS, SLABS, AND SUPPORTS SHALL INCLUDE THE COMPLETE REMOVAL AND DISPOSAL OF ALL FOUNDATIONS ASSOCIATED WITH THESE STRUCTURES.
5. REMOVE AND DISPOSE OF EXISTING CONCRETE, RIPRAP, AND COBBLES WHERE THEY EXIST AT CULVERTS/TRASH RACKS.

File: C:\Users\B\Corporate\ACAD\DWG\HAZEN AND SAWYER\2018\2018-004\_PALMDALE DITCH CONVERSION\PROJECT FILES\01\_DESIGN\GENERAL\DD302.DWG, Saved by: BLAWY, Save date: 1/7/2025 3:05 PM  
Plot Date: 1/9/2025 4:11 PM, BY: JCDP/PLA

|     |            |      |    |
|-----|------------|------|----|
|     |            |      |    |
|     |            |      |    |
|     |            |      |    |
|     |            |      |    |
|     |            |      |    |
|     |            |      |    |
|     |            |      |    |
|     |            |      |    |
| REV | ISSUED FOR | DATE | BY |

|                                                                   |               |
|-------------------------------------------------------------------|---------------|
| PROJECT ENGINEER:                                                 | J. BORCHARDT  |
| DESIGNED BY:                                                      | A. BROWN      |
| DRAWN BY:                                                         | G. WILLIAMS   |
| CHECKED BY:                                                       | S. WILLIAMSON |
| IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | 0 1/2" 1"     |

90% DRAWING  
DO NOT USE FOR  
CONSTRUCTION

**Hazen**  
HAZEN AND SAWYER  
800 WEST 6th STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



PALMDALE WATER DISTRICT

APPROVED BY:

TITLE DATE

PALMDALE DITCH CONVERSION PROJECT

GENERAL  
DEMOLITION DETAILS - 3

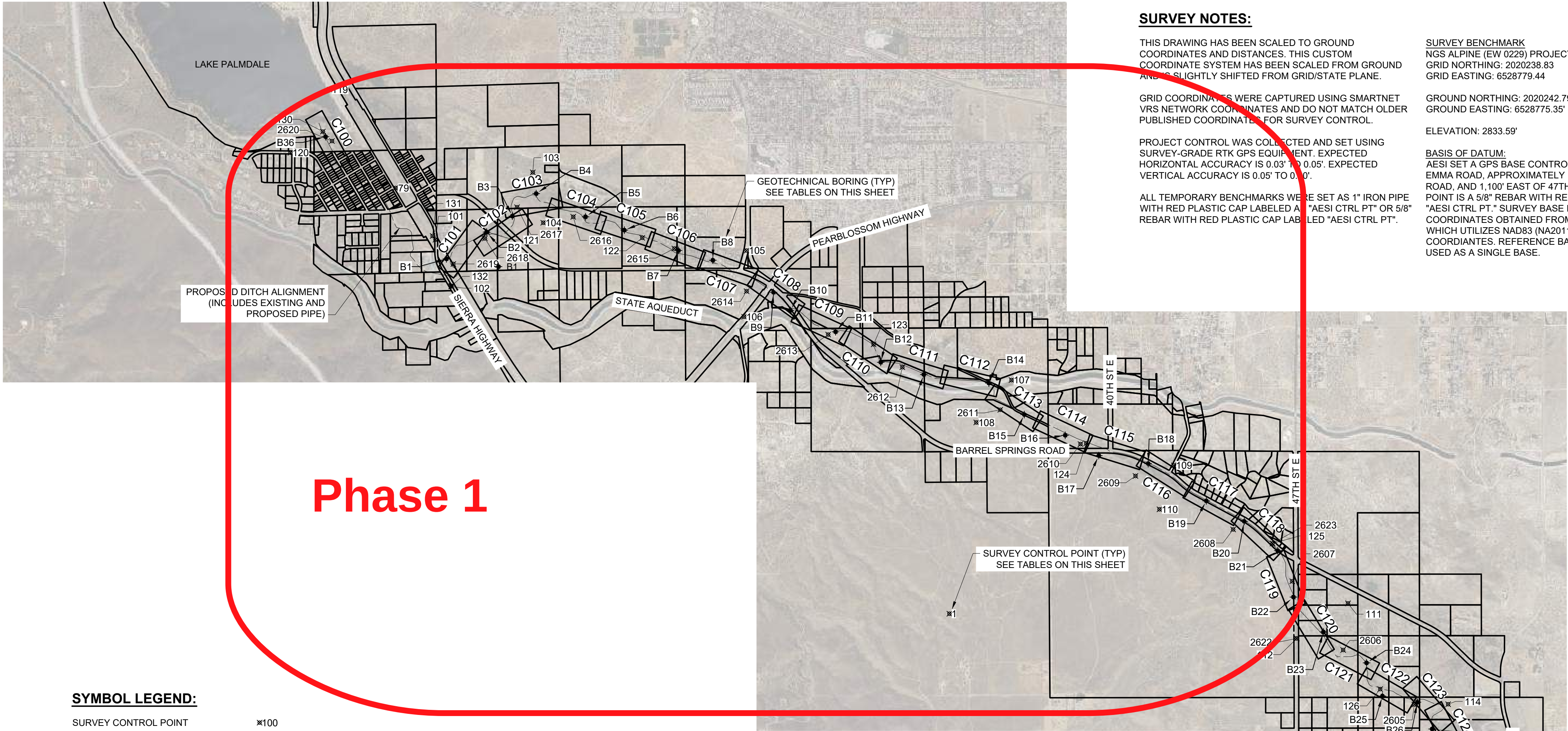
DATE: JANUARY 2025

HAZEN NO.: 20182-004

SPEC NO.: 21-613

DRAWING  
NUMBER:

DD302



Phase 1

**SURVEY NOTES:**

THIS DRAWING HAS BEEN SCALED TO GROUND COORDINATES AND DISTANCES. THIS CUSTOM COORDINATE SYSTEM HAS BEEN SCALED FROM GROUND AND IS SLIGHTLY SHIFTED FROM GRID/STATE PLANE.

GRID COORDINATES WERE CAPTURED USING SMARTNET VRS NETWORK COORDINATES AND DO NOT MATCH OLDER PUBLISHED COORDINATES FOR SURVEY CONTROL.

PROJECT CONTROL WAS COLLECTED AND SET USING SURVEY-GRADE RTK GPS EQUIPMENT. EXPECTED HORIZONTAL ACCURACY IS 0.03' TO 0.05'. EXPECTED VERTICAL ACCURACY IS 0.05' TO 0.10'.

ALL TEMPORARY BENCHMARKS WERE SET AS 1" IRON PIPE WITH RED PLASTIC CAP LABELED AS "AESI CTRL PT." OR 5/8" REBAR WITH RED PLASTIC CAP LABELED "AESI CTRL PT."

SURVEY BENCHMARK  
NGS ALPINE (EW 0229) PROJECT CONTROL PT#79  
GRID NORTHING: 2020238.83  
GRID EASTING: 6528779.44

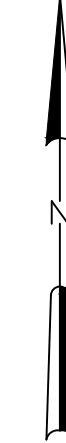
GROUND NORTHING: 2020242.79'  
GROUND EASTING: 6528775.35'  
ELEVATION: 2833.59'

BASIS OF DATUM:  
AESI SET A GPS BASE CONTROL POINT NORTH OF MOUNT EMMA ROAD, APPROXIMATELY 1,300' NORTH OF MT. EMMA ROAD, AND 1,100' EAST OF 47TH STREET EAST. CONTROL POINT IS A 5/8" REBAR WITH RED PLASTIC CAP, LABELED "AESI CTRL PT." SURVEY BASE POINT WAS SET USING COORDINATES OBTAINED FROM SMARTNET VRS NETWORK, WHICH UTILIZES NAD83 (NA2011) (MYCS2) EPOCH 2023.250 COORDIANTES. REFERENCE BASE STATION CALS-3292 WAS USED AS A SINGLE BASE.

GRID:  
DATUM: NAD83(NA2011)(MYCS2)  
EPOCH: 2023.250  
VERTICAL DATUM: NAVD 1988 (CONUS)  
ZONE: CALIFORNIA ZONE 5 - 0405 - NAD83-VF  
GEOID: GEOID 12B (CONUS)

GROUND:  
COMBINED SCALE FACTOR: 0.9997909393  
GROUND SCALE FACTOR: 1.0002091040

PROJECT GRID-TO-GROUND SCALE POINT:  
PT#1  
NORTHING: 2011124.17  
EASTING: 6540633.18



**SYMBOL LEGEND:**

SURVEY CONTROL POINT      X100  
GEOTECHNICAL BORING LOCATION      ♦ B1

| CONTROL POINTS |            |            |             |           |
|----------------|------------|------------|-------------|-----------|
| POINT #        | NORTHING   | EASTING    | DESCRIPTION | ELEVATION |
| 1              | 2011124.17 | 6540633.18 | SCALE PT    | N/A       |
| 2              | 2007459.18 | 6549168.59 | AESI_BASE-2 | 3294.68   |
| 79             | 2020242.79 | 6528775.35 | ALPINE      | 2833.59   |
| 101            | 2019134.62 | 6529629.15 | HV-1        | 2839.53   |
| 102            | 2018132.42 | 6529967.87 | HV-2        | 2859.50   |
| 103            | 2020577.50 | 6531714.66 | HV-3        | 2794.08   |
| 104            | 2019498.32 | 6531938.44 | HV-4        | 2952.81   |
| 105            | 2018902.63 | 6536294.54 | HV-5        | 2881.97   |
| 106            | 2017485.12 | 6536239.15 | HV-6        | 2943.37   |
| 107            | 2016128.96 | 6541962.85 | HV-7        | 2950.96   |
| 108            | 2015221.16 | 6541208.12 | HV-8        | 3007.86   |
| 109            | 2014302.05 | 6545438.76 | HV-9        | 3025.96   |
| 110            | 2013360.53 | 6545131.58 | HV-10       | 3100.15   |
| 111            | 2011346.32 | 6549167.83 | HV-11       | 3046.00   |
| 112            | 2010595.25 | 6548071.15 | HV-12       | 3104.89   |
| 113            | 2008419.93 | 6550305.45 | HV-13       | 3164.60   |
| 114            | 2009186.10 | 6551311.72 | HV-14       | 3125.08   |
| 115            | 2005118.11 | 6550983.85 | HV-15       | 3150.58   |
| 116            | 2004285.14 | 6552878.28 | HV-16       | 3046.64   |
| 117            | 2002414.59 | 6552267.86 | HV-17       | 3287.34   |

| CONTROL POINTS |            |            |             |           |
|----------------|------------|------------|-------------|-----------|
| POINT #        | NORTHING   | EASTING    | DESCRIPTION | ELEVATION |
| 118            | 2001068.54 | 6554405.12 | HV-18       | 3172.42   |
| 119            | 2022347.53 | 6527364.89 | HV-19       | 2827.56   |
| 120            | 2020996.98 | 6526524.75 | HV-20       | 2835.22   |
| 121            | 2019297.93 | 6530741.36 | CHK-1       | 2853.33   |
| 122            | 2019175.43 | 6534056.78 | CHK-2       | 2866.12   |
| 123            | 2016892.82 | 6539010.50 | CHK-3       | 2911.38   |
| 124            | 2014774.30 | 6543562.50 | CHK-4       | 3027.62   |
| 125            | 2012628.64 | 6547551.10 | CHK-5       | 3064.15   |
| 126            | 2009510.18 | 6549856.69 | CHK-6       | 3130.03   |
| 127            | 2006394.79 | 6551274.39 | CHK-7       | 3145.53   |
| 128            | 2003488.58 | 6552495.43 | CHK-8       | 3141.54   |
| 129            | 2002010.83 | 6553910.07 | CHK-9       | 3134.82   |
| 130            | 2021450.65 | 6527219.69 | CHK-10      | 2825.34   |
| 131            | 2019214.83 | 6529569.12 | HV-1B       | 2835.63   |
| 132            | 2018147.98 | 6529972.94 | HV-2B       | 2858.45   |
| 133            | 2000797.70 | 6554046.67 | CHK-11      | 3142.33   |
| 2600           | 2002597.60 | 6553536.82 | TBM 1       | 3137.88   |
| 2601           | 2003959.60 | 6552335.42 | TBM 2       | 3137.75   |
| 2602           | 2005510.74 | 6550900.35 | TBM 3       | 3224.80   |
| 2603           | 2007257.56 | 6551714.05 | TBM 4       | 3152.03   |

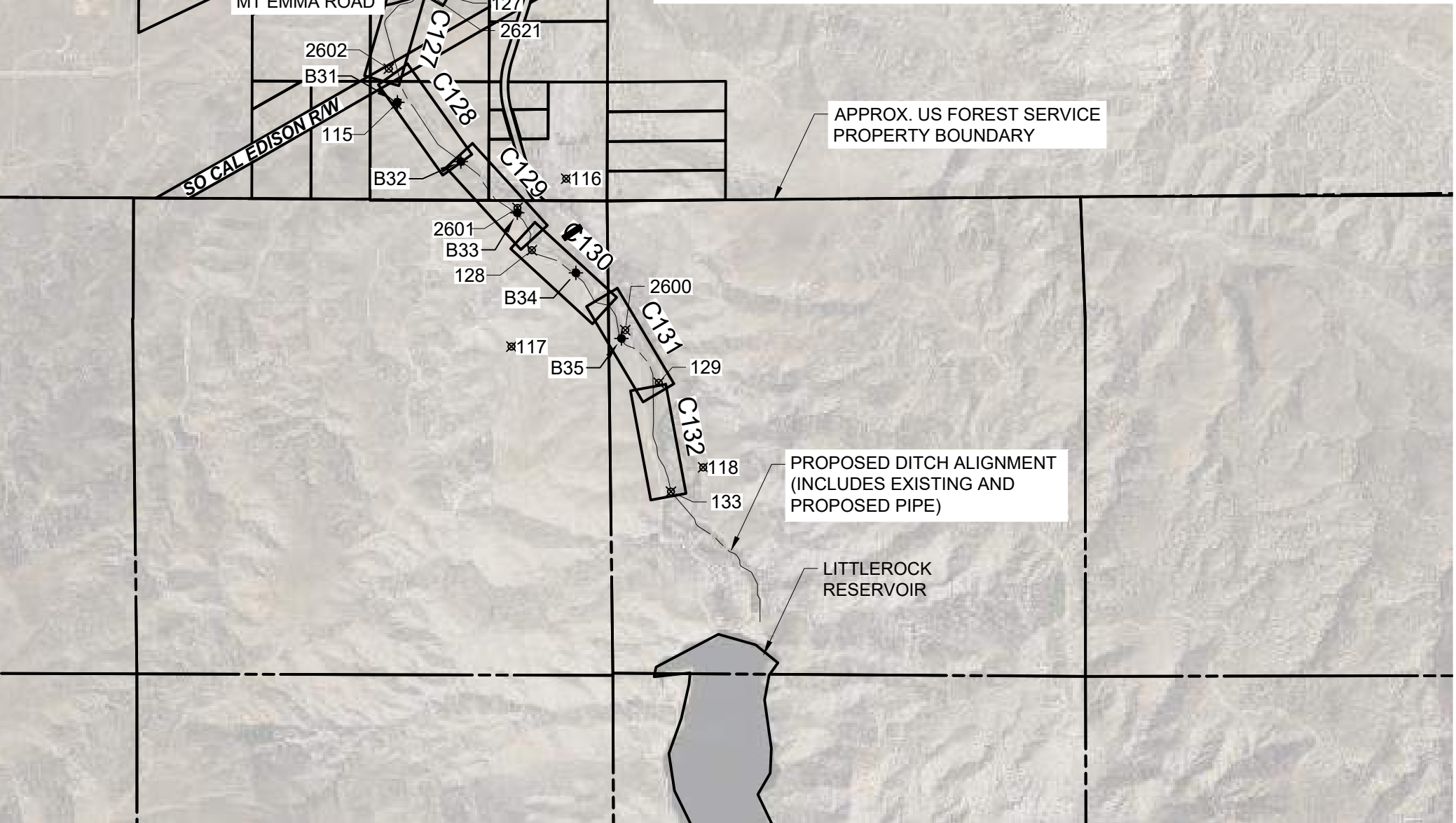
| CONTROL POINTS |            |            |             |           |
|----------------|------------|------------|-------------|-----------|
| POINT #        | NORTHING   | EASTING    | DESCRIPTION | ELEVATION |
| 2604           | 2008527.04 | 6551445.07 | TBM 5       | 3138.91   |
| 2605           | 2009179.14 | 6550587.44 | TBM 6       | 3146.82   |
| 2606           | 2010348.07 | 6549063.26 | TBM 7       | 3125.08   |
| 2607           | 2011819.69 | 6547974.67 | TBM 8       | 3061.43   |
| 2608           | 2012929.54 | 6546708.39 | TBM 9       | 3075.51   |
| 2609           | 2014074.95 | 6544617.27 | TBM 10      | 3058.98   |
| 2610           | 2014757.67 | 6543440.20 | TBM 11      | 3032.46   |
| 2611           | 2015492.60 | 6541722.32 | TBM 12      | 2981.04   |
| 2612           | 2016404.44 | 6539626.24 | TBM 13      | 2924.85   |
| 2613           | 2017103.18 | 6538038.11 | TBM 14      | 2911.47   |
| 2614           | 2018031.34 | 6536291.22 | TBM 15      | 2909.10   |
| 2615           | 2018946.66 | 6534745.05 | TBM 16      | 2853.62   |
| 2616           | 2019624.59 | 6532579.82 | TBM 17      | 2878.58   |
| 2617           | 2019830.63 | 6531377.10 | TBM 18      | 2870.13   |
| 2618           | 2019161.90 | 6530688.88 | TBM 19      | 2855.69   |
| 2619           | 2018615.20 | 6530013.03 | TBM 20      | 2878.66   |
| 2620           | 2021247.95 | 6527414.27 | TBM 21      | 2829.49   |
| 2621           | 2006394.75 | 6551274.38 | CHK7R*      | 3145.54   |
| 2622           | 2010595.21 | 6548071.14 | HV12R*      | 3104.90   |
| 2623           | 2012628.61 | 6547551.08 | CHK5R*      | 3064.12   |

\*NOTE: ORIGINAL PANEL POINT WAS DISTURBED AFTER AERIAL FLIGHT. R\* INDICATES POINT WAS RE-ESTABLISHED AND SUPERCEDES ORIGINAL PANEL POINT.

| GEOTECH BORING LOCATIONS |           |          |
|--------------------------|-----------|----------|
| BORING #                 | NORTHING* | EASTING* |
| B1                       | 2018724±  | 6529865± |
| B2                       | 2019298±  | 6530724± |
| B3                       | 2019640±  | 6531276± |
| B4                       | 2020122±  | 6531787± |
| B5                       | 2019626±  | 6532843± |
| B6                       | 2019340±  | 6533674± |
| B7                       | 2018904±  | 6534834± |
| B8                       | 2018695±  | 6535569± |
| B9                       | 2018009±  | 6536868± |
| B10                      | 2017621±  | 6537231± |
| B11                      | 2017163±  | 6538196± |
| B12                      | 2016509±  | 6539164± |
| B13                      | 2016248±  | 6540086± |
| B14                      | 2016063±  | 6541480± |
| B15                      | 2015390±  | 6542236± |
| B16                      | 2014945±  | 6543113± |
| B17                      | 2014510±  | 6543832± |
| B18                      | 2014340±  | 6544890± |
| B19                      | 2013540±  | 6546134± |
| B20                      | 2013102±  | 6546946± |

| GEOTECH BORING LOCATIONS |           |          |
|--------------------------|-----------|----------|
| BORING #                 | NORTHING* | EASTING* |
| B21                      | 2012475±  | 6547663± |
| B22                      | 2011481±  | 6547999± |
| B23                      | 2010735±  | 6548641± |
| B24                      | 2010072±  | 6549564± |
| B25                      | 2009361±  | 6549905± |
| B26                      | 2009229±  | 6550653± |
| B27                      | 2008655±  | 6550969± |
| B28                      | 2008045±  | 6551729± |
| B29                      | 2007537±  | 6551905± |
| B30                      | 2006461±  | 6551377± |
| B31                      | 2005137±  | 6550996± |
| B32                      | 2004476±  | 6551704± |
| B33                      | 2003906±  | 6552333± |
| B34                      | 2003236±  | 6552986± |
| B35                      | 2002505±  | 6553494± |
| B36                      | 2021341±  | 6527277± |

\*NOTE: GEOTECHNICAL BORING LOCATIONS ARE APPROXIMATE AND HAVE NOT BEEN SURVEYED. SEE GEOTECH REPORT FOR SOIL INFORMATION.



|     |            |      |    |                                                                   |               |
|-----|------------|------|----|-------------------------------------------------------------------|---------------|
|     |            |      |    | PROJECT ENGINEER:                                                 | J. BORCHARDT  |
|     |            |      |    | DESIGNED BY:                                                      | A. BROWN      |
|     |            |      |    | DRAWN BY:                                                         | G. WILLIAMS   |
|     |            |      |    | CHECKED BY:                                                       | S. WILLIAMSON |
|     |            |      |    | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE |               |
| REV | ISSUED FOR | DATE | BY |                                                                   |               |

90% DRAWING  
DO NOT USE FOR  
CONSTRUCTION

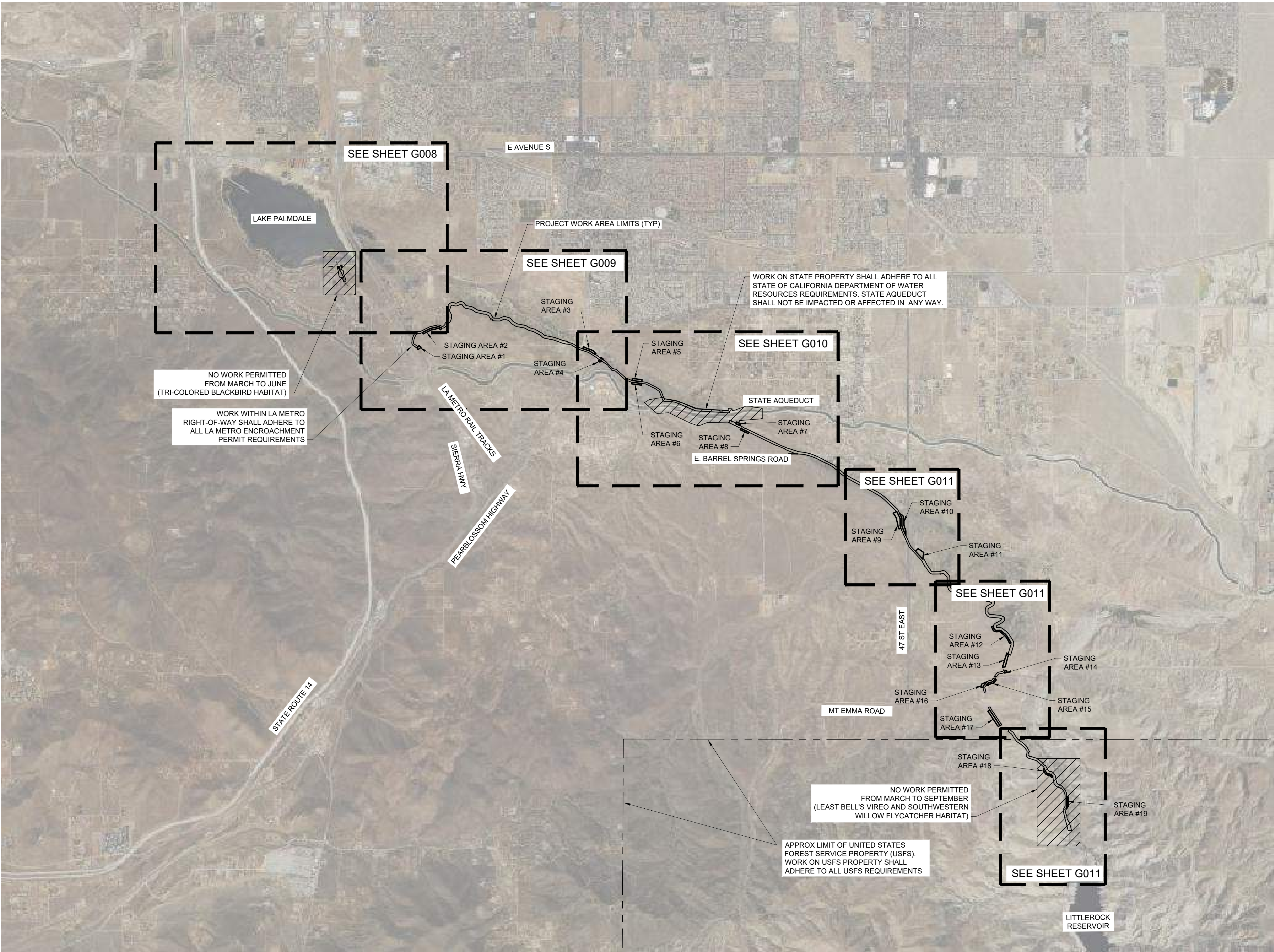
**Hazen**  
HAZEN AND SAWYER  
800 WEST 6th STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



|                         |      |
|-------------------------|------|
| PALMDALE WATER DISTRICT |      |
| APPROVED BY:            |      |
| TITLE                   | DATE |

|                                                              |  |                 |              |
|--------------------------------------------------------------|--|-----------------|--------------|
| PALMDALE DITCH CONVERSION PROJECT                            |  | DATE:           | JANUARY 2025 |
| GENERAL<br>KEY PLAN, SURVEY CONTROL,<br>AND BORING LOCATIONS |  | HAZEN NO.:      | 20182-004    |
|                                                              |  | SPEC NO.:       | 21-613       |
|                                                              |  | DRAWING NUMBER: | G004         |

File: C:\USERS\CORPORAL\ACCD\DESIGN\HAZEN AND SAWYER\2018-004\G007 Saved by: JCDPDLA Save date: 1/7/2025 5:18 PM  
Plot Date: 1/9/2025 3:51 PM BY: JCDPDLA



ACCESS AND WORK AREA NOTES:

1. SEE PLAN AND PROFILE SHEETS FOR PROJECT IMPROVEMENTS.
2. ACCESS AND WORK AREA PLANS INDICATE THE SCHEMATIC LAYOUT OF APPROVED ROUTES FOR ENTRY TO AND EXIT FROM THE PROJECT WORK LIMITS, AS WELL AS INDICATE THE SCHEMATIC LOCATIONS OF STAGING AREAS FOR CONTRACTOR'S BIDDING PURPOSES.
3. CONTRACTOR'S WORK (i.e. LAND DISTURBANCE, VEGETATION CLEARING, EQUIPMENT OPERATION, STORAGE, STAGING, ETC.) SHALL BE RESTRICTED TO THE WORK LIMITS SHOWN ON THE DRAWINGS. WHILE USE OF EXISTING DIRT ROADS OUTSIDE OF THE WORK LIMITS IS PERMITTED, GRADING OR VEGETATION REMOVAL OF THESE ROADWAYS OUTSIDE OF THE WORK LIMITS IS PROHIBITED.
4. CONTRACTOR IS PERMITTED TO USE ALL AREAS IMMEDIATELY ADJACENT TO THE EXISTING DITCH WITHIN THE APPROVED WORK LIMITS FOR STORAGE AND STAGING OF EQUIPMENT AND MATERIALS. AS SUCH, ENVIRONMENTAL PERMITS HAVE BEEN PROCESSED TO INCLUDE SEVERAL LARGER AREAS ALONG THE ALIGNMENT FOR CONTRACTOR'S USE WHICH ARE INDICATED ON THE PLANS. CONTRACTOR SHALL PAY CLOSE ATTENTION TO THESE AREAS DURING BIDDING TO ENSURE THAT APPROPRIATE MEANS/METHODS ARE PLANNED ACCORDINGLY.
5. COMPLIANCE WITH STATE ENVIRONMENTAL LAWS AND PERMITS PROHIBIT CONTRACTOR FROM USING ANY AREAS OUTSIDE OF THE WORK LIMITS INDICATED ON THE DRAWINGS. USE OF AREAS OUTSIDE OF THESE LIMITS (OTHER THAN INGRESS/EGRESS ON EXISTING DIRT ROADWAYS) WILL REQUIRE WRITTEN APPROVAL FROM PWD AND WILL ALSO REQUIRE AMENDMENTS TO ENVIRONMENTAL COMPLIANCE DOCUMENTS AND PERMITS AS NECESSARY BEFORE ANY SUCH WORK (INCLUDING ANY MOBILIZATION OR STAGING) CAN BE PERFORMED.
6. CONTRACTOR SHALL ADHERE TO ALL SEASONAL WORK RESTRICTIONS AS DESCRIBED ON THE PLANS AND SPECIFICATIONS, AND SHALL SUBMIT A SCHEDULE FOR REVIEW AND APPROVAL BY PWD THAT INCLUDES THESE RESTRICTIONS. SEE PLAN FOR APPROXIMATE AREAS REQUIRING SEASONAL WORK RESTRICTIONS FOR PROTECTED SPECIES.
7. POTENTIAL ACCESS POINTS SHOWN ON PLANS SHALL BE ASSUMED TO BE UNCONTROLLED (I.E. NO BOLLARDS, LOCKED GATES, ETC.) UNLESS STATED OTHERWISE.
8. THE WIDTH OF THE PROJECT WORK LIMITS VARIES ALONG THE ALIGNMENT TO PROVIDE SUFFICIENT CLEARANCE FROM PROTECTED ENVIRONMENTAL FEATURES AND SPECIES. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE THE WORK LIMIT LINE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL INSTALL TEMPORARY PROTECTION BARRIER FENCING ALONG THE WORK LIMIT LINE ALONG THE SEGMENT UNDER CONSTRUCTION, EXTENDING AT LEAST 500 FEET BEHIND AND AHEAD OF CONTRACTOR'S CREWS.
9. SEE DEPARTMENT OF WATER RESOURCES NOTES ON G002 FOR ANY WORK PERFORMED WITHIN THE DWR RIGHT-OF-WAY.

PLAN  
SCALE: 1"=2,000'

|     |            |      |    |                                                                   |               |
|-----|------------|------|----|-------------------------------------------------------------------|---------------|
|     |            |      |    | PROJECT ENGINEER:                                                 | J. BORCHARDT  |
|     |            |      |    | DESIGNED BY:                                                      | A. BROWN      |
|     |            |      |    | DRAWN BY:                                                         | G. WILLIAMS   |
|     |            |      |    | CHECKED BY:                                                       | S. WILLIAMSON |
|     |            |      |    | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | 0 1/2" 1"     |
| REV | ISSUED FOR | DATE | BY |                                                                   |               |

90% DRAWING  
DO NOT USE FOR  
CONSTRUCTION

**Hazen**  
HAZEN AND SAWYER  
800 WEST 6th STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



PALMDALE WATER DISTRICT

APPROVED BY:

TITLE DATE

PALMDALE DITCH CONVERSION PROJECT

GENERAL  
ACCESS AND WORK AREAS  
KEY MAP

DATE: JANUARY 2025

HAZEN NO.: 20182-004

SPEC NO.: 21-613

DRAWING  
NUMBER:

G007

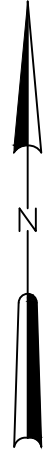
File: C:\USERS\CORPO\ACAD\CADD\Hazen and Sawyer\2018-2024\PALMDALE DITCH CONVERSION\PROJECT FILES\01 DESIGN\GENERAL\2018-2004-000 Saved by CIVIL\JMS Save Date: 11/14/2024 9:27 AM  
PLOT DATE: 09/20/25 3:52 PM BY: JCDP/PLA



PLAN  
SCALE: 1"=400'

ACCESS AND WORK AREA NOTES:

1. SEE PLAN AND PROFILE SHEETS FOR PROJECT IMPROVEMENTS.
2. ACCESS AND WORK AREA PLANS INDICATE THE SCHEMATIC LAYOUT OF APPROVED ROUTES FOR ENTRY TO AND EXIT FROM THE PROJECT WORK LIMITS, AS WELL AS INDICATE THE SCHEMATIC LOCATIONS OF STAGING AREAS FOR CONTRACTOR'S BIDDING PURPOSES.
3. CONTRACTOR'S WORK (i.e. LAND DISTURBANCE, VEGETATION CLEARING, EQUIPMENT OPERATION, STORAGE, STAGING, ETC.) SHALL BE RESTRICTED TO THE WORK LIMITS SHOWN ON THE DRAWINGS. WHILE USE OF EXISTING DIRT ROADS OUTSIDE OF THE WORK LIMITS IS PERMITTED, GRADING OR VEGETATION REMOVAL OF THESE ROADWAYS OUTSIDE OF THE WORK LIMITS IS PROHIBITED.
4. CONTRACTOR IS PERMITTED TO USE ALL AREAS IMMEDIATELY ADJACENT TO THE EXISTING DITCH WITHIN THE APPROVED WORK LIMITS FOR STORAGE AND STAGING OF EQUIPMENT AND MATERIALS. AS SUCH, ENVIRONMENTAL PERMITS HAVE BEEN PROCESSED TO INCLUDE SEVERAL LARGER AREAS ALONG THE ALIGNMENT FOR CONTRACTOR'S USE WHICH ARE INDICATED ON THE PLANS. CONTRACTOR SHALL PAY CLOSE ATTENTION TO THESE AREAS DURING BIDDING TO ENSURE THAT APPROPRIATE MEANS/METHODS ARE PLANNED ACCORDINGLY.
5. COMPLIANCE WITH STATE ENVIRONMENTAL LAWS AND PERMITS PROHIBIT CONTRACTOR FROM USING ANY AREAS OUTSIDE OF THE WORK LIMITS INDICATED ON THE DRAWINGS. USE OF AREAS OUTSIDE OF THESE LIMITS (OTHER THAN INGRESS/EGRESS ON EXISTING DIRT ROADWAYS) WILL REQUIRE WRITTEN APPROVAL FROM PWD AND WILL ALSO REQUIRE AMENDMENTS TO ENVIRONMENTAL COMPLIANCE DOCUMENTS AND PERMITS AS NECESSARY BEFORE ANY SUCH WORK (INCLUDING ANY MOBILIZATION OR STAGING) CAN BE PERFORMED.
6. CONTRACTOR SHALL ADHERE TO ALL SEASONAL WORK RESTRICTIONS AS DESCRIBED ON THE PLANS AND SPECIFICATIONS, AND SHALL SUBMIT A SCHEDULE FOR REVIEW AND APPROVAL BY PWD THAT INCLUDES THESE RESTRICTIONS. SEE PLAN FOR APPROXIMATE AREAS REQUIRING SEASONAL WORK RESTRICTIONS FOR PROTECTED SPECIES.
7. POTENTIAL ACCESS POINTS SHOWN ON PLANS SHALL BE ASSUMED TO BE UNCONTROLLED (I.E. NO BOLLARDS, LOCKED GATES, ETC.) UNLESS STATED OTHERWISE.
8. THE WIDTH OF THE PROJECT WORK LIMITS VARIES ALONG THE ALIGNMENT TO PROVIDE SUFFICIENT CLEARANCE FROM PROTECTED ENVIRONMENTAL FEATURES AND SPECIES. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE THE WORK LIMIT LINE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL INSTALL TEMPORARY PROTECTION BARRIER FENCING ALONG THE WORK LIMIT LINE ALONG THE SEGMENT UNDER CONSTRUCTION, EXTENDING AT LEAST 500 FEET BEHIND AND AHEAD OF CONTRACTOR'S CREWS.
9. SEE DEPARTMENT OF WATER RESOURCES NOTES ON G002 FOR ANY WORK PERFORMED WITHIN THE DWR RIGHT-OF-WAY.



|     |            |      |    |                                                                   |               |
|-----|------------|------|----|-------------------------------------------------------------------|---------------|
|     |            |      |    | PROJECT ENGINEER:                                                 | J. BORCHARDT  |
|     |            |      |    | DESIGNED BY:                                                      | A. BROWN      |
|     |            |      |    | DRAWN BY:                                                         | G. WILLIAMS   |
|     |            |      |    | CHECKED BY:                                                       | S. WILLIAMSON |
|     |            |      |    | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | 0 1/2" 1"     |
| REV | ISSUED FOR | DATE | BY |                                                                   |               |

90% DRAWING  
DO NOT USE FOR  
CONSTRUCTION

**Hazen**  
HAZEN AND SAWYER  
800 WEST 6th STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



PALMDALE WATER DISTRICT

APPROVED BY:

TITLE DATE

PALMDALE DITCH CONVERSION PROJECT

GENERAL  
ACCESS AND WORK AREAS - 1

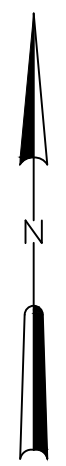
DATE: JANUARY 2025

HAZEN NO.: 20182-004

SPEC NO.: 21-613

DRAWING NUMBER:

G008



1. SEE PLAN AND PROFILE SHEETS FOR PROJECT IMPROVEMENTS.
2. ACCESS AND WORK AREA PLANS INDICATE THE SCHEMATIC LAYOUT OF APPROVED ROADS FOR ENTRY TO AND EXIT FROM THE PROJECT WORK LIMITS, AS WELL AS INDICATE THE SCHEMATIC LOCATIONS OF STAGING AREAS FOR CONTRACTOR'S BIDDING PURPOSES.
3. CONTRACTOR'S WORK (I.E. LAND DISTURBANCE, VEGETATION CLEARING, EQUIPMENT OPERATION, STORAGE, STAGING, ETC.) SHALL BE RESTRICTED TO THE WORK LIMITS SHOWN ON THE DRAWINGS WHILE USE OF EXISTING DIRT ROADS OUTSIDE OF THE WORK LIMITS IS PERMITTED. GRADING OR VEGETATION REMOVAL OF THESE ROADWAYS OUTSIDE OF THE WORK LIMITS IS PROHIBITED.
4. CONTRACTOR IS PERMITTED TO USE ALL AREAS IMMEDIATELY ADJACENT TO THE EXISTING DITCH WITHIN THE APPROVED WORK LIMITS FOR STORAGE AND STAGING OF EQUIPMENT AND MATERIALS. AS SUCH, ENVIRONMENTAL PERMITS HAVE BEEN PROCESSED TO INCLUDE SEVERAL LARGER AREAS ALONG THE ALIGNMENT FOR CONTRACTOR'S USE WHICH ARE INDICATED ON THE PLANS. CONTRACTOR SHALL PAY CLOSE ATTENTION TO THESE AREAS DURING BIDDING TO ENSURE THAT APPROPRIATE MEANS/METHODS ARE PLANNED ACCORDINGLY.
5. COMPLIANCE WITH STATE ENVIRONMENTAL LAWS AND PERMITS PROHIBIT CONTRACTOR FROM USING ANY AREAS OUTSIDE OF THE WORK LIMITS INDICATED ON THE DRAWINGS. USE OF AREAS OUTSIDE OF THESE LIMITS (OTHER THAN INGRESS/EGRESS ON EXISTING DIRT ROADWAYS) WILL REQUIRE WRITTEN APPROVAL FROM PWD AND WILL ALSO REQUIRE AMENDMENTS TO ENVIRONMENTAL COMPLIANCE DOCUMENTS AND PERMITS AS NECESSARY BEFORE ANY SUCH WORK (INCLUDING ANY MOBILIZATION OR STAGING) CAN BE PERFORMED.
6. CONTRACTOR SHALL ADHERE TO ALL SEASONAL WORK RESTRICTIONS AS DESCRIBED ON THE PLANS AND SPECIFICATIONS, AND SHALL SUBMIT A SCHEDULE FOR REVIEW AND APPROVAL BY PWD THAT INCLUDES THESE RESTRICTIONS. SEE PLAN FOR APPROXIMATE AREAS REQUIRING SEASONAL WORK RESTRICTIONS FOR PROTECTED SPECIES.
7. POTENTIAL ACCESS POINTS SHOWN ON PLANS SHALL BE ASSUMED TO BE UNCONTROLLED (I.E. NO BOLLARDS, LOCKED GATES, ETC.) UNLESS STATED OTHERWISE.
8. THE WIDTH OF THE PROJECT WORK LIMITS VARIES ALONG THE ALIGNMENT TO PROVIDE SUFFICIENT CLEARANCE FROM PROTECTED ENVIRONMENTAL FEATURES AND SPECIES. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE THE WORK LIMIT LINE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL INSTALL TEMPORARY PROTECTION BARRIER FENCING ALONG THE WORK LIMIT LINE ALONG THE SEGMENT UNDER CONSTRUCTION, EXTENDING AT LEAST 500 FEET BEHIND AND AHEAD OF CONTRACTOR'S CREWS.
9. SEE DEPARTMENT OF WATER RESOURCES NOTES ON G002 FOR ANY WORK PERFORMED WITHIN THE DWR RIGHT-OF-WAY.

SEE SHEET #####

# Hazen

HAZEN AND SAWYER  
800 WEST 6TH STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



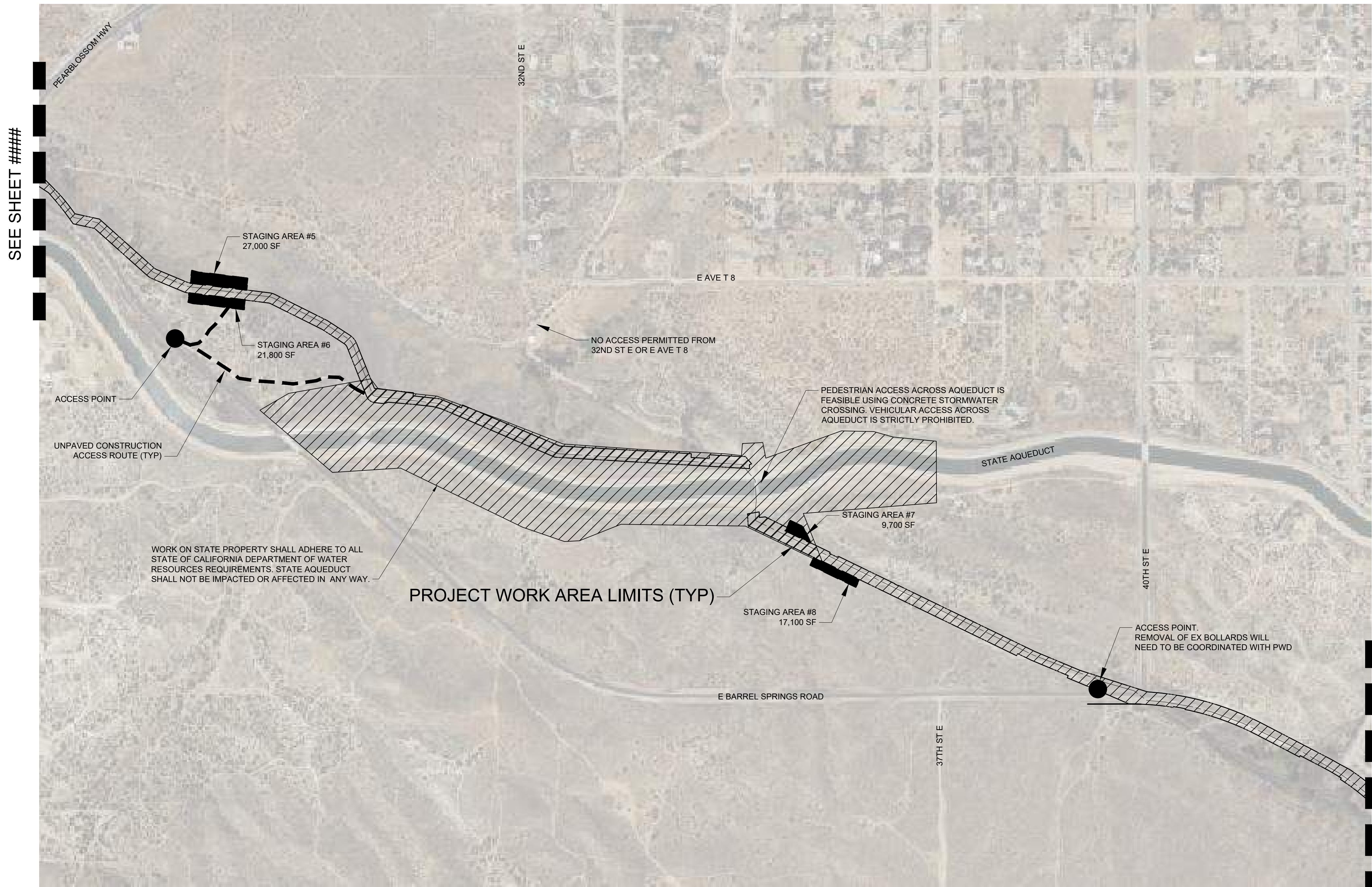
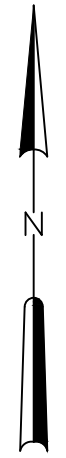
APPROVED BY:

\_\_\_\_\_

| TITLE | DATE |
|-------|------|
|-------|------|

## GENERAL ACCESS AND WORK AREAS - 2

|                    |              |
|--------------------|--------------|
| DATE:              | JANUARY 2025 |
| HAZEN NO.:         | 20182-004    |
| SPEC NO.:          | 21-613       |
| DRAWING<br>NUMBER: | G009         |



ACCESS AND WORK AREA NOTES:

1. SEE PLAN AND PROFILE SHEETS FOR PROJECT IMPROVEMENTS.
2. ACCESS AND WORK AREA PLANS INDICATE THE SCHEMATIC LAYOUT OF APPROVED ROUTES FOR ENTRY TO AND EXIT FROM THE PROJECT WORK LIMITS, AS WELL AS INDICATE THE SCHEMATIC LOCATIONS OF STAGING AREAS FOR CONTRACTOR'S BIDDING PURPOSES.
3. CONTRACTOR'S WORK (i.e. LAND DISTURBANCE, VEGETATION CLEARING, EQUIPMENT OPERATION, STORAGE, STAGING, ETC.) SHALL BE RESTRICTED TO THE WORK LIMITS SHOWN ON THE DRAWINGS. WHILE USE OF EXISTING DIRT ROADS OUTSIDE OF THE WORK LIMITS IS PERMITTED, GRADING OR VEGETATION REMOVAL OF THESE ROADWAYS OUTSIDE OF THE WORK LIMITS IS PROHIBITED.
4. CONTRACTOR IS PERMITTED TO USE ALL AREAS IMMEDIATELY ADJACENT TO THE EXISTING DITCH WITHIN THE APPROVED WORK LIMITS FOR STORAGE AND STAGING OF EQUIPMENT AND MATERIALS. AS SUCH, ENVIRONMENTAL PERMITS HAVE BEEN PROCESSED TO INCLUDE SEVERAL LARGER AREAS ALONG THE ALIGNMENT FOR CONTRACTOR'S USE WHICH ARE INDICATED ON THE PLANS. CONTRACTOR SHALL PAY CLOSE ATTENTION TO THESE AREAS DURING BIDDING TO ENSURE THAT APPROPRIATE MEANS/METHODS ARE PLANNED ACCORDINGLY.
5. COMPLIANCE WITH STATE ENVIRONMENTAL LAWS AND PERMITS PROHIBIT CONTRACTOR FROM USING ANY AREAS OUTSIDE OF THE WORK LIMITS INDICATED ON THE DRAWINGS. USE OF AREAS OUTSIDE OF THESE LIMITS (OTHER THAN INGRESS/EGRESS ON EXISTING DIRT ROADWAYS) WILL REQUIRE WRITTEN APPROVAL FROM PWD AND WILL ALSO REQUIRE AMENDMENTS TO ENVIRONMENTAL COMPLIANCE DOCUMENTS AND PERMITS AS NECESSARY BEFORE ANY SUCH WORK (INCLUDING ANY MOBILIZATION OR STAGING) CAN BE PERFORMED.
6. CONTRACTOR SHALL ADHERE TO ALL SEASONAL WORK RESTRICTIONS AS DESCRIBED ON THE PLANS AND SPECIFICATIONS, AND SHALL SUBMIT A SCHEDULE FOR REVIEW AND APPROVAL BY PWD THAT INCLUDES THESE RESTRICTIONS. SEE PLAN FOR APPROXIMATE AREAS REQUIRING SEASONAL WORK RESTRICTIONS FOR PROTECTED SPECIES.
7. POTENTIAL ACCESS POINTS SHOWN ON PLANS SHALL BE ASSUMED TO BE UNCONTROLLED (I.E. NO BOLLARDS, LOCKED GATES, ETC.) UNLESS STATED OTHERWISE.
8. THE WIDTH OF THE PROJECT WORK LIMITS VARIES ALONG THE ALIGNMENT TO PROVIDE SUFFICIENT CLEARANCE FROM PROTECTED ENVIRONMENTAL FEATURES AND SPECIES. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE THE WORK LIMIT LINE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL INSTALL TEMPORARY PROTECTION BARRIER FENCING ALONG THE WORK LIMIT LINE ALONG THE SEGMENT UNDER CONSTRUCTION, EXTENDING AT LEAST 500 FEET BEHIND AND AHEAD OF CONTRACTOR'S CREWS.
9. SEE DEPARTMENT OF WATER RESOURCES NOTES ON G002 FOR ANY WORK PERFORMED WITHIN THE DWR RIGHT-OF-WAY.

PLAN  
SCALE: 1"=400'

File: C:\USERS\CORPOL\ACAD\CADD\Hazen and Sawyer\2018-2024\_PALMDALE DITCH CONVERSION\PROJECT FILES\01\_DESIGN\GENERAL\20182-004\_G010\_Saved by WILLIAMS Save date: 1/31/2024 1:44 PM  
PLOT DATE: 1/30/2025 4:00 PM BY: JCDP/PLA

|     |            |      |    |                                                                   |               |
|-----|------------|------|----|-------------------------------------------------------------------|---------------|
|     |            |      |    | PROJECT ENGINEER:                                                 | J. BORCHARDT  |
|     |            |      |    | DESIGNED BY:                                                      | A. BROWN      |
|     |            |      |    | DRAWN BY:                                                         | G. WILLIAMS   |
|     |            |      |    | CHECKED BY:                                                       | S. WILLIAMSON |
|     |            |      |    | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | 0 1/2" 1"     |
| REV | ISSUED FOR | DATE | BY |                                                                   |               |

90% DRAWING  
DO NOT USE FOR  
CONSTRUCTION

**Hazen**  
HAZEN AND SAWYER  
800 WEST 6th STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



PALMDALE WATER DISTRICT

APPROVED BY:

TITLE DATE

PALMDALE DITCH CONVERSION PROJECT

GENERAL  
ACCESS AND WORK AREAS - 3

DATE: JANUARY 2025

HAZEN NO.: 20182-004

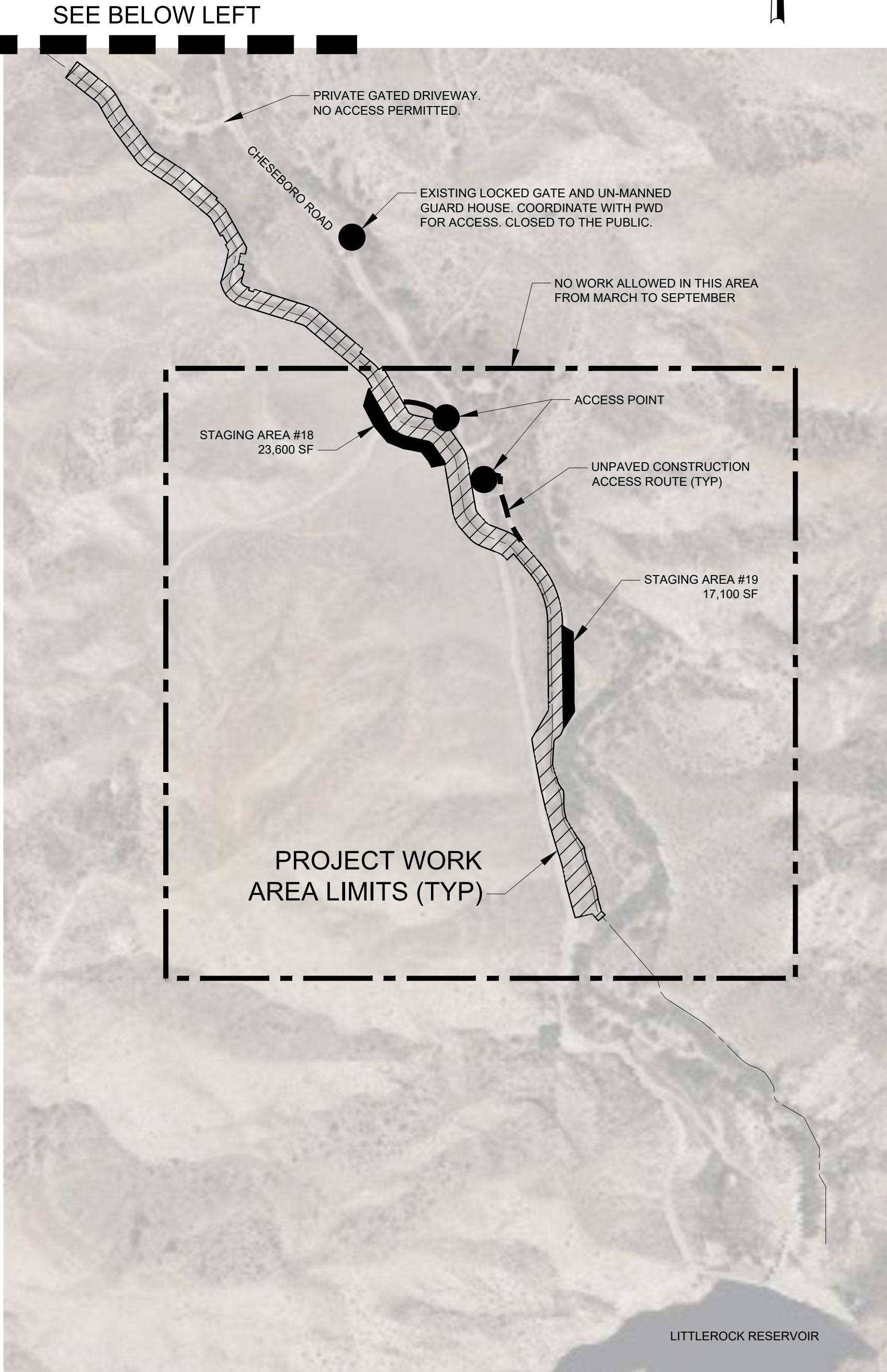
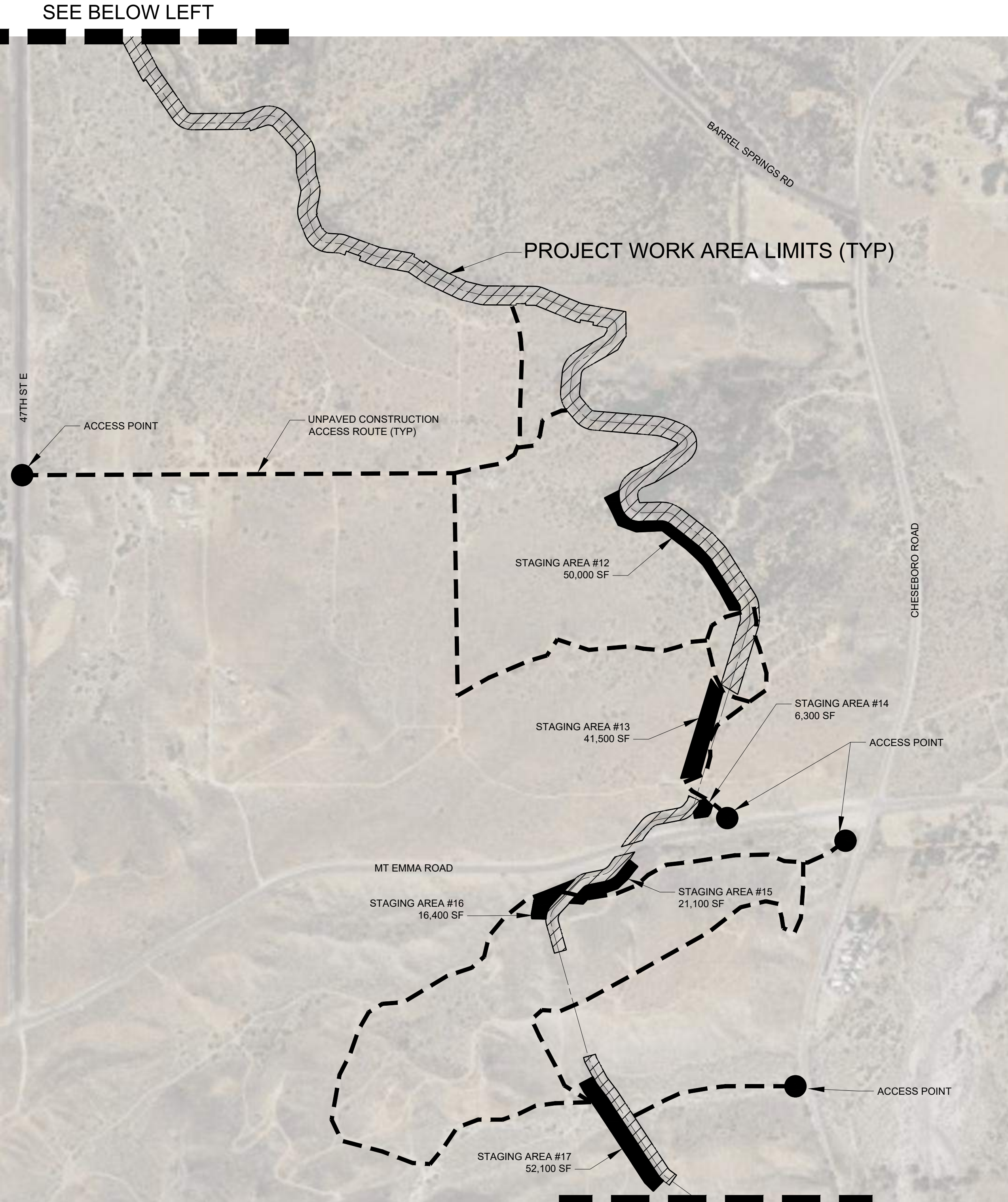
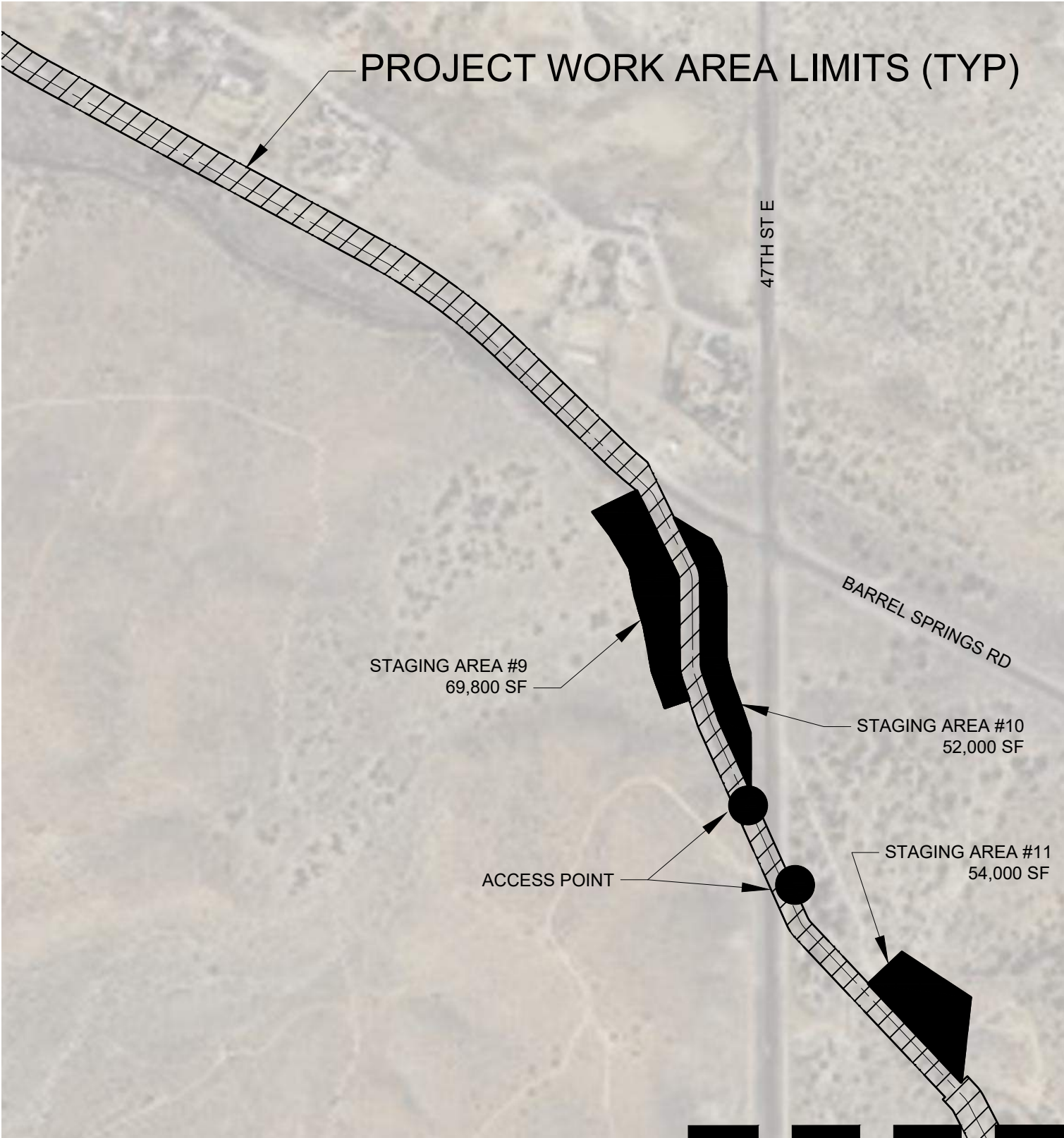
SPEC NO.: 21-613

DRAWING  
NUMBER:

G010

ACCESS AND WORK AREA NOTES:

1. SEE PLAN AND PROFILE SHEETS FOR PROJECT IMPROVEMENTS.
2. ACCESS AND WORK AREA PLANS INDICATE THE SCHEMATIC LAYOUT OF APPROVED ROUTES FOR ENTRY TO AND EXIT FROM THE PROJECT WORK LIMITS, AS WELL AS INDICATE THE SCHEMATIC LOCATIONS OF STAGING AREAS FOR CONTRACTOR'S BIDDING PURPOSES.
3. CONTRACTOR'S WORK (i.e. LAND DISTURBANCE, VEGETATION CLEARING, EQUIPMENT OPERATION, STORAGE, STAGING, ETC.) SHALL BE RESTRICTED TO THE WORK LIMITS SHOWN ON THE DRAWINGS. WHILE USE OF EXISTING DIRT ROADS OUTSIDE OF THE WORK LIMITS IS PERMITTED, GRADING OR VEGETATION REMOVAL OF THESE ROADWAYS OUTSIDE OF THE WORK LIMITS IS PROHIBITED.
4. CONTRACTOR IS PERMITTED TO USE ALL AREAS IMMEDIATELY ADJACENT TO THE EXISTING DITCH WITHIN THE APPROVED WORK LIMITS FOR STORAGE AND STAGING OF EQUIPMENT AND MATERIALS. AS SUCH, ENVIRONMENTAL PERMITS HAVE BEEN PROCESSED TO INCLUDE SEVERAL LARGER AREAS ALONG THE ALIGNMENT FOR CONTRACTOR'S USE WHICH ARE INDICATED ON THE PLANS. CONTRACTOR SHALL PAY CLOSE ATTENTION TO THESE AREAS DURING BIDDING TO ENSURE THAT APPROPRIATE MEANS/METHODS ARE PLANNED ACCORDINGLY.
5. COMPLIANCE WITH STATE ENVIRONMENTAL LAWS AND PERMITS PROHIBIT CONTRACTOR FROM USING ANY AREAS OUTSIDE OF THE WORK LIMITS INDICATED ON THE DRAWINGS. USE OF AREAS OUTSIDE OF THESE LIMITS (OTHER THAN INGRESS/EGRESS ON EXISTING DIRT ROADWAYS) WILL REQUIRE WRITTEN APPROVAL FROM PWD AND WILL ALSO REQUIRE AMENDMENTS TO ENVIRONMENTAL COMPLIANCE DOCUMENTS AND PERMITS AS NECESSARY BEFORE ANY SUCH WORK (INCLUDING ANY MOBILIZATION OR STAGING) CAN BE PERFORMED.
6. CONTRACTOR SHALL ADHERE TO ALL SEASONAL WORK RESTRICTIONS AS DESCRIBED ON THE PLANS AND SPECIFICATIONS, AND SHALL SUBMIT A SCHEDULE FOR REVIEW AND APPROVAL BY PWD THAT INCLUDES THESE RESTRICTIONS. SEE PLAN FOR APPROXIMATE AREAS REQUIRING SEASONAL WORK RESTRICTIONS FOR PROTECTED SPECIES.
7. POTENTIAL ACCESS POINTS SHOWN ON PLANS SHALL BE ASSUMED TO BE UNCONTROLLED (I.E. NO BOLLARDS, LOCKED GATES, ETC.) UNLESS STATED OTHERWISE.
8. THE WIDTH OF THE PROJECT WORK LIMITS VARIES ALONG THE ALIGNMENT TO PROVIDE SUFFICIENT CLEARANCE FROM PROTECTED ENVIRONMENTAL FEATURES AND SPECIES. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE THE WORK LIMIT LINE PRIOR TO BEGINNING WORK. CONTRACTOR SHALL INSTALL TEMPORARY PROTECTION BARRIER FENCING ALONG THE WORK LIMIT LINE ALONG THE SEGMENT UNDER CONSTRUCTION, EXTENDING AT LEAST 500 FEET BEHIND AND AHEAD OF CONTRACTOR'S CREWS.
9. SEE DEPARTMENT OF WATER RESOURCES NOTES ON G002 FOR ANY WORK PERFORMED WITHIN THE DWR RIGHT-OF-WAY.



|     |            |      |    |                                                                   |              |
|-----|------------|------|----|-------------------------------------------------------------------|--------------|
|     |            |      |    | PROJECT ENGINEER:                                                 | J. BORCHARDT |
|     |            |      |    | DESIGNED BY:                                                      | TBD          |
|     |            |      |    | DRAWN BY:                                                         | G. WILLIAMS  |
|     |            |      |    | CHECKED BY:                                                       | TBD          |
|     |            |      |    | IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE | 0 1/2" 1"    |
| REV | ISSUED FOR | DATE | BY |                                                                   |              |

90% DRAWING  
DO NOT USE FOR  
CONSTRUCTION

**Hazen**  
HAZEN AND SAWYER  
800 WEST 6th STREET, SUITE 400  
LOS ANGELES, CALIFORNIA 90017



PALMDALE WATER DISTRICT

APPROVED BY:

TITLE DATE

PALMDALE DITCH CONVERSION PROJECT

GENERAL  
ACCESS AND WORK AREAS - 4

DATE: JANUARY 2025

HAZEN NO.: 20182-004

SPEC NO.: 21-613

DRAWING NUMBER: G011