



**California Department of Fish and Wildlife
North Central Region
1701 NIMBUS RD.
RANCHO CORDOVA, CA 95670**

California Endangered Species Act
Incidental Take Permit No. 2081-2018-073-02

WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

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 take¹ of any species of wildlife designated by the California Fish and Game Commission as an endangered, threatened, or candidate species.² CDFW may authorize the take of any such species by permit if the conditions set forth in Fish and Game Code section 2081, subdivisions (b) and (c) are met. (See Cal. Code Regs., tit. 14, § 783.4).

Permittee:	Amador County Department of Transportation and Public Works
Principal Officer:	Mark Hopkins, Senior Project Manager
Contact Person:	Mark Hopkins, (209) 223-6429
Mailing Address:	810 Court Street Jackson, CA 95642

Amended ITP³ Background:

On June 8, 2018, Amador County Department of Transportation and Works submitted a CESA ITP application to 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. Amador County Department of Transportation and Works sought take coverage authorization for CESA listed species associated with project-related impacts from the Willow Creek Bridge on Carbondale Road Replacement Project in Amador County, California (Project).

On July 21, 2020, CDFW issued ITP No. 2081-2018-073-02 to Amador County Department of Transportation and Works (Permittee) authorizing take of California tiger salamander (*Ambystoma californiense*) (Covered Species) associated with the Project. The Project as

¹ 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”].)

² 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.

³ When this incidental take permit and attachments refer to the “ITP”, it means the “Amended ITP” unless the context dictates otherwise.

described in the ITP originally issued by CDFW includes the replacement of an existing bridge on Carbondale Road spanning Willow Creek with a new structure that will be approximately 30 feet wide and 80 feet in length. The bridge will consist of a cast-in-place, reinforced concrete slab supported on spread footings. In issuing the ITP, CDFW found, among other things, that Permittee's compliance with the Conditions of Approval of the ITP would fully mitigate impacts to the Covered Species and would not jeopardize the continued existence of the Covered Species.

On July 1, 2022, Amador County Department of Transportation and Works submitted a request for a "minor amendment" to CESA ITP No. 2081-2018-073-02 (See Cal. Code Regs., § 783.6(c)(4)). CDFW approved the minor amendment on January 17, 2023, which changed the expiration date from June 30, 2022, to June 30, 2025.

On March 19, 2024, Amador County Department of Transportation and Works submitted a request for a "minor amendment" to CESA ITP No. 2081-2018-073-02 (See Cal. Code Regs., § 783.6(c)(4)). The minor amendment modifies Condition of Approval 5.2 Designated Biologist to add in the option for a Biological Monitor during periods when the Covered Species is not expected to be present and modifies Condition of Approval 6.3 Compliance Monitoring to add in the option of a Biological Monitor during compliance monitoring.

On February 18, 2025, Amador County Department of Transportation and Works submitted a request for a "minor amendment" to CESA ITP No. 2081-2018-073-02 (See Cal. Code Regs., § 783.6(c)(4)). CDFW approved the minor amendment on February 18, 2025, which changed the expiration date from June 30, 2025 to June 30, 2030.

CDFW now reissues this ITP including the revised provisions in the first and second minor amendments (Collectively, the Amended ITP). The Amended ITP includes all of the operative provisions as of the effective date of this Amended ITP. Attachment 3 to this Amended ITP shows the specific red-line changes made to the original ITP as a result of the first minor amendment. Attachment 4 to this Amended ITP shows the specific red-line changes made to the original ITP as a result of the second minor amendment. Attachment 5 to this Amended ITP shows the specific red-line changes made to the previously amended ITP as a result of the third minor amendment.

Effective Date and Expiration Date of this ITP:

This ITP amendment shall become effective as of the date signed by CDFW. Unless renewed by CDFW, this ITP's authorization to take the Covered Species shall expire on **June 30, 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 6.7 of this ITP.

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

Project Location:

The Project site is located at the intersection of Forest Home Road and Carbondale Road where Carbondale Road Crosses over Willow Creek; in the County of Amador, State of California; Latitude 38.448190, Longitude -120.9629090; Sections 22 and 23, Township 7N, Range 9E of the Mt. Diablo Meridian, U.S. Geologic Survey (USGS) 7.5 quad Irish Hill. See Figure 1 for Map of Project Location.

Project Description:

The proposed Project will replace an existing bridge on Carbondale Road spanning Willow Creek with a new structure that will be approximately 30 feet wide and 80 feet in length. The bridge will consist of a cast-in-place, reinforced concrete slab supported on spread footings. The roadway alignment will remain unchanged. The bridge and the roadway profile will be raised by 4 feet to provide additional hydraulic capacity. The western roadway approach will begin approximately 145 feet east of the Forest Home Road/Carbondale Road intersection, approximately 400 feet west of the proposed bridge. The eastern approach will begin approximately 560 feet east of the new bridge. Construction of the bridge will involve excavation for, and construction of concrete abutments and a central pier supported on spread footings. The installation of rock for scour protection will occur at the support locations for the bridge. Other temporary work within Willow Creek includes the removal of the existing bridge and falsework erection.

It is anticipated that Willow Creek will be dry during construction activities and water diversions are not expected to occur. Construction of the roadway approaches will involve the removal of existing pavement and the placement of fill material, aggregate base and hot mix asphalt pavement. The Project expects that a portion of the right of way will be acquired on the south side of the roadway to accommodate the higher roadway profile and increased roadway width. See Figure 2 for Project Plans.

Covered Species Subject to Take Authorization Provided by this ITP:

This ITP covers the following species:

Name	CESA Status
1. California tiger salamander (<i>Ambystoma californiense</i>)	Threatened ⁴

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

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 expected to result in incidental take of individuals of the Covered Species include excavation, grading, and paving of the bridge’s

⁴ See Cal. Code Regs. tit. 14 § 670.5, subd. (b)(3)(G).

associated roadway approaches, road shoulders, and bridge embankments (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 the potential collapsing of burrows or burrow entrances during movement of heavy equipment or materials. Incidental take of individuals of the Covered Species may also occur from the Covered Activities in the form of pursue, catch, capture, or attempt to do so of the Covered Species from any Covered Activities. The areas where authorized take of the Covered Species is expected to occur include: upland grassland habitat, along the sides of the road, and under the rock slope protection around the bridge as shown in Figure 3, Project Impact Map.

The Project is expected to cause the permanent loss of 0.57 acres of upland habitat for the Covered Species, and temporary loss of 0.37 acres of upland habitat for the Covered Species. Impacts of the authorized taking also include adverse impacts to the Covered Species related to temporal losses, increased habitat fragmentation and edge effects, and the Project's incremental contribution to cumulative impacts (indirect impacts). These impacts include: stress resulting from noise and vibrations from tunneling and capture and relocation, and long-term effects due to increased pollution, displacement from preferred habitat, increased competition for food and space, and increased vulnerability to predation.

Incidental Take Authorization of Covered Species:

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

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/will 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. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT 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 Mitigated Negative Declaration (MND) and Initial Study (SCH No.: 2018012015) adopted by Amador County Department of Transportation and Public Works on February 27, 2018, 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 Agreement (LSAA) (Notification No. 1600-2019-0142-R2) for the Project executed by CDFW pursuant to Fish and Game Code section 1600 et seq.

4. ITP Time Frame Compliance: Permittee shall fully implement and adhere to the conditions of this ITP within the time frames set forth below and as set forth in the Mitigation Monitoring and Reporting Program (MMRP), which is included as Attachment 1 to this ITP.

5. General Provisions:

5.1. Designated Representative. Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with this ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative's name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of this ITP.

5.2. Designated Biologist and/or Biological Monitor. Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of a Designated Biologist and/or Biological Monitor at least 30 days before starting Covered Activities. Permittee shall ensure that the Designated Biologist and/or Biological Monitor is knowledgeable and experienced in the biology and natural history of the Covered Species. The Designated Biologist or the Biological Monitor 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 and/or Biological Monitor in writing before starting Covered Activities and shall also obtain approval in advance in writing if the Designated Biologist must be changed. A Biological Monitor shall be restricted to periods when the Covered Species is not expected to be present, after consultation and written approval from CDFW.

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

- 5.2.1. Designated Capture and Handling Biologist. Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of a Designated Capture and Handling Biologist (Capture Biologist) responsible for Covered Species Encounters as defined in Condition of Approval 7.6 at least 30 days before starting Covered Activities. Permittee shall ensure that the Capture Biologist is knowledgeable and experienced in the biology, has the valid handling authorizations for the Covered Species, and is experienced in the natural history of the Covered Species. The Capture Biologist 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 Capture Biologist in writing before starting Covered Activities and shall also obtain approval in advance in writing if the Capture Biologist must be changed.
- 5.2.2. Capture Biologist Role. For the purposes of this ITP, the approved Capture Biologist may fulfil any role of the Designated Biologist identified in this ITP including, but not limited to, monitoring, reporting, stop work, or presenting the education program.
- 5.3. Designated Biologist Authority. To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist shall have authority to immediately stop any activity that does not comply with this ITP, and/or to order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species.
- 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, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and Project-specific protective measures described in this ITP. Permittee shall provide interpretation for non-English speaking workers, and the same instruction shall be provided to any new workers before they are authorized to perform work in the Project Area. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees that will be conducting work in the Project Area.
- 5.5. Construction Monitoring Notebook. The Designated Biologist shall maintain a construction-monitoring notebook on-site throughout the construction period, which

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

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 notebook 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 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. All erosion and sediment control measures shall be installed prior to earth moving Covered Activities. Permittee shall utilize erosion control measures throughout all phases of Project where sediment runoff from exposed slopes could leave the Project Area and/or enter a stream or pond. No phase of the Project that may cause the introduction of sediments into a drainage, stream, or pond may be started if that phase and its associated erosion control measures cannot be completed prior to the onset of a storm. Permittee shall consult 72-hour weather forecasts from the National Weather Service prior to startup of any phase of the Project that may result in sediment runoff to the stream. The Designated Biologist(s) shall monitor erosion control measures before, during, and after each storm event and Permittee shall repair and/or replace ineffective measures immediately.
- 5.9. Delineation of Property Boundaries. Before starting Covered Activities, 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.
- 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 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

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

exceed 15 miles per hour to avoid Covered Species on or traversing the roads. If Permittee determines construction of routes for travel are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur as a result of the Project modification.

- 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 shall otherwise fully cooperate with CDFW 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 or Designated Biologist shall immediately notify CDFW in writing if it determines that 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

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

periods indicated in this ITP and/or the MMRP. The Designated Representative shall report any non-compliance with this ITP to CDFW within 24 hours.

- 6.3. Compliance Monitoring. The Designated Biologist or Biological Monitor shall be on-site daily when Covered Activities occur. The Designated Biologist or Biological Monitor 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, Biological Monitor 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.
- 6.4. Quarterly Compliance Report. The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 6.3 into a Quarterly 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. Quarterly 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 the R2 CESA Program (R2CESA@wildlife.ca.gov) and Headquarters CESA Program email is 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 Quarterly 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.

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

- 6.6. CNDDDB Observations. The Designated Biologist shall submit all observations of Covered Species to CDFW's California Natural Diversity Database (CNDDDB) within 60 calendar days of the observation and the Designated Biologist shall include copies of the submitted forms with the next Quarterly Compliance Report or ASR, whichever is submitted first relative to the observation.
- 6.7. 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 Quarterly Compliance Reports and all ASRs; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP's Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.
- 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 by calling the Regional Office at (916) 358-2930. 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, location of the animal or carcass, and if possible, provide a photograph, explanation as to cause of take or injury, and any other pertinent information.

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:

- 7.1. Timing of Work. Construction activities within Covered Species habitat shall be conducted between June 1 and October 31.
- 7.2. Daily Construction Schedule. If Covered Activities must be implemented during the breeding and dispersal season (after October 15 and before July 31), Covered Activities will not start until 30 minutes after sunrise and must be complete 30

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

minutes prior to sunset.

- 7.3. Covered Species Pre-construction Surveys. No more than 48 hours prior to the commencement of initial ground disturbance, the Designated Biologist shall survey for the Covered Species within 200 feet of suitable habitat. If a Covered Species is found, the Designated Biologist shall delay installation of the exclusion barrier until the Designated Biologist can verify that the Covered Species has moved out of the Project Area, or the Capture Biologist relocates the Covered Species out of the Project Area in accordance with Condition of Approval 7.7. Surveys shall be reinitiated if a substantial rain event (at least 0.25 inches in 24 hours) occurs while performing Covered Activities to avoid affecting Covered Species that may have emerged from their burrows within or adjacent to the Project Area.
- 7.4. Covered Species Exclusion Fencing. Permittee shall install exclusion fencing around the Project footprint prior to commencing Covered Activities. Temporary high-visibility construction fencing will be installed along the edge of work areas, and exclusion fencing will be installed immediately outside of the temporary high-visibility construction fencing to exclude the Covered Species from entering the construction area or becoming entangled in the construction fencing. Exclusion fencing will be at least 1-foot tall and be buried at least 6 inches below the ground to prevent the Covered Species from going under the fencing. Refuge opportunities shall be provided at various locations along the fence, as outlined in Condition of Approval 7.7. Fencing will remain in place until all Covered Activities within the area are complete. No Covered Activities will occur outside the delineated Project footprint. The Designated Biologist or Biological Monitor shall inspect the exclusion fencing each morning for the Covered Species and inspect the fencing at least twice weekly for integrity and repair/maintain the fence when necessary.
- 7.5. Covered Species Checks. Workers shall inspect under vehicles, equipment, and materials for the Covered Species before the vehicles, equipment, and materials are moved. If the Covered Species is present, the worker shall notify the Designated Biologist. All ruts and holes near root structures, foundations, abutments, etc., shall be inspected by the Designated Biologist for the Covered Species prior to and during initial excavation and grading. If the Designated Biologist or anyone else discovers the Covered Species, the Capture Biologist shall move the individual as required by Condition of Approval 7.7.
- 7.6. Covered Species Encounter Protocol. Covered Species encountered during Covered Activities and within Covered Activity boundaries shall be allowed to move away from the area on their own volition. Covered Activities will be suspended within a 50-foot radius of the Covered Species until the animal leaves the Covered Activity boundary or is relocated (as described in the Condition of Approval 7.7) by the Capture Biologist. If the animal is handled, verbal or email notification and a report will be

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

submitted, including date(s), location(s), habitat description, and any corrective measures taken to protect the Covered Species, within twenty-four (24) days to CDFW. The Designated Biologist will report any take of the Covered Species to CDFW immediately. Any worker who inadvertently injures or kills a Covered Species or who finds dead, injured, or entrapped Covered Species shall immediately report the incident to the Designated Biologist.

- 7.7. Covered Species Relocation Plan. Permittee shall prepare a Covered Species Relocation Plan (Relocation Plan) for Covered Activities. The Relocation Plan shall include the name(s) of the Capture Biologist who will relocate the Covered Species; pre-construction habitat assessment methodology; measures to minimize impacts to the Covered Species; identification of refuge areas along the exclusion fencing, capture, handling, and relocation methods; a map and description of the relocation area(s) for captured Covered Species, including relative location, quality of habitat, non-native species or the potential for Covered Species-barred tiger salamander hybrids to be present, identified upland burrows determined to be suitable for Covered Species placement, distance to aquatic habitat, and potential barriers for movement; written permission from the landowner to use their land as a relocation site if applicable; and identification of a wildlife rehabilitation center or veterinary facility that routinely evaluates or treats amphibians. Permittee shall submit the Relocation Plan to CDFW for written approval at least 30 days prior to the beginning of any Covered Activities, including preconstruction surveys. If Covered Species is found within a construction site or 200 feet beyond the construction site (200-foot boundary), Project personnel shall notify the Designated Biologist immediately. If the Covered Species is encountered within a construction site, it is directly threatened by Covered Activities, and it is unable to move to a safe area on its own, the Capture Biologist shall relocate Covered Species to a safe area in accordance with the Relocation Plan.
- 7.8. Covered Species Injury or Death. The Permittee shall immediately notify the Designated Biologist if a Covered Species is injured or killed 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 shall immediately take the injured Covered Species to a CDFW-approved wildlife rehabilitation or veterinary facility. Permittee shall identify the facility in the Plan described in Condition of Approval 7.7. Permittee shall bear any costs associated with the care or treatment of such injured Covered Species. The Designated Biologist shall provide initial notification to 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 R2CESA@wildlife.ca.gov. The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured, the name of the facility where the animal was taken, and reference ITP# 2081-2018-073-02. Following initial notification, Permittee

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, location of the animal or carcass, and if possible, provide a photograph, explanation as to cause of take or injury, and any other pertinent information.

If the Covered Species is found recently deceased, the carcass shall be immediately bagged, labeled, and preserved in a freezer. The label shall include time and date, GPS location, circumstances surrounding death (if known), and ITP tracking number 2081-2018-073-02. Specimens shall be delivered to the CDFW Wildlife Investigations Lab, Attention: Deana Clifford, 1701 Nimbus Road Suite D, Rancho Cordova, CA 95670 within two (2) calendar days of the discovery.

- 7.9. Avoid Covered Species Entrapment. All excavated locations, steep-walled holes, or trenches more than six (6) inches deep will be provided with one or more escape ramps constructed of earthen fill or wooden planks at the end of each workday or 30 minutes prior to sunset, whichever occurs first. All steep-walled holes or trenches will be inspected by the Designated Biologist each morning to ensure that no wildlife has become entrapped. All construction pipes, culverts, similar structures, construction equipment, and construction debris left overnight will be inspected for Covered Species by the Designated Biologist prior to being moved. If a Covered Species is encountered, refer to Condition of Approval 7.6.
- 7.10. 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. Tightly woven fiber netting (mesh size less than 0.25 inch) or similar material shall be used for erosion control or other purposes within the Project Area.
- 7.11. Inspection of Refuge Habitat. All potential refuge features (e.g. debris piles), created as a result of the Project shall be inspected by the Designated Biologist for the Covered Species prior to removal. The Designated Biologist shall inspect the debris piles for the Covered Species as the debris is being loaded to trucks.
- 7.12. Soil Stockpiles. Permittee shall place soil stockpiles where soil will not pass into potential Covered Species habitat; nor shall it pass into any other "Waters of the State," in accordance with Fish and Game Code section 5650 *et seq*. Permittee shall use appropriate best management practices to protect stockpiles and prevent soil erosion.
- 7.13. Vehicle Speed Limit. The Permittee, Designated Biologist, and work crew shall ensure that Project-related vehicles do not exceed a speed limit of 15 miles per hour when traveling through the Project area.

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

8. Habitat Management Land Acquisition:

CDFW has determined that permanent protection and perpetual management of compensatory habitat is necessary and required pursuant to CESA to fully mitigate Project-related impacts of the taking on the Covered Species that will result with 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 acreage required to provide for adequate compensation.

To meet this requirement, the Permittee purchased 2.08 acres (1.71 acres for permanent impacts and 0.37 acre for temporary) of Covered Species credits (Attachment 2) from a CDFW-approved mitigation bank (Condition of Approval 8.1).

- 8.1. Covered Species Credits. Permittee has purchased 2.08 acres of Covered Species credits from a CDFW-approved mitigation bank prior to initiating Covered Activities.
- 8.2. Cost Estimates. CDFW has estimated the purchase of Covered Species credits at a CDFW-approved mitigation bank identified in Condition of Approval 8.1, estimated at \$29,000 per credit, at \$60,320.
- 8.3. Bill of Sale. Permittee has submitted to CDFW, prior to Project activities, a copy of the Bill of Sale and payment receipt (Attachment 2) in-lieu of a Performance Security.

Amendment:

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

Stop-Work Order:

CDFW may issue Permittee a written stop-work order requiring Permittee to suspend any Covered Activity for an initial period of up to 25 days 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. 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 25 additional days. Suspension and revocation of this ITP shall be governed by California Code of Regulations, Title 14, section

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

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.

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.

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 (2081-2018-073-02) in a cover letter and on any other associated documents. Email submittal is preferred.

Original cover with attachment(s) to:

Morgan Kilgour, Regional Manager
California Department of Fish and Wildlife
1701 Nimbus Rd, Suite A
Rancho Cordova, CA 95670
Telephone (916) 358-2930
R2CESA@wildlife.ca.gov

and a copy to:

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:

Region 2 CESA Program
California Department of Fish and Wildlife
1701 Nimbus Rd, Suite A
Rancho Cordova, CA 95670
Telephone (916) 358-2930
R2CESA@wildlife.ca.gov

Compliance with CEQA:

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, Amador County Department of Transportation and Public Works. (See generally Pub. Resources Code, §§ 21067, 21069.) The lead agency's prior environmental review of

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

the Project is set forth in the Willow Creek Bridge on Carbondale Road Replacement Project Mitigated Negative Declaration, (SCH No.: 2018012015) dated February 27, 2018, that the Amador County Department of Transportation and Public Works adopted for the Willow Creek Bridge on Carbondale Road Replacement Project. At the time the lead agency adopted the Mitigated Negative Declaration and approved the Project, it also adopted various mitigation measures for the Covered Species as conditions of Project approval.

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

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, Willow Creek Bridge on Carbondale Road Project Mitigated Negative Declaration, the results of a site visit, 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) purchase of Covered Species credits; (2) establishment of avoidance zones; (3) worker education; and (4) Quarterly 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 purchase of Covered Species credits, 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. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

- (3) The take avoidance and mitigation measures required pursuant to the conditions of this ITP and its attachments are roughly proportional in extent to the impacts of the taking authorized by this ITP;
- (4) The measures required by this ITP maintain Permittee's objectives to the greatest extent possible;
- (5) All required measures are capable of successful implementation;
- (6) This ITP is consistent with any regulations adopted pursuant to Fish and Game Code sections 2112 and 2114;
- (7) Permittee has ensured adequate funding to implement the measures required by this ITP as well as for monitoring compliance with, and the effectiveness of, those measures for the Project; and
- (8) Issuance of this ITP will not jeopardize the continued existence of the Covered Species based on the best scientific and other information reasonably available, and this finding includes consideration of the species' capability to survive and reproduce, and any adverse impacts of the taking on those abilities in light of (1) known population trends; (2) known threats to the species; and (3) reasonably foreseeable impacts on the species from other related projects and activities. Moreover, CDFW's finding is based, in part, on CDFW's express authority to amend the terms and conditions of this ITP without concurrence of the Permittee as necessary to avoid jeopardy and as required by law.

Attachments:

FIGURE 1	Map of Project
FIGURE 2	Project Design
FIGURE 3	Project Impacts Map
ATTACHMENT 1	Amended Mitigation Monitoring and Reporting Program
ATTACHMENT 2	Finalized Credit Sale Agreement
ATTACHMENT 3	Minor Amendment No. 1 with Track Changes
ATTACHMENT 4	Minor Amendment No. 2 with Track Changes
ATTACHMENT 5	Minor Amendment No. 3 with Track Changes

Incidental Take Permit
No. 2081-2018-073-02

AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT

ISSUED BY THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE ON 4/7/2025

DocuSigned by:

C3A86764C0AD4F6...

Morgan Kilgour, Regional Manager
North Central Region

Incidental Take Permit
No. 2081-2018-073-02

**AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
WILLOW CREEK BRIDGE ON CARBONDALE ROAD REPLACEMENT PROJECT**

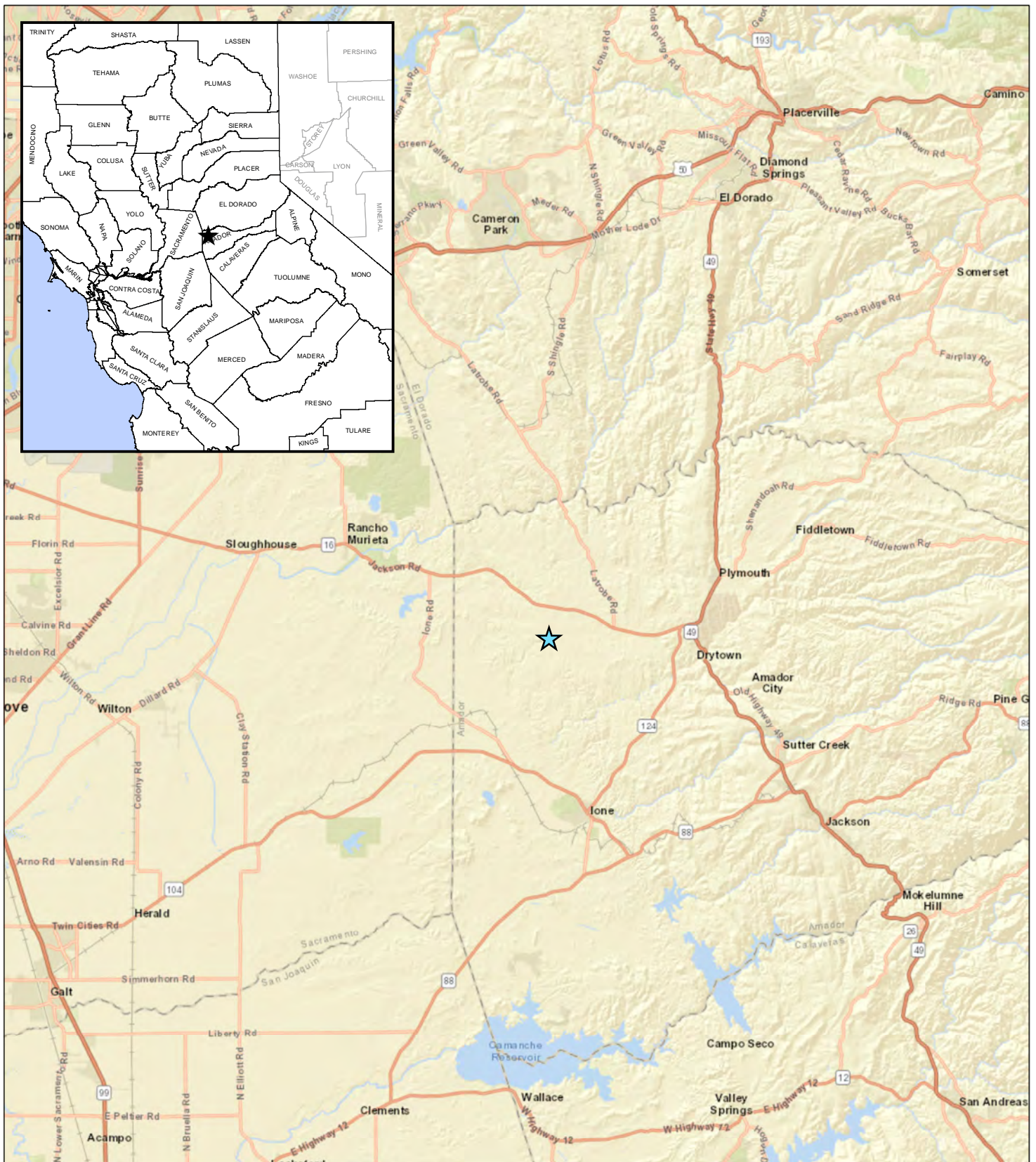
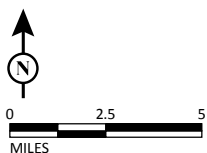


FIGURE 1



LEGEND

★ Project Location



SOURCE: ESRI Street Map (2017)

I:\MKT1406\GIS\Figure_1.mxd (4/17/2018)

Willow Creek Bridge on Carbondale
Road (26C0030) Replacement Project
Amador County, California; Caltrans District 10
Federal Project No. BRLO-5926(055)
Project Location

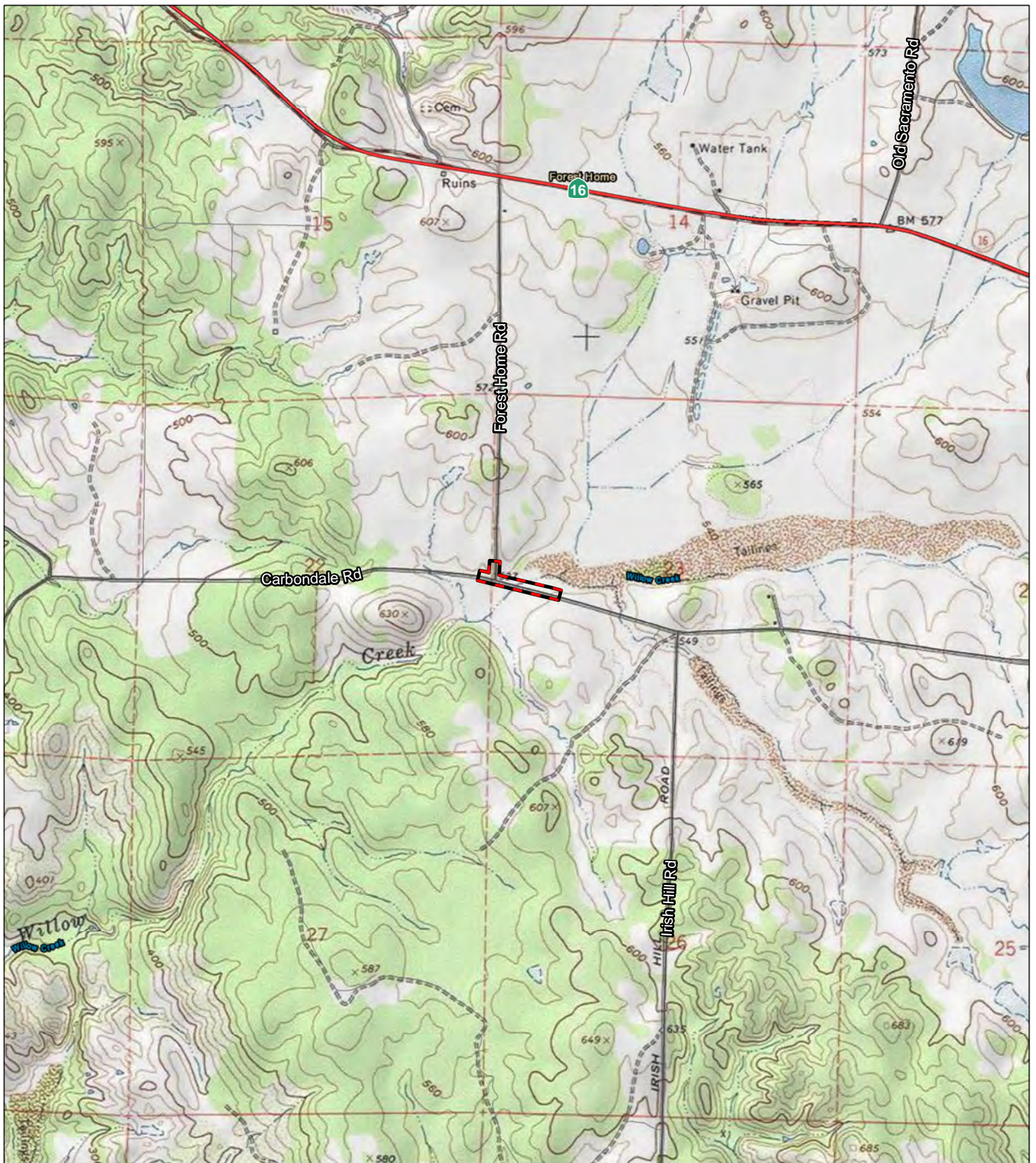
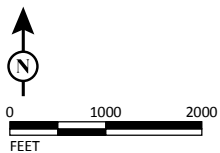


FIGURE 2



LEGEND

Project Site - (5.06 ac)



SOURCE: USGS 7.5-Minute Quadrangle (Irish Hill)

I:\MKT1406\GIS\Figure_2.mxd (4/17/2018)

Willow Creek Bridge on Carbondale
Road (26C0030) Replacement Project
Amador County, California; Caltrans District 10
Federal Project No. BRLO-5926(055)

Project Site

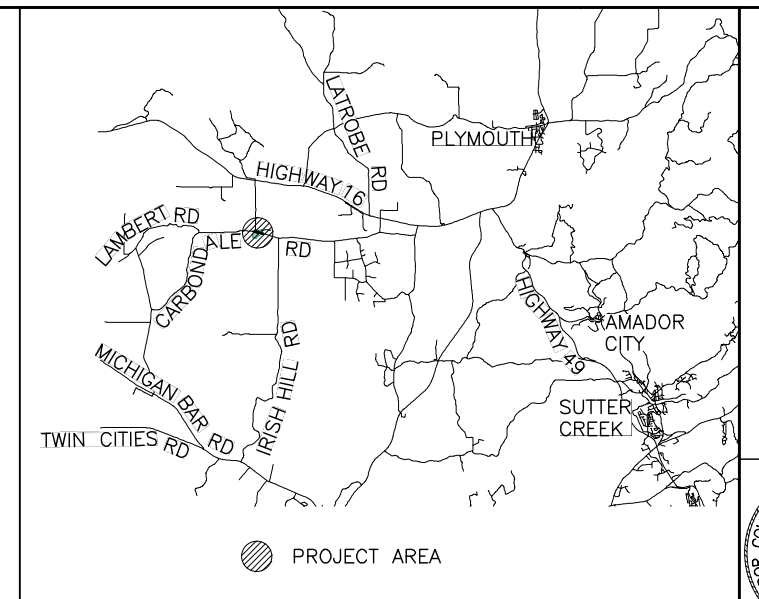
INDEX OF SHEETS

SHEET No.	SHEET NAME	SHEET TITLE
1	T-1	TITLE SHEET AND LOCATION MAP
2	X-1	TYPICAL CROSS SECTIONS
3	PC-1	PROJECT CONTROL
4	DM-1	DEMOLITION PLAN
5	L-1	LAYOUT AND PROFILE
6	C-1	CONSTRUCTION DETAILS
7	DU-1	DRAINAGE AND UTILITIES
8	SC-1	STAGE CONSTRUCTION PLAN
9-10	DE-1 TO DE-2	DETOUR PLAN
11	SS-1	SIGNING AND STRIPING
12-23	S-1 TO S-12	STRUCTURE PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

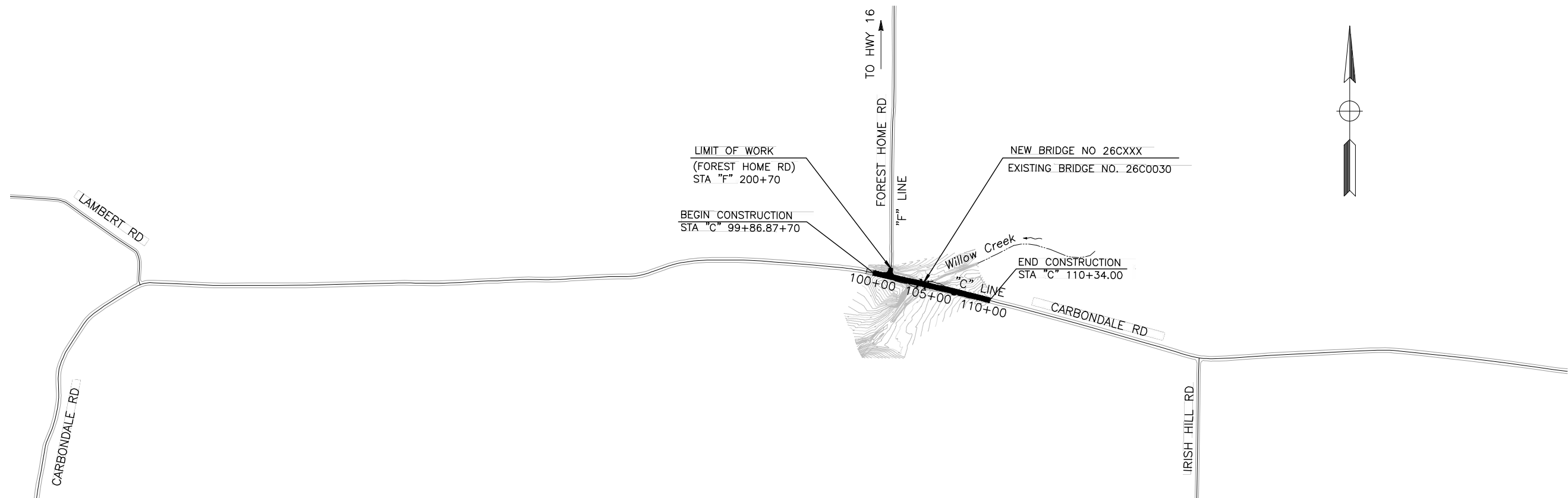
COUNTY OF AMADOR
DEPARTMENT OF PUBLIC WORKS
JACKSON, CALIFORNIA
IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT
CARBONDALE ROAD

TO BE SUPPLEMENTED BY COUNTY OF AMADOR STANDARD PLANS REVISED
AUGUST 2015, CALTRANS STANDARD PLANS AND SPECIFICATIONS DATED 2015.



VICINITY MAP
NTS

Figure 2



BEFORE EXCAVATING
CALL U.S.A
UNDERGROUND SERVICE ALERT
800-227-2600
TOLL FREE
2 WORKING DAYS BEFORE ALL
PLANNED WORK OPERATIONS

NOTE: THIS CONTRACT REQUIRES A CLASS A LICENSE

65% SUBMITTAL

DEPARTMENT OF PUBLIC WORKS
AMADOR COUNTY, CALIFORNIA

APPROVED BY:

JERED C. REINKING
INTERIM DIRECTOR OF PUBLIC WORKS
AMADOR COUNTY, CALIFORNIA
R.C.E. 76802

DATE

IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
TITLE SHEET
AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH

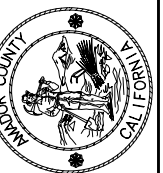


CONSTRUCTION
CONTRACT NO.

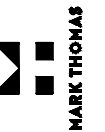
PROJECT NO.
####

SCALE
HORIZ: NO SCALE
VERT: NO SCALE
SCALE REFERENCE
X" Y"

DRAWING
T-1
SHEET NO.
1 of 23



MARK THOMAS & COMPANY, INC.
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825



1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR HMA DIKE TYPE AND LIMITS, SEE LAYOUT PLAN.
3. SEE DRAINAGE AND UTILITY SHEETS FOR LIMITS OF GUTTER AND FLOW ELEVATIONS.



No.	Revision	Description	Date	Approved
THE COUNTY OF AMADOR, ITS OFFICERS, OR ITS AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS DOCUMENT.				

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NOTES:

1. CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771(b) REGARDING REFERENCING, PRESERVING AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN THESE PLANS.
2. CONTRACTOR SHALL PROVIDE THE AGENCY A MINIMUM OF TWO (2) WEEKS NOTICE PRIOR TO COMMENCING ANY WORK THAT COULD DAMAGE OR DESTROY ANY SURVEY MONUMENTS.
3. ALL SURVEY MONUMENTS SHOWN ON THE PLANS OR FOUND DURING CONSTRUCTION SHALL BE REFERENCED AND PROTECTED IN PLACE. IF AN EXISTING MONUMENT IS DAMAGED OR REMOVED, IT SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

LEGEND:

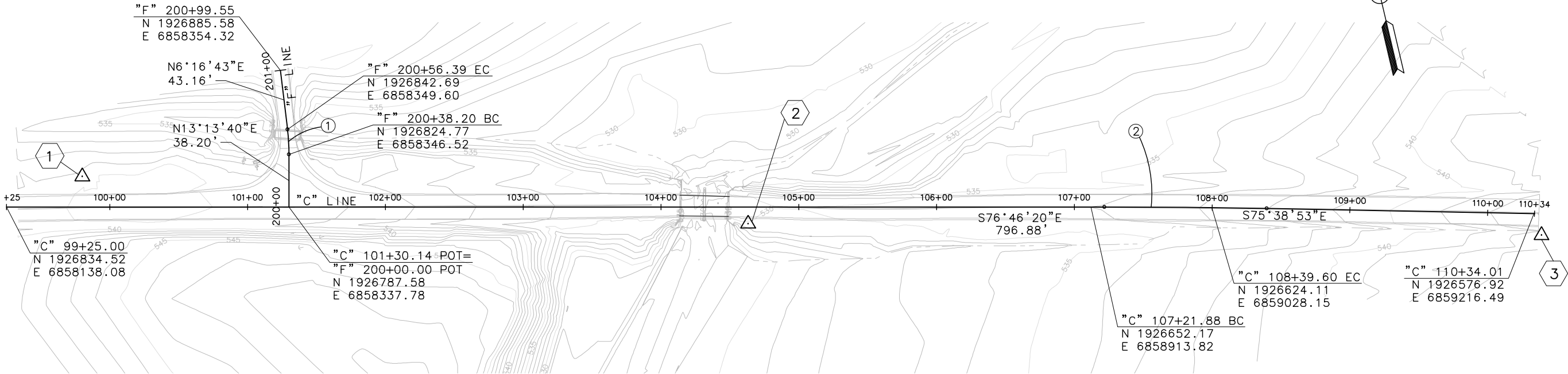
- # CONTROL POINT
- △ CONTROL MONUMENT

DATUM:

COORDINATES, BEARINGS AND DISTANCES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), EPOCH 2010.00. ELEVATIONS ARE NAVD88

CURVE TABLE

No.	RADIUS	△	TANGENT	LENGTH
①	150.00'	6°56'57"	9.11'	18.19'
②	6000.00'	1°07'27"	58.86'	117.72'



PROJECT SURVEY CONTROL:

COORDINATES ARE CCS83 (2011), EPOCH 2010.00. ELEVATIONS ARE NAVD88. THREE OBSERVATIONS FOR 1001 WERE SENT TO OPUS AND THE AVERAGE WAS TAKEN. SEE OPUS ADJUSTMENT FOR POINTS 1001-1003 CSF=0.99995.

No.	Revision	Description	Date	Approved

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CONSTRUCTION SURVEY CONTROL DATA

No.	MTCO POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION	APPROX. LOCATION
①	1001	1926843.37	6858196.70	539.72	IP W/PLUG	"C" 99+80.04, 22.03' Lt
②	1002	1926699.37	6858659.44	534.72	IP W/PLUG	"C" 104+63.45, 12.26' Rt
③	1003	1926559.55	6859217.97	542.59	IP W/PLUG	"C" 110+39.51, 15.50' Rt

V:\Amador County\SA-14158-Carbondale Rd Bridge\CADD\Sheets\Roadway Sheets\Car_PC-1.dwg

MARK THOMAS & COMPANY, INC.
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
PROJECT CONTROL

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH

CONSTRUCTION CONTRACT NO. ###
PROJECT NO. ###


SCALE
HORIZ: 1"=40'
VERT: N/A
SCALE REFERENCE
X" Y"

DRAWING PC-1

SHEET NO. 3 of 23

65% SUBMITTAL

LEGEND

- 
- REMOVE BRIDGE



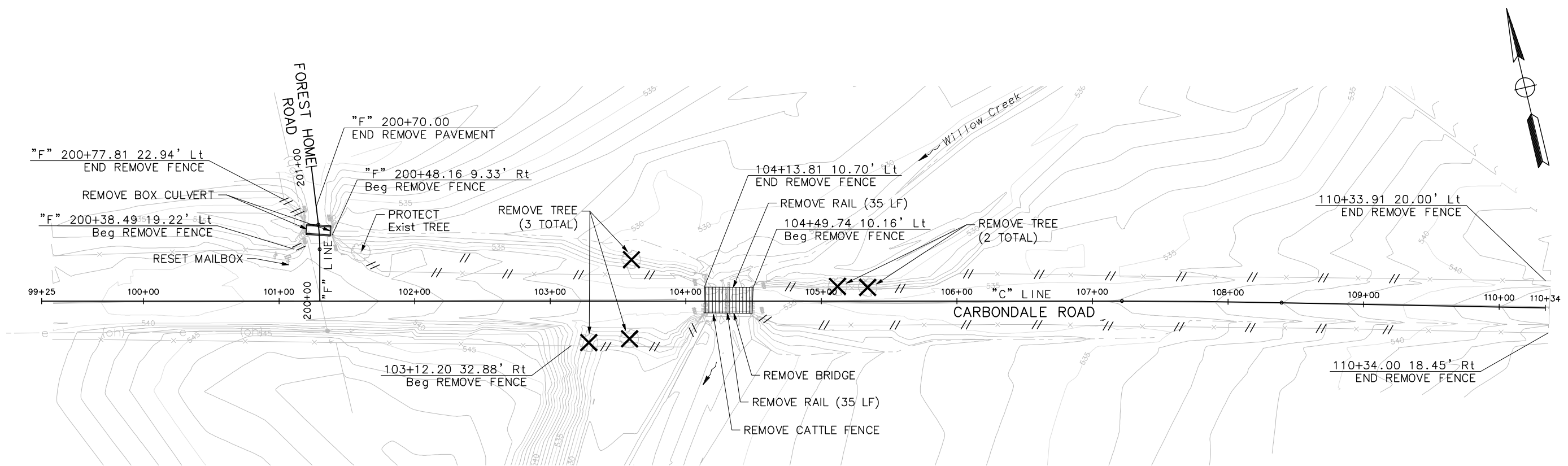
REMOVE TREE



REMOVE FENCE

NOTES


1. STATION/OFFSET REFERENCE "C" LINE UNLESS OTHERWISE NOTED.



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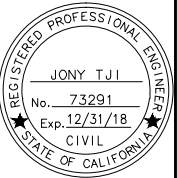
MARK THOMAS



IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
DEMOLITION PLAN

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH



CONSTRUCTION
CONTRACT NO.

PROJECT NO.
####

SCALE
HORIZ: 1"=40'
VERT: N/A
SCALE REFERENCE
X" = Y'

DRAWING
DM-1
SHEET NO.
4 of 23

65% SUBMITTAL

NOTES

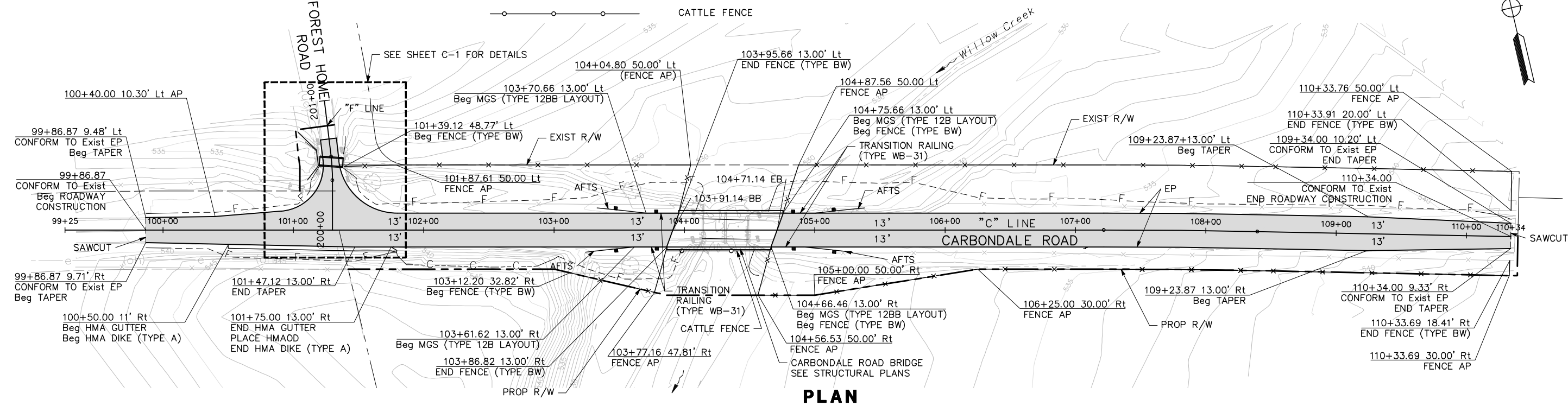
1. SEE DU SHEETS FOR DRAINAGE AND UTILITY WORKS.
2. FOR ALL UNREFERENCED DETAILS, SEE CALTRANS STANDARD PLANS UNLESS OTHERWISE NOTED.
3. SEE CALTRANS NEW STANDARD PLANS RSP A77N5 AND A77N6 TYPICAL VEGETATION CONTROL (MINOR CONCRETE) UNDER MGS AND TERMINAL SYSTEM END TREATMENT.
4. ALL CALLOUTS ON THIS SHEET REFERENCE THE "C" LINE UNLESS OTHERWISE NOTED.

LEGEND

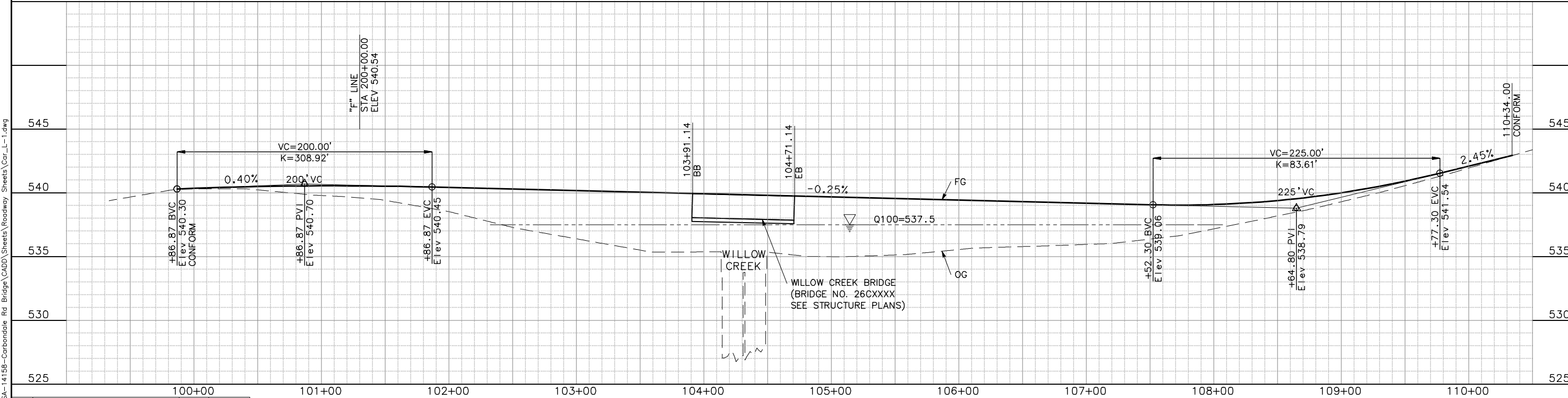
- C---C---C--- CUT LINE
- F-----F--- FILL LINE
- SAWCUT
- Exist R/W
- PROP R/W OR EASEMENT
- MGS (WOOD POST)
- NEW PAVEMENT
- NEW FENCE
- CATTLE FENCE

ABBREVIATION

- HMAOD HOT MIX ASPHALT OVERSIDE DRAIN
- AP ANGLE POINT



PLAN



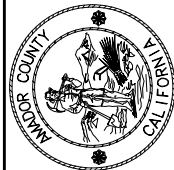
PROFILE
"C" LINE
CARBONDALE ROAD

No.	Revision	Description	Date	Approved

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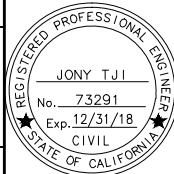
IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
LAYOUT AND PROFILE

MARK THOMAS & COMPANY, INC.
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825



AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH



CONSTRUCTION
CONTRACT NO.

PROJECT NO.
####

SCALE
HORIZ: 1"=40'
VERT: 1"=10'
SCALE REFERENCE
X" Y'

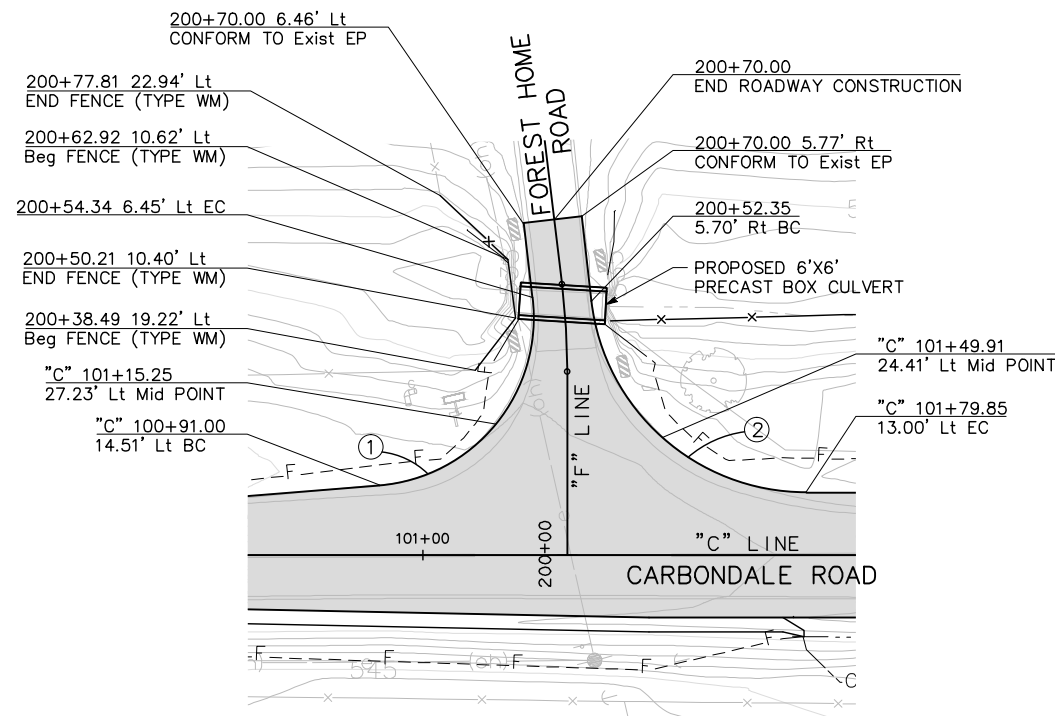
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L-1

SHEET NO.
5 of 23

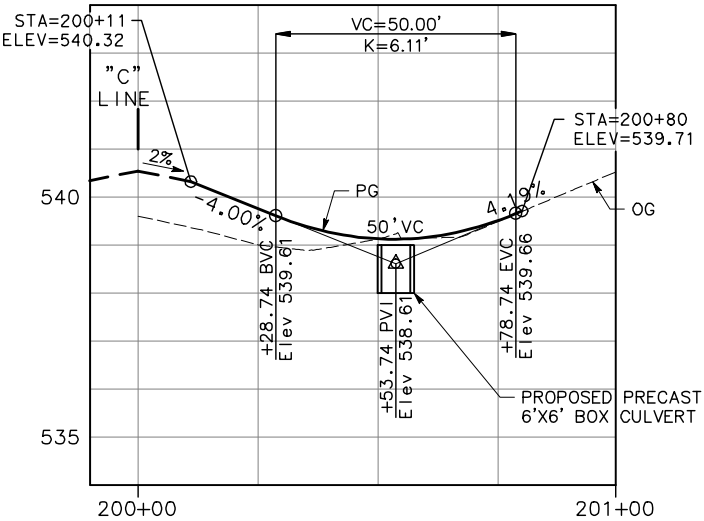
65% SUBMITTAL

NOTE

ALL CALLOUTS REFERENCE THE "F" LINE
UNLESS OTHERWISE NOTED.



SCALE: 1"=20'



PROFILE

"F" LINE
FOREST HOME ROAD
SCALE: H: 1"=20'
V: 1"=2'

CURVE TABLE

No.	RADIUS	Δ	TANGENT	LENGTH
(1)	35.00'	92°13'33"	36.39'	56.34'
(2)	45.00'	83°26'36"	40.12'	65.54'



DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH



CONSTRUCTION
CONTRACT NO.

PROJECT NO.
####

SCALE
HORIZ: AS SHOWN
VERT: AS SHOWN
SCALE REFERENCE
X" Y"

DRAWING
C-1

SHEET NO.
6 of 23

No.	Revision	Description	Date	Approved

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SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR
COMPLETENESS OF ELECTRONIC COPIES OF THIS DOCUMENT.

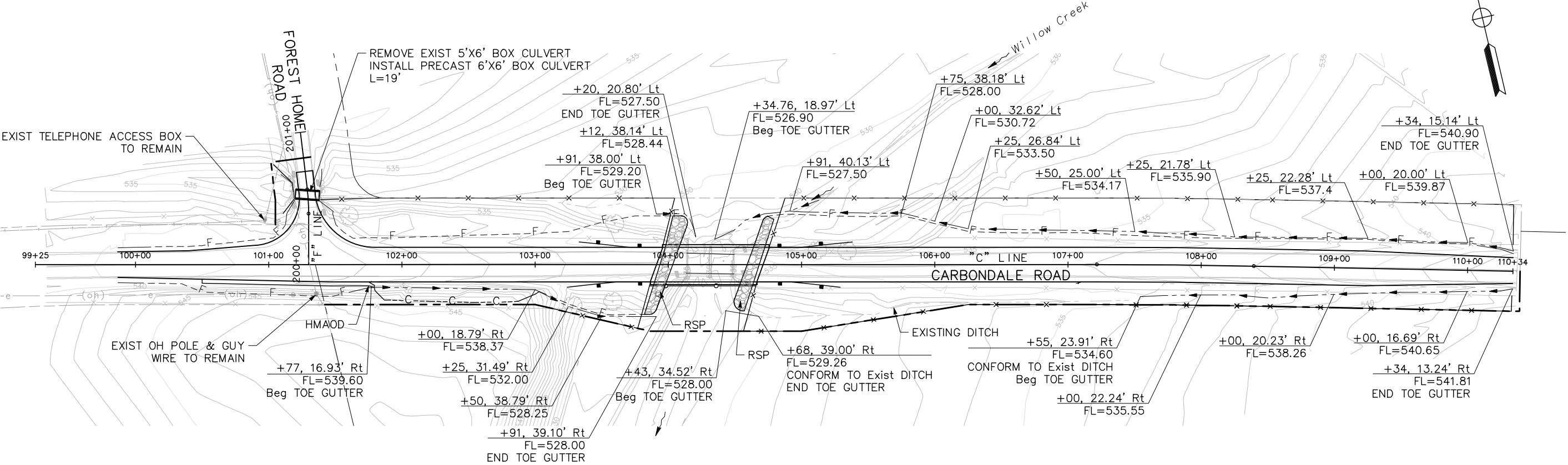
65% SUBMITTAL

NOTES

1. STATION AND OFFSET REFERENCES "C" LINE
UNLESS OTHERWISE NOTED.

LEGEND

- CREEK FLOWLINE
- TOE GUTTER FLOWLINE
- EXISTING OVERHEAD (OH) LINE (PG&E)
- EXISTING UNDERGROUND (UG) TELEPHONE LINE (AT&T)
- ROCK SLOPE PROTECTION



MARK THOMAS & COMPANY, INC.
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

MARK THOMAS



IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
DRAINAGE AND UTILITIES

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH



CONSTRUCTION
CONTRACT NO.

PROJECT NO.
####

SCALE
HORIZ: 1"=40'
VERT: N/A
SCALE REFERENCE
X"= Y'

DRAWING
DU-1

SHEET NO.
7 of 23

No.	Revision	Description	Date	Approved

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NOTES

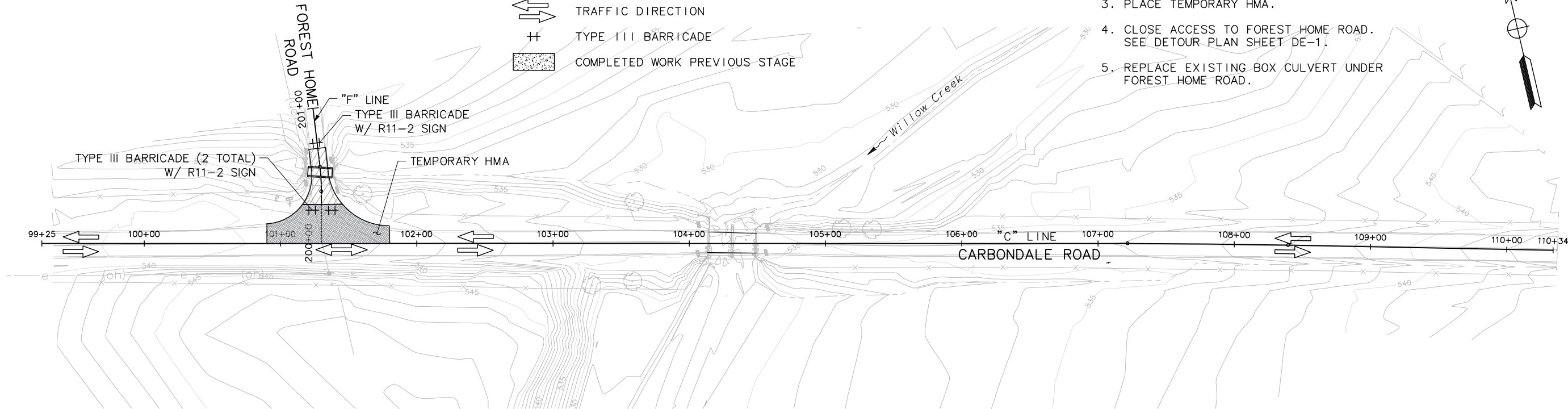
- 1. SEE SHEET DE-1 AND DE-2 FOR DETOUR PLAN.
- 2. ONE WAY TRAFFIC CONTROL TO BE PERFORMED USING FLAGGER.

LEGEND

- CONSTRUCTION THIS STAGE
- TEMPORARY HMA
- ONE WAY TRAFFIC CONTROL
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- COMPLETED WORK PREVIOUS STAGE

STAGE 1 CONSTRUCTION

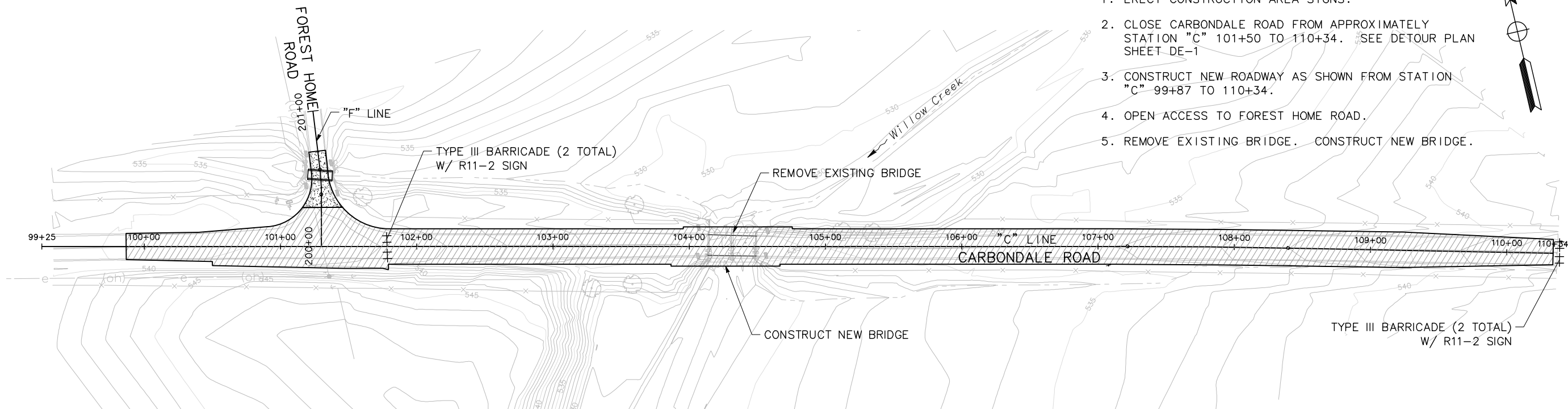
- 1. ERECT CONSTRUCTION AREA SIGNS.
- 2. CONSTRUCT PORTION OF FOREST HOME ROAD AS SHOWN.
- 3. PLACE TEMPORARY HMA.
- 4. CLOSE ACCESS TO FOREST HOME ROAD. SEE DETOUR PLAN SHEET DE-1.
- 5. REPLACE EXISTING BOX CULVERT UNDER FOREST HOME ROAD.



STAGE 1

STAGE 2 CONSTRUCTION

- 1. ERECT CONSTRUCTION AREA SIGNS.
- 2. CLOSE CARBONDALE ROAD FROM APPROXIMATELY STATION "C" 101+50 TO 110+34. SEE DETOUR PLAN SHEET DE-1
- 3. CONSTRUCT NEW ROADWAY AS SHOWN FROM STATION "C" - 99+87 TO 110+34.
- 4. OPEN ACCESS TO FOREST HOME ROAD.
- 5. REMOVE EXISTING BRIDGE. CONSTRUCT NEW BRIDGE.



STAGE 2

No.	Revision	Description	Date	Approved

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MARK THOMAS & COMPANY, INC.
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

MARK THOMAS



IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
STAGE CONSTRUCTION PLAN

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH



CONSTRUCTION CONTRACT NO. ####
PROJECT NO. ####

SCALE
HORIZ: 1"=40'
VERT: N/A
SCALE REFERENCE
X"= Y'

DRAWING SC-1
SHEET NO. 8 of 23

65% SUBMITTAL

NOTES:

1. FEDERAL SIGN CODES ARE SHOWN UNLESS DESIGNATED BY <CA> WHICH INDICATES A CALIFORNIA SIGN CODE.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

LEGEND:

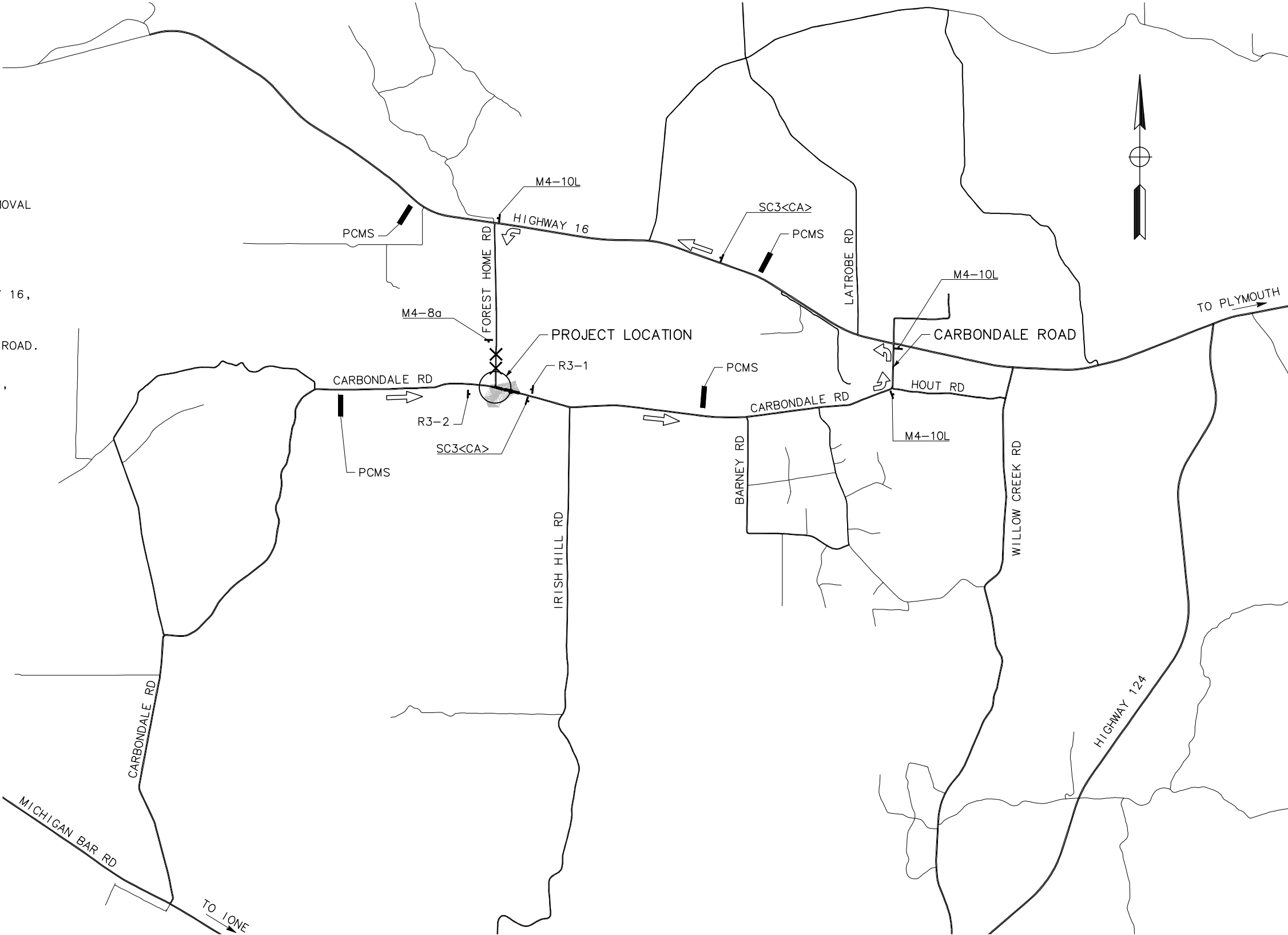
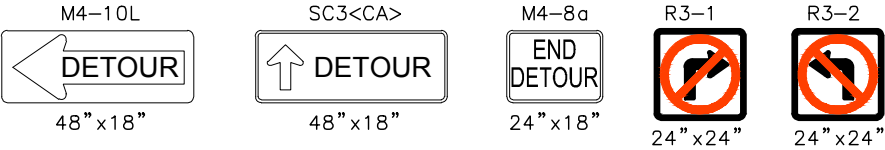
- ➡ DIRECTION OF DETOUR TRAVEL
- ✕ ROAD CLOSED TO THRU TRAFFIC

ABBREVIATION

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

CONSTRUCTION TRAFFIC AND NOTES:

1. CONSTRUCT FOREST HOME ROAD INCLUDING REMOVAL AND INSTALLATION OF BOX CULVERT.
2. CLOSE FOREST HOME ROAD ACCESS FROM CARBONDALE ROAD.
3. FROM EASTBOUND CARBONDALE ROAD: CONTINUE ON CARBONDALE ROAD, LEFT ON HWY 16, LEFT ON FOREST HOME ROAD.
4. FROM WESTBOUND HWY 16: CONTINUE ON HWY 16, LEFT ON FOREST HOME ROAD.
5. FROM WESTBOUND HOUT ROAD: RIGHT ON CARBONDALE ROAD, LEFT ON HWY 16, LEFT ON FOREST HOME ROAD.



DETOUR PLAN - STAGE 1
CLOSURE OF FOREST HOME ROAD

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MARK THOMAS & COMPANY, INC.
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

MARK THOMAS

AMADOR COUNTY
CALIFORNIA

IMPROVEMENT PLANS FOR
**WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD**
DETOUR PLAN - STAGE 1

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH

REGISTERED PROFESSIONAL ENGINEER
JONY T.J.I.
No. 73291
Exp. 12/31/18
CIVIL
STATE OF CALIFORNIA

CONSTRUCTION CONTRACT NO. ###
PROJECT NO. ###

SCALE
HORIZ: NO SCALE
VERT: N/A
SCALE REFERENCE
X" = Y'

DRAWING DE-1
SHEET NO. 9 of 23

NOTES:

1. FEDERAL SIGN CODES ARE SHOWN UNLESS DESIGNATED BY <CA> WHICH INDICATES A CALIFORNIA SIGN CODE.
2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.

LEGEND:

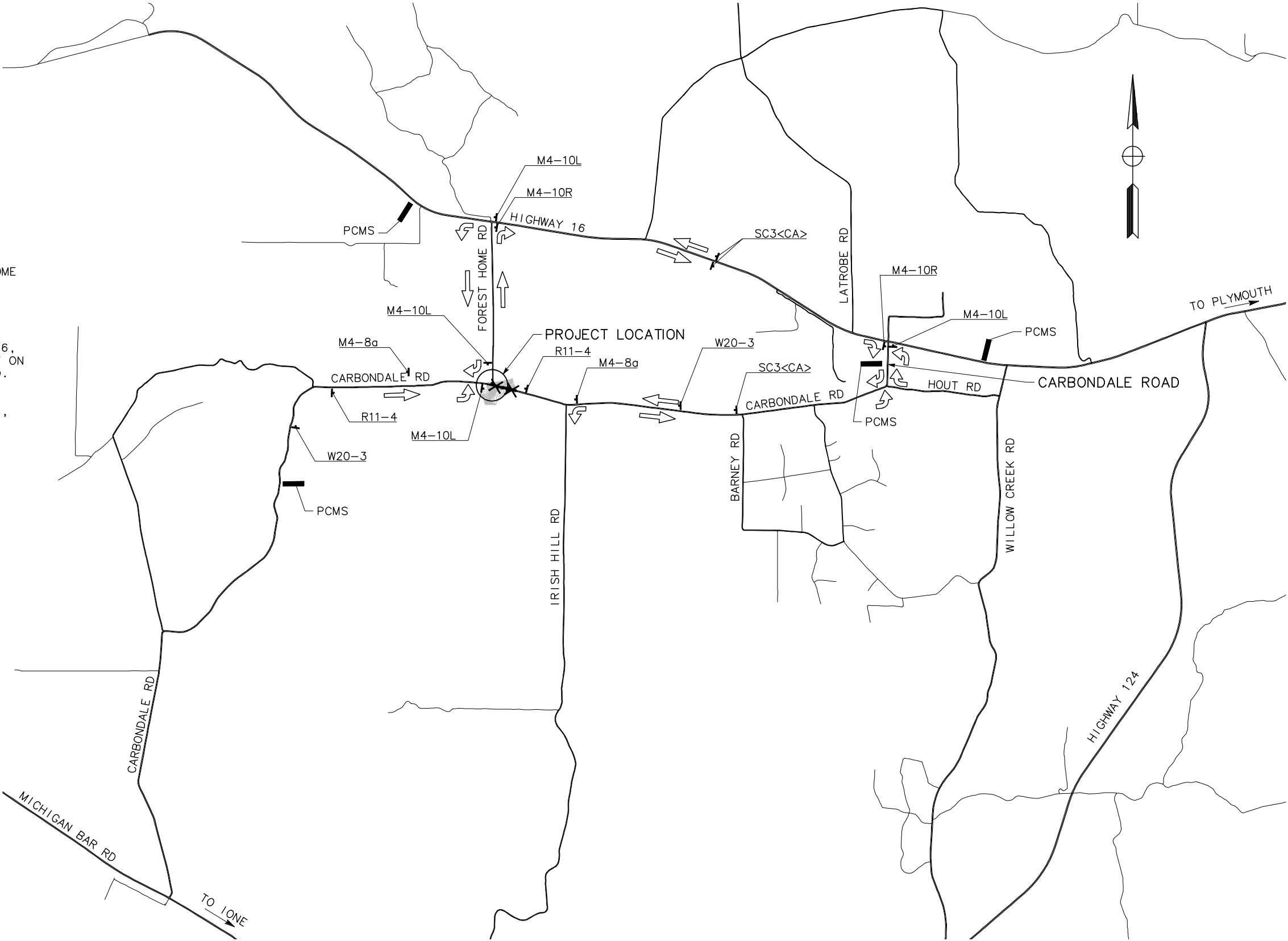
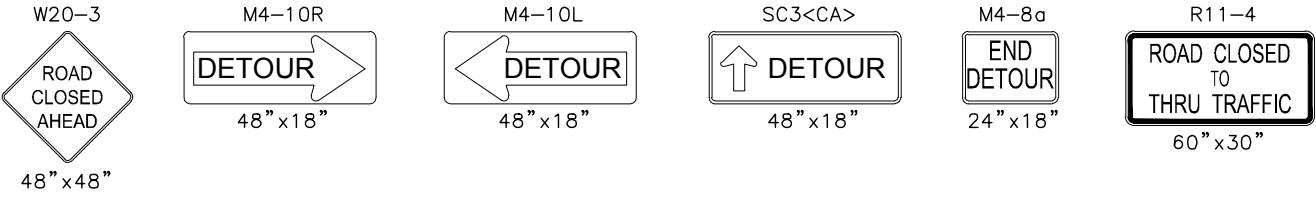
- ➡ DIRECTION OF DETOUR TRAVEL
- ✕ ROAD CLOSED TO THRU TRAFFIC

ABBREVIATION

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

CONSTRUCTION AND TRAFFIC NOTES:

1. CONSTRUCT CARBONDALE ROAD FROM FOREST HOME ROAD TO END OF PROJECT LIMITS. CLOSE CARBONDALE ROAD.
2. FROM EASTBOUND CARBONDALE ROAD TO IRISH HILL ROAD:
LEFT ON FOREST HOME ROAD, RIGHT ON HWY 16, RIGHT ON CARBONDALE ROAD, CONTINUE RIGHT ON CARBONDALE ROAD, LEFT ON IRISH HILL ROAD.
3. FROM WESTBOUND HOUT ROAD:
RIGHT ON CARBONDALE ROAD, LEFT ON HWY 16, LEFT ON FOREST HOME ROAD, RIGHT ON CARBONDALE ROAD.
4. FROM WESTBOUND HWY 16:
CONTINUE ON HWY 16, LEFT ON FOREST HOME ROAD, LEFT ON CARBONDALE ROAD.



DETOUR PLAN - STAGE 2

CONSTRUCTION OF NEW BRIDGE/CLOSURE OF CARBONDALE ROAD

No.	Revision	Description	Date	Approved

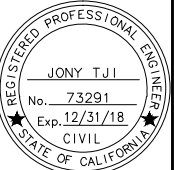
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IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
DETOUR PLAN - STAGE 2

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH



CONSTRUCTION
CONTRACT NO.

PROJECT NO.
####

SCALE
HORIZ: NO SCALE
VERT: N/A
SCALE REFERENCE
X" = Y'

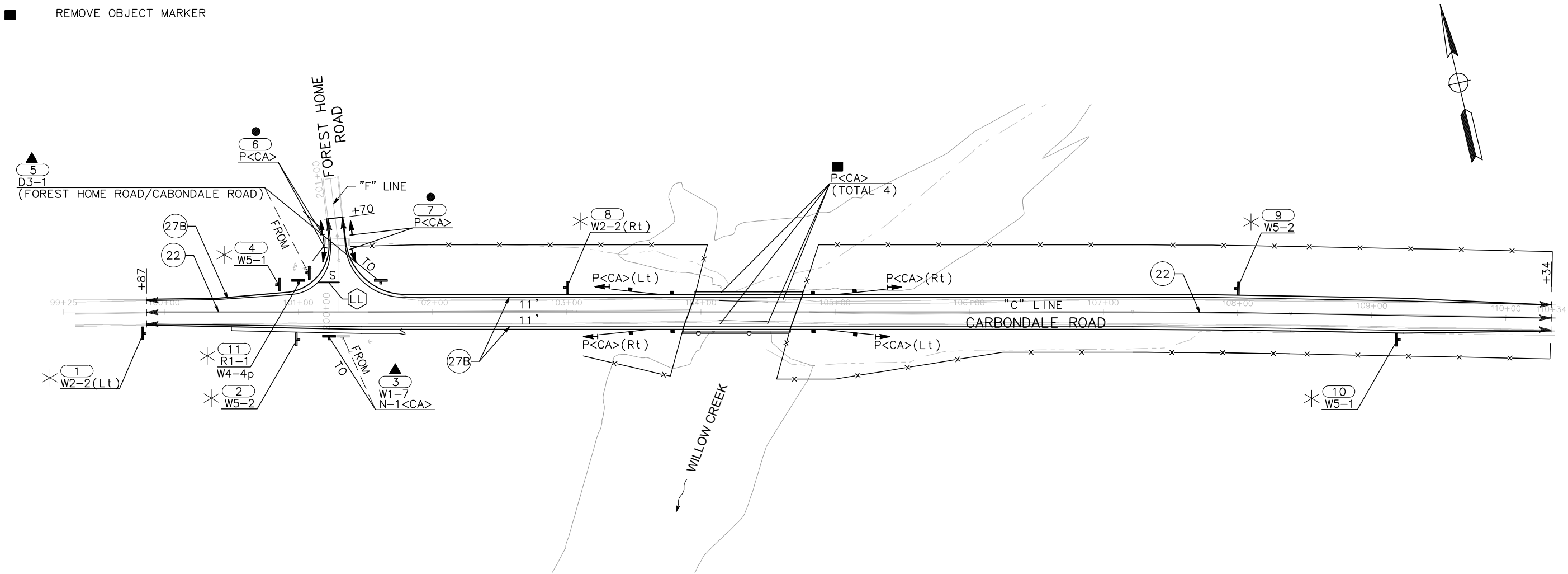
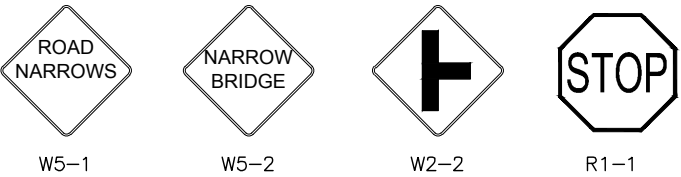
DRAWING
DE-2

SHEET NO.
10 of 23

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LEGEND

- OBJECT MARKER
- LIMITS OF DESIGNATED STRIPES AND DETAILS
- CALTRANS STANDARD PAVEMENT DELINEATION DETAIL NUMBER
- SIGN REFERENCE NUMBER
- INSTALL ROADSIDE SIGN
- PROPOSED ONE POST SIGN LOCATION
- EXISTING ROADSIDE SIGN
- RESET ROADSIDE SIGN/OBJECT MARKER
- "STOP" LEGEND PAVEMENT MARKING
- 12" WHITE LIMIT LINE
- RELOCATE ROADSIDE SIGN
- REMOVE OBJECT MARKER



No.	Revision	Description	Date	Approved

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MARK THOMAS & COMPANY, INC.
701 UNIVERSITY AVENUE
SUITE 200
SACRAMENTO, CA 95825

MARK THOMAS



IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
SIGNING AND STRIPING

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 2-28-18
DESIGN: JT
DRAWN: AM
CHECK: GH



CONSTRUCTION
CONTRACT NO.

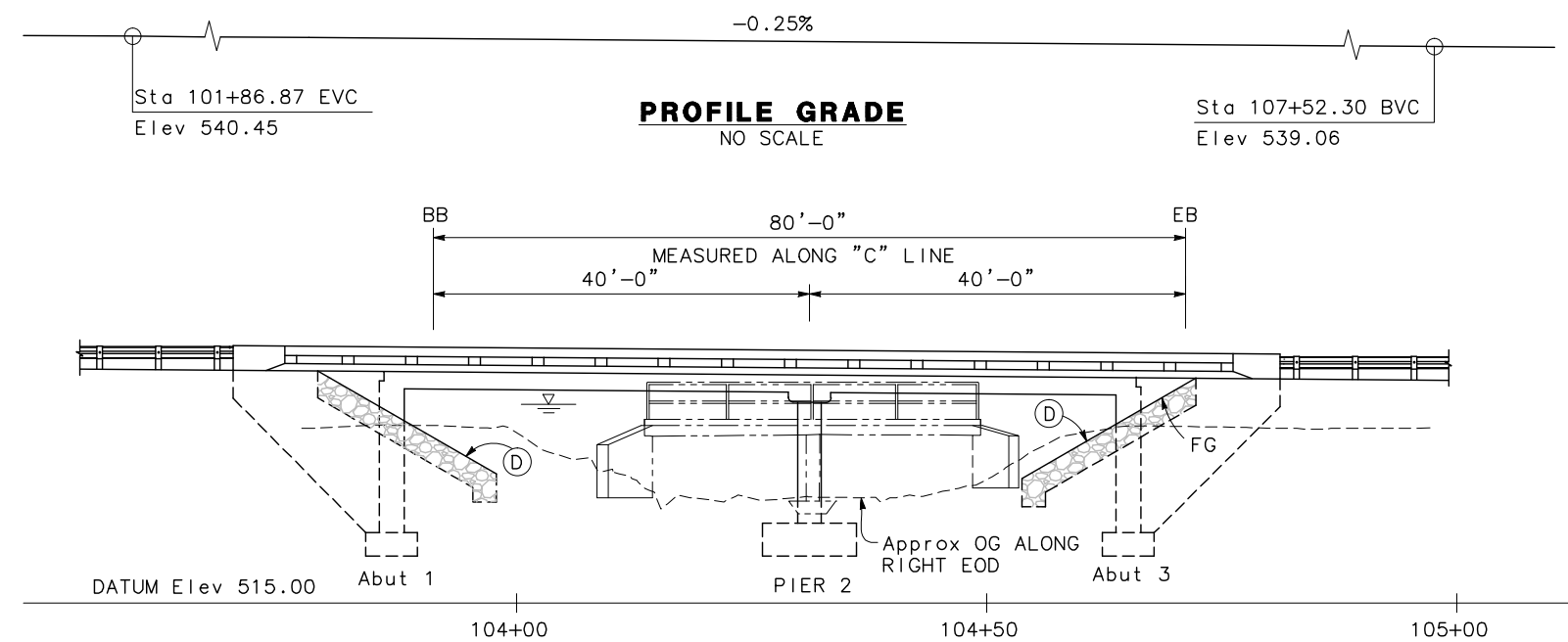
PROJECT NO.
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SCALE
HORIZ: 1"=40'
VERT: N/A
SCALE REFERENCE
X" = Y'

DRAWING
SS-1

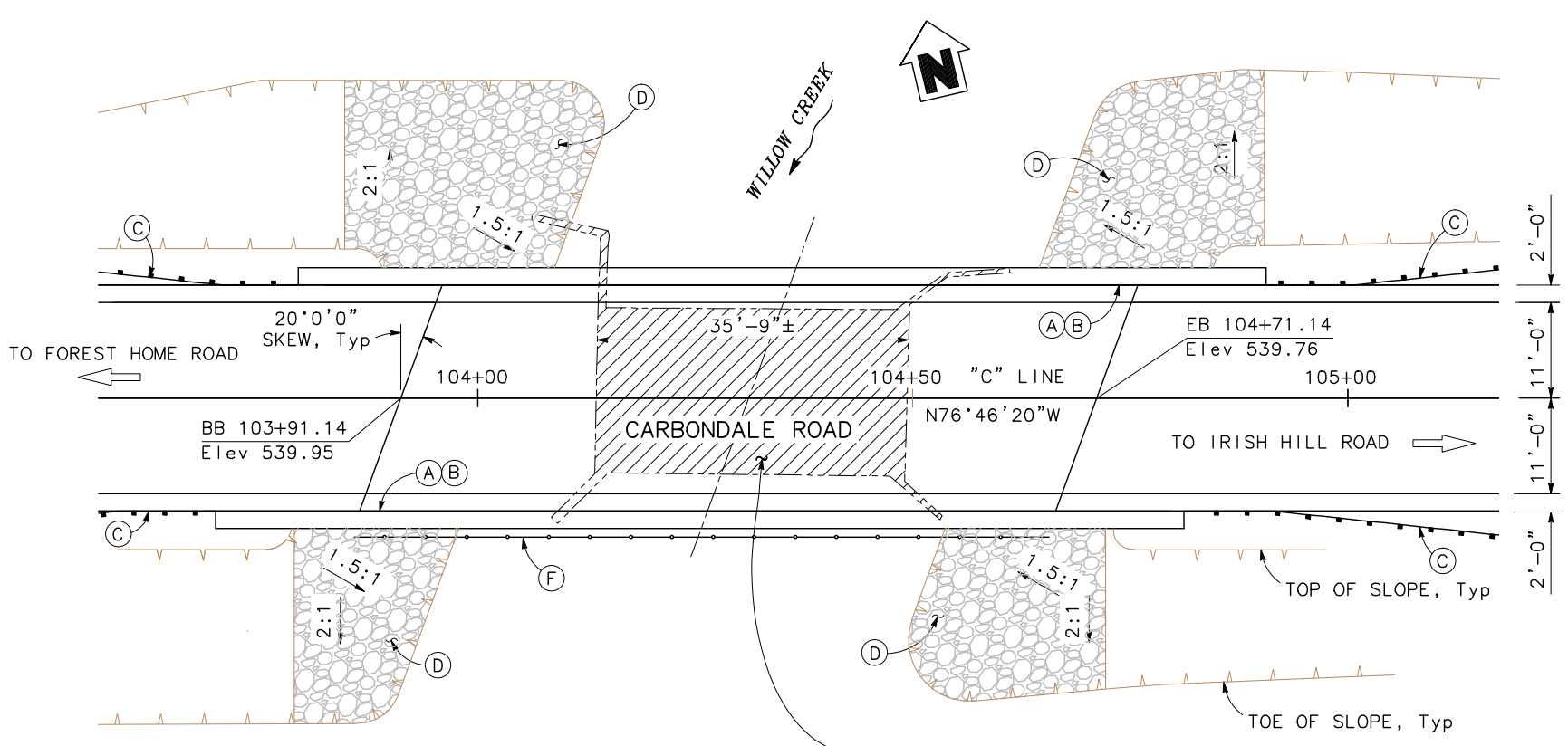
SHEET NO.
11 of 23

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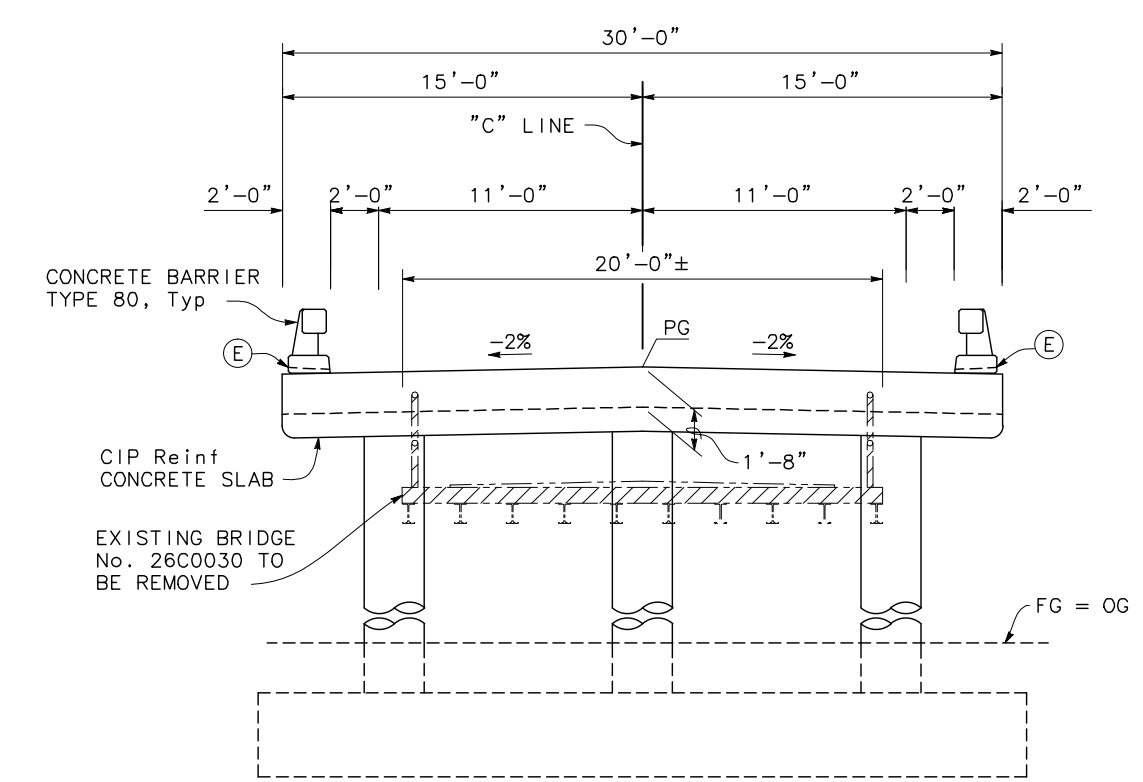
PROFILE GRADE
NO SCALE

ELEVATION
1" = 10'



PLAN
1" = 10'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.



TYPICAL SECTION
1/4" = 1'-0"

- NOTES:
- (A) Paint "WILLOW CREEK BRIDGE"
 - (B) Paint "BR. NO. 26CXXXX"
 - (C) MGS, see "ROAD PLANS"
 - (D) Rock Slope Protection
 - (E) Scupper, see "TYPICAL SECTION" sheet
 - (F) Cattle Fence
1. For "INDEX TO PLAN" and "GENERAL NOTES", see "DECK CONTOURS" sheet.
 2. For "SPREAD FOOTING DATA TABLE" and "HYDROLOGIC SUMMARY", see "FOUNDATION PLAN" sheet.

- LEGEND:
- Indicates Bridge Removal
 - Indicates Exist Structure
 - Indicates Direction of Flow

No.	Revision	Description	Date	Approved

AMADOR COUNTY
CALIFORNIA

**IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
GENERAL PLAN**

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 03-09-18
DESIGN: JB
DRAWN: GB
CHECK: TP

REGISTERED PROFESSIONAL ENGINEER
TRUONG VIET PHAM
No. 81809
Exp. 3/31/18
CIVIL
STATE OF CALIFORNIA

CONSTRUCTION
CONTRACT NO.

PROJECT NO.
####

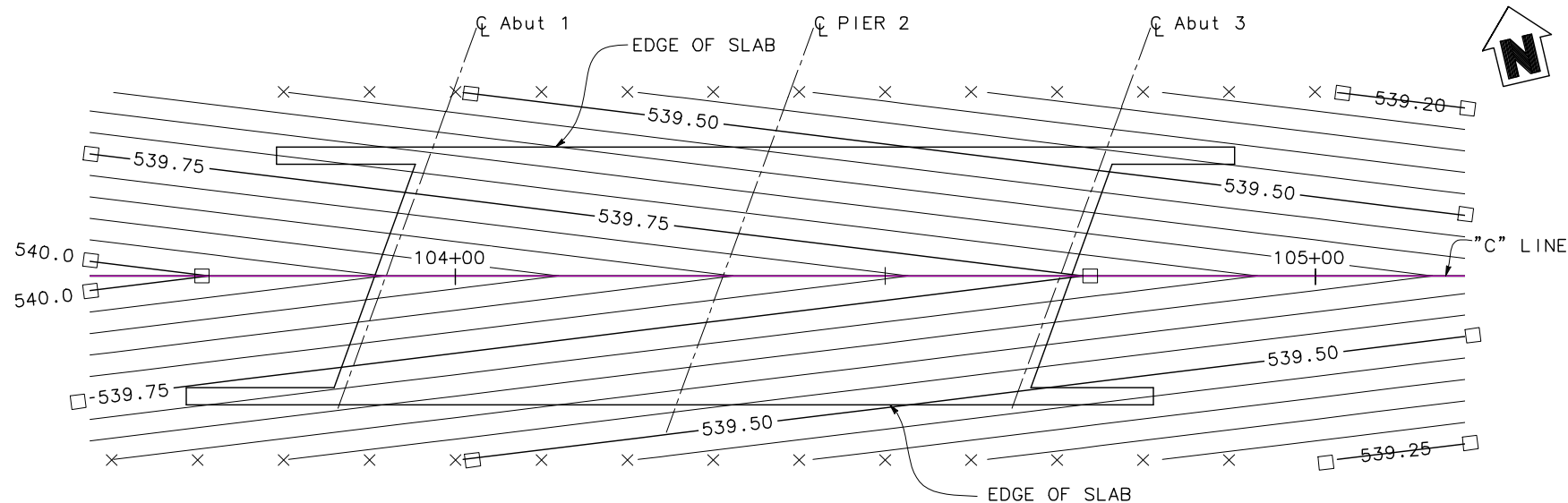
SCALE
HORIZ:
VERT:
SCALE REFERENCE
X" = Y'

DRAWING
S-1

SHEET NO.
12 of 23

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DECK CONTOURS

1" = 10'

NOTES:

1. Contour interval is 0.05 feet.
2. Contours do not include camber or falsework settlement.
3. X - Indicates 10 foot intervals.
4. □ - Indicates quarter foot contour.

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specifications, 6th edition and the California Amendments, preface dated January 2014.

SEISMIC DESIGN:
Caltrans Seismic Design Criteria (SDC), Version 1.7 dated April 2013.

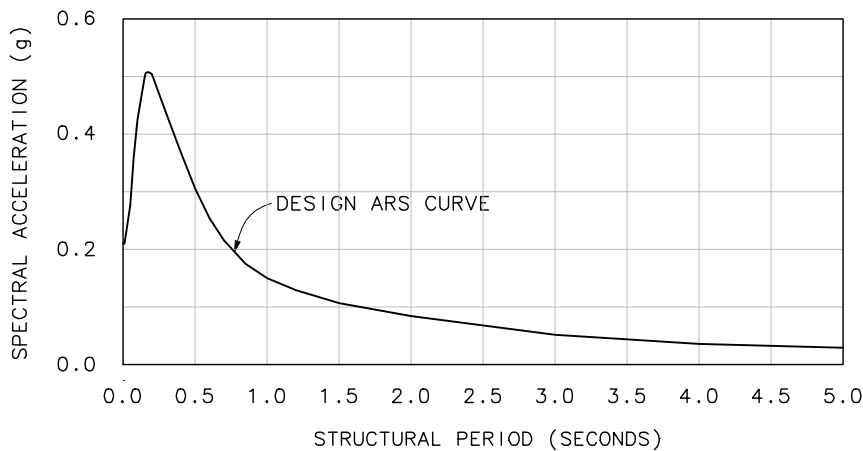
DEAD LOAD:
Includes 35 psf for future wearing surface.

LIVE LOADING:
HL93 and Permit Design Load.

SEISMIC LOADING:
Soil Profile: Vs30 = 560 m/s (1837 ft/s)
Moment Magnitude: 6.5
Peak Ground Acceleration 0.21g
See ARS Curve

CONCRETE:
f_y = 60 ksi
f'_c = 3.6 ksi unless otherwise noted
n = 8

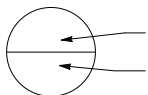
SPREAD FOOTING:
See "SPREAD FOOTING DATA TABLE" on "FOUNDATION PLAN" sheet.



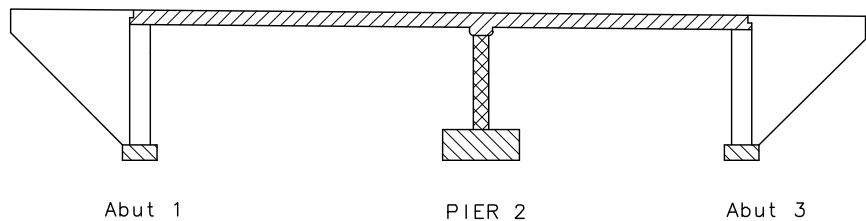
ARS CURVE
(5% DAMPING)

STANDARD PLANS DATED 2015

A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LINES AND SYMBOLS (SHEET 1 OF 5)
RSP A10B	LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LINES AND SYMBOLS (SHEET 5 OF 5)
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
RSP B0-1	BRIDGE DETAILS
RSP B0-3	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B11-60	CONCRETE BARRIER TYPE 80



STANDARD PLAN SHEET No.
DETAIL No.



CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

	Structural Concrete, Bridge
	Structural Concrete, Polymer Fiber
	Structural Concrete, Bridge (f' _c = 4.0 ksi @ 28 days)
	Structural Concrete, Bridge Footing

INDEX TO PLANS

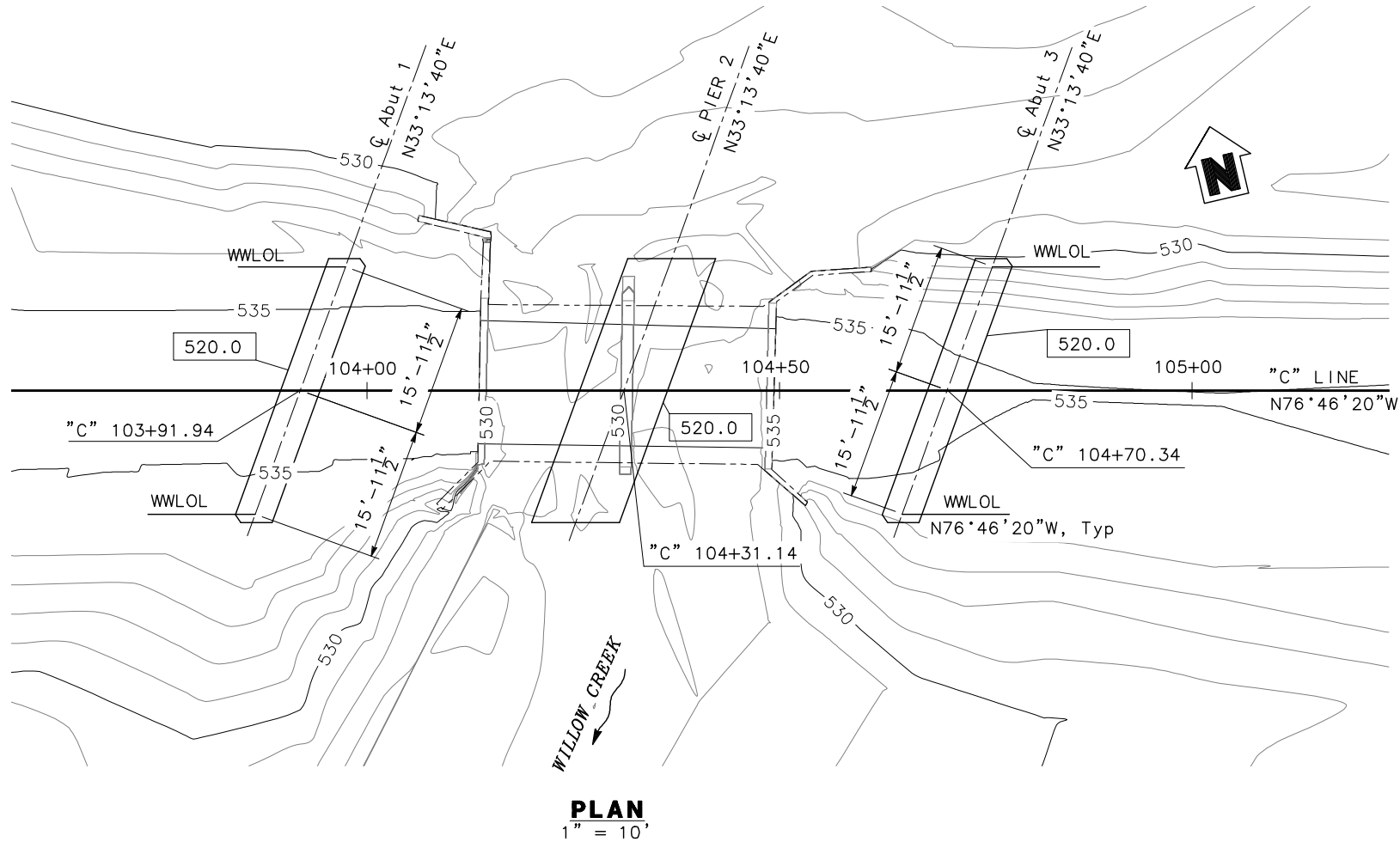
NO.	TITLE
S-1	GENERAL PLAN
S-2	DECK CONTOURS
S-3	FOUNDATION PLAN
S-4	ABUTMENT LAYOUT
S-5	ABUTMENT DETAILS
S-6	PIER LAYOUT
S-7	SLAB REINFORCEMENT
S-8	SLAB REINFORCEMENT DETAILS
S-9	LOG OF TEST BORINGS (1 OF 4)
S-10	LOG OF TEST BORINGS (2 OF 4)
S-11	LOG OF TEST BORINGS (3 OF 4)
S-12	LOG OF TEST BORINGS (4 OF 4)

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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AMADOR COUNTY CALIFORNIA	Revision	Description	Date	Approved
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IMPROVEMENT PLANS FOR WILLOW CREEK BRIDGE REPLACEMENT AT CARBONDALE ROAD DECK CONTOURS				
AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS				
DATE: 03-09-18 DESIGN: JB DRAWN: GB CHECK: TP				
CONSTRUCTION CONTRACT NO. ### PROJECT NO. ###				
SCALE HORIZ: VERT: SCALE REFERENCE X" Y"				
DRAWING S-2				
SHEET NO. 13 of 23				



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BENCH MARK

PT 1002; IP W/PLUG NAVD 88
Elevation: 534.72 feet

LEGEND:

-  Indicates Bottom of Footing Elevation (feet)
-  Indicates Existing Structure

SPREAD FOOTING DATA TABLE

Support Location	Service Permissible Net Contact Stress (Settlement) (ksf)	Strength Factored Gross Normal Bearing Resistance $\phi_b = 0.45$ (ksf)	Extreme Event Factored Gross Normal Bearing Resistance $\phi_b = 1.00$ (ksf)
Abut 1	20.0	9.0	N/A
PIER 2	20.0	9.0	22.0
Abut 3	20.0	9.0	N/A

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

HYDROLOGIC SUMMARY

	Drainage Area: 13.0 Square Miles		
	Design Flood	Base Flood	Overtopping Flood
Frequency (Years)	50	100	>100
Discharge (Cubic Foot per Sec)	3,680	4,130	4775
Water Surface (Elevation at Bridge)	534.4	534.9	538.3

Flood plain data is based upon information available when the plans were prepared and is shown to meet federal requirements. The accuracy of said information is not warranted by the County and interested or affected parties should make their own investigation.

No.

Revision

Description

Date

Approved

AMADOR COUNTY
CALIFORNIA

IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
FOUNDATION PLAN

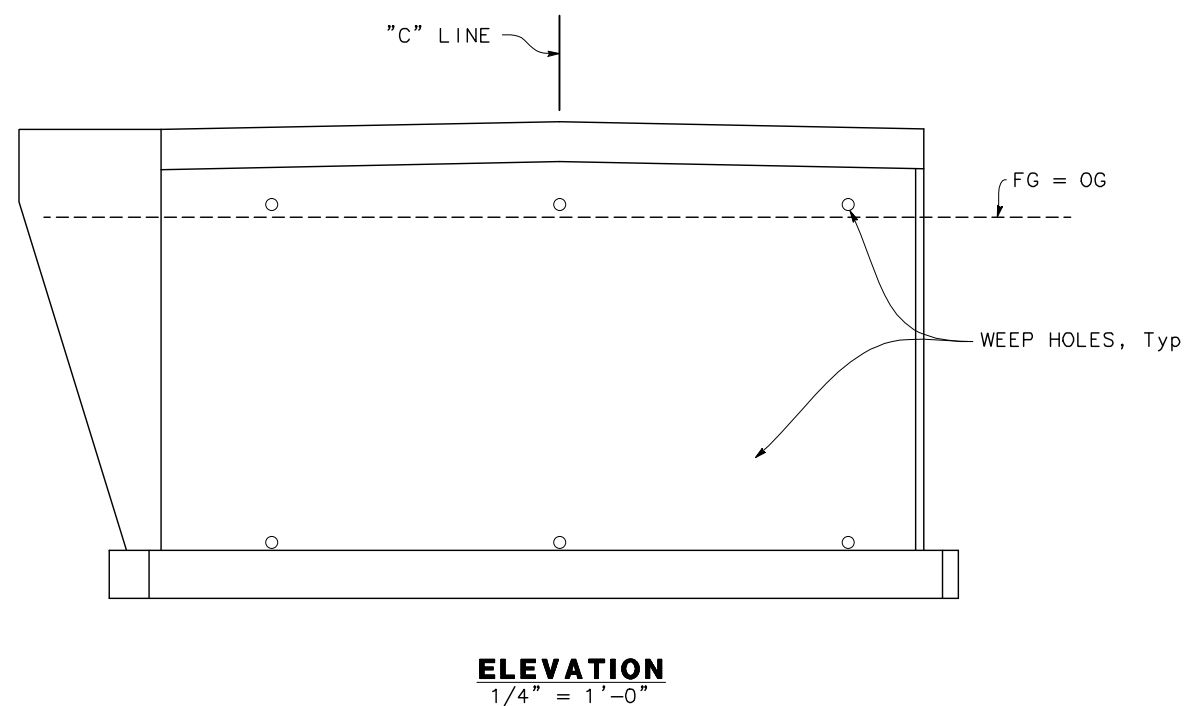
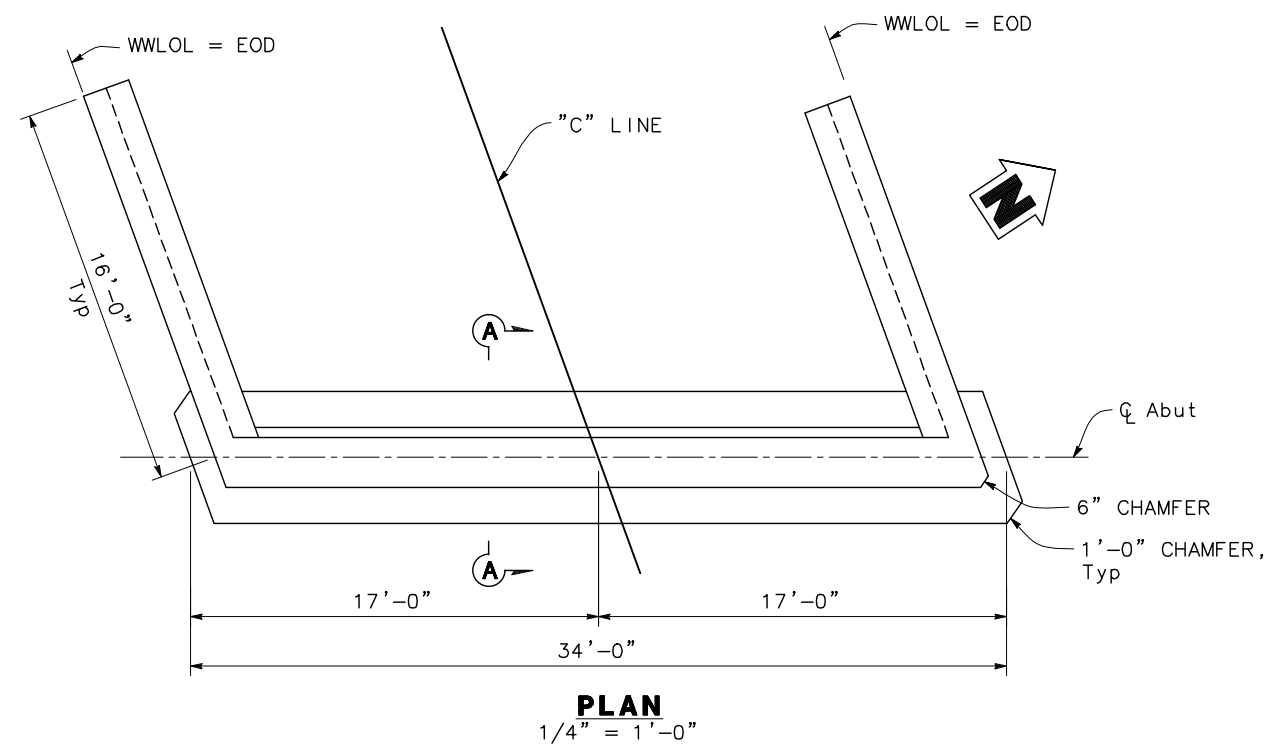
AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 03-09-18
DESIGN: JB
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CHECK: TP

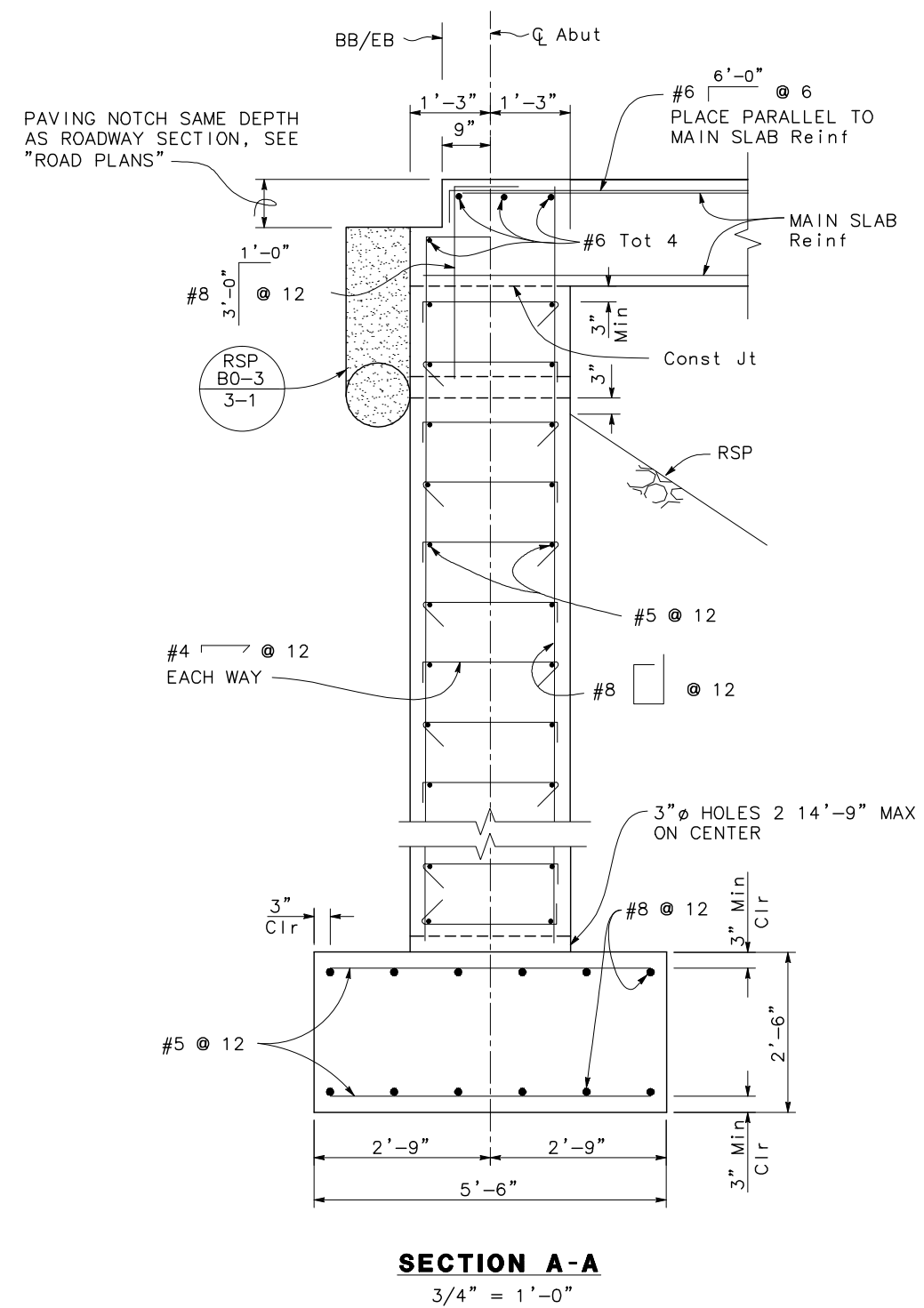
REGISTERED PROFESSIONAL ENGINEER
TRUONG VIET PHAM
No. 81809
Exp. 3/31/18
CIVIL
STATE OF CALIFORNIA

CONSTRUCTION CONTRACT NO. ###
PROJECT NO. ###
SCALE
HORIZ: AS NOTED
VERT: AS NOTED
SCALE REFERENCE
X" Y"
DRAWING
S-3
SHEET NO.
14 of 23

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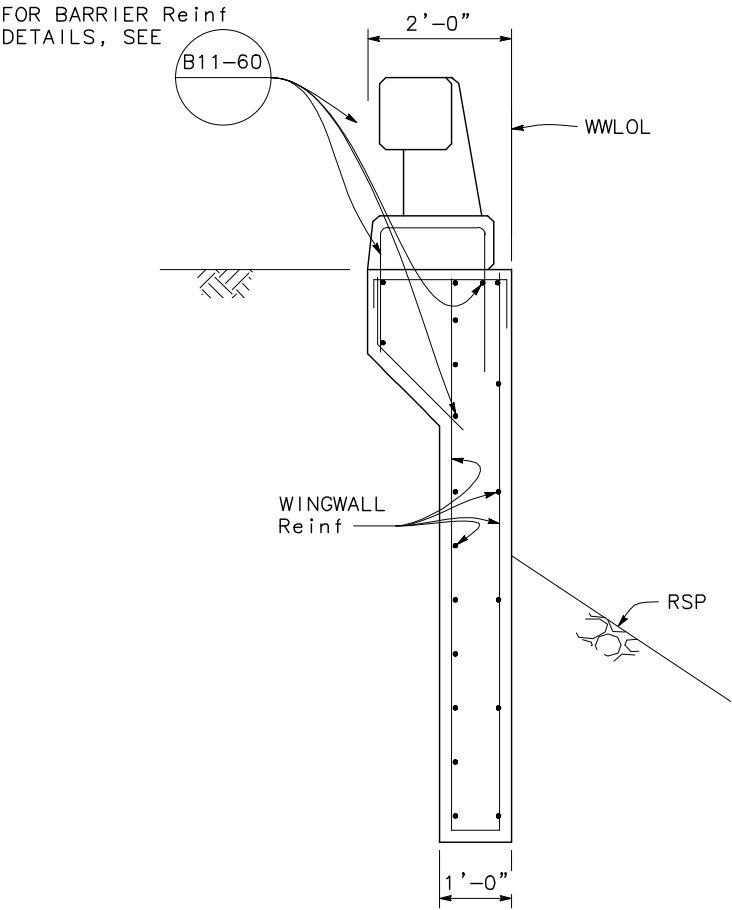
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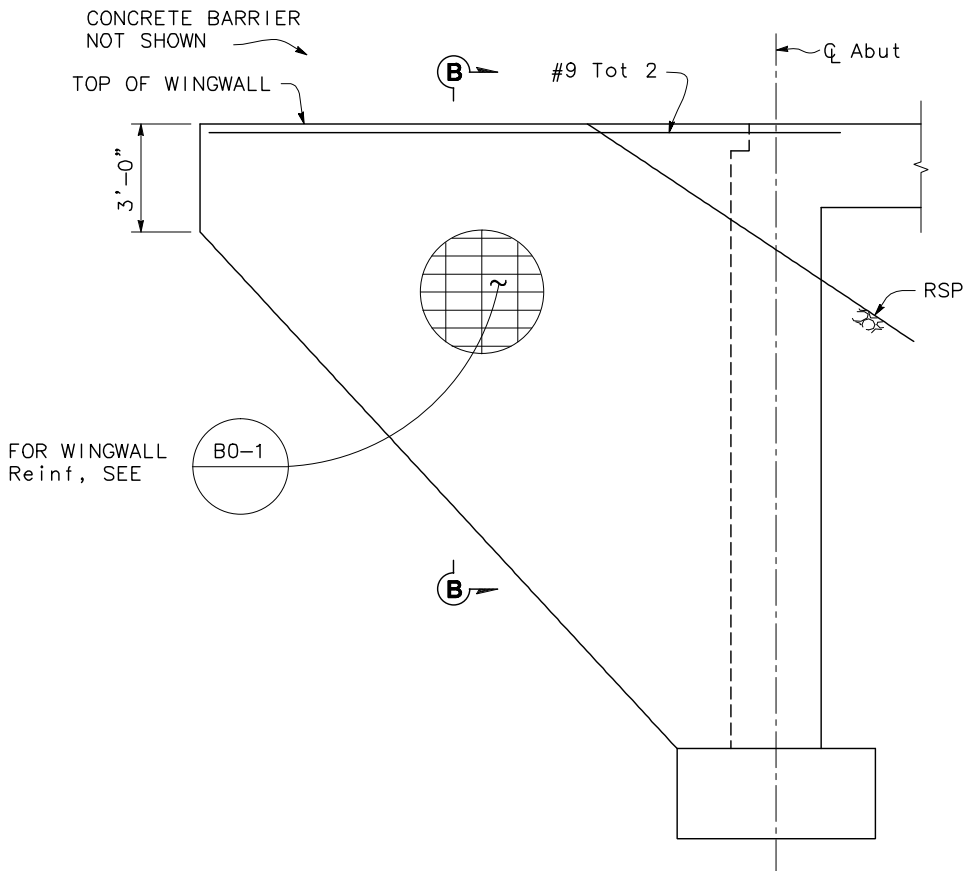
NOTE: Abut 1 shown, Abut 3 similar.

V:\Amador County-SA-14158-Carbondale Rd Bridge\CADD\Sheets\Structure Sheets\04-05 Cor_AL-AD.dwg

NOTE :
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL .




SECTION B-B
3/4" = 1'-0"



WINGWALL ELEVATION
3/8" = 1'-0"


No.	Revision	Description	Date	Approved



IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
ABUTMENT DETAILS

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 03-09-18
DESIGN: JB
DRAWN: GB
CHECK: TP



REGISTERED PROFESSIONAL ENGINEER
TRUONG VIET PHAM
No. 81809
Exp. 3/31/18
CIVIL
STATE OF CALIFORNIA

CONSTRUCTION
CONTRACT NO.

PROJECT NO.
####

SCALE
HORIZ:
VERT:
SCALE REFERENCE
X" = Y'

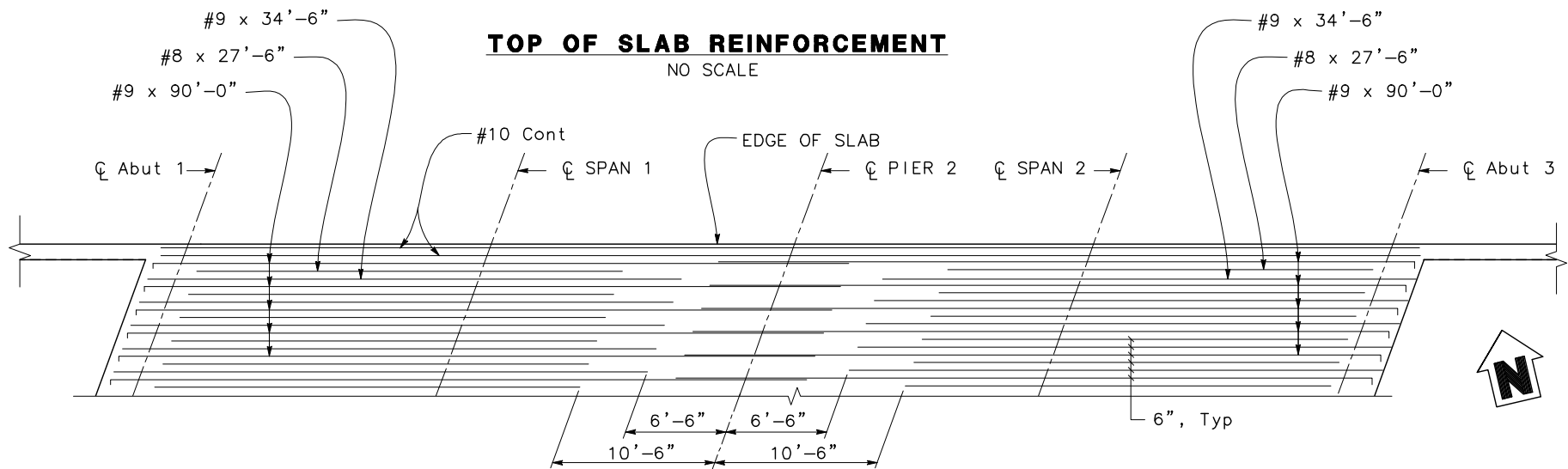
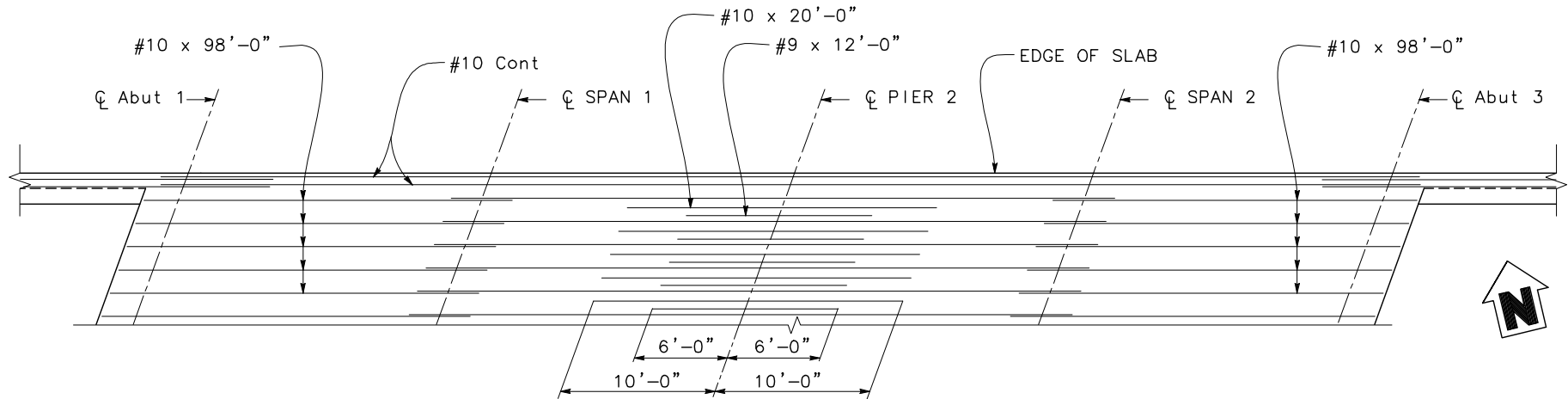
DRAWING
S-5

SHEET NO.
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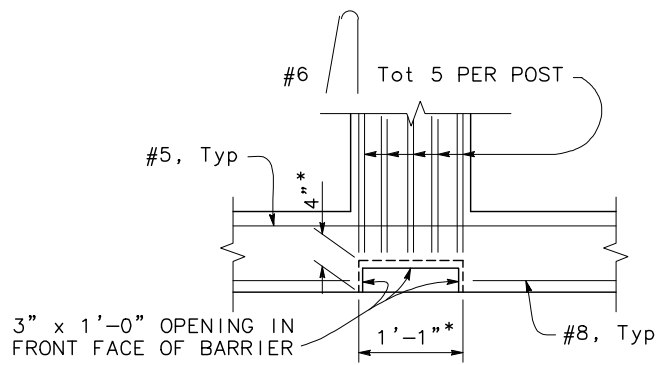
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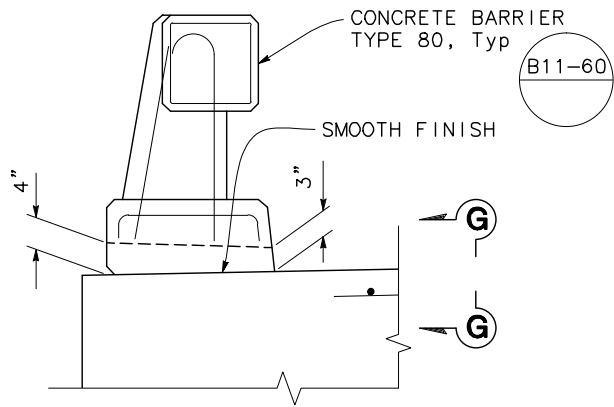
TOP OF SLAB REINFORCEMENT
NO SCALE

BOTTOM OF SLAB REINFORCEMENT
NO SCALE



* Dimension at exterior face of barrier

SECTION G-G
NO SCALE



SCUPPER DETAIL
NO SCALE

SCUPPER LOCATION TABLE
(BOTH SIDES OF THE BRIDGE)

NO.	LEFT SIDE STATION	RIGHT SIDE STATION
SCUPPER 1	103+89.85	103+80.39
SCUPPER 2	103+97.37	103+87.91
SCUPPER 3	104+04.89	103+95.43
SCUPPER 4	104+12.41	104+02.95
SCUPPER 5	104+19.93	104+10.47
SCUPPER 6	104+27.45	104+17.99
SCUPPER 7	104+34.97	104+25.51
SCUPPER 8	104+42.49	104+33.03
SCUPPER 9	104+50.01	104+40.55
SCUPPER 10	104+57.53	104+48.07
SCUPPER 11	104+65.05	104+55.59
SCUPPER 12	104+72.57	104+63.11
SCUPPER 13	104+80.09	104+70.63

NOTES:

1. Stationing for scuppers are to the center of the scupper opening. Adjust curb reinforcement around opening.
2. Service coupler shall be used to join longitudinal slab reinforcement.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

65% SUBMITTAL

No.	Revision	Description	Date	Approved

IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
SLAB REINFORCEMENT

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 03-09-18
DESIGN: JB
DRAWN: GB
CHECK: TP

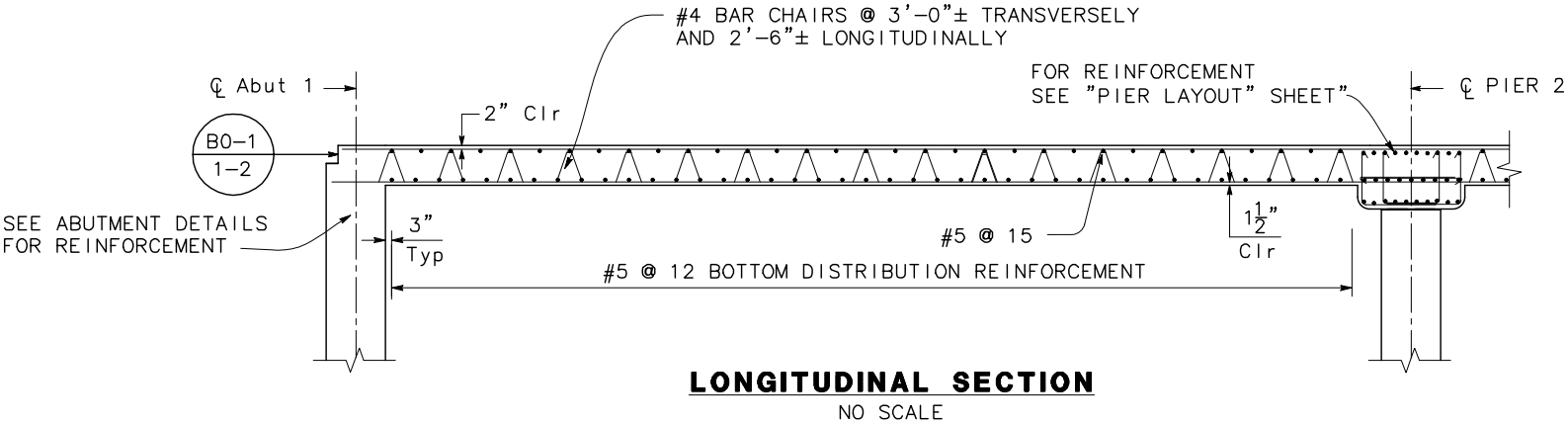
CONSTRUCTION
CONTRACT NO.

PROJECT NO.

SCALE
HORIZ:
VERT:
SCALE REFERENCE
X" Y"
DRAWING
S-7
SHEET NO.
18 of 23

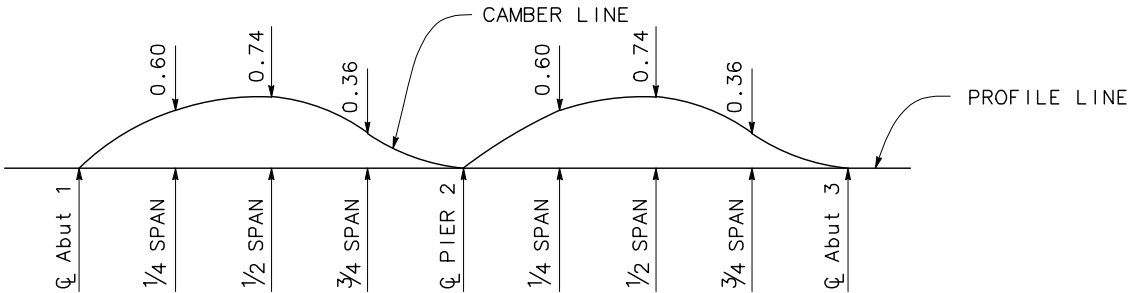
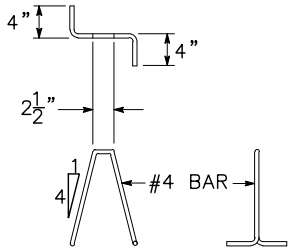
THE COUNTY OF AMADOR, ITS OFFICERS, OR ITS AGENTS
SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR
COMPLETENESS OF ELECTRONIC COPIES OF THIS DOCUMENT.

V:\Amador County-SA-14158-Carbondale Rd Bridge\CADD\Sheets\Structure Sheets\07-08 Cor_SRD.dwg



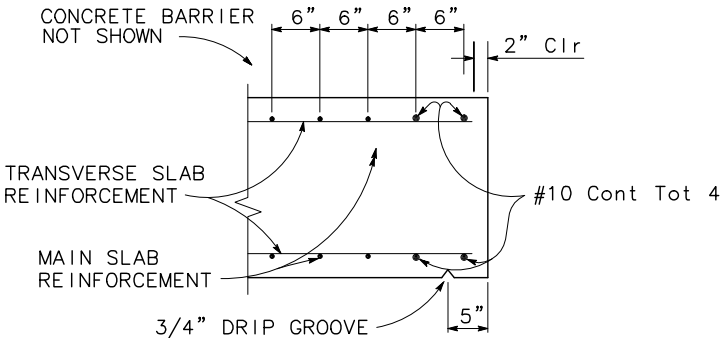
BAR SPLICE LENGTH									
Bar size	#4	#5	#6	#7	#8	#9	#10	#11	
All bars, except top bars in spans over 23'	23"	28"	34"	39"	45"	68"	76"	85"	
Top bars in spans over 23'	23"	28"	34"	53"	60"	77"	97"	120"	

Splices in top main bars to be located near center of span.
Splices in bottom main bars to be located near pier.
Spacing of all transverse bars is measured along CL roadway.
Place all transverse bars parallel to bent.



NOTE: Does not include allowance for falsework settlement.

CAMBER DIAGRAM
NO SCALE




EDGE OF SLAB DETAILS
NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS BEFORE
ORDERING OR FABRICATING ANY MATERIAL.

65% SUBMITTAL


No.	Revision	Description	Date	Approved



IMPROVEMENT PLANS FOR
WILLOW CREEK BRIDGE REPLACEMENT
AT CARBONDALE ROAD
SLAB REINFORCEMENT DETAILS

AMADOR COUNTY CALIFORNIA DEPARTMENT OF PUBLIC WORKS

DATE: 03-09-18
DESIGN: JB
DRAWN: GB
CHECK: TP



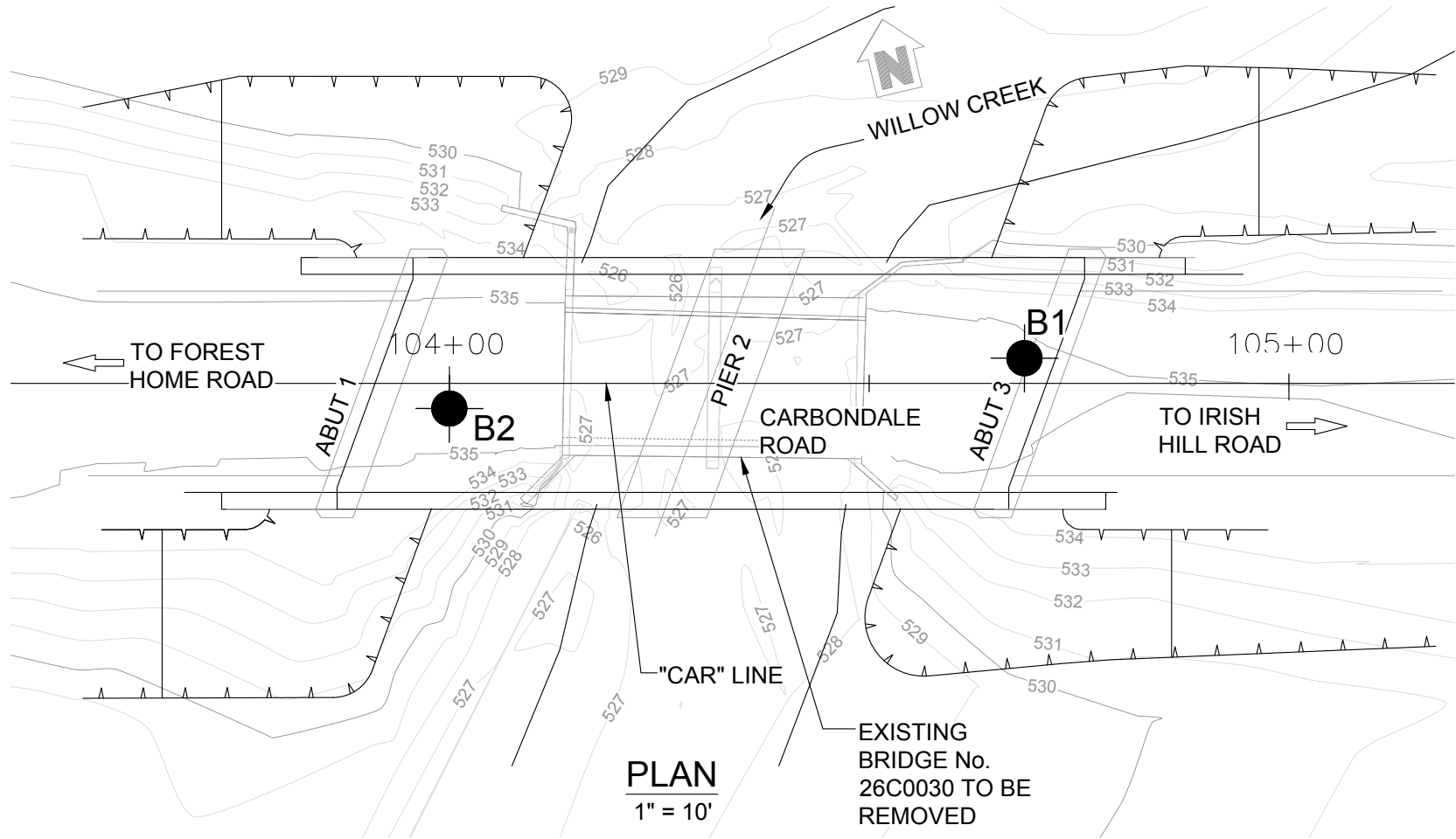
REGISTERED PROFESSIONAL ENGINEER
TRUONG VIET PHAM
No. 81809
Exp. 3/31/18
CIVIL
STATE OF CALIFORNIA

CONSTRUCTION CONTRACT NO. ####
PROJECT NO. ####

SCALE
HORIZ: VERT:
SCALE REFERENCE
X" Y"

DRAWING S-8

SHEET NO. 19 of 23



DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	AMA	C.R.			

CERTIFIED ENGINEERING GEOLOGIST

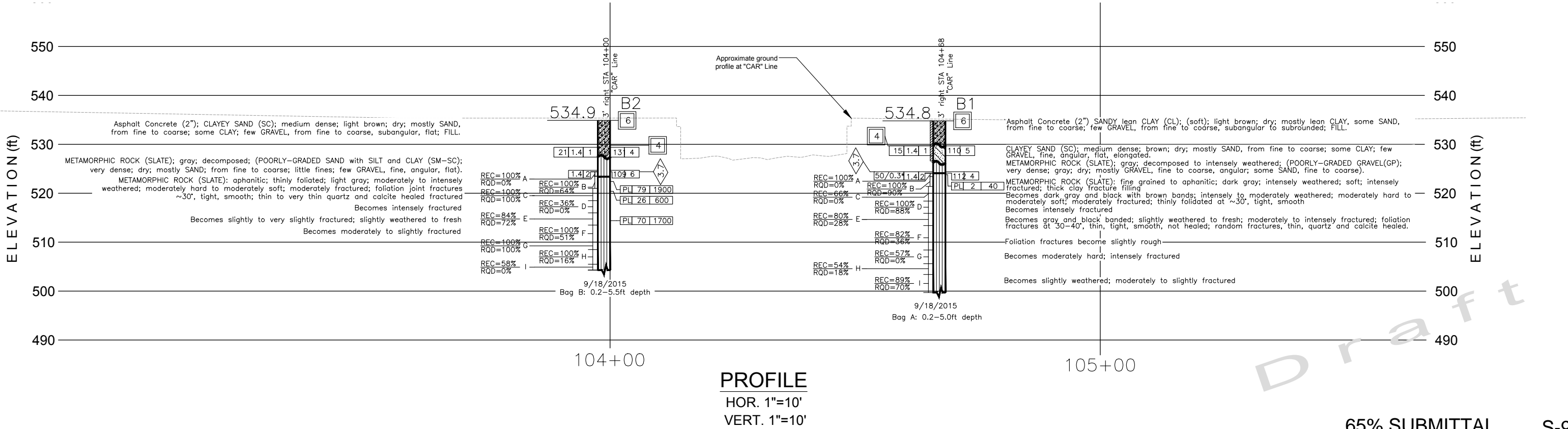
PLANS APPROVAL DATE

TABER CONSULTANTS
1100 Corporate Way, Suite 230
Sacramento, CA 95832
(916) 455-4225
JOB No. 2014-0081 LOCATION:

MARK THOMAS
701 University Avenue, Suite 200
Sacramento, CA 95825
(916) 381-9100

REGISTERED GEOLOGIST
WILLIAM E. NICHOLS
No. 2229
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

- Notes:
- Field classification of soils was in accordance with ASTM D 2488-09a "Description and Identification of Soils (Visual-Manual Procedure)".
 - Standard Penetration tests (SPTs) were performed in accordance with ASTM D 1586-11 using hammer operated with an automated drop system. Drill rods were 1 5/8-inch diameter "A"-rods; sampler was driven with brass liners. SPT hammer energy ratio (ERi) measurements indicate an ERi=76% as of 12/05/2014.
 - The length of each sampled interval is shown graphically on the boring log. Whole number blow counts ("N") represent the "standard penetration resistance" interval in accordance with ASTM D1586-11. Where less than 1 foot of penetration is achieved, the blow count shown is for that fraction of the "standard penetration resistance" interval actually penetrated. Where indicated by an asterisk (*) the number of blows shown is for only that fraction of the initial 0.5 ft "seating drive" interval penetration. Material characteristics shown in () where estimated.
 - Rock classification according to Caltrans Soil and Rock Logging, Classification and Presentation manual (2010 Edition). Descriptions were determined in the field. REC = Core Recovered (percent). RQD = Rock Quality Designation (percent).
 - Borings were surveyed by Taber Consultants in the field at the time of subsurface exploration and are referenced to project datum provided by Mark Thomas & Company, Inc.
 - Electronic media for plan view provided by Mark Thomas.
 - The groundline profile is based on Taber Consultants survey from the upstream side of the bridge deck on September 18, 2015.



65% SUBMITTAL S-9


ENGINEERING SERVICES			GEOTECHNICAL SERVICES			PREPARED FOR THE		BRIDGE NO. 26C-0030	Carbondale Road over Willow Creek Bridge Replacement													
FUNCTIONAL SUPERVISOR W. Eric Nichols		DRAWN BY: X. Vang; D. Lukashov; S. Crawford		FIELD INVESTIGATION BY: A. Kahn		DATE: March 2018		AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS		PROJECT ENGINEER		POST MILE	LOG OF TEST BORINGS 1 OF 4									
		CHECKED BY: D. Castro																				
OGS CIVIL LOG OF TEST BORINGS SHEET						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		0 1 2 3		CU EA		DISREGARD PRINTS BEARING EARLIER REVISION DATES		→		REVISION DATES (PRELIMINARY STAGE ONLY)					SHEET 20	OF 23

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	AMA	C.R.			

CERTIFIED ENGINEERING GEOLOGIST

PLANS APPROVAL DATE



TABER CONSULTANTS
 1100 Corporate Way, Suite 230
 Sacramento, CA 95832
 (916) 455-4225








JOB No. 2014-0081

LOCATION:

MARK THOMAS
 701 University Avenue, Suite 200
 Sacramento, CA 95825
 (916) 381-9100

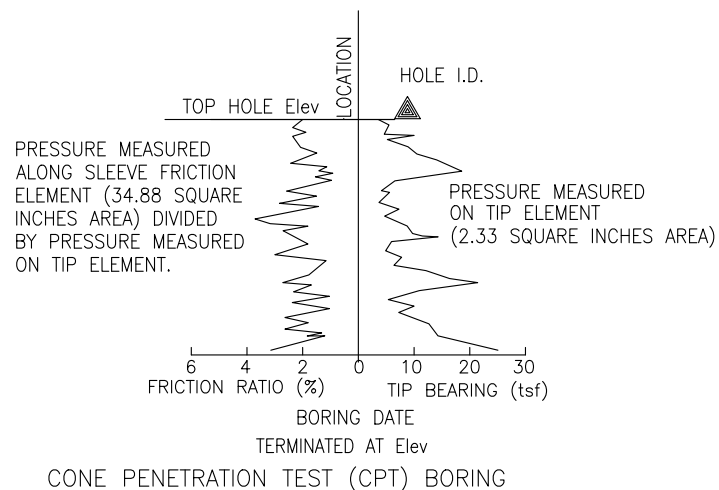
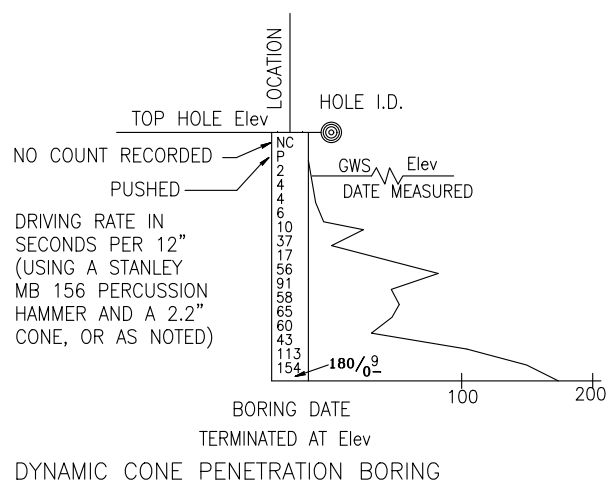
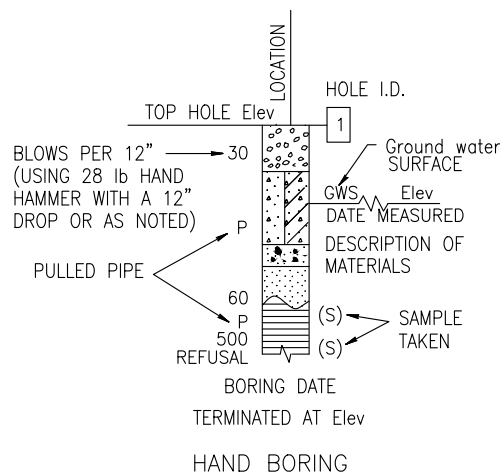
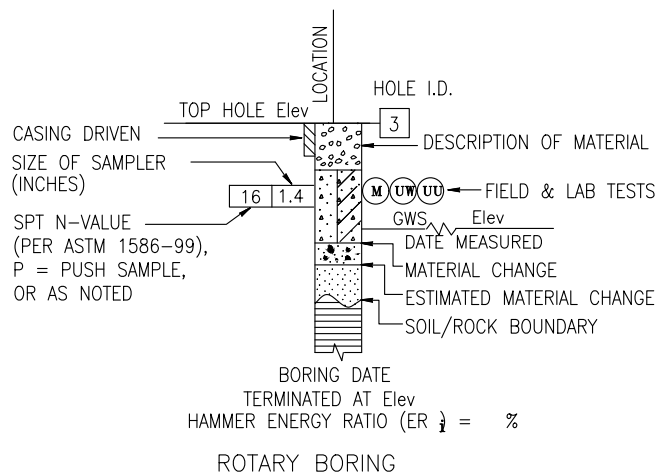
CEMENTATION	
DESCRIPTION	CRITERIA
WEAK	CRUMBLES OR BREAKS WITH HANDLING OR LITTLE FINGER PRESSURE.
MODERATE	CRUMBLES OR BREAKS WITH CONSIDERABLE FINGER PRESSURE.
STRONG	WILL NOT CRUMBLE OR BREAK WITH FINGER PRESSURE.

LEGEND - SOIL
(SHEET 1 OF 2)

BOREHOLE IDENTIFICATION		
SYMBOL	HOLE TYPE	DESCRIPTION
	A	AUGER BORING (HOLLOW OR SOLID STEM BUCKET)
	R	ROTARY DRILLED BORING (CONVENTIONAL)
	RW	ROTARY DRILLED WITH SELF-CASING WIRE-LINE
	RC	ROTARY CORE WITH CONTINUOUSLY-SAMPLED, SELF-CASING WIRE-LINE
	P	ROTARY PERCUSSION BORING (AIR)
	R	ROTARY DRILLED DIAMOND CORE
	HD	HAND DRIVEN (1-INCH SOIL TUBE)
	HA	HAND AUGER
	D	DYNAMIC CONE PENETRATION BORING
	CPT	CONE PENETRATION TEST (ASTM D 5778)
	O	OTHER (NOTE ON LOTB)

Note: Size in inches.

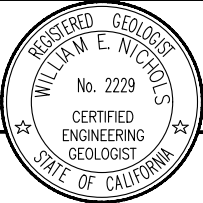
CONSISTENCY OF COHESIVE SOILS				
DESCRIPTION	SHEAR STRENGTH (tsf)	POCKET PENETROMETER MEASUREMENT, PP, (tsf)	TORVANE MEASUREMENT, TV, (tsf)	VANE SHEAR MEASUREMENT, VS, (tsf)
VERY SOFT	LESS THAN 0.12	LESS THAN 0.25	LESS THAN 0.12	LESS THAN 0.12
SOFT	0.12 – 0.25	0.25 – 0.5	0.12 – 0.25	0.12 – 0.25
MEDIUM STIFF	0.25 – 0.5	0.5 – 1	0.25 – 0.5	0.25 – 0.5
STIFF	0.5 – 1	1 – 2	0.5 – 1	0.5 – 1
VERY STIFF	1 – 2	2 – 4	1 – 2	1 – 2
HARD	GREATER THAN 2	GREATER THAN 4	GREATER THAN 2	GREATER THAN 2

































65% SUBMITTAL S-10

ENGINEERING SERVICES				GEOTECHNICAL SERVICES				PREPARED FOR THE				BRIDGE NO. 26C-0030		Carbondale Road over Willow Creek Bridge Replacement																																	
FUNCTIONAL SUPERVISOR W. Eric Nichols				DRAWN BY: X. Vang; D. Lukashov; S. Crawford				FIELD INVESTIGATION BY: A. Kahn				DATE: March 2018				AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS				PROJECT ENGINEER		POST MILE		LOG OF TEST BORINGS 2 OF 4																							
				CHECKED BY: D. Castro																																											
OGS CIVIL LOG OF TEST BORINGS SHEET														ORIGINAL SCALE IN INCHES FOR REDUCED PLANS														0123		CU EA		DISREGARD PRINTS BEARING EARLIER REVISION DATES →		REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET 21		OF 23	

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	AMA	C.R.			
_____ CERTIFIED ENGINEERING GEOLOGIST					
_____ PLANS APPROVAL DATE					
TABER CONSULTANTS 1100 Corporate Way, Suite 230 Sacramento, CA 95832 (916) 455-4225 JOB No. <u>2014-0081</u> LOCATION: _____					
MARK THOMAS 701 University Avenue, Suite 200 Sacramento, CA 95825 (916) 381-9100					

GROUP SYMBOLS AND NAMES					
GRAPHIC/SYMBOL		GROUP NAMES	GRAPHIC/SYMBOL		GROUP NAMES
	GW	WELL-GRADED GRAVEL WELL-GRADED GRAVEL WITH SAND		CL	LEAN CLAY LEAN CLAY WITH SAND LEAN CLAY WITH GRAVEL SANDY LEAN CLAY SANDY LEAN CLAY WITH GRAVEL GRAVELLY LEAN CLAY GRAVELLY LEAN CLAY WITH SAND
	GP	POORLY-GRADED GRAVEL POORLY-GRADED GRAVEL WITH SAND			
	GW-GM	WELL-GRADED GRAVEL WITH SILT WELL-GRADED GRAVEL WITH SILT AND SAND		CL-ML	SILTY CLAY SILTY CLAY WITH SAND SILTY CLAY WITH GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY WITH GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY WITH SAND
	GW-GC	WELL-GRADED GRAVEL WITH CLAY (OR SILTY CLAY) WELL-GRADED GRAVEL WITH CLAY AND SAND (OR SILTY CLAY AND SAND)			
	GP-GM	POORLY-GRADED GRAVEL WITH SILT POORLY-GRADED GRAVEL WITH SILT AND SAND		ML	SILT SILT WITH SAND SILT WITH GRAVEL SANDY SILT SANDY SILT WITH GRAVEL GRAVELLY SILT GRAVELLY SILT WITH SAND
	GP-GC	POORLY-GRADED GRAVEL WITH CLAY (OR SILTY CLAY) POORLY-GRADED GRAVEL WITH CLAY AND SAND (OR SILTY CLAY AND SAND)			
	GM	SILTY GRAVEL SILTY GRAVEL WITH SAND		OL	ORGANIC LEAN CLAY ORGANIC LEAN CLAY WITH SAND ORGANIC LEAN CLAY WITH GRAVEL SANDY ORGANIC LEAN CLAY SANDY ORGANIC LEAN CLAY WITH GRAVEL GRAVELLY ORGANIC LEAN CLAY GRAVELLY ORGANIC LEAN CLAY WITH SAND
	GC	CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND			
	GC-GM	SILTY, CLAYEY GRAVEL SILTY, CLAYEY GRAVEL WITH SAND		OL	ORGANIC SILT ORGANIC SILT WITH SAND ORGANIC SILT WITH GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT WITH GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT WITH SAND
	SW	WELL-GRADED SAND WELL-GRADED SAND WITH GRAVEL			
	SP	POORLY-GRADED SAND POORLY-GRADED SAND WITH GRAVEL		CH	FAT CLAY FAT CLAY WITH SAND FAT CLAY WITH GRAVEL SANDY FAT CLAY SANDY FAT CLAY WITH GRAVEL GRAVELLY FAT CLAY GRAVELLY FAT CLAY WITH SAND
	SW-SM	WELL-GRADED SAND WITH SILT WELL-GRADED SAND WITH SILT AND GRAVEL			
	SW-SC	WELL-GRADED SAND WITH CLAY (OR SILTY CLAY) WELL-GRADED SAND WITH CLAY AND GRAVEL (OR SILTY CLAY AND GRAVEL)		MH	ELASTIC SILT ELASTIC SILT WITH SAND ELASTIC SILT WITH GRAVEL SANDY ELASTIC SILT SANDY ELASTIC SILT WITH GRAVEL GRAVELLY ELASTIC SILT GRAVELLY ELASTIC SILT WITH SAND
	SP-SM	POORLY-GRADED SAND WITH SILT POORLY-GRADED SAND WITH SILT AND GRAVEL			
	SP-SC	POORLY-GRADED SAND WITH CLAY (OR SILTY CLAY) POORLY-GRADED SAND WITH CLAY AND GRAVEL (OR SILTY CLAY AND GRAVEL)		OH	ORGANIC FAT CLAY ORGANIC FAT CLAY WITH SAND ORGANIC FAT CLAY WITH GRAVEL SANDY ORGANIC FAT CLAY SANDY ORGANIC FAT CLAY WITH GRAVEL GRAVELLY ORGANIC FAT CLAY GRAVELLY ORGANIC FAT CLAY WITH SAND
	SM	SILTY SAND SILTY SAND WITH GRAVEL			
	SC	CLAYEY SAND CLAYEY SAND WITH GRAVEL		OH	ORGANIC ELASTIC SILT ORGANIC ELASTIC SILT WITH SAND ORGANIC ELASTIC SILT WITH GRAVEL SANDY ORGANIC ELASTIC SILT SANDY ORGANIC ELASTIC SILT WITH GRAVEL GRAVELLY ORGANIC ELASTIC SILT GRAVELLY ORGANIC ELASTIC SILT WITH SAND
	SC-SM	SILTY, CLAYEY SAND SILTY, CLAYEY SAND WITH GRAVEL			
	PT	PEAT		OL/OH	ORGANIC SOIL ORGANIC SOIL WITH SAND ORGANIC SOIL WITH GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL WITH GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL WITH SAND
		COBBLES COBBLES AND BOULDERS BOULDERS			

FIELD AND LABORATORY TESTING	
(C)	CONSOLIDATION (ASTM D 2435)
(CL)	COLLAPSE POTENTIAL (ASTM D 5333)
(CP)	COMPACTION CURVE (CTM 216)
(CR)	CORROSIVITY TESTING (CTM 643, CTM 422, CTM 417)
(CU)	CONSOLIDATED UNDRAINED TRIAXIAL (ASTM D 4767)
(DS)	DIRECT SHEAR (ASTM D 3080)
(EI)	EXPANSION INDEX (ASTM D 4829)
(M)	MOISTURE CONTENT (ASTM D 2216)
(OC)	ORGANIC CONTENT—% (ASTM D 2974)
(P)	PERMEABILITY (CTM 220)
(PA)	PARTICLE SIZE ANALYSIS (ASTM D 422)
(PI)	PLASTICITY INDEX (AASHTO T 90) LIQUID LIMIT (AASHTO T 89)
(PL)	POINT LOAD INDEX (ASTM D 5731)
(PM)	PRESSURE METER
(R)	R—VALUE (CTM 301)
(SE)	SAND EQUIVALENT (CTM 217)
(SG)	SPECIFIC GRAVITY (AASHTO T 100)
(SL)	SHRINKAGE LIMIT (ASTM D 427)
(SW)	SWELL POTENTIAL (ASTM D 4546)
(UC)	UNCONFINED COMPRESSION—SOIL (ASTM D 2166) UNCONFINED COMPRESSION—ROCK (ASTM D 2938)
(UU)	UNCONSOLIDATED UNDRAINED TRIAXIAL (ASTM D 2850)
(UW)	UNIT WEIGHT (ASTM D 4767)

LEGEND — SOIL
(SHEET 2 OF 2)

APPARENT DENSITY OF COHESIONLESS SOILS	
DESCRIPTION	SPT N ₆₀ (BLOWS / 12 INCHES)
VERY LOOSE	0 – 5
LOOSE	5 – 10
MEDIUM DENSE	10 – 30
DENSE	30 – 50
VERY DENSE	GREATER THAN 50

MOISTURE	
DESCRIPTION	CRITERIA
DRY	NO DISCERNABLE MOISTURE
MOIST	MOISTURE PRESENT, BUT NO FREE WATER
WET	VISIBLE FREE WATER

PERCENT OR PROPORTION OF SOILS	
DESCRIPTION	CRITERIA
TRACE	PARTICLES ARE PRESENT BUT ESTIMATED TO BE LESS THAN 5%
FEW	5% – 10%
LITTLE	15% – 25%
SOME	30% – 45%
MOSTLY	50% – 100%

PARTICLE SIZE		
DESCRIPTION		SIZE
BOULDER		GREATER THAN 12"
COBBLE		3" – 12"
GRAVEL	COARSE	3/4" – 3"
	FINE	1/5" – 3/4"
SAND	COARSE	1/16" – 1/5"
	MEDIUM	1/64" – 1/16"
	FINE	1/300" – 1/64"
SILT AND CLAY		LESS THAN 1/300"

65% SUBMITTAL S-11

ENGINEERING SERVICES				GEOTECHNICAL SERVICES				PREPARED FOR THE		BRIDGE NO. 26C-0030		Carbondale Road over Willow Creek Bridge Replacement											
FUNCTIONAL SUPERVISOR				DRAWN BY: X. Vang; D. Lukashov; S. Crawford		FIELD INVESTIGATION BY:		DATE:		PROJECT ENGINEER		POST MILE		LOG OF TEST BORINGS 3 OF 4									
W. Eric Nichols				CHECKED BY: D. Castro		A. Kahn		March 2018		AMADOR COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS													
OGS CIVIL LOG OF TEST BORINGS SHEET								ORIGINAL SCALE, IN INCHES FOR REDUCED PLANS				CU EA		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)		SHEET 22		OF 23			
								0 1 2 3															

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)




PERCENT CORE RECOVERY (REC) & ROCK QUALITY DESIGNATION (RQD)

$$REC = \frac{\sum \text{LENGTH OF THE RECOVERED CORE PIECES (INCHES)}}{\text{TOTAL LENGTH OF CORE RUN (INCHES)}} \times 100\%$$

$$RQD = \frac{\sum \text{LENGTH OF INTACT CORE PIECES} \geq 4 \text{ INCHES}}{\text{TOTAL LENGTH OF CORE RUN (INCHES)}} \times 100\%$$

RQD* INDICATES SOUNDNESS CRITERIA NOT MET.

BEDDING SPACING	
DESCRIPTION	THICKNESS / SPACING
MASSIVE	GREATER THAN 10'
VERY THICKLY BEDDED	3' – 10'
THICKLY BEDDED	1' – 3'
MODERATELY BEDDED	4" – 1'
THINLY BEDDED	1" – 4"
VERY THINLY BEDDED	?'' – 1''
LAMINATED	LESS THAN ?''

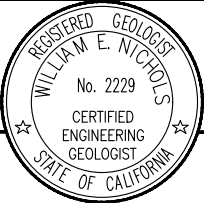
LEGEND OF ROCK MATERIALS	
	IGNEOUS ROCK
	SEDIMENTARY ROCK
	METAMORPHIC ROCK

LEGEND — ROCK
(SHEET 1 OF 1)

DISC.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	AMA	C.R.			

CERTIFIED ENGINEERING GEOLOGIST

PLANS APPROVAL DATE



TABER CONSULTANTS
 1100 Corporate Way, Suite 230
 Sacramento, CA 95832
 (916) 455-4225

JOB No. 2014-0081

LOCATION:

MARK THOMAS
 701 University Avenue, Suite 200
 Sacramento, CA 95825
 (916) 381-9100

ROCK HARDNESS	
DESCRIPTION	CRITERIA
EXTREMELY HARD	CANNOT BE SCRATCHED WITH A POCKETKNIFE OR SHARP PICK. CAN ONLY BE CHIPPED WITH REPEATED HEAVY HAMMER BLOWS.
VERY HARD	CANNOT BE SCRATCHED WITH A POCKETKNIFE OR SHARP PICK. BREAKS WITH REPEATED HEAVY HAMMER BLOWS.
HARD	CAN BE SCRATCHED WITH A POCKETKNIFE OR SHARP PICK WITH DIFFICULTY (HEAVY PRESSURE). BREAKS WITH HEAVY HAMMER BLOWS.
MODERATELY HARD	CAN BE SCRATCHED WITH POCKETKNIFE OR SHARP PICK WITH LIGHT OR MODERATE PRESSURE. BREAKS WITH MODERATE HAMMER BLOWS.
MODERATELY SOFT	CAN BE GROOVED ¹ / ₈ INCH DEEP WITH A POCKETKNIFE OR SHARP PICK WITH MODERATE OR HEAVY PRESSURE. BREAKS WITH LIGHT HAMMER BLOW OR HEAVY MANUAL PRESSURE.
SOFT	CAN BE GROOVED OR GOUGED EASILY BY A POCKETKNIFE OR SHARP PICK WITH LIGHT PRESSURE, CAN BE SCRATCHED WITH FINGERNAIL. BREAKS WITH LIGHT TO MODERATE MANUAL PRESSURE.
VERY SOFT	CAN BE READILY INDENTED, GROOVED OR GOUGED WITH FINGERNAIL, OR CARVED WITH A POCKETKNIFE. BREAKS WITH LIGHT MANUAL PRESSURE.

DESCRIPTION	DIAGNOSTIC FEATURES					GENERAL CHARACTERISTICS
	CHEMICAL WEATHERING—DISCOLORATION AND/OR OXIDATION		MECHANICAL WEATHERING—GRAIN BOUNDARY CONDITIONS (DISAGGREGATION) PRIMARILY FOR GRANITICS AND SOME COARSE-GRAINED SEDIMENTS	TEXTURE AND LEACHING		
	BODY OF ROCK	FRACTURE SURFACES		TEXTURE	LEACHING	
FRESH	NO DISCOLORATION, NOT OXIDIZED.	NO DISCOLORATION OR OXIDATION.	NO SEPARATION, INTACT (TIGHT).	NO CHANGE	NO LEACHING	HAMMER RINGS WHEN CRYSTALLINE ROCKS ARE STRUCK.
SLIGHTLY WEATHERED	DISCOLORATION OR OXIDATION IS LIMITED TO SURFACE OF, OR SHORT DISTANCE FROM, FRACTURES; SOME FELDSPAR CRYSTALS ARE DULL.	MINOR TO COMPLETE DISCOLORATION OR OXIDATION OF MOST SURFACES.	NO VISIBLE SEPARATION, INTACT (TIGHT).	PRESERVED	MINOR LEACHING OF SOME SOLUBLE MINERALS.	HAMMER RINGS WHEN CRYSTALLINE ROCKS ARE STRUCK. BODY OF ROCK NOT WEAKENED.
MODERATELY WEATHERED	DISCOLORATION OR OXIDATION EXTENDS FROM FRACTURES USUALLY THROUGHOUT; Fe—Mg MINERALS ARE "RUSTY," FELDSPAR CRYSTALS ARE "CLOUDY."	ALL FRACTURE SURFACES ARE DISCOLORED OR OXIDIZED.	PARTIAL SEPARATION OF BOUNDARIES VISIBLE.	GENERALLY PRESERVED	SOLUBLE MINERALS MAY BE MOSTLY LEACHED.	HAMMER DOES NOT RING WHEN ROCK IS STRUCK. BODY OF ROCK IS SLIGHTLY WEAKENED.
INTENSELY WEATHERED	DISCOLORATION OR OXIDATION THROUGHOUT; ALL FELDSPARS AND Fe—Mg MINERALS ARE ALTERED TO CLAY TO SOME EXTENT; OR CHEMICAL ALTERATION PRODUCES IN—SITU DISAGGREGATION, SEE GRAIN BOUNDARY CONDITIONS.	ALL FRACTURE SURFACES ARE DISCOLORED OR OXIDIZED, SURFACES FRIABLE.	PARTIAL SEPARATION, ROCK IS FRIABLE; IN SEMIARID CONDITIONS GRANITICS ARE DISAGGREGATED.	TEXTURE ALTERED BY CHEMICAL DISINTEGRATION (HYDRATION, ARGILLATION).	LEACHING OF SOLUBLE MINERALS MAY BE COMPLETE.	DULL SOUND WHEN STRUCK WITH HAMMER, USUALLY CAN BE BROKEN WITH MODERATE TO HEAVY MANUAL PRESSURE OR BY LIGHT HAMMER BLOW WITHOUT REFERENCE TO PLANES OF WEAKNESS SUCH AS INCIPIENT OR HAIRLINE FRACTURES, OR VEINLETS. ROCK IS SIGNIFICANTLY WEAKENED.
DECOMPOSED	DISCOLORED OR OXIDIZED THROUGHOUT, BUT RESISTANT MINERALS SUCH AS QUARTZ MAY BE UNALTERED; ALL FELDSPARS AND Fe—Mg MINERALS ARE COMPLETELY ALTERED TO CLAY.		COMPLETE SEPARATION OF GRAIN BOUNDARIES (DISAGGREGATED).	RESEMBLES A SOIL, PARTIAL OR COMPLETE REMNANT ROCK STRUCTURE MAY BE PRESERVED; LEACHING OF SOLUBLE MINERALS USUALLY COMPLETE.		CAN BE GRANULATED BY HAND. RESISTANT MINERALS SUCH AS QUARTZ MAY BE PRESENT AS "STRINGERS" OR "DIKES."

FRACTURE DENSITY	
DESCRIPTION	OBSERVED FRACTURE DENSITY
UNFRACTURED	NO FRACTURES.
VERY SLIGHTLY FRACTURED	CORE LENGTHS GREATER THAN 3 ft.
SLIGHTLY FRACTURED	CORE LENGTHS MOSTLY FROM 1 TO 3 ft.
MODERATELY FRACTURED	CORE LENGTHS MOSTLY FROM 4 INCHES TO 1 ft.
INTENSELY FRACTURED	CORE LENGTHS MOSTLY FROM 1 TO 4 INCHES.
VERY INTENSELY FRACTURED	MOSTLY CHIPS AND FRAGMENTS.

65% SUBMITTAL S-12

ENGINEERING SERVICES				GEOTECHNICAL SERVICES				PREPARED FOR THE				BRIDGE NO. 26C-0030	Carbondale Road over Willow Creek Bridge Replacement																								
FUNCTIONAL SUPERVISOR				DRAWN BY: X. Vang; D. Lukashov; S. Crawford				FIELD INVESTIGATION BY:		DATE:		AMADOR COUNTY											PROJECT ENGINEER		POST MILE												
W. Eric Nichols				CHECKED BY: D. Castro				A. Kahn		March 2018		DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS																									
OGS CIVIL LOG OF TEST BORINGS SHEET														ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3		CU EA		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES (PRELIMINARY STAGE ONLY)										SHEET 23		OF 23	

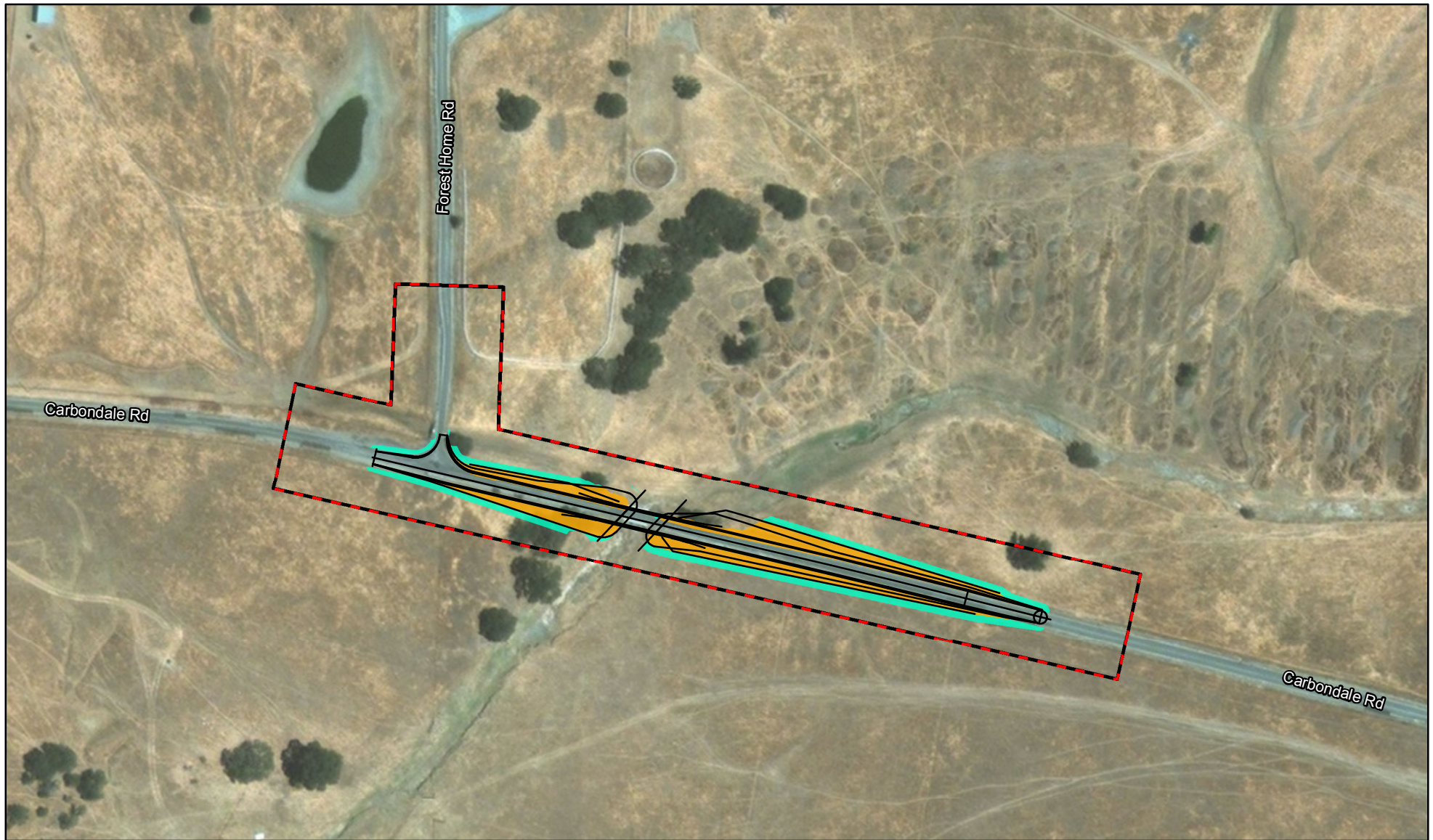


FIGURE 3

LSA



0 100 200
FEET

LEGEND

Project Site - (5.06 ac)

Project Design

Impacts to CTS Habitat

Permanent Impacts (0.57 ac)

Temporary Impacts (0.37 ac)

*Willow Creek Bridge on Carbondale
Road (26C0030) Replacement Project
Amador County, California; Caltrans District 10
Federal Project No. BRLO-5926(055)
Project Impacts to CTS Habitat*

SOURCE: DigitalGlobe (08/2016); Mapping - LSA (04/2018)

I:\MKT1406\GIS\Reports\2081\Fig6_Impacts to CTS Habitat.mxd (4/17/2018)

Attachment 5

Amended Incidental Take Permit No. 2081-2018-073-02

(Amendment No. 03)

1. The Amended ITP Background has been amended as follows:

* * *

On February 18, 2025, Amador County Department of Transportation and Works submitted a request for a “minor amendment” to CESA ITP No. 2081-2018-073-02 (See Cal. Code Regs., § 783.6(c)(4)). CDFW approved the minor amendment on February 18, 2025, which changed the expiration date from June 30, 2025 to June 30, 2030.

CDFW now reissues this ITP including the revised provisions in the first and second minor amendments (Collectively, the Amended ITP). The Amended ITP includes all of the operative provisions as of the effective date of this Amended ITP. Attachment 3 to this Amended ITP shows the specific red-line changes made to the original ITP as a result of the first minor amendment. Attachment 4 to this Amended ITP shows the specific red-line changes made to the original ITP as a result of the second minor amendment. **Attachment 5 to this Amended ITP shows the specific red-line changes made to the previously amended ITP as a result of the third minor amendment.**

2. The Effective Date and Expiration Date of this ITP section has been amended as follows:

This ITP amendment shall become effective as of the date signed by CDFW. Unless renewed by CDFW, this ITP’s authorization to take the Covered Species shall expire on ~~June 30, 2025~~ **June 30, 2030**.

* * *

3. The Attachments have been amended as follows:

FIGURE 1	Map of Project
FIGURE 2	Project Design
FIGURE 3	Project Impacts Map
ATTACHMENT 1	Amended Mitigation Monitoring and Reporting Program
ATTACHMENT 2	Finalized Credit Sale Agreement
ATTACHMENT 3	Minor Amendment No. 1 with Track Changes
ATTACHMENT 4	Minor Amendment No. 2 with Track Changes
ATTACHMENT 5	Minor Amendment No. 3 with Track Changes