Exhibit B

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From: Geramaldi, Geramaldi@DOT
To: Honorato, Hya
Cc: O"Connor, Jill@DOT
Subject: Geramaldi - Request CDP extension, Castro Canyon Bridge Rail, PLN210039
Date: Tuesday, February 18, 2025 7:05:07 AM
Attachments: image001.png
CDP Extension PLN210039 Caltrans EA 05-1H490 Castro Canyon 250217.pdf
05-1H490 CDP Mon Co PLN210039.pdf
Importance: High

[CAUTION: This email originated from outside of the County. Do not click links or open attachments unless you recognize the sender and know the content is safe.]

Morning Hya,

Attached is the Development Project Application for the CDP extension request for PLN210039, Castro Canyon Bridge Rail Upgrade (EA 05-1H490).
No changes in the project's description, impacts, or mitigation since the original CDP (attached) was issued back in 2022, so no updated documents have been prepared for the project.
If any additional information or materials are required to process the CDP extension, please let us know.
Also, is there a general time frame on how long it typically takes to process an extension?
Thank you very much.

Geramaldi (Aldi)
Environmental Scientist – Coastal Coordinator
Caltrans District 5 San Luis Obispo
geramaldi.geramaldi@dot.ca.gov
805-441-0561
Teleworking, 7 AM – 4 PM, Monday – Friday

From: Honorato, Hya <HonoratoH@countyofmonterey.gov>
Sent: Friday, February 14, 2025 1:28 PM
To: Geramaldi, Geramaldi@DOT <Geramaldi.Geramaldi@dot.ca.gov>
Subject: RE: Geramaldi - Inquiry, CDP extension, Castro Canyon Bridge Rail, PLN210039

EXTERNAL EMAIL. Links/attachments may not be safe.

Hi Aldi,

We can definitely process an extension for the project. It will not necessarily be handled by me, I am going to send it through our normal processing channels and the extension will be assigned to a planner. Send me the application and any updated documents and I will forward

to our staff to get the extension processed.

Thank you,

Hya Honorato *(She/Her)*
Assistant Planner
Housing and Community Development
1441 Schilling Place, 2nd Floor, Salinas CA 93901
Direct: (831)755-5173 | F: (831)757-9516
HonoratoH@countyofmonterey.gov
www.countyofmonterey.gov

Please note, I am currently available until 3 pm on Mondays, Wednesdays, and Fridays until further notice. Thank you.

From: Geramaldi, Geramaldi@DOT <Geramaldi.Geramaldi@dot.ca.gov>
Sent: Wednesday, February 12, 2025 10:04 AM
To: Honorato, Hya <HonoratoH@countyofmonterey.gov>
Subject: Geramaldi - Inquiry, CDP extension, Castro Canyon Bridge Rail, PLN210039

[CAUTION: This email originated from outside of the County. Do not click links or open attachments unless you recognize the sender and know the content is safe.]

Morning Hya,

It was brought to my attention that PLN210039 (attached) will expire on March 18, 2025 (end of three years).
I wanted to ask about the feasibility of an extensions for the permit given there is only 4 weeks left.

The project has been on hold due to legal issues; hence it has been inactive for the last three years.
This is the Castro Canyon Bridge Rail Replacement project (05-1H490), located on SR-1 in Big Sur.

I presume if an extension is still feasible, I would need to submit the attached extension form?

Let me know if a phone all would be beneficial for this discussion.
Thank you.

Geramaldi (Aldi)
Environmental Scientist – Coastal Coordinator
Caltrans District 5 San Luis Obispo
geramaldi.geramaldi@dot.ca.gov
805-441-0561
Teleworking, 7 AM – 4 PM, Monday – Friday

COUNTY OF MONTEREY
HOUSING AND COMMUNITY DEVELOPMENT

Planning – Building - Housing
1441 Schilling Place, South 2nd Floor
Salinas, California 93901-4527
(831) 755-5025

Development Project Application

This application is for:

- ☐ **Combined Development Permit**
- ☐ **Rezoning**
- ☐ **Administrative Permit [Coastal/Non-Coastal]**
- ☐ **Use Permit**
- ☐ **Variance**
- ☐ **Design Approval**
- ☐ **General Development Plan**
- ☑ **Coastal Development Permit**
- ☐ **Modification of Conditions**
- ☐ **Local Coastal Plan Amendment [L.U.P. or C.I.P.]**
- ☐ **General Plan Amendment**
- ☐ **Minor Amendment [Coastal/Non-Coastal]**
- ☐ **Tentative Parcel Map [Minor Subdivision]**
- ☐ **Tentative Map [Standard Subdivision]**
- ☐ **Vesting Tentative Map**
- ☐ **Preliminary Map**
- ☐ **Preliminary Project Review Map**
- ☐ **Lot Line Adjustment**
- ☐ **Revised Final Map**
- ☐ **Revised Parcel Map**
- ☐ **Amended Final Map**
- ☐ **Amended Parcel Map**
- ☐ **Subdivision Extension Request**
- ☐ **Other** _____

1. **Owner[s] Name:** California Department of Transportation (Caltrans) - District 5, San Luis Obispo c/o Geramaldi
   Address: 50 Higuera Street **City:** San Luis Obispo **State:** CA
   Telephone: 805-441-0561 **Zip Code:** 93401
2. **Applicant's Name:** California Department of Transportation (Caltrans) - District 5, San Luis Obispo c/o Geramaldi
   Address: 50 Higuera Street **City:** San Luis Obispo **State:** CA
   Telephone: 805-441-0561 **Zip Code:** 93401
3. **Applicant's interest in property [Owner, Buyer, Representative, etc.]** Owner and Operator
4. **Property address and nearest cross street:** Highway 1 postmile 43.12 and Rancho Grande Road in Big Sur
5. **Assessor's Parcel Number[s]:** 000-000-000 (State Right-of-Way)
6. **Current Zoning:** WSC/40-D(CZ)
7. **Property area [acres or square feet]:** 0.1 acre
8. **Describe the proposed project:** To upgrade existing bridge existing bridge rail on SR-1 at Castro Canyon Bridge in Big Sur to meet current design and safety standards with concrete and metal "see through" bridge rail design with bicycle railing. The project includes re-striping, upgrading two down drains, and retaining wall construction. The project will require temporary and permanent utility relocations.

9. **Rezoning Or Amendment Only** The applicant wishes to amend Section N/A of the Monterey County Code, from a N/A Zoning District to a N/A Zoning District or some other classification.

10. **General Plan Amendment Or Coastal Plan Amendment Only:** Describe the proposed amendment: N/A

11. **Subdivision Information Only** Number of Lots: N/A
    Purpose of Subdivision: Sale: ☐ Lease: ☐ Financing: ☐ ☐ Other: _____

12. **Lot Line Adjustment Information Only** What is the purpose f the adjustment: : N/A

    Will The Adjustment Relocate The Building Area? **Yes** ☐ **No** ■

    Adjusted Parcel Size[s]: N/A

Owner's Signature	**Owner's Signature**
N/A	N/A
Owner's Name [Please Print]	**Owner's Name [Please Print]**
N/A	N/A
Assessor's Parcel Number	**Assessor's Parcel Number**

13. **Variances Only:** **Describe the proposed variance:** N/A

14. If new or additional construction is proposed, complete the following information:

A. Residential Development: Single Family Residence ☐ Other [how many total units] N/A

No. of covered parking spaces N/A No. of uncovered parking spaces N/A Lot Coverage N/A %

B. Commercial or Industrial Development: No. of employees [include all shifts] N/A

No. of covered parking spaces N/A No. of uncovered parking spaces N/A

No. of Loading Spaces N/A Lot Coverage N/A %

15. Will grading or filling be required: Yes ☐ No ■ Cubic Yards 92.6

16. Will the project require placement of structures, roads, grading cuts or fills on slopes of 30% or greater: Yes ■ No ☐

17. Will any trees be removed: Yes ☐ No ■ If yes, indicate the number, specie[s] and diameter:

No trees will be removed.

Other vegetation to be removed: No vegetation will be removed, but vegetation trimming is anticipated.

18. How will water be supplied: Individual Wells N/A Mutual System N/A

Name of Public or Private Water System:

19. How will sewage or other waste be disposed: N/A

Name of Public or Private Sewer System: N/A

20. Is this land currently in row crop production: Yes ☐ No ■

21. Is this land used for grazing: Yes ☐ No ■

22. Is this land under an Agricultural Preservation Contract: Yes ☐ No ☐ If yes, indicate the Contract No.

23. Is this proposed project located on a hazardous waste facility: Yes ☐ No ■ [Government Code 65962.5]. [A list of hazardous waste sites is maintained by the Environmental Health Dept., Phone 831-755-4500.]

I/We state that as the owner[s] or agent for owner[s] for the development permit application. I/We have read the complete application and know the contents herein. I/We declare under penalty of perjury that the information contained in this application including the plans and documents submitted herewith are true and correct to the best of my/our knowledge. If the project is approved, I/We understand that we may be charged an additional fee for staff time required to satisfy conditions of approval.

Dated: 02/17/25 ***at*** San Luis Obispo ***, California***

I declare under penalty that I am authorized by the owner[s] of the described property to make this application.

Caltrans - District 5, San Luis Obispo c/o Geramaldi
Owner's Name [Please Print or Type]

Owner's Signature

Geramaldi
Agent's Name [Please Print or Type]

Agent's Signature

Some application fees are charged on a deposit basis. Processing hours in excess of the deposit will be billed to the applicant at an hourly rate, prior to issuance of entitlements or permits. Processing hours less than the original fee will be refunded at the same rate after issuance of the entitlements or permits.

For Department Use Only

Plan Designation: Area Plan:
Legal Lot: Zoning Violation Case No.:
Property Owner Verified: Yes ☐ No ☐ Height: Lot Coverage
Setbacks: F R S Special OPL
FAR Fire Haz. SRA Flood
Advisory Committee:
Geo. Hazard Zones: Arch. Sensitivity Zone: ESH:
Misc.:
Application Given Out By: Date:
Application Received By: Date:

Before the Planning Commission
in and for the County of Monterey, State of California

In the matter of the application of:
(PLN210039) CALIFORNIA DEPARTMENT OF TRANSPORTATION
RESOLUTION NO. 22 - 004

Resolution by the Planning Commission:

1. Finding that the project, which involves utility extension and street improvements for bridge safety improvements, qualifies as a Class 3 categorical exemption pursuant to Section 15303 of the CEQA Guidelines, and there are no exceptions pursuant to Section 15300.2; and
2. Approving a Combined Development Permit consisting of:
   a. Coastal Development Permit and Design Approval to allow safety improvements to the Castro Canyon Bridge, inclusive of restriping of lanes, bridge rail and crash cushion upgrades, placement of a new retaining wall, and drainage upgrades;
   b. Coastal Development Permit to allow development within the Big Sur Critical Viewshed;
   c. Coastal Development Permit to allow development on slopes exceeding 30 percent; and
   d. Coastal Development Permit to allow development within 100 feet of environmentally sensitive habitat.

State Route 1 (Highway 1) Castro Canyon Bridge (Br. No. 44-0035, Post Mile 43.12, located between Post-Mile Markers 43.05 – 43.25), Big Sur (No Assessor's Parcel Number), Big Sur Coast Land Use Plan, Coastal Zone (APN: 000-000-000-000)

The CALIFORNIA DEPARTMENT OF TRANSPORTATION (CASTRO CANYON BRIDGE) application (PLN210039) came on for a public hearing before the Monterey County Planning Commission on March 9, 2022. Having considered all the written and documentary evidence, the administrative record, the staff report, oral testimony, and other evidence presented, the Planning Commission finds and decides as follows:

FINDINGS

1. **FINDING:** **CONSISTENCY** – The proposed project and/or use, as conditioned, is consistent with the policies of the Monterey County 1982 General Plan, Big Sur Land Use Plan, Monterey County Coastal Implementation Plan – Part 3, Monterey County Zoning Ordinance -

Coastal (Title 20), and other County health, safety, and welfare ordinances related to land use development.

EVIDENCE: a) The project involves upgrades to the Castro Canyon Bridge consisting of replacement and installation of new bridge and approach rails, upgrade of guardrails on the north and south of the bridge, and upgrades to the crash cushions. The project also proposes the restriping of lanes and shoulders, a new retaining wall (Appox. 20 feet long), upgrades to the culvert and pipes for improved drainage, and the relocation of existing above-ground utilities underground. The existing Castro Canyon Bridge is a 239-foot, five-span steel girder bridge that has timber rails and wooden beam approach rails. The existing bridge rails, approach rails, guardrails, and crash cushions do not meet Caltrans safety standards. This proposed guardrail replacement is compliant with current design and safety standards per American Association of State Highway and Transportation Officials (AASHTO) requirements. The bridge's length will remain the same. The total project area includes approximately 25,000 square feet of paved area which will be restriped but remain located in the same area and not be extended. The project also involves development within the Big Sur critical viewshed, development on slopes exceeding 30 percent, and development within 100 feet of environmentally sensitive habitat.

b) The project has been reviewed for consistency with the text, policies, and regulations in the:

- 1982 Monterey County General Plan;
- Big Sur Coast Land Use Plan (LUP);
- Monterey County Coastal Implementation Plan, Part 3 (CIP); and
- Monterey County Zoning Ordinance - Coastal (Title 20).

No conflicts were found to exist. No communications were received during the course of review of the project indicating any inconsistencies with the text, policies, and/or regulations of the applicable Monterey County Code (MCC). The subject property is located within the Coastal Zone; therefore, the 2010 Monterey County General Plan does not apply.

c) Staff reviewed the application materials, County GIS information, and aerial imagery, to verify consistency of the proposed development with applicable policies and regulations.

d) Allowed Use. The project site is located along State Route 1 (Highway 1), Castro Canyon Bridge (Br. No. 44-0035, located between Post-Mile Markers 43.05 – 43.25, Big Sur (No Assessor's Parcel Number), approximately 5 miles south of the Big Sur Community, Big Sur, Big Sur Coast Land Use Plan, Coastal Zone. The proposed construction is located entirely within the Caltrans right-of-way, and the zoning is unclassified. The project area is located adjacent to Assessor's Parcel Number 420-181-015-000, and the surrounding property is zoned Rural Density Residential, 40 acres per unit, with a Design Control Overly (Coastal Zone) [RDR/40-D (CZ)]. The proposed project will include upgrades which include the replacement of the bridge guardrail, bridge rail, and crash cushions, to bring this section of highway up to current design and safety

standards needed for compliance with standards set forth by the American Association of State Highway and Transportation Officials (AASTHO. The project includes improvements of an existing highway facility and would preserve utility and public access to the Big Sur area. The General Plan and Big Sur Land Use Policy (LUP) promote improvements for public safety and traffic capacity. The LUP promotes improvements for safety and traffic capacity (Policy 4.1.2.1). LUP Policy 4.1.2.1 states that *"[I]mprovements to Highway 1 shall be undertaken in order to increase its service capacity and safety, consistent with its retention as a scenic two-lane road."* Consistent with this policy, the purpose of project improves the safety and maintains the roadway to provide continued use of the highway for access to the Big Sur community as an improvement for safety, recreational, and emergency access. See also subsequent Evidence "e". Therefore, the project is an allowed land use for this site.

e) Highway 1. LUP Policies in Chapter 4 are directed at maintaining and enhancing the aesthetic beauty of Highway 1, and to protect its primary function as a recreational route. The LUP also promotes improvements for safety and service capacity (Policies 4.1.2.1). The project, as proposed, is an improvement required to assure the continued use of the highway for recreational and emergency access; therefore, it is consistent with applicable policies.

f) Design. Pursuant to MCC Chapter 20.44, the surrounding area is designated as a Design Control Zoning District ("D" zoning overlay), which regulates the location, size, configuration, materials, and colors of structures and fences to assure the protection of the public viewshed and neighborhood character. The proposed upgrades to the bridge rails and beams include a simple design that is intended to complement the rustic and rural environment. The proposed colors and materials design consists of a light beige concrete base and dark brown metal rails (approach rail, guardrails, bridge rail), end treatments, and crash cushions as show in the *Visual Simulations* "Exhibit B, Attachment 3." As proposed, the project assures protection of the public viewshed and visual integrity. See also subsequent Evidence "g" and "h".

g) Big Sur Critical Viewshed. The project includes a Coastal Development Permit to allow development within the Big Sur critical viewshed. As demonstrated in Finding 6 and supporting evidence, the project minimizes development within the Critical Viewshed and is consistent with applicable LUP policies and regulations.

h) Land Use Advisory Committee. The project was referred to the Big Sur Land Use Advisory Committee (LUAC) for review based on the LUAC Procedure guidelines adopted by the Monterey County Board of Supervisors. The proposed project was brought before the LUAC on September 28, 2021 and October 26, 2021. The LUAC had concerns with design, specifically that the railing and concrete post would potentially stand out and detract from the natural setting, and the potential for cushion placement to impact ingress and egress to Deetjen's Inn parking area. On October 26, 2021 the LUAC voted, 5-0, to support the project with the following recommendations: 1) reduce the speed limit at the bridge and project site area to match the

"commercial corridor"; 2) decrease the length of crash cushions at the end of the bridge to allow vehicles that enter and leave Deetjen's Inn more room to maneuver and access the bridge, therefore making it more safe; and 3) use of a natural concrete design that blends in the surroundings instead of the faux multi-color stone as initially proposed by applicant. The plans were revised to accommodate the LUAC's recommendation for a redesigned crash cushion which would be the minimum size allowable to fulfill size allowable for the intended safety function. Prior to the LUAC's request, Caltrans conducted studies into speed zones in the area and found that a reduction in the speed limit was not warranted. The color scheme of the rails and beams were updated to a design incorporating a light beige concrete base and dark brown rails that better blends in with the rustic and rural environment when compared to the originally proposed multi-tonal rock design scheme (*Exhibit B, Attachment 3* shows the proposed design).

i) Development on slope exceeding 30%. The project includes a Coastal Development Permit to allow development on slopes that exceed 30%. As demonstrated in Finding 7 and supporting evidence, there is no feasible alternative that would allow development to occur on slopes of less than 30% in this case.

j) Environmentally Sensitive Habit. The project site is in an area identified as being within 100 feet of an environmentally sensitive habitat. A biological report- *Natural Environmental Study (NESMI biological report)*, was prepared for the site and submitted to the County for review (see Finding 2, Evidence "c"). The NESMI biological report identified the potential for several environmentally sensitive habitats to occur near the project area and that suitable conditions for California red-legged frog and the Western pond turtle are present. The report found that it is unlikely that any frogs would be found in the actual project footprint; however, there may be the potential for minor direct and indirect impacts to the California red-legged frog and the Western pond turtle because of the existence of suitable habitat nearby. However, the project as proposes includes measures to avoid indirect impacts on nearby habitat. For example, grading, staging areas, and other improvements would be confined within the right-of-way. Additionally, measures contained in the Programmatic Biological Opinion outlined within the NESMI report would apply to the project. Therefore, although environmentally sensitive habitat may occur within close proximity to this project the potential for inadvertent impacts is limited, as further identified in Finding 8.

i) Public Access. As demonstrated in Finding No. 5 and supporting evidence, the project is consistent with applicable public access policies.

j) Historical Resources. The project includes changes to the Castro Canyon bridge, which was constructed in 1937. As such, staff required a historical assessment report for the proposed development. *The Historical Resources Evaluation Report*, Prepared by Lindsay Kozub, Principal Architectural Historian (LIB210164)(see Finding 2, Evidence "c") concluded that the Castro Canyon bridge is not eligible

for listing in the National Register of Historic Places or California Register of Historical Resources as an individual resource, or as a contributor to the Carmel – San Simeon Highway District.

k) Archeological and Cultural Resources. The project site is in an area identified in County records as having a high archaeological sensitivity. In addition to the *Historic Resources Evaluation Report*, the *Historical Property Survey*, dated September 2019 was conducted by Lindsay Kozub, Principal Architectural Resources Historian, and Alvin Rosa- Figueroa, PQS Co-Principal Investigator for Prehistoric Archaeology (LIB210164). The report included an Archaeological Survey Report and concluded that potential impacts to archaeological resources are not anticipated from the proposed project. There is no evidence that any cultural resources would be disturbed as part of this project, and the potential for inadvertent impacts to cultural resources is limited and will be controlled by application of the County's standard project condition (Condition No. 3) which requires the contractor to stop work if previously unidentified resources are discovered during construction.

l) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN210039.

2. **FINDING:** **SITE SUITABILITY –** The site is physically suitable for the proposed development and/or use.

EVIDENCE:

a) The project involves rail safety improvements and upgrades to the Castro Canyon bridge, improvements to crash cushions, and a new retaining wall to improve and protect the highway facility at this location.

b) The project was reviewed for site suitability by the following departments and agencies: HCD-Planning, CalFire Coastal (Fire Protection District), HCD-Engineering Services, and HCD-Environmental Services. County staff reviewed the application materials and plans, as well as the County's GIS database, to verify that the proposed project on the subject site conforms to the applicable plans and regulations, and that the site is suitable for the proposed development. There has been no indication from these departments/agencies that the site is not suitable for the proposed development. Conditions recommended have been incorporated.

c) Several technical reports have been prepared for the proposed project and include the following:

- Geotechnical Report (LIB210163), Prepared by Caroline Chen, West Geotechnical Services, March 21, 2021.
- Cultural Resources Reports*: Historical Property Survey and Historic Resources Evaluation Report* (LIB210164), prepared by Lindsay Kozub, Principal Architectural Resources Historian, Caltrans Central Coast Cultural Resources Branch, San Luis Obispo, California and also Alvin Rosa- Figueroa, PQS Co-Principal Investigator for Prehistoric Archaeology, dated September 2019;
- Biology Report*: Natural Environment Study*, (LIB210162) prepared by Stephanie Herbert, Associate Environmental Planner,

Caltrans District 5, San Luis Obispo, California, December 12, 2019 and;

- Visual Impact Assessment (LIB210200) prepared by Robert Carr, Caltrans District 5 Landscape Architecture Branch, San Luis Obispo, California, January 2020.

d) County staff independently reviewed these reports and concurs with their conclusions. There are no physical or environmental constraints that would indicate that the site is not suitable for the use proposed, and all development shall be in accordance with these reports.

e) Staff reviewed application materials, County GIS information, and aerial imagery, to verify site suitability for the proposed development.

f) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN210039.

3. **FINDING:** **HEALTH AND SAFETY –** The establishment, maintenance, or operation of the project applied for will not under the circumstances of this particular case be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood of such proposed use, or be detrimental or injurious to property and improvements in the neighborhood or to the general welfare of the County.

EVIDENCE: a) The project was reviewed by HCD-Planning, CalFire Coastal (Fire Protection District), HCD-Engineering Services, and HCD-Environmental Services. Conditions have been recommended, where appropriate, to ensure that the project will not have an adverse effect on the health, safety, and welfare of persons either residing or working in the neighborhood.

b) The project will bring bridge rail design standards up to current safety guidelines to reduce vehicle crash impacts. The project is necessary to maintain service essential to the public health, safety, and welfare of persons either residing or working in the Big Sur community.

c) As proposed, the project is a safety improvement that would stabilize the highway facility at this location. Therefore, it is consistent with LUP Policy 4.1.2.1, which states "Improvements to Highway 1 shall be undertaken in order to increase its service capacity and safety, consistent with its retention as a scenic two-lane road."

d) See also Finding Nos. 1, 2, 3, 6 and 7, and supporting evidence.

e) The application, plans, and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN210039.

4. **FINDING:** **NO VIOLATIONS –** The subject property is in compliance with all rules and regulations pertaining to zoning uses, subdivision, and any other applicable provisions of the County's zoning ordinance. No violations exist on the property.

EVIDENCE: a) Staff reviewed Monterey County HCD-Planning and HCD-Building Services records and is not aware of any violations existing on the subject property.

b) There are no violations on the subject parcel or project site.

c) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN210039.

5. **FINDING:** **PUBLIC ACCESS** – The project is in conformance with the public access and recreation policies of the Coastal Act (specifically Chapter 3 of the Coastal Act of 1976, commencing with Section 30200 of the Public Resources Code) and applicable Local Coastal Program, and does not interfere with any form of historic public use or trust rights.

EVIDENCE:

a) No substantial adverse impact on access, either individually or cumulatively, as described in Section 20.145.150 of the Monterey County Coastal Implementation Plan (Part 3) can be demonstrated.

b) No evidence or documentation has been submitted or found showing the existence of historic public use or trust rights over this property.

c) The subject property is described as an area where the Local Coastal Program requires public access (LUP Figure 3; Trails Plan – North Section). Public access presently exists along the State Route 1 right-of-way (a public highway), and the proposed development would not obstruct this lateral access along the highway facility. Additionally, as proposed, the project would not obstruct public views of the shoreline from the highway nor obstruct public visual access.

d) The project planner reviewed plans of the proposed development, as well as aerial imagery of the site and surrounding area, to verify that the proposed structures will not impact visual resources/access.

e) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN210039.

6. **FINDING:** **DEVELOPMENT WITHIN THE BIG SUR CRITICAL VIEWSHED –** The subject project minimizes development within the Big Sur Critical Viewshed in accordance with the applicable goals and policies of the Big Sur Coast Land Use Plan and applicable zoning codes.

EVIDENCE:

a) The project includes application for development within the Big Sur Critical Viewshed. In accordance with the applicable policies of the Big Sur Coast Land Use Plan (LUP) and the Monterey County Zoning Ordinance (Title 20), a Coastal Development Permit is required and the authority to grant said permit has been met.

b) The proposed project involves restriping, replacement and installation of new bridge and approach rails, upgrading guardrails on the north and south of the bridge, and installation of crash cushions. The proposed guardrail replacement is compliant with current design and safety standards per American Association of State Highway and Transportation Officials (AASHTO) requirements. The proposed replacement bridge rail will be concrete post and beam rail (Type 85 bridge rail) and "see through" metal that is taller and wider than the existing rail.

c) County staff reviewed plans of the proposed development, as well as aerial imagery of the site and the surrounding area, to assess the potential viewshed impacts of the project and ensure consistency with applicable LUP policies. LUP Policy 3.2.5.C.1 allows exceptions to

the Scenic Resources Key Policy involving safety improvements to Highway 1 facilities, provided they are consistent with LUP Sections 4.1.1, 4.1.2., and 4.1.3. Key Policy 4.1.1 states that the County's objective is to maintain and enhance the highway's aesthetic beauty and to protect its primary function as a recreational route. General Policy 4.1.2.1 directs that improvements to Highway 1 shall be undertaken in order to increase its service capacity and safety, consistent with its retention as a scenic two-lane road. County staff has reviewed the required sections, and the project is consistent with the subject policies. The project is an improvement that is needed to comply with current bridge rail safety standards that, as proposed, will maintain the roadway and its continued use as a two-lane highway for access to the Big Sur community.

d) County staff reviewed and analyzed using independent judgement the *Visual Impact Assessment (*LIB210200), and the project visual simulations and found that the project will not have a significant effect on the views of the surround on the views of the surround scenic vista and landscape. Castro Canyon bridge is located in an area with dense vegetation and much of the visual context includes the redwood trees surrounding the bridge and highway. Also, the historic Deetjens's Inn is located adjacent to the bridge and includes rustic wood cabin style architecture. The bridge upgrade project would replace the existing white wooden post bridge rail with an aesthetically treated, open-style rails. The improvements include light tan concrete rail with dark brown metal approach rails, guardrails, end treatments, and crash cushions (refer to Attachment 3). The purpose of the design is to be simple with the intention of blending in with the rural background including the natural settings and rustic settings.

e) The project, as proposed and conditioned, is consistent with policies of the Big Sur Coast Land Use Plan dealing with visual resources and will have no significant impact on the critical viewshed.

f) The application, plans and supporting materials submitted by the project applicant to the Monterey County Planning Department for the proposed development are found in Project File PLN210039.

7. **FINDING:** **DEVELOPMENT ON SLOPES EXCEEDING 30 PERCENT –** There is no feasible alternative which would allow development to occur on slopes of less than 30 percent.

EVIDENCE: a) Pursuant to the policies of the 1982 General Plan, Big Sur Coast Land Use Plan (LUP) and applicable Monterey County Code (MCC), a Coastal Development Permit is required for development on slopes in excess of 30% and the criteria to grant said permit has been met in this case.

b) The project site is located over the Castro Canyon Bridge on State Route 1. Based on site topography, improvements to the bridge, and drainage inlet areas, and the construction of an additional retaining wall is not feasible without encroaching into slopes exceeding 30 percent. The proposed development is necessary to improve traffic safety at the highway facility by improving crash cushions and installing bridge rails that will be higher and able to withstand more impact upon collision.

c) As proposed, the subject project minimizes development on slopes exceeding 30 percent in accordance with the applicable goals and policies of the LUP. The project planner reviewed the plans and application materials to analyze possible development alternatives and to verify the subject project minimizes development on slopes exceeding 30 percent. Also, the project proposes to further stabilize the bridge and immediate area as the purpose of the retaining wall proposed to be constructed east of the southern bridge abutment will prevent upslope debris from entering and resting on the bridge structure. Rockslope protection will be added to the existing outlet of the southwest drain which will also improve drainage. This is the minimum necessary to provide adequate and safe site when traveling this section of road.

d) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN210039.

8. **FINDING:** **DEVELOPMENT WITHIN 100 FEET OF ENVIRONMENTALLY SENSITIVE HABITAT-**

EVIDENCE: a) The project site is in an area identified as being within 100 feet of an environmentally sensitive habitat. MCC Section 20.145.040 requires a biological survey for development in areas within Big Sur that are within 100 feet of environmentally sensitive habitat.

b) The following biological report was prepared for the proposed project and was submitted to the County for review:

- Biology Report: Natural Environment Study, (LIB210162) prepared by Stephanie Herbert, Associate Environmental Planner, Caltrans District 5, San Luis Obispo, California, December 12, 2019.

c) The NESMI biological report identified the potential for several environmentally sensitive habitats to occur near the project area and that suitable conditions for California red-legged frog and the Western pond turtle are present. The report found that it is unlikely that any frogs would be found in the actual project footprint; however, there may be the potential for minor direct and indirect impacts to the California red-legged frog and the Western pond turtle because of the existence of suitable habitat nearby.

d) Monterey County Code (MCC) Section 20.145.040, which includes the Environmentally Sensitive Habitat Development Standards in the Big Sur, requires that all practical efforts shall be made to maintain, restore, and if possible, enhance Big Sur's environmentally sensitive habitats.

The project as proposes measures to avoid indirect impacts on nearby habitat. As proposed, grading, staging areas, and other improvements would be confined within the right-of-way. Also, in order to ensure the area of disturbance is confined, the biological report recommends installation of protective fencing, re-seeding disturbed ground with native seed mix, and stockpiling and replacement of any woody debris found onsite. Erosion control measures and other best management practices would be in place during construction to avoid

indirect impacts on nearby habitat. Caltrans also anticipates that the proposed project would be covered under the Programmatic Biological Opinion for Projects Funded or Approved under the FHWA's Federal Aid Program for incidental take. As such, measures contained in the Programmatic Biological Opinion would apply to the project. A condition of approval has been incorporated which requires the applicant to file a Notice of Report stating that all development shall be done in accordance with the NESMI biological report. Therefore, although a environmentally sensitive habitat may occur within close proximity to this project the potential for inadvertent impacts is limited.

e) County staff independently reviewed these reports and concurs with their conclusions.

f) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN210039.

9. **FINDING:** **CEQA (Exempt) –** The project is categorically exempt from environmental review and no unusual circumstances were identified to exist for the proposed project.

EVIDENCE: a) California Environmental Quality Act (CEQA) Guidelines Section 15303 categorically utility and street improvements. The exemption applies to water main, sewage, electrical, gas, and other utility extensions including street improvements, or reasonable length to serve such construction.

b) The proposed project involves the utility and street improvements for bridge safety improvements, which qualifies as a Class 3 categorical exemption pursuant to Section 15303 of the CEQA Guidelines. This project includes the underground placement of utilities, the construction of retaining wall to protect from slope movement, and street improvements consisting of the bridge safety. The proposed project involves safety improvements that would upgrade and protect the users of this highway facility and help prevent future car collisions at this location. Therefore, the proposed development qualifies as a Class 3 categorical exemption pursuant to Section 15303(d) of the CEQA Guidelines.

c) Caltrans, as Lead Agency, applied the Class 3 categorical exemption to the project. The County, serving as a responsible agency for this project, in its independent judgment has also determined that the project is categorically exempt. The Caltrans CEQA Determination is attached as Exhibit C to the staff report.

d) None of the exceptions under CEQA Guidelines Section 15300.2 apply to this project. Also, there is no substantial evidence of an unusual circumstance because there is no feature or condition of the project that distinguishes the project from the exempt class. The project does not involve a hazardous waste site, unusual circumstances that would result in a significant effect or development that would result in a cumulative significant impact. The project site is located within view of a scenic highway (State Route 1); however, the development proposed is consistent with the existing development on the site and in the area, and will not result in an adverse impact to

visual resources (see also Finding No. 6 and supporting evidence). Additionally, as proposed, the development would not result in damage to scenic resources such as trees, historic buildings, rock outcroppings, or similar resources as described in CEQA Guidelines Section 15300.2.

e) Based on the record as a whole, there is no substantial evidence that would support a fair argument that the project has a reasonable possibility of having a significant effect on the environment or that it would result in a cumulative significant impact. The evidence in the record includes data and analysis supporting the Class 1 categorical exemption; information presented or discussed during public meetings and/or hearings; staff reports that reflect the County's independent judgment and analysis regarding the above referenced data and analysis, and project application materials.

f) No adverse environmental effects were identified during staff review of the development application.

g) The Planning Commission considered the Class 3 categorical exemption at a duly noticed public hearing. The materials upon which the County's decision is based are located in HCD-Planning, 1441 Schilling Place, 2nd Floor, Salinas, California.

h) The application, project plans, and related support materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN210039.

10. **FINDING:** **APPEALABILITY –** The decision on this project may be appealed to the Board of Supervisors and the California Coastal Commission.

EVIDENCE: a) Board of Supervisors. Pursuant to Section 20.86.030 of the Monterey County Zoning Ordinance (Title 20), an appeal may be made to the Board of Supervisors by any public agency or person aggrieved by a decision of an Appropriate Authority other than the Board of Supervisors.

b) Coastal Commission. Pursuant to Section 20.86.080.A of the Monterey County Zoning Ordinance (Title 20), the project is subject to appeal by/to the California Coastal Commission because it involves development between the sea and the first through public road paralleling the sea (State Route 1), and development that is permitted in the underlying zone as a conditional use (i.e., development within the Big Sur critical viewshed).

DECISION

NOW, THEREFORE, based on the above findings and evidence, the Planning Commission does hereby:

1. Find that the project qualifies as a Class 3 Categorical Exemption pursuant to Section 15303 of the CEQA Guidelines, and there are no exceptions pursuant to Section 15300.2; and
2. Approve a Combined Development Permit consisting of a:
   a. Coastal Development Permit and Design Approval to allow safety improvements to the Castro Canyon Bridge, inclusive of restriping of lanes, bridge rail and crash cushion upgrades, placement of a new retaining wall, and drainage upgrades;
   b. Coastal Development Permit to allow development within the Big Sur Critical Viewshed;

c. Coastal Development Permit to allow development on slopes exceeding 30 percent; and
d. Coastal Development Permit to allow development within 100 feet of environmentally sensitive habitat.

All development shall be in general conformance with the attached plans and subject to the attached conditions, all being attached hereto and incorporated herein by reference.

PASSED AND ADOPTED this 9th day of March 2022.

AYES: Getzelman, Diehl, Roberts, Gonzalez, Ambriz, Monsalve, Coffelt, Daniels, Mendoza
NOES: None
ABSENT: None
ABSTAIN: None

Craig Spencer

Craig Spencer, Planning Commission Secretary

COPY OF THIS DECISION MAILED TO APPLICANT ON **MAR 18 2022.**

THIS APPLICATION IS APPEALABLE TO THE BOARD OF SUPERVISORS. IF ANYONE WISHES TO APPEAL THIS DECISION, AN APPEAL FORM MUST BE COMPLETED AND SUBMITTED TO THE CLERK TO THE BOARD ALONG WITH THE APPROPRIATE FILING FEE ON OR BEFORE **MAR 28 2022.**

THIS PROJECT IS LOCATED IN THE COASTAL ZONE AND IS APPEALABLE TO THE COASTAL COMMISSION. UPON RECEIPT OF NOTIFICATION OF THE FINAL LOCAL ACTION NOTICE (FLAN) STATING THE DECISION BY THE FINAL DECISION MAKING BODY, THE COMMISSION ESTABLISHES A 10 WORKING DAY APPEAL PERIOD. AN APPEAL FORM MUST BE FILED WITH THE COASTAL COMMISSION. FOR FURTHER INFORMATION, CONTACT THE COASTAL COMMISSION AT (831) 427-4863 OR AT 725 FRONT STREET, SUITE 300, SANTA CRUZ, CA.

This decision, if this is the final administrative decision, is subject to judicial review pursuant to California Code of Civil Procedure Sections 1094.5 and 1094.6. Any Petition for Writ of Mandate must be filed with the Court no later than the 90th day following the date on which this decision becomes final.

NOTES

1. This permit expires 3 years after the above date of granting thereof unless construction or use is started within this period.

Monterey County RMA Planning

Conditions of Approval/Implementation Plan/Mitigation Monitoring and Reporting Plan

PLN210039

1. PD001 - SPECIFIC USES ONLY

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: This Combined Development Permit (PLN210039) allows for: 1) a Coastal Development Permit and Design Approval to allow safety improvements to the Castro Canyon Bridge, inclusive of restriping of lanes, bridge rail and crash cushion upgrades, placement of a new retaining wall, and drainage upgrades; 2) a Coastal Development Permit to allow development within the Big Sur Critical Viewshed; 3)Coastal Development Permit to allow development on slopes exceeding 30 percent; and 4) Coastal Development Permit to allow development within 100 feet of environmentally sensitive habitat.

The property is located at State Route 1 (Highway 1), Post Mile 43.12, Castro Canyon Bridge (Br. No. 44-0035, between Post-Mile Markers 43.05 – 43.25), Big Sur, (Assessor's Parcel Number 000-000-000-000), Big Sur Coast Land Use Plan. This permit was approved in accordance with County ordinances and land use regulations subject to the terms and conditions described in the project file. Neither the uses nor the construction allowed by this permit shall commence unless and until all of the conditions of this permit are met to the satisfaction of the Director of HCD - Planning. Any use or construction not in substantial conformance with the terms and conditions of this permit is a violation of County regulations and may result in modification or revocation of this permit and subsequent legal action. No use or construction other than that specified by this permit is allowed unless additional permits are approved by the appropriate authorities. To the extent that the County has delegated any condition compliance or mitigation monitoring to the Monterey County Water Resources Agency, the Water Resources Agency shall provide all information requested by the County and the County shall bear ultimate responsibility to ensure that conditions and mitigation measures are properly fulfilled. (HCD - Planning)

Compliance or Monitoring Action to be Performed: The Owner/Applicant shall adhere to conditions and uses specified in the permit on an ongoing basis unless otherwise stated.

2. PD002 - NOTICE PERMIT APPROVAL

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: The applicant shall record a Permit Approval Notice. This notice shall state:
"A Combined Development Permit (Resolution Number 22-004) was approved by the Planning Commission for Assessor's Parcel Number 000-000-000-000, Castro Canyon Bridge (Br. No. 44-0035, Post Mile 43.12, located between Post-Mile Markers 43.05 – 43.25), on March 9, 2022. The permit was granted subject to four(4) conditions of approval which run with the land. A copy of the permit is on file with Monterey County HCD - Planning."

Proof of recordation of this notice shall be furnished to the Director of HCD - Planning prior to issuance of grading and building permits, Certificates of Compliance, or commencement of use, whichever occurs first and as applicable. (HCD - Planning)

Compliance or Monitoring Action to be Performed: Prior to the issuance of grading and building permits, certificates of compliance, or commencement of use, whichever occurs first and as applicable, the Owner/Applicant shall provide proof of recordation of this notice to the HCD - Planning.

3. PD003(A) - CULTURAL RESOURCES NEGATIVE ARCHAEOLOGICAL REPORT

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: If, during the course of construction, cultural, archaeological, historical or paleontological resources are uncovered at the site (surface or subsurface resources) work shall be halted immediately within 50 meters (165 feet) of the find until a qualified professional archaeologist can evaluate it. Monterey County HCD - Planning and a qualified archaeologist (i.e., an archaeologist registered with the Register of Professional Archaeologists) shall be immediately contacted by the responsible individual present on-site. When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for recovery.
(HCD - Planning)

Compliance or Monitoring Action to be Performed: The Owner/Applicant shall adhere to this condition on an on-going basis.

Prior to the issuance of grading or building permits and/or prior to the recordation of the final/parcel map, whichever occurs first, the Owner/Applicant shall include requirements of this condition as a note on all grading and building plans. The note shall state "Stop work within 50 meters (165 feet) of uncovered resource and contact Monterey County HCD - Planning and a qualified archaeologist immediately if cultural, archaeological, historical or paleontological resources are uncovered."

When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for the discovery.

4. BIOLOGICAL REPORT-NOTICE OF REPORT

Responsible Department: RMA-Planning

Condition/Mitigation Monitoring Measure: The applicant shall file a Notice of Report stating that all development shall be done in accordance with the Natural Environment Study (LIB210162) biological report that was conducted on December 12, 2019, prior to the issuance of grading and/or building permits

Compliance or Monitoring Action to be Performed: Prior to the issuance of grading and/or building permits, the Applicant shall submit, to HCD-Planning, a Notice of Report stating that all development shall be done in accordance with the Natural Environment Study (LIB210162).

INDEX OF PLANS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	MON	1	43.12	?	??

STATE OF CALIFORNIA

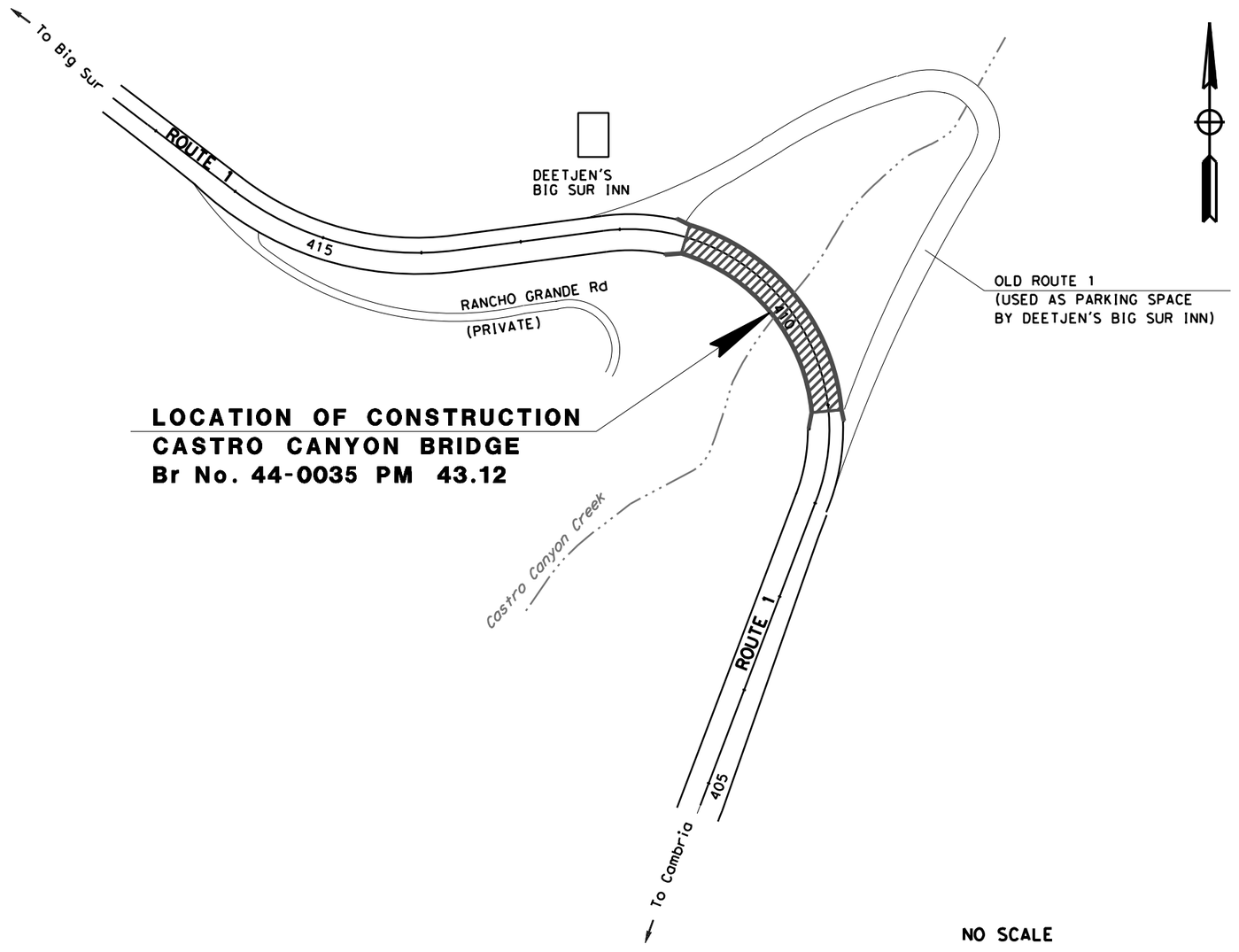
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN MONTEREY COUNTY
NEAR BIG SUR
AT CASTRO CANYON BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2015



NO SCALE

PROJECT MANAGER: KEN DOSTALEK

DESIGN MANAGER: BORIS AYAVIRI

PROJECT ENGINEER — DATE
REGISTERED CIVIL ENGINEER

JOSEPH VALDIVIA
No. ######
Exp. 12/31/00
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

PLANS APPROVAL DATE

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

DATE PLOTTED => 11/12/2021
TIME PLOTTED => 10:54:20 AM

CONTRACT No.	05-1H4900
PROJECT ID	0516000081

LAST REVISION 11-12-21

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	MON	1	43.1	?	??

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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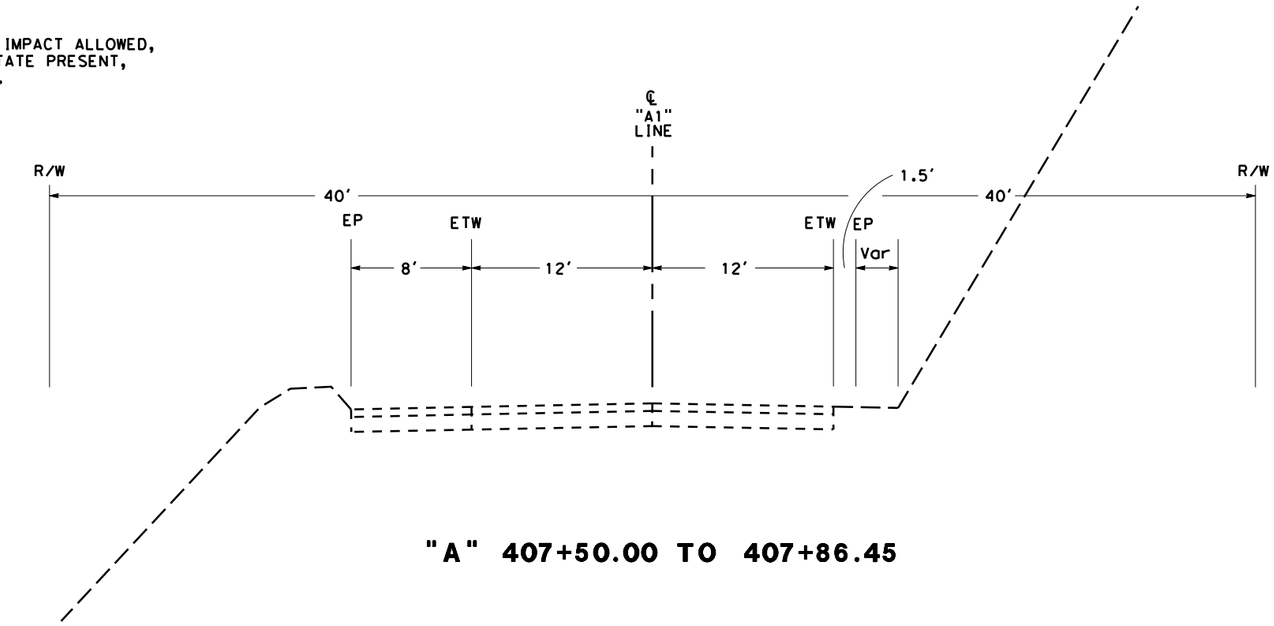
NOTES:

1. ONE WAY TRAFFIC CONTROL REQUIRED DURING CONSTRUCTION.
2. EXISTING CLASS III BIKE PATH.
3. THERE ARE CONCERNS WITH AESTHETICS.
4. ENVIRONMENTAL RESTRICTIONS - NO CREEK IMPACT ALLOWED, ENDANGERED SPECIES AND PROTECTED HABITATE PRESENT, AND DRY SEASON IS MAY 1 TO NOVEMBER 1.

ABBREVIATION:

MSG -- MIDWEST GUARDRAIL SYSTEM



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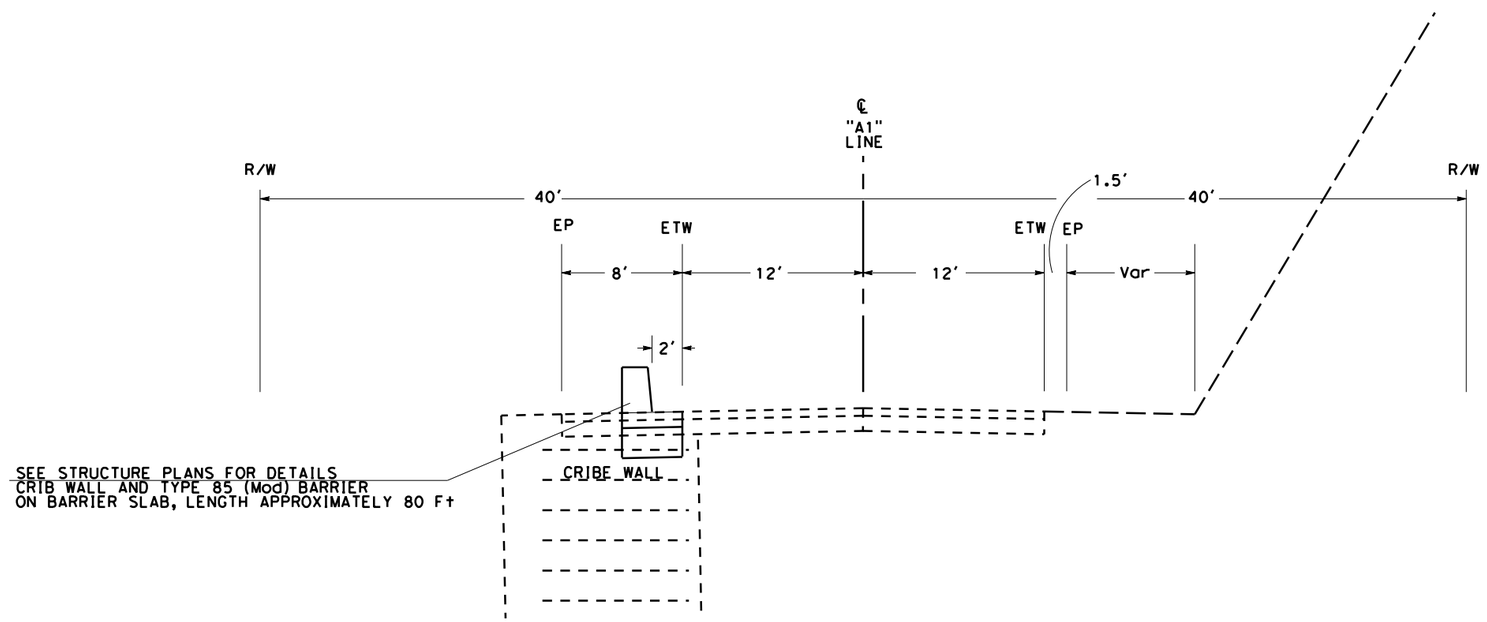

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TYPICAL X-SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 06-DESIGN

FUNCTIONAL SUPERVISOR: BORIS AYAVIRI

CALCULATED-DESIGNED BY: JOSEPH VALDIVIA

CHECKED BY: RAJKAMAL BADHESHA

REVISED BY

DATE REVISED

LAST REVISION 11-19-21

DATE PLOTTED => 11/19/2021

TIME PLOTTED => 3:38:28 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	MON	1	43.1	?	??

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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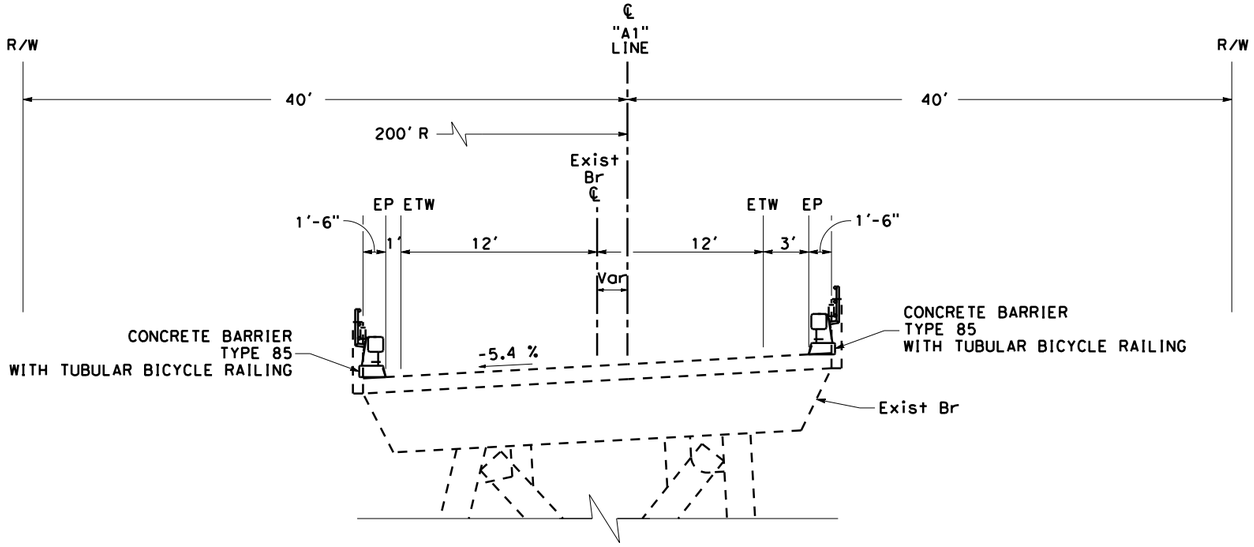

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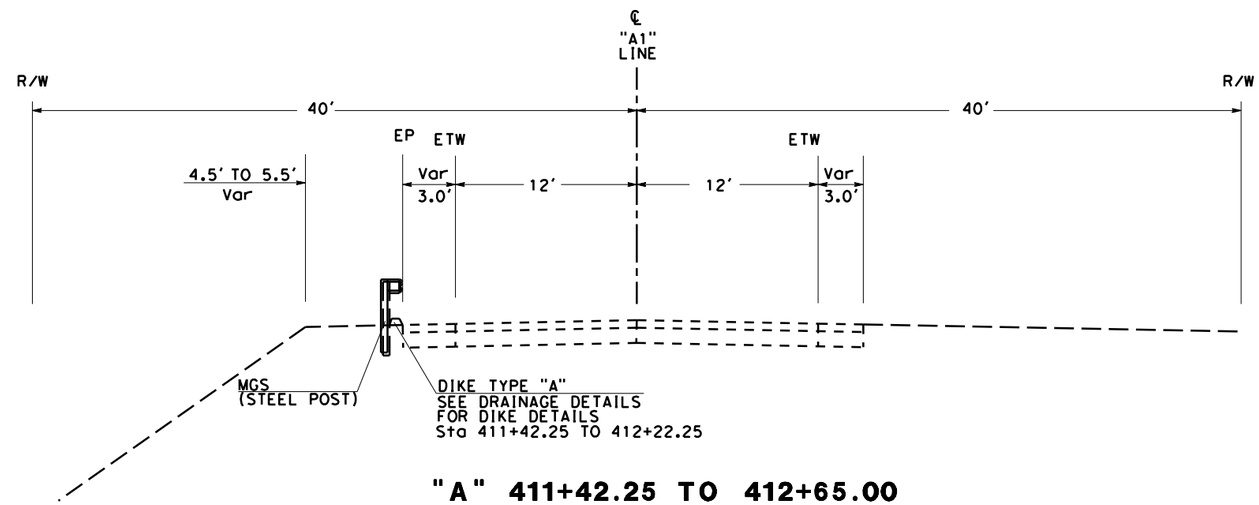

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TYPICAL X-SECTIONS

NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN

FUNCTIONAL SUPERVISOR: BORIS AYAVIRI

CALCULATED-DESIGNED BY: JOSEPH VALDIVIA

CHECKED BY: RAJKAMAL BADHESHA

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TIME PLOTTED => 3:39:11 PM

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UNIT 1469

PROJECT NUMBER & PHASE 0516000081K

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05	MON	1	43.1	?	??

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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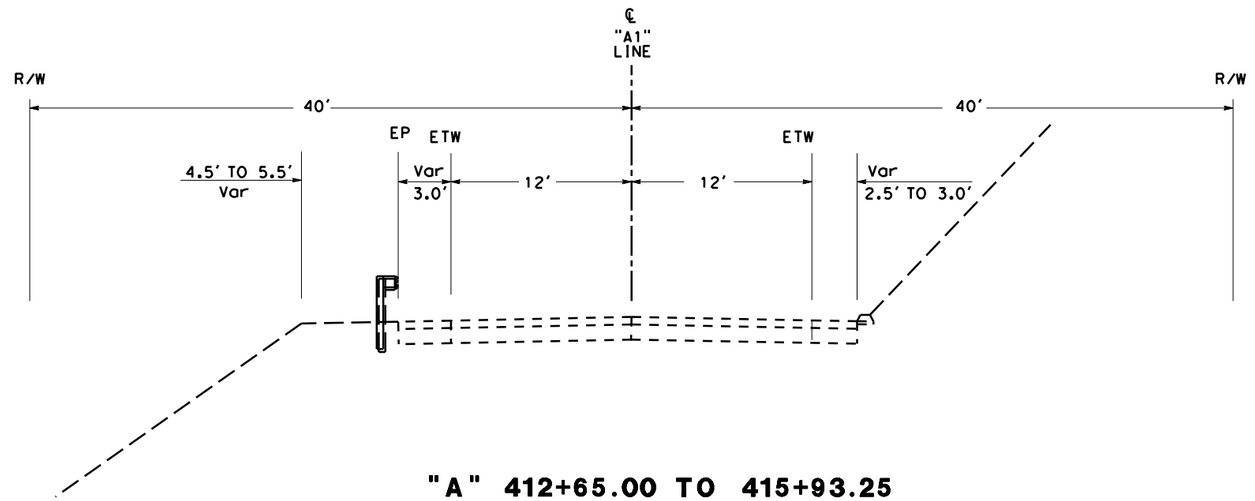

"A" 412+65.00 TO 415+93.25

TYPICAL X-SECTIONS

X-3

NO SCALE

CALCULATED-DESIGNED BY	JOSEPH VALDIVIA
CHECKED BY	RAJKAMAL BADHESHA
FUNCTIONAL SUPERVISOR	BORIS AYAVIRI
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DATE REVISED	

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05	Mon	1	43.12		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. DEETJEN'S INN HISTORIC PROPERTY TO BE AVOIDED DURING CONSTRUCTION.

CURVE DATA

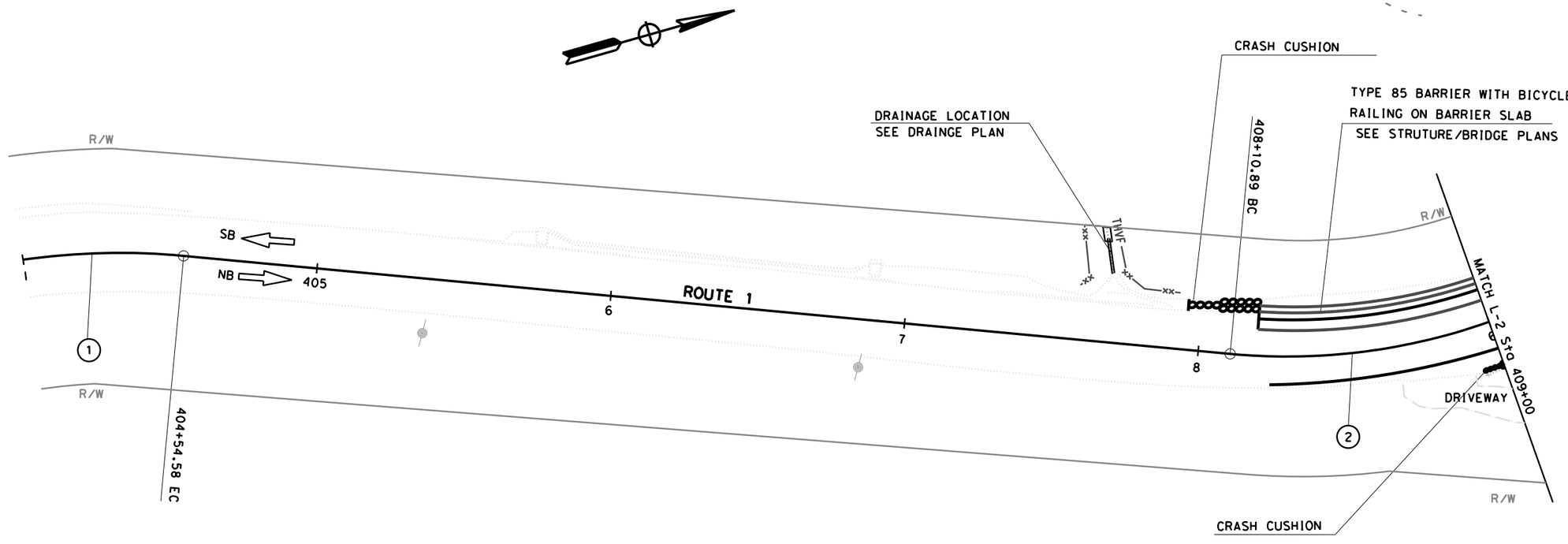
No.	R	Δ	T	L
1	233'	45°24'32"	97.49'	184.66'
2	206'	119°06'57"	350.53'	428.27'

LEGEND:

-xx——xx— THVF —xx—— TEMPORARY HIGH-VISIBILITY FENCE

ABBREVIATIONS

TR TRANSITION RAILING



LAYOUT PLAN

NO SCALE **L-1**

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Caltrans
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FUNCTIONAL SUPERVISOR: BORIS AYAVIRI

CALCULATED-DESIGNED BY | CHECKED BY

REVISED BY | DATE REVISED

LAST REVISION 11-19-21 | DATE PLOTTED => 11/19/2021 | TIME PLOTTED => 1:43:27 PM

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UNIT 1468

PROJECT NUMBER & PHASE 0518000117

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

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CURVE DATA

No. ⊕	R	Δ	T	L
2	206'	119°06'57"	350.53'	428.27'

MATCH L-1 Sta 409+00

Ahn R1 409+05

409+25

NEW RETAINING WALL
SEE STRUCTURE/BRIDGE PLANS

SEE UTILITIES PLANS
POLE TO BE RELOCATED

DRIVEWAY

R/W

NB

SB

TYPE 85 BARRIER WITH BICYCLE RAILING ON BARRIER SLAB
SEE STRUCTURE/BRIDGE PLANS

TYPE 85 BARRIER
WITH BICYCLE RAILING
SEE STRUCTURE/BRIDGE PLANS

START REMOVE DIKE 411+42.25
START REPLACE HMA DIKE (TYPE A) 411+42.25
START REMOVE MBGR 411+42.25
START REPLACE HMA MGS 411+42.25
TR (TYPE WB-31)

SEE DRAINAGE PLAN
DRAINAGE LOCATION

NEW RETAINING WALL
SEE STRUCTURE/BRIDGE PLANS

END REMOVE DIKE 412+22.25
END REPLACE HMA DIKE (TYPE A) 412+22.25

ROUTE 1

410

11

12

2

CASTRO CANYON BRIDGE
Br No. 44-0035

CASTRO CANYON Cr

PRIVATE PROPERTY

R/W

THWF

MATCH L-3 Sta 413+00

PARKING

PARKING

DRIVEWAY

DRIVEWAY

412+39.15 EC

CRASH CUSHION

APPROXIMENT LOCATION OF
DEETJEN'S INN SIGN (AVOID DURING CONSTRUCTION)

APPROXIMENT LOCATION OF
DEETJEN'S INN STRUCTURES

LAYOUT PLAN

NO SCALE **L-2**

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: BORIS AYAVIRI

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1468

PROJECT NUMBER & PHASE 0518000117

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12		

REGISTERED CIVIL ENGINEER DATE

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CURVE DATA

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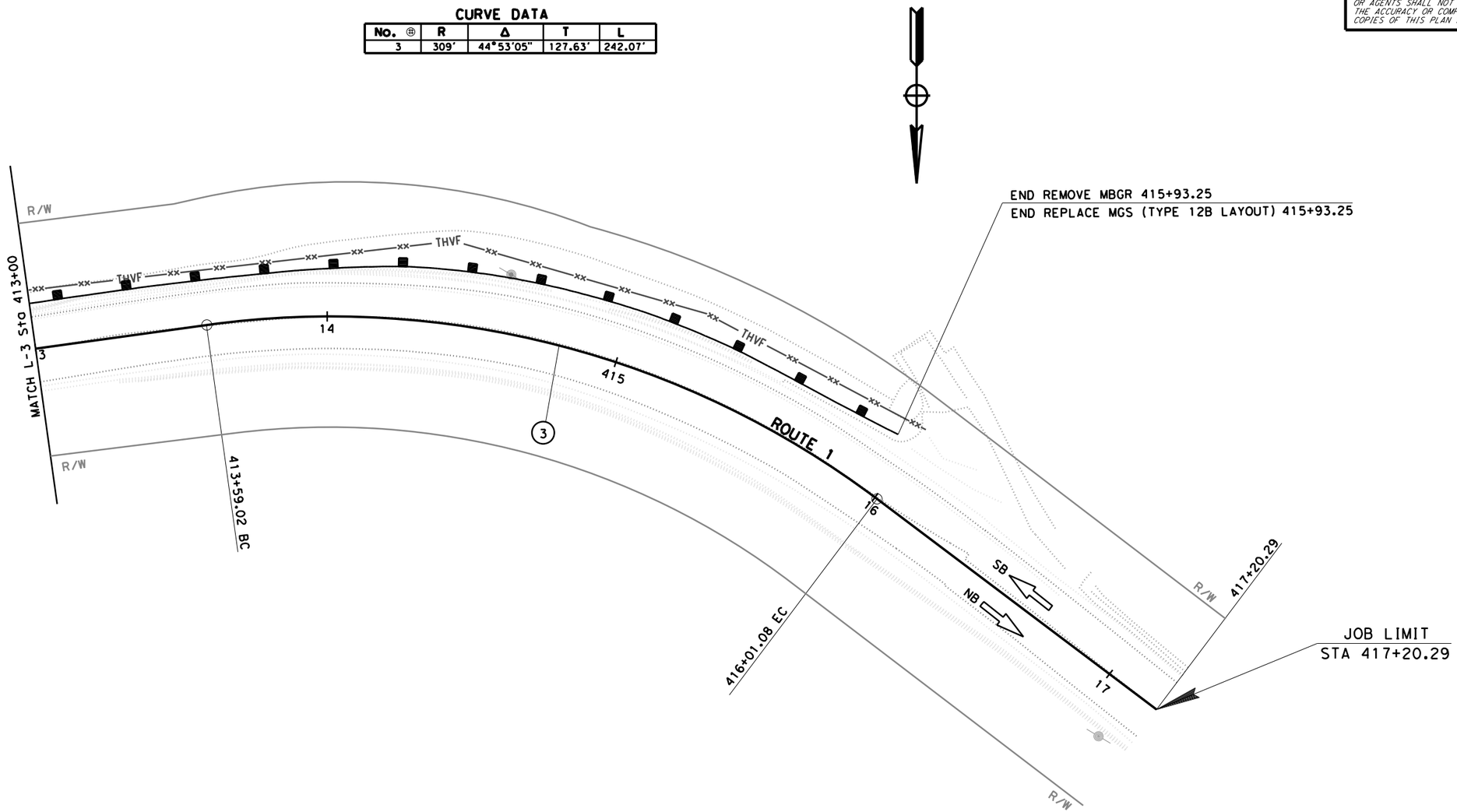

LAYOUT PLAN

NO SCALE **L-3**

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR: BORIS AYAVIRI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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TIME PLOTTED => 1:44:58 PM

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RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0000

PROJECT NUMBER & PHASE 0516000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	MON	1	43.12		

PRELIMINARY

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT Jessica Bailey No. 6000 Signature 07-31-21 Renewal Date Date STATE OF CALIFORNIA

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

ROLLED EROSION CONTROL PRODUCT

SEQUENCE	ITEM	MATERIAL		
		DESCRIPTION	TYPE	FASTENER
INSTALL BEFORE DUFF PLACEMENT	ROLLED EROSION CONTROL PRODUCT (NETTING)	100% COIR NETTING (COCONUT FIBER)	ECTC TYPE 4 NETTING TYPE A	8-GAUGE, 8 INCH STEEL STAPLE

COMPOST SOCK

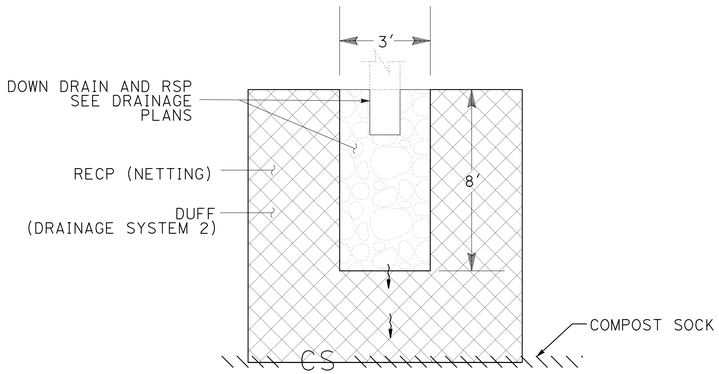
SEQUENCE	ITEM	MATERIAL	MATERIAL TYPE
INSTALL AFTER RECP (NETTING), BEFORE DUFF PLACEMENT	COMPOST SOCK	COMPOST FILLED BIODEGRAD-ABLE TUBE	8" DIA.

DRY SEED

ITEM	MATERIAL		APPLICATION RATE	REMARKS
	DESCRIPTION	TYPE		
DRY SEED	SEED	MIX	15 LB/ACRE	MIX SEED WITH A MEDIUM SAND OR COMPOST TO APPLY

SEED MIX

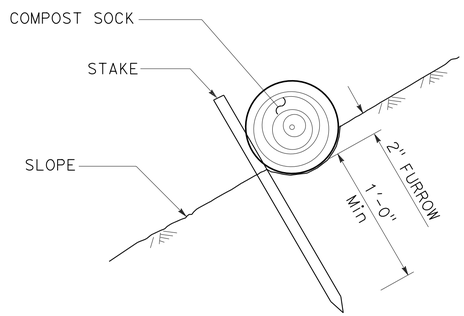
BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
ACHILLEA MILLEFOLIUM (YARROW)	50	0.5
ARTEMESIA DOUGLASIANA (MUGWORT)	30	0.5
DESCHAMPSIA CESPITOSA SPP. HOLCIFORMIS (TUFTED HAIR GRASS)	70	8
FESTUCA MICROSTACHYS (SMALL FESCUE)	50	3
KOELERIA MACRANTHA (JUNE GRASS)	60	3



PLAN

TYPICAL EROSION CONTROL AT DRAIN OUTLETS

NO SCALE



SECTION

COMPOST SOCK

EROSION CONTROL QUANTITIES

LOCATION	COMPOST SOCK	DRY SEED	RECP (NETTING)	REMARKS
	LF	SQFT	SQFT	
"A" 407+60 to 407+85 LF	15	220	220	SEE DRAINAGE PLANS AND DETAILS, SYTEM 1
"A" 411+50 to 412+50 RT		650	650	SEE DRAINAGE PLANS AND DETAILS, SYSTEM 2
"A" 407+85 to 409+50 RT	150	750		SEE SOLDER PILE WALL PLANS AND DETAILS
"A" 407+70 to 409+10 LF	60	600		SEE CRIB WALL REMOVAL PLANS AND DETAILS
TOTAL	225	2220	220	

DUFF COLLECTION AND PLACEMENT

LOCATION	(N) DUFF COLLECTION	(N) DUFF PLACEMENT	DUFF	REMARKS
	SQFT	SQFT	SQFT	
"A" 411+50 to 412+50 RT	650	650	650	SEE DRAINAGE PLANS AND DETAILS. PLACE DUFF IN DISTURBED SOIL AREAS.
TOTAL	650	650	650	

EROSION CONTROL LEGEND

ECL-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT SCOTT DOWLAN
CALCULATED-DESIGNED BY JESSICA BAILEY
CHECKED BY PATRICK BOLGER
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 20-NOV-2021
00-00-00 TIME PLOTTED => 12:02

BORDER LAST REVISED 7/2/2010 | USERNAME => s125555 | DGN FILE => 0516000081st001-ECL-EC.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1502 | PROJECT NUMBER & PHASE 0516000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12		

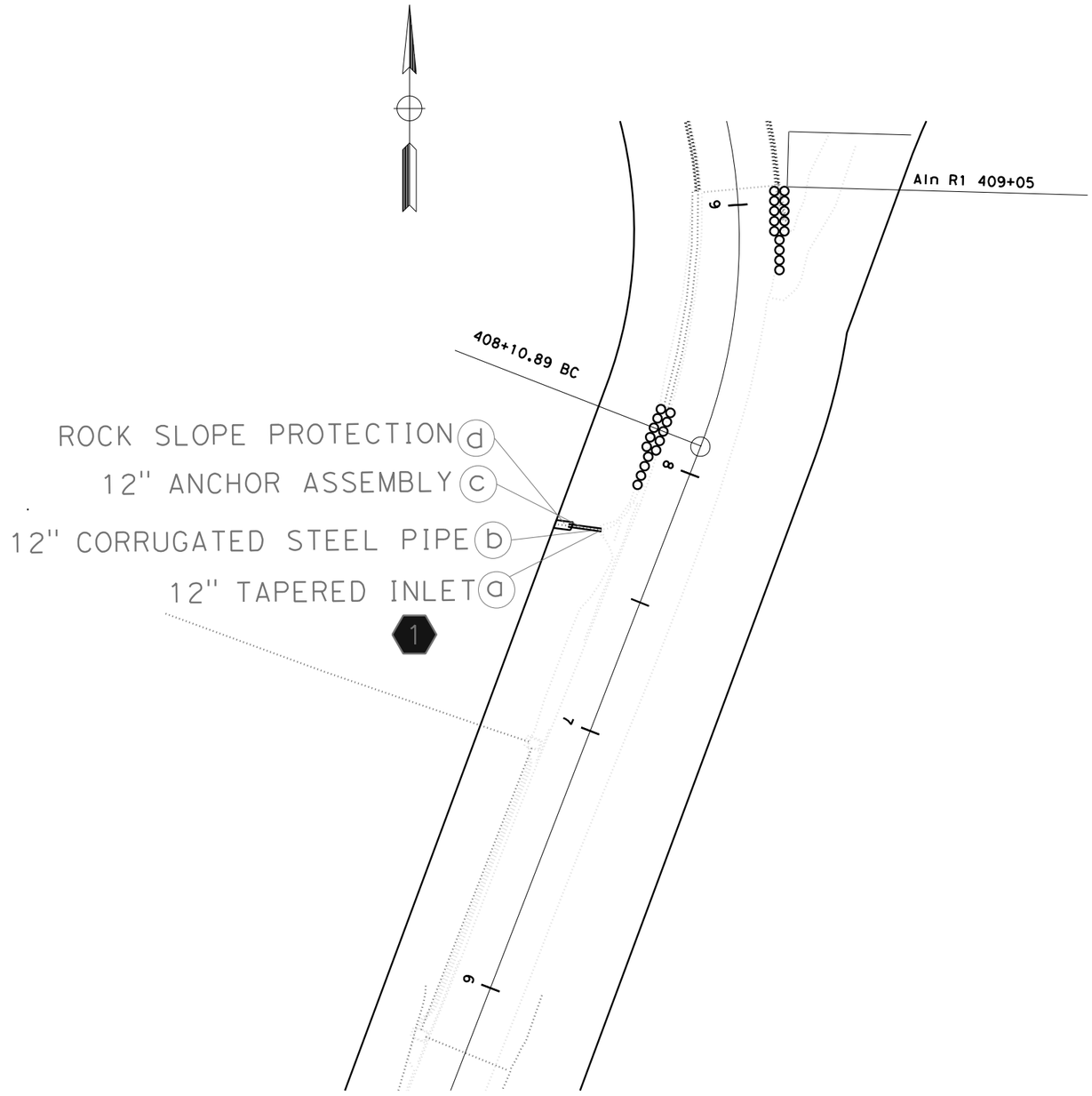
REGISTERED CIVIL ENGINEER DATE

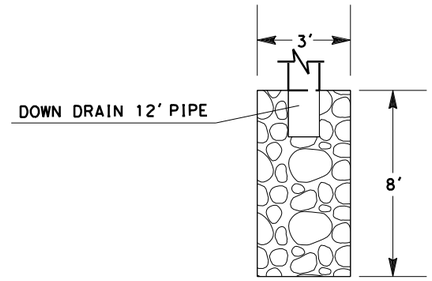
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

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

ROCK SLOPE PROTECTION





ROCK SLOPE PROJECTION

DRAINAGE PLAN

SCALE 1":50' **DP-1**

LAST REVISION 11-17-21
DATE PLOTTED => 11/17/2021
TIME PLOTTED => 4:02:08 PM

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

BORDER LAST REVISED 7/2/2010

USERNAME =>
DGN FILE => ...\SW Corner DownDrain 111820.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1468

PROJECT NUMBER & PHASE 05160000812656

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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

ROCK SLOPE PROTECTION

412+39.15 EC

CASTRO CANYON BRIDGE
Br No. 44-0035

13

12

11

410

12" TAPERED INLET (a)

12" CORRUGATED STEEL PIPE (b)

12" ANCHOR ASSEMBLY (c)

2

EXISTING RSP

OUTLET REMAINS
SAME LOCATION

DRAINAGE PLAN

SCALE 1":50' **DP-2**

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 11-17-21 | DATE PLOTTED => 11/17/2021 | TIME PLOTTED => 4:06:12 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => ...\NW Corner DownDrain 111820.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1468 | PROJECT NUMBER & PHASE 05160000812656

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12		

REGISTERED CIVIL ENGINEER DATE

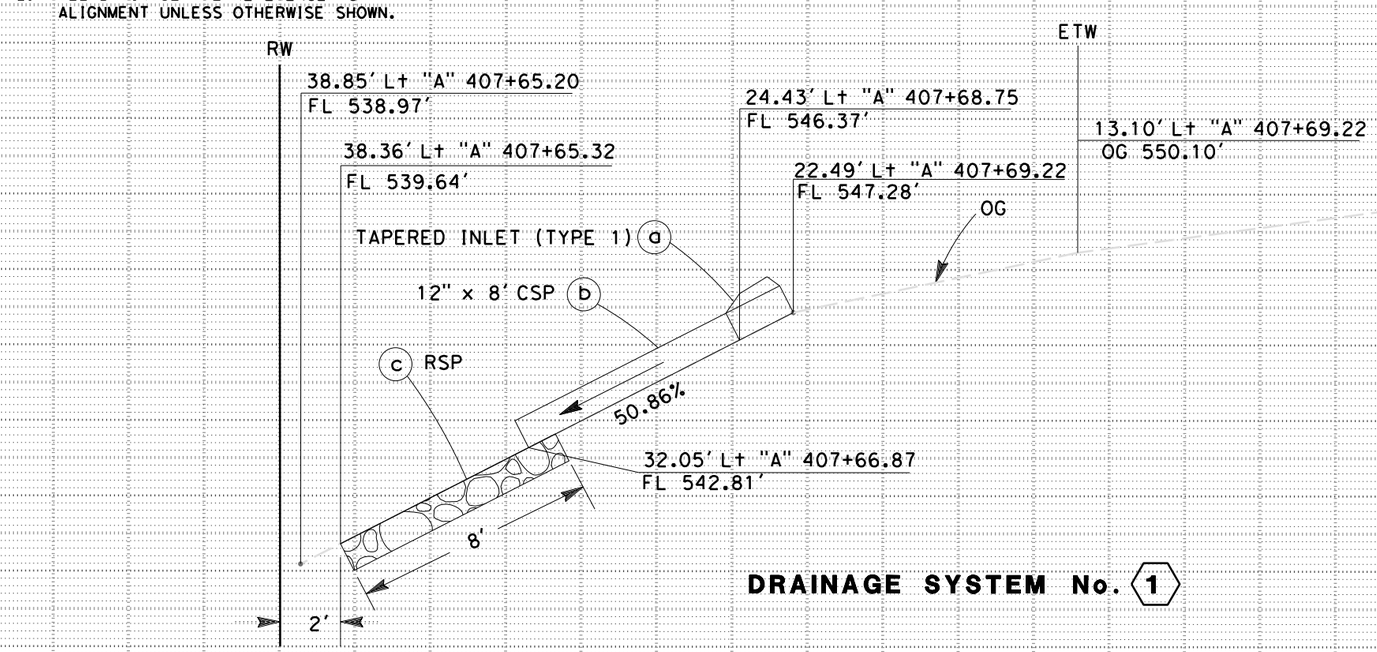
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — STATE OF CALIFORNIA

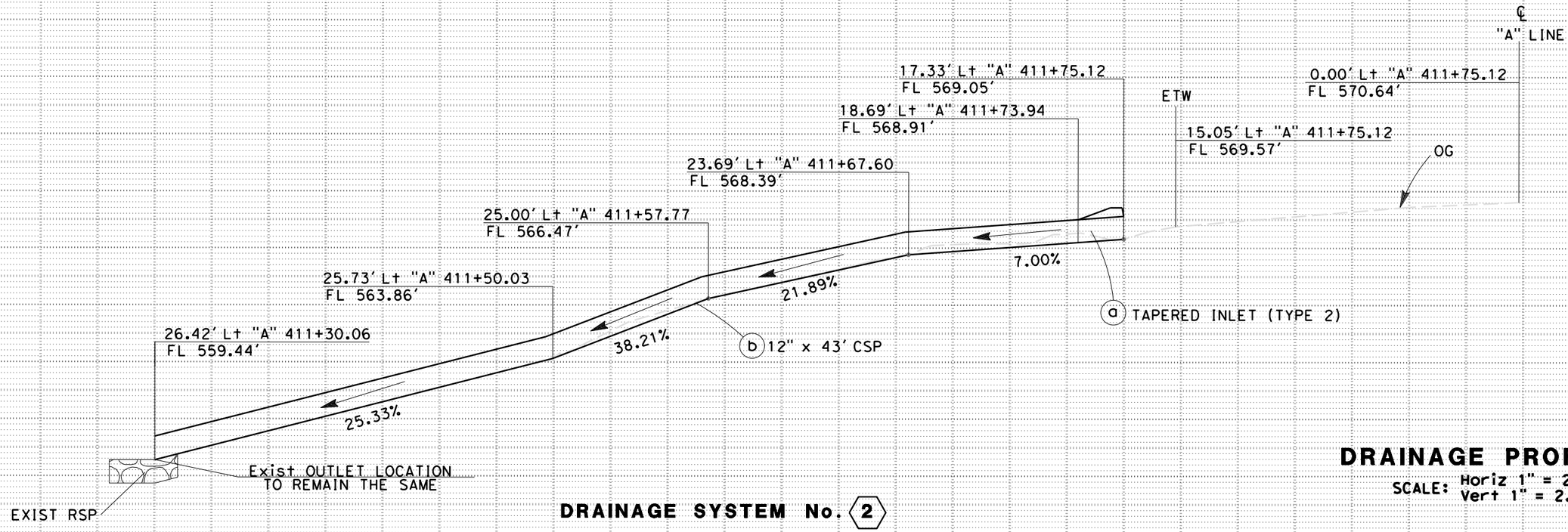
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. ALL STATION, OFFSETS, AND CORRESPONDING SHOWN LEADER LINES.
2. ALL DRAINAGE ARE REFERENCE TO ALIGNMENT UNLESS OTHERWISE SHOWN.



DRAINAGE SYSTEM No. 1



DRAINAGE SYSTEM No. 2

DRAINAGE PROFILES

SCALE: Horiz 1" = 2.5'
Vert 1" = 2.5'

DP-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
CONSULTANT FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 11/16/2021
TIME PLOTTED => 10:08:45 AM

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => ...\Plans\DGN\0516000081ib001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 IDENTICAL | UNIT 00000 | PROJECT NUMBER & PHASE 0516000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR	1	43.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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

DRAINAGE QUANTITIES

DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○	12" ENTRANCE TAPER	12" ANCHOR ASSEMBLY	12" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK)	RSP (LIGHT, METHOD B)	RSP FABRIC (CLASS 8)	ROCK STAIN	MAXIMUM COVER (N)	PLACE HMA (MISC AREA) *	HMA (TYPE A) *	DESCRIPTION	LOCATION
		EA	EA	LF	CY	SQYD	SQFT	LF	SQYD	TONN		
1	a	1							2.16	0.3	12" ENTRANCE TAPER	407+69.22, 22.49' Lt
1	b			8				0.5			12" CORRUGATED STEEL PIPE DOWNDRAIN	407+68.75/407+69.22, Var Lt
1	c		2								12" ANCHOR ASSEMBLY	407+68.75/407+69.22, Var Lt
1	d				1	5	24				RSP (LIGHT, METHOD B) AND RSP FABRIC (CLASS 8)	407+65.32/407+66.87, Var Lt
2	a	1							2.16	0.3	12" ENTRANCE TAPER	411+75.12, 17.33' Lt
2	b			43				0.5			12" CORRUGATED STEEL PIPE DOWNDRAIN	411+73.94/411+30.06, Var Lt
2	c		8								12" ANCHOR ASSEMBLY	411+73.94/411+75.12, Var Lt
TOTAL		2	10	51	1	5	24		4.32	0.6		

(N) = NOT A SEPARATED PAY ITEM, FOR INFORMATION ONLY

* QUANTITY INCLUDED IN ROADWAY QUANTITIES TABLE.

CALCULATED-DESIGNED BY: JOSEPH VALDIVIA

CHECKED BY

REVISED BY

DATE REVISED

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

06-DESIGN

LAST REVISION 11-19-20

DATE PLOTTED => 11/19/2021

TIME PLOTTED => 1:45:57 PM

DRAINAGE QUANTITIES
DQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

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

JOB LIMIT
STA 417+10.86

NB
SB

ROUTE 1

416+03.20 EC

413+54.36 BC

412+24.77 EC

408+00.89 BC

JOB LIMIT
STA 402+66.89

POLE TO BE RELOCATED

POLE TO BE RELOCATED

CASTRO CANYON BRIDGE
Br No. 44-0035

PRIVATE PROPERTY

SEPTIC TANKS
(APPROXIMATE LOCATION)

Castro Canyon Creek

Exist R/W

3-4C 12kV

2-4C 12kV

LEGEND:

- TELECOMM (OH) - AT&T (OLD PACIFIC TELEPHONE & TELEGRAPH)
- ELECTRIC (OH) - PG&E
- ELECTRIC UG) - PG&E
- CULVER
- STORM DRAIN
- UNKNOWN UTILITIES UNDER BRIDGE

THIS PLAN TO BE USED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

NO SCALE **U-1**

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: BORIS AYAVIRI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-DESIGN

LAST REVISION 05-02-21 | DATE PLOTTED => 11/12/2021 | TIME PLOTTED => 11:54:24 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => ...\Plans\DGN\0516000081ka001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1468 | PROJECT NUMBER & PHASE 05160000811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. Exp. CIVIL — STATE OF CALIFORNIA

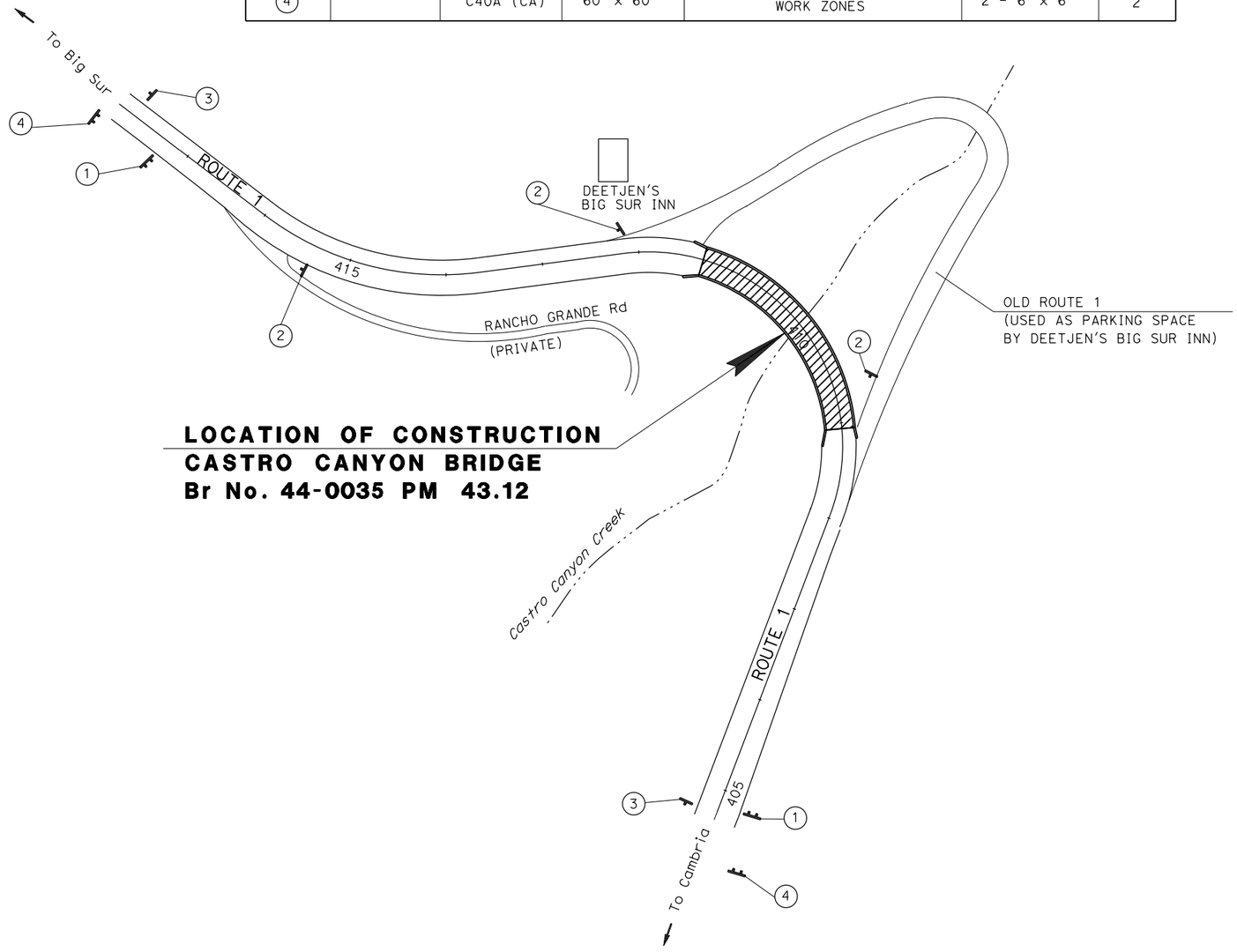
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXACT LOCATION OF SIGNS TO BE DETERMINED BY THE ENGINEER.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
	FEDERAL	CALIFORNIA				
(1)	W20-1		60" x 60"	ROAD WORK AHEAD	2 - 6" x 6"	2
(2)	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 6"	3
(3)	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 6"	2
(4)		C40A (CA)	60" x 60"	TRAFFIC FINES DOUBLED IN WORK ZONES	2 - 6" x 6"	2



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGN

NO SCALE **CS-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY
CHECKED BY: APURVA GOKAL
REVISED BY: GURMIT GILL
DATE REVISED

LAST REVISION 10-11-21
DATE PLOTTED => 12-OCT-2021
TIME PLOTTED => 08:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s128443 | DGN FILE => 05160000811a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1468 | PROJECT NUMBER & PHASE 05160000812656

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

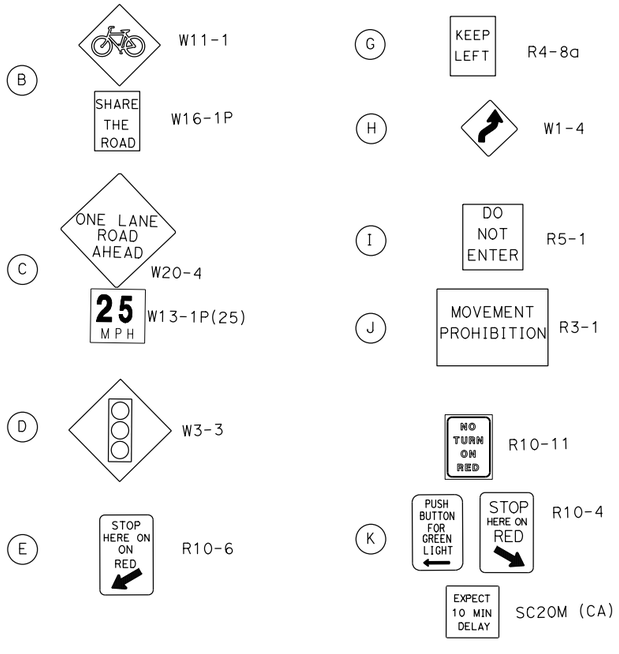
LEGEND:

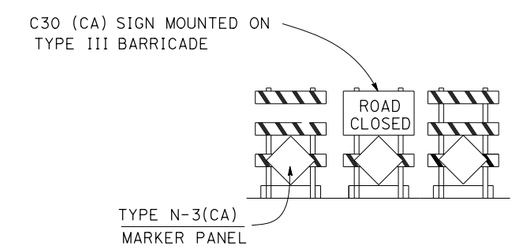
- Temp RAILING (TYPE K)
- CONSTRUCTION AREA SIGN NUMBER
- CHANNELIZERS (SURFACED MOUNTED)
- Temp ALTERNATIVE CRASH CUSHION SYSTEM
- Temp SIGN REMAIN IN PLACE
- CONSTRUCT THIS STAGE

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE, EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS SEE CS-1 SHEET.
3. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
4. ACCUSS TO DEETJEN'S INN TO REMAIN OPEN DURING CONSTRUCTION.
5. CHANNELIZERS (SURFACE MOUNTED) SHALL BE MAINTAINED DURING ENTIRE STAGE CONSTRUCTION PERIODS.
6. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

TRAFFIC: ROUTE 1 LOCAL TRAFFIC TRAVEL ON Exist NB AND SB LANE USING Temp SIGNALS INSTALLED FROM STA 404+90 TO STA 416+25 FOR REVERSE TRAFFIC CONTROL IN BOTH DIRECTIONS.





DETAIL B

TRAFFIC HANDLING PLAN
(STAGE 1)

NO SCALE

TH-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 06-TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: GURMIT GILL

CHECKED BY: APURVA GOKAL

REVISED BY

DATE REVISED

LAST REVISION 10-11-21

DATE PLOTTED => 12-OCT-2021

TIME PLOTTED => 08:39

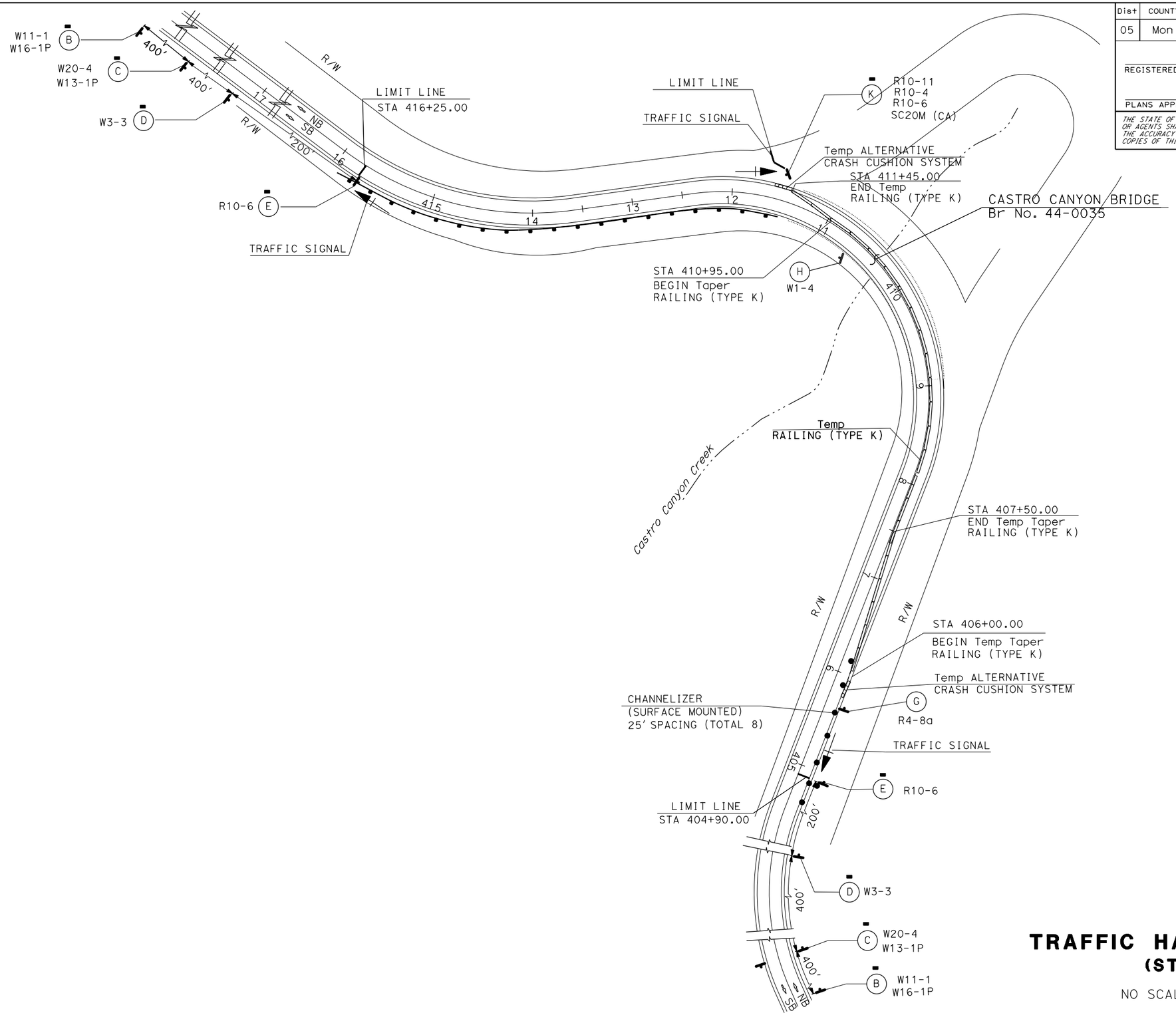
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

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



TRAFFIC HANDLING PLAN
(STAGE 2)

NO SCALE

TH-2

		REVISED BY	DATE REVISED
		GURMIT GILL	APURVA GOKAL
		CALCULATED-DESIGNED BY	CHECKED BY
		FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-TRAFFIC DESIGN

LAST REVISION 10-11-21
DATE PLOTTED => 12-OCT-2021
TIME PLOTTED => 08:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s128443 | DGN FILE => 0516000081md002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1513 | PROJECT NUMBER & PHASE 05160000811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.1	?	??

REGISTERED CIVIL ENGINEER — 00-00-00 DATE

PLANS APPROVAL DATE — XX-XX-XX

REGISTERED PROFESSIONAL ENGINEER — A.N. GOKAL — No. 61979 — Exp. 09-30-21 — CIVIL — STATE OF CALIFORNIA

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
B	W11-1	18" x 18"	BICYCLE WARNING	1 - TS 2-1/2" x 2-1/2"	2
	W16-1P	18" x 24"	SHARE THE ROAD		
C	W20-4	36" x 36"	ONE LANE ROAD AHEAD	1 - TS 2-1/2" x 2-1/2"	2
D	W3-3	36" x 36"	SIGNAL AHEAD SYMBOL	1 - TS 2-1/2" x 2-1/2"	2
E	R10-6	24" x 36"	STOP HERE ON RED	1 - TS 2-1/2" x 2-1/2"	2
G	R4-8a	24" x 30"	KEEP LEFT	1 - TS 2-1/2" x 2-1/2"	2
H	W1-4	36" x 36"	REVERSING CURVE SYMBOL	1 - TS 2-1/2" x 2-1/2"	2
I	R5-1	??" x ??"	DO NOT ENTER	1 - TS 2-1/2" x 2-1/2"	1
J	R3-1	24" x 24"	NO RIGHT TURN SYMBOL	1 - TS 2-1/2" x 2-1/2"	1
K	R10-11	24" x 30"	NO TURN ON RED	1 - TS 2-1/2" x 2-1/2"	1
	R10-4	9 " x 12"	PUSH BUTTON FOR GREEN LIGHT		
	R10-6	24" x 36"	STOP HERE ON RED		
	SC20M	24" X 24"	EXPECT 10 MN DELAY		

CHANNELIZER (SURFACE MOUNTED)

SHEET No.	EA
TH-1	13
TH-2	8
TOTAL	21

TEMPORARY RAILING (TYPE K)

SHEET No.	STATION	LENGTH (LF)
TH-1	406+00 TO 413+50 ("MAIN-1" LINE)	760
TH-2	406+00 TO 411+45 ("MAIN-1" LINE)	760
TOTAL		1,520

TEMPORARY CRASH CUSHION

SHEET No.	TEMPORARY ALTERNATIVE CRASH CUSHION SYSTEM
	EA
TH-1	4
TH-2	2
TOTAL	6

TYPE III BARRICADES

LOCATION	TYPE III BARRICADES
	EA
TH-1	3
TH-2	3
SUBTOTAL	6

TEMPORARY PAVEMENT QUANTITIES

ROUTE	SHEET	LOCATION/ POST MILE	DIRECTION	TEMPORARY PAVEMENT MARKING (TAPE)	
				DESCRIPTION	SQFT
1	TH-1	406+00	NB	1-LIMIT LINE (TH-1)	12.00
		416+25	NB	1-LIMIT LINE (TH-1)	24.00
		416+25	SB	1-LIMIT LINE (TH-1)	12.00
TOTAL					48.00

TRAFFIC HANDLING QUANTITIES

THQ-1

REVISED BY	
DATE REVISED	
GURMIT GILL	APURVA GOKAL
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-TRAFFIC DESIGN

LAST REVISION 10-11-21
DATE PLOTTED => 12-OCT-2021
TIME PLOTTED => 08:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	?	??

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

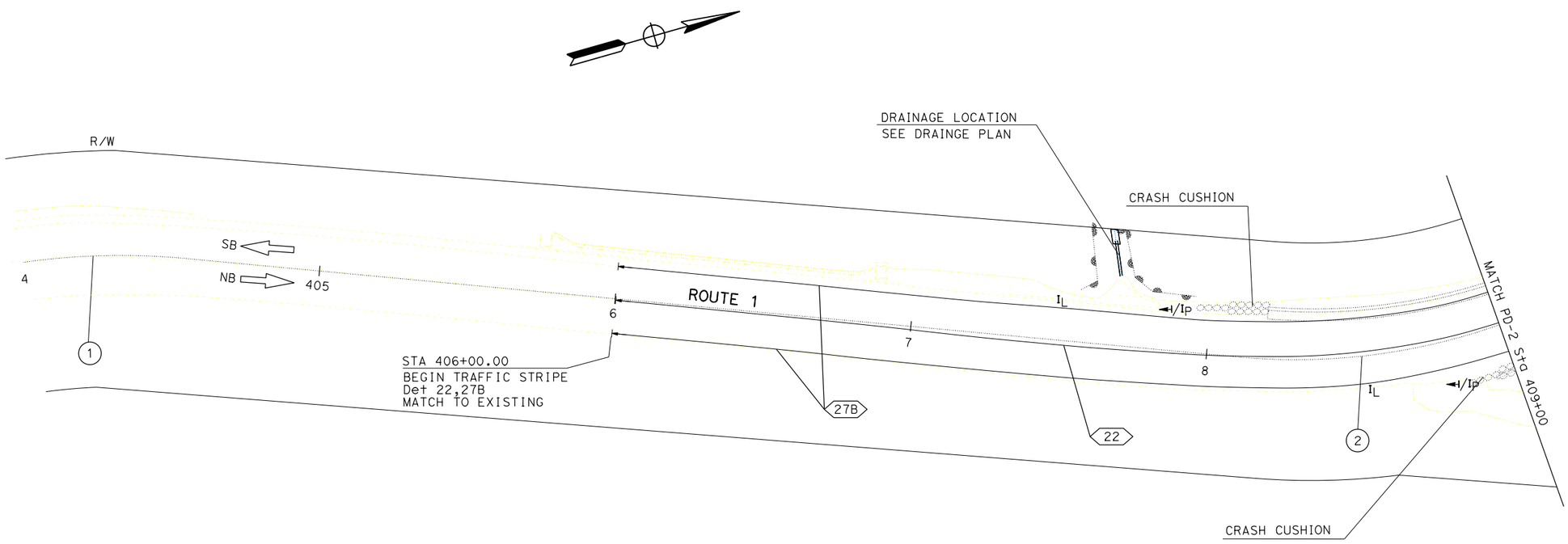
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND:

- ⟨XX⟩ THERMOPLASTIC TRAFFIC STRIPE DETAIL No.
- LIMITS OF DESIGNATED TRAFFIC STRIPING DETAIL
- I_F DELINEATOR TYPE F (CLASS 1)
- I_{GR_E} GUARD RAIL DELINEATOR TYPE E (CLASS 1)
- I_{GR_F} GUARD RAIL DELINEATOR TYPE F (CLASS 1)
- I_L OBJECT MARKER TYPE L-1 (CA)
- ◄I/Ip OBJECT MARKER TYPE P (CA)
- ■ REMOVE AND INSTALL ROADSIDE SIGN



APPROVED FOR PAVEMENT DELINEATION AND SIGN PLAN WORK ONLY

PAVEMENT DELINEATION PLAN

SCALE 1" = 20'

PD-1

REVISED BY	
DATE REVISED	
CALCULATED-DESIGNED BY	GURMIT GILL
CHECKED BY	APURVA GOKAL
FUNCTIONAL SUPERVISOR	MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **06-TRAFFIC DESIGN**

LAST REVISION 10-11-21
DATE PLOTTED => 12-OCT-2021
TIME PLOTTED => 08:39

BORDER LAST REVISED 7/2/2010 | USERNAME => s128443 | DGN FILE => 0516000081na001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1468 | PROJECT NUMBER & PHASE 0518000117

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	?	??

REGISTERED CIVIL ENGINEER DATE

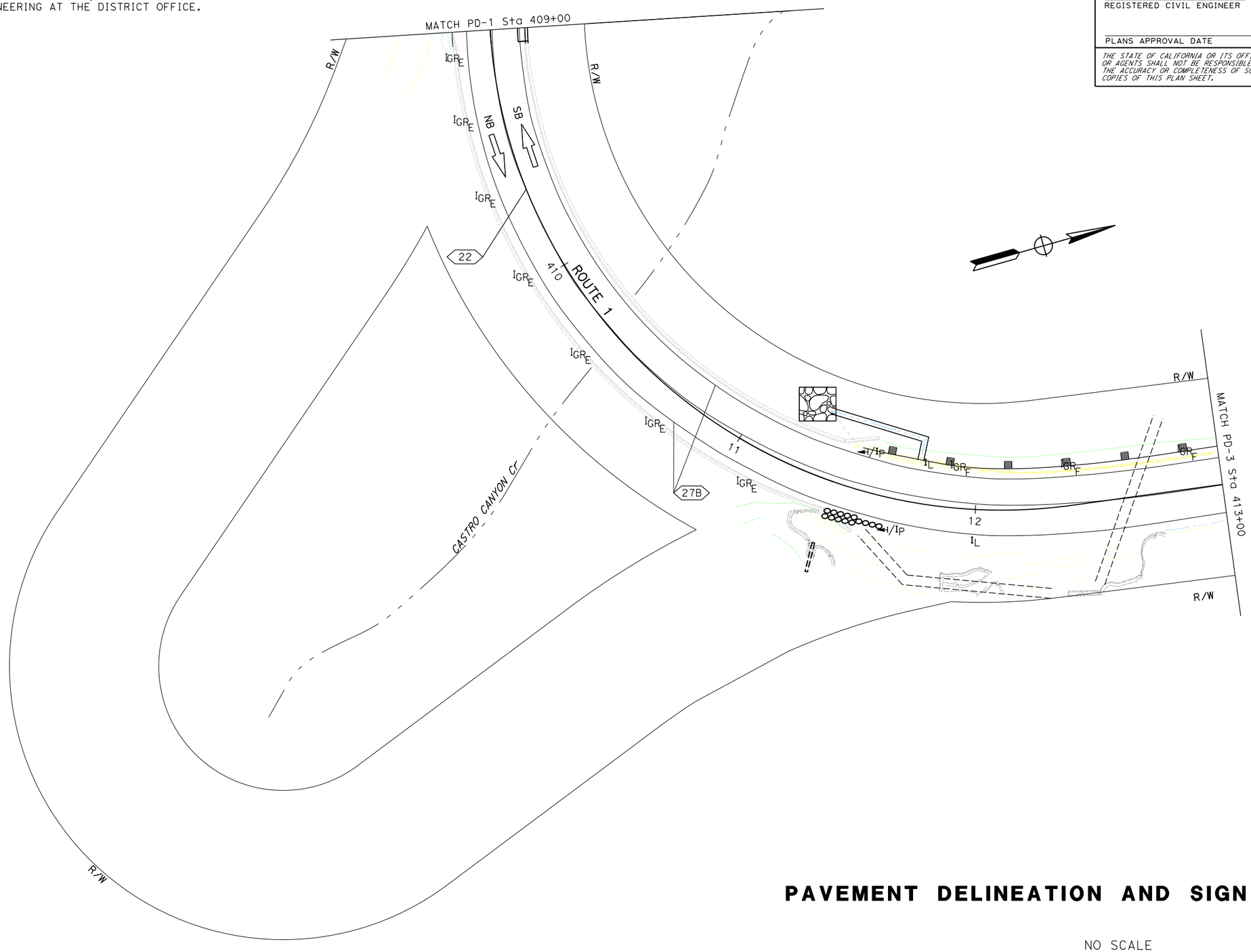
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION AND SIGN PLAN

NO SCALE

PD-2

APPROVED FOR PAVEMENT DELINEATION AND SIGN PLAN WORK ONLY

CALCULATED-DESIGNED BY			
CHECKED BY			
GURMIT GILL	REVISED BY		
APURVA GOKAL	DATE REVISED		
FUNCTIONAL SUPERVISOR			
MOHAMMED QATAMI			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 06-TRAFFIC DESIGN

LAST REVISION 10-11-21

DATE PLOTTED => 12-OCT-2021
TIME PLOTTED => 08:39

BORDER LAST REVISED 7/2/2010

USERNAME => s128443
DGN FILE => 0516000081na002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1468

PROJECT NUMBER & PHASE 0518000117

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	?	??

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

NOTE:

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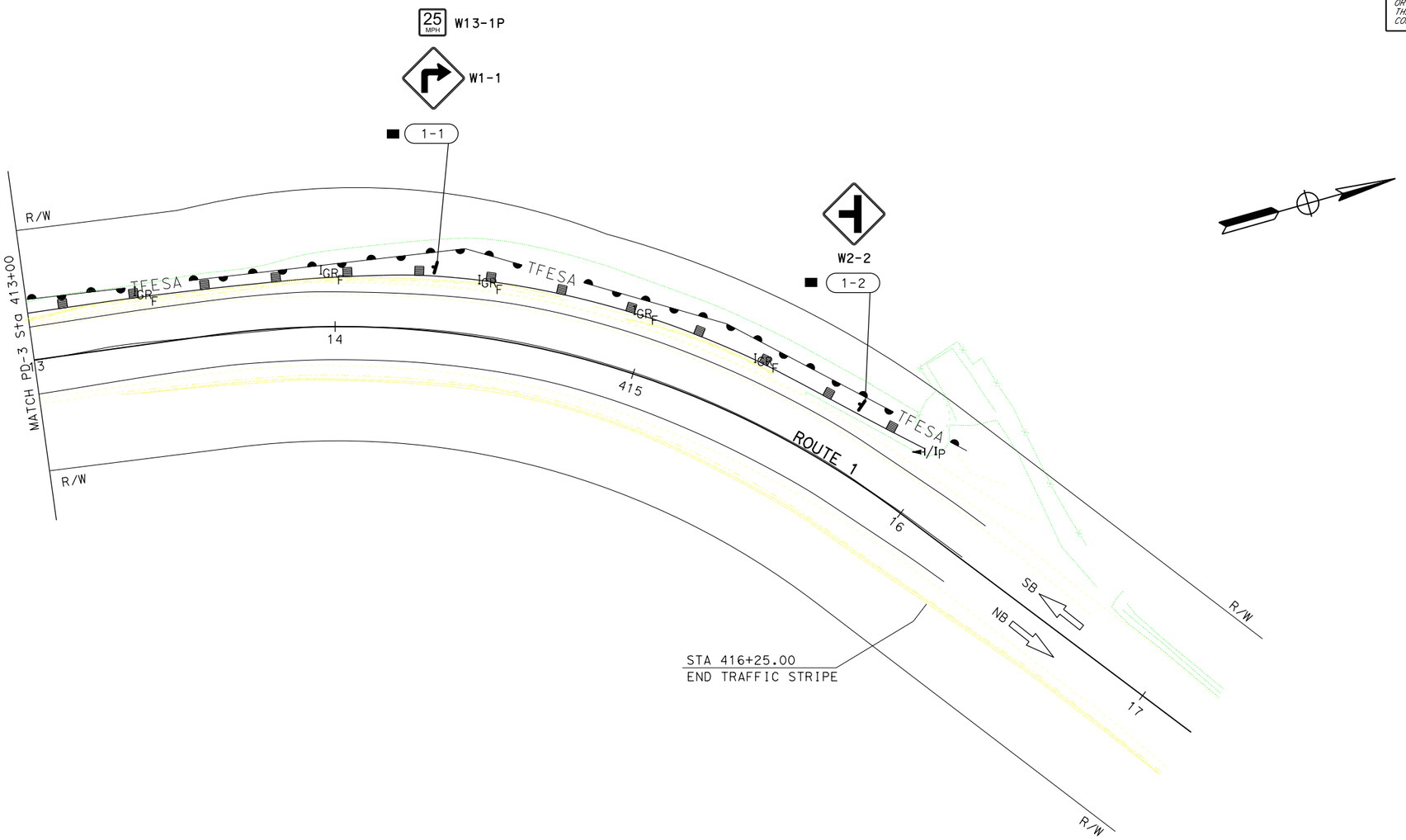


PAVEMENT DELINEATION AND SIGN PLAN

APPROVED FOR PAVEMENT DELINEATION AND SIGN PLAN WORK ONLY

SCALE 1" = 20'

PD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® 06-TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI

CALCULATED-DESIGNED BY: GURMIT GILL

CHECKED BY: APURVA GOKAL

REVISED BY

DATE REVISED

LAST REVISION 10-11-21

DATE PLOTTED => 12-OCT-2021
TIME PLOTTED => 08:39

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.1	?	??

REGISTERED CIVIL ENGINEER — 00-00-00 DATE

XX-XX-XX
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — A.N. GOKAL — No. 61979 — Exp. 09-30-21 — CIVIL — STATE OF CALIFORNIA

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

SIGN QUANTITIES

SHEET NUMBER	SIGN NUMBER	SIGN DESIGNATION	SIGN MESSAGE	NO. OF POST AND POST SIZE	PANEL SIZE L X D	BACKGROUND		LEGEND		FURNISH SINGLE SHEET ALUMINUM SIGN UNFRAMED	ROADSIDE SIGN - ONE POST	REMOVE ROADSIDE SIGN (WOOD POST)	TREATED WOOD WASTE
						SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	SHEETING COLOR	RETROREFLECTIVITY ASTM TYPE	0.063"			
					INCHES					SQFT	EA	EA	LB
PD-3	3-1	W1-1	RIGHT TURN (SYMBOL)	1-2½" x 2½"	30 x 30	FY	XI	BLACK	XI	6.25	1	1	86.25
		W13-1P	ADVISORY SPEED PLAQUE (25 MPH)		18 x 18	FY	XI	BLACK	XI	2.25			
	3-2	W2-2	SIDE ROAD (SYMBOL)	1-2½" x 2½"	30 x 30	FY	XI	BLACK	XI	6.25	1	1	86.25
TOTAL										14.75	2	2	187.5

PAVEMENT DELINEATION QUANTITIES

ROUTE	SHEET	LOCATION/ POST MILE FROM	LOCATION/ POST MILE TO	DIRECTION	DETAIL No.	PAVEMENT MARKER RETROREFLECTIVE TYPE D	THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) SOLID YELLOW/WHITE 6"	REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC TRAFFIC STRIPE YELLOW/WHITE	OBJECT MARKER TYPE L	OBJECT MARKER TYPE P	GUARD RAILING DELINEATOR TYPE E	GUARD RAILING DELINEATOR TYPE F
						EA	LF	EA	LF	EA	EA	EA	EA
1	PD-1	406+00	416+25	NB	27B		1025		1025	4	5	7	8
	TO	406+00	416+25	NB/SB	22	88	2050	88	2050				
	PD-3	406+00	416+25	SB	27B		1025		1025				
SUBTOTAL						88	4,100	88	4,100	4	5	7	8
TOTAL						88	4,100	88	4,100	9		15	

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
CALCULATED-DESIGNED BY: GURMIT GILL
CHECKED BY: APURVA GOKAL
REVISED BY
DATE REVISED

LAST REVISION 10-11-21
DATE PLOTTED => 12-OCT-2021
TIME PLOTTED => 08:40

BORDER LAST REVISED 7/2/2010
USERNAME => s128443
DGN FILE => 0516000081nc001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1513
PROJECT NUMBER & PHASE 05160000811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SCR	1	43.1		

REGISTERED CIVIL ENGINEER DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA

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

PLACE HOT MIX ASPHALT DIKE

LOCATION	POST MILE	DIRECTION OF TRAVEL	DESCRIPTION	PLACE HMA DIKE (TYPE F)		REMOVE ASPHALT CONCRETE DIKE
				LF	TON	LF
1	43.11	SB	411+42.25 TO 412+22.25	80	1.1	80
			TOTAL	80	1.1*	80

*QUANTITY INCLUDED IN ROADWAY QUANTITIES TABLE.

HMA APRONS

LOCATION	POST MILE	DIRECTION OF TRAVEL	LOCATION/DESTRIPTION	PLACE HMA (Misc AREA)	HMA (TYPE A) *
		NB/SB		SOYD	TON
1	43.03	SB	"A" 411+76, 17.3' Lt / TYPE 2	40	16.2
2	43.11	SB	"A" 407+69, 23.5' Lt / TYPE 1	15	6.1
			TOTAL	1.4	22.3*

*QUANTITY INCLUDED IN ROADWAY QUANTITIES TABLE.

FENCE

LOCATION	TEMPORARY HIGH VISIBILITY FENCE
	LF
"A" 407+58.00 TO 407+93.00, 19' Rt	70
"A" 411+07.00 TO 416+00.00, 18' Rt	539
TOTAL	609

CRASH CUSHION

LOCATION	CRASH CUSHION TEST LEVEL II PENDING	CRASH CUSHION TEST LEVEL III	(N) CONCRETE CRASH CUSHION FOUNDATION
	EA	EA	CY
"A" 408+00.00, 14.0' Lt		1	1.0
"A" 409+00.00, 14.0' Rt	1		0.6
"A" 411+45.00, 14.0' Rt	1		0.6
TOTAL	2	1	

N = NON PAY ITEM

STAIN GALVANIZED SURFACES*

MIDWEST GUARDRAIL SYSTEM (STEEL POSTS)	TRANSITION RAILING (TYPE WB-31)	TYPE TL-2 CRASH CUSHIONS	TYPE TL-3 CRASH CUSHION	TUBURLAR BICYLE RAIL (TYPE 85 BARRIER)	CABLE RAILING	FLARED END TREATMENT	CORRUGATED STEEL PIPE
LF	EA	EA	EA	LF	LF	EA	LF
426.0	1	2	1	470	20	1	51

* THIS IS A LUMPSUM ITEM, FOR INFORMATION PURPOSES ONLY

MIDWEST GUARDRAIL SYSTEM

	PM	DIRECTION	DESCRIPTION	LOCATION	LAYOUT TYPE	REMOVE GUARDRAIL	TREATED WOOD WASTE	MGS (STEEL POST)	31" FLARED TERMINAL SYSTEM END TREATMENT	TRANSITION RAILING (TYPE WB-31)	END ANCHOR ASSEMBLY (TYPE SFT)	OBJECT MARKER (TYPE P)	VEGETATION CONTROL (MINOR CONCRETE)
						LF	LB	LF	EA	EA	EA	EA	SOYD
Castro Canyon Br	43.11	SB	BRIDGE APPROACH	Sta 411+42.25 TO 415+93.25, 15' Lt "A" LINE	12B	426.0	5344	451.0	1	1	0	1	X
TOTAL						426.0	5344	451.0	1	1	0	1	X

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED

JOSEPH VALDIVIA

CALCULATED-DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

06-DESIGN

LAST REVISION 11-19-21

DATE PLOTTED => 11/19/2021

TIME PLOTTED => 1:46:57 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	MON	1	43.12		

PRELIMINARY

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Jessica Bailey No. 6062 — Signature — 07-31-21 Renewal Date — Date — STATE OF CALIFORNIA

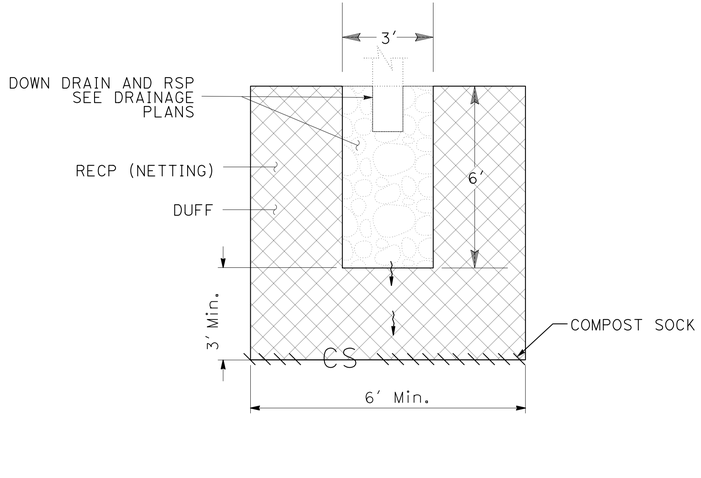
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ROLLED EROSION CONTROL PRODUCT

SEQUENCE	ITEM	MATERIAL		
		DESCRIPTION	TYPE	FASTENER
INSTALL BEFORE DUFF PLACEMENT	ROLLED EROSION CONTROL PRODUCT (NETTING)	100% COIR NETTING (COCONUT FIBER)	ECTC TYPE 4 NETTING TYPE A	8-GAUGE, 8 INCH STEEL STAPLE

COMPOST SOCK

SEQUENCE	ITEM	MATERIAL	MATERIAL TYPE
INSTALL AFTER RECP (NETTING), BEFORE DUFF PLACEMENT	COMPOST SOCK	COMPOST FILLED BIODEGRAD-ABLE TUBE	8" DIA.



PLAN

TYPICAL EROSION CONTROL AT DRAIN OUTLETS

NO SCALE

EROSION CONTROL QUANTITIES

LOCATION	COMPOST SOCK	RECP (NETTING)	REMARKS
	LF	SQFT	
"A" 408 to 407+50 LF	10	210	SEE DETAIL AND DRAINAGE PLANS
"A" 411 to 412 LF	10	340	
TOTAL	20	550	

DUFF COLLECTION AND PLACEMENT

LOCATION	(N) DUFF COLLECTION	(N) DUFF PLACEMENT	DUFF	REMARKS
	SQFT	SQFT	SQFT	
"A" 408 to 407+50 LF	500	500	500	SEE DETAIL AND DRAINAGE PLANS PLACE DUFF IN DISTURBED SOIL AREAS.
"A" 411 to 412 LF	700	700	700	
TOTAL	1200	1200	1200	

EROSION CONTROL LEGEND

ECL-1

CALCULATED-DESIGNED BY: JESSICA BAILEY
CHECKED BY: PATRICK BOLGER
REVISED BY
DATE REVISED

SENIOR LANDSCAPE ARCHITECT: SCOTT DOWLAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE

LAST REVISION: DATE PLOTTED => 11-MAR-2021 TIME PLOTTED => 12:41
00-00-00

BORDER LAST REVISED 7/2/2010

USERNAME => s125555
DGN FILE => 0516000081st001-ECL-EC.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1502

PROJECT NUMBER & PHASE 0516000081

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	??	??

REGISTERED ELECTRICAL ENGINEER DATE

XX-XX-XX
PLANS APPROVAL DATE

HASHIM KHALID
No. 18054
Exp. 06/30/23
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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

NOTES:

1. OVERHEAD ENTRANCE CONDUIT FITTING MUST FORM A DRIP LOOP AT ENTRANCE FITTING.
2. ESTABLISH CONTINUOUS GROUND WITH SYSTEM GROUND TO ALL METAL PARTS IN SYSTEM BY BONDING JUMPERS AND CONDUITS.
3. SIGNS SHOWN ARE "CONSTRUCTION AREA SIGNS". SEE TRAFFIC HANDLING PLANS FOR DETAILS.

ABBREVIATIONS:

VIDA - VIDEO IMAGE DETECTION ASSEMBLY
UPS - UNINTERRUPTIBLE POWER SUPPLY
ATS - AUTOMATIC TRANSFER SWITCH
TSS - TEMPORARY SIGNAL SYSTEM

LEGEND: (SHEETS E-2, E-3 AND E-4)

[1] POWER FOR TSS SHALL BE PROVIDED BY GENERATOR WITH A BACKUP GENERATOR, SEE DETAIL H ON SHEET ED-3.

[2] DEPARTMENT-FURNISHED MODEL 170 CONTROLLER ASSEMBLY. YOU MUST FURNISH AND INSTALL UPS, VIDA EQUIPMENT AND TEMPORARY FOUNDATION PLATFORM FOR MODEL 332L CABINET PER DETAIL D ON SHEET ED-2.

[3] FOR DETECTOR LOOP INSTALLATION, SEE DETAIL A ON SHEET ED-1.

[4] DETECTOR LOOP MUST HAVE 5 TURNS.

[5] INSTALL GROUND ELECTRODE IN PB.

[6] TEMPORARY WOOD POLE, SEE DETAIL C ON SHEET ED-1.

[7] TEMPORARY WOOD POLE WITH FB, SEE DETAIL B ON SHEET ED-1.

[8] TEMPORARY WOOD POST WITH SERVICE ENCLOSURE, SEE DETAIL G ON SHEET ED-3.

[9] TEMPORARY WOOD POLES WITH SIGNAL EQUIPMENT ON SPAN WIRE, SEE DETAIL E ON SHEET ED-2.

[10] TEMPORARY WOOD POLE WITH SIGNAL EQUIPMENT, SEE DETAIL F ON SHEET ED-2.

[11] TEMPORARY WOOD POLES WITH VIDA SENSOR.

CONDUIT RUNS:

(1) 1½"C, 3#4, 1#8 (G)

(2) 1½"C, 2#6 (Sig), 2#8 (Ltg), 2#10 (FB E), 2#10 (FB W)

(3) 1½"C, 2#6 (Sig), 4 DLC, 3-5CSC, 1-VIDA CABLE

(4) 2"C, 4 DLC, 2#8 (Ltg), 3-5CSC, 2#10 (FB E), 2#10 (FB W), 1-VIDA CABLE

(5) 2"C, 3 DLC, 2#8 (Ltg), 3-5CSC, 2#10 (FB E), 1-VIDA CABNLE

SYMBOLS:

Y Y — TEMPORARY WOOD POLE WITH FB.

TEMPORARY WOOD POLES WITH SIGNAL EQUIPMENT ON SPAN WIRE.

TEMPORARY WOOD POLE WITH SIGNAL EQUIPMENT.

TEMPORARY WOOD POLE.

TEMPORARY WOOD POST WITH TYPE A SERVICE.

OH — OVERHEAD BUNDLE, (CONDUCTORS AS NOTED)

TEMPORARY 6' CL-6 FENCE WITH 4' GATE.

G — FUEL LINE.

G — GENERATOR WITH A GENERATOR BACKUP AND TRANSFER SWITCH.

FUEL — FUEL TANK.

TEMPORARY SIGNAL SYSTEMS
E-1

APPROVED FOR ELECTRICAL WORK ONLY

SCALE 1"=20'

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: HASHIM MOHAMED KHALID
CHECKED BY: DANIEL VO
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-ELECTRICAL DESIGN

LAST REVISION 11-16-21
DATE PLOTTED => 11/18/2021
TIME PLOTTED => 1:33:27 PM

BORDER LAST REVISED 7/2/2010
USERNAME =>
DGN FILE => ...\CesarFiles\0516000081ua001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1515
PROJECT NUMBER & PHASE 05180001131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	??	??

REGISTERED ELECTRICAL ENGINEER DATE

XX-XX-XX
PLANS APPROVAL DATE

HASHIM KHALID No. 18054 Exp. 06/30/23 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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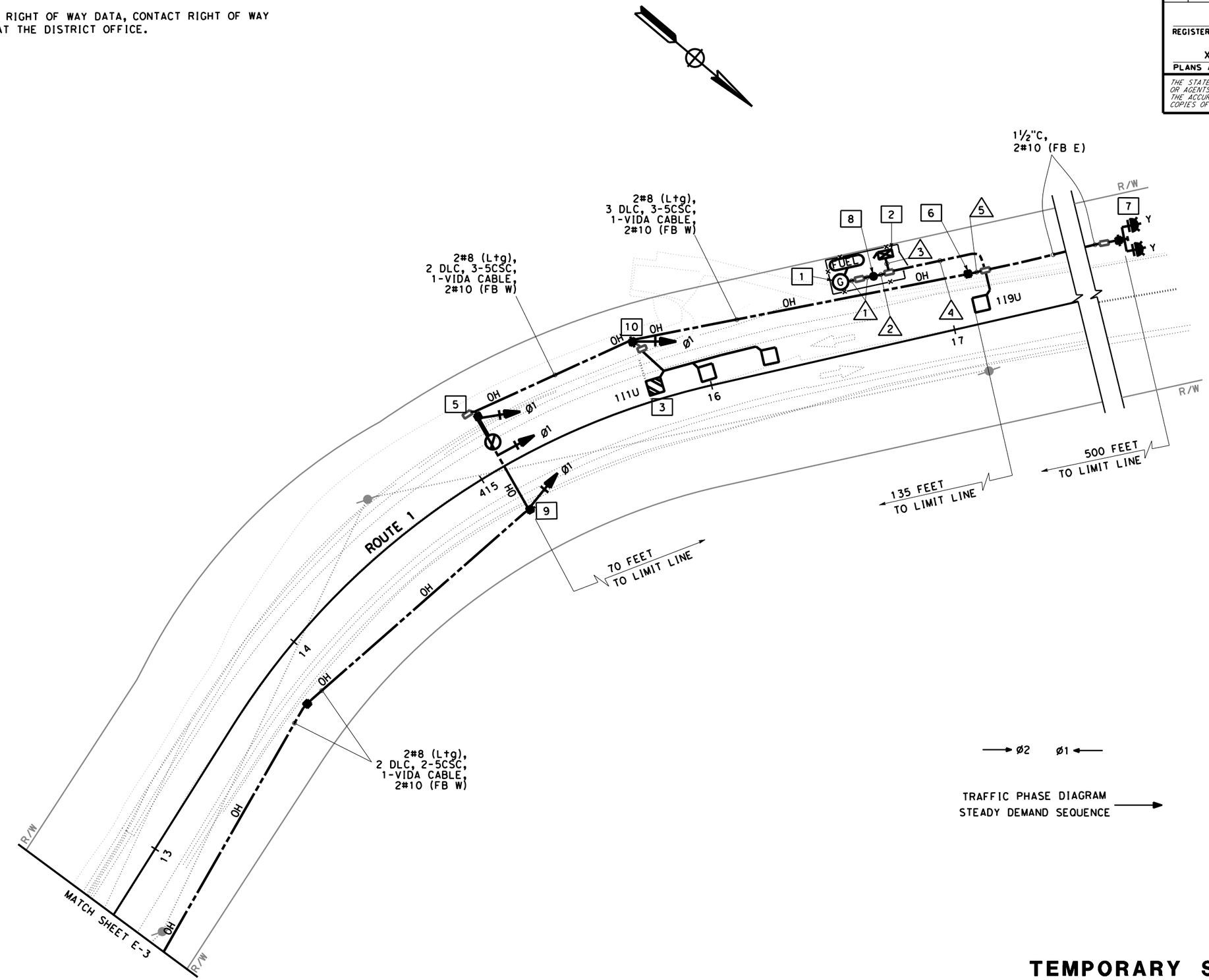

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SCALE 1"=20'

TEMPORARY SIGNAL SYSTEMS
E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: HASHIM MOHAMED KHALID
CHECKED BY: PAUL MATOS
REVISED BY
DATE REVISED

LAST REVISION 11-16-21
DATE PLOTTED => 11/18/2021
TIME PLOTTED => 1:40:04 PM

BORDER LAST REVISED 7/2/2010
USERNAME =>
DGN FILE => ...\CesarFiles\0516000081ua002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1515
PROJECT NUMBER & PHASE 05180001131

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	??	??

REGISTERED ELECTRICAL ENGINEER — DATE

HASHIM KHALID
No. 18054
Exp. 06/30/23
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

XX-XX-XX
PLANS APPROVAL DATE

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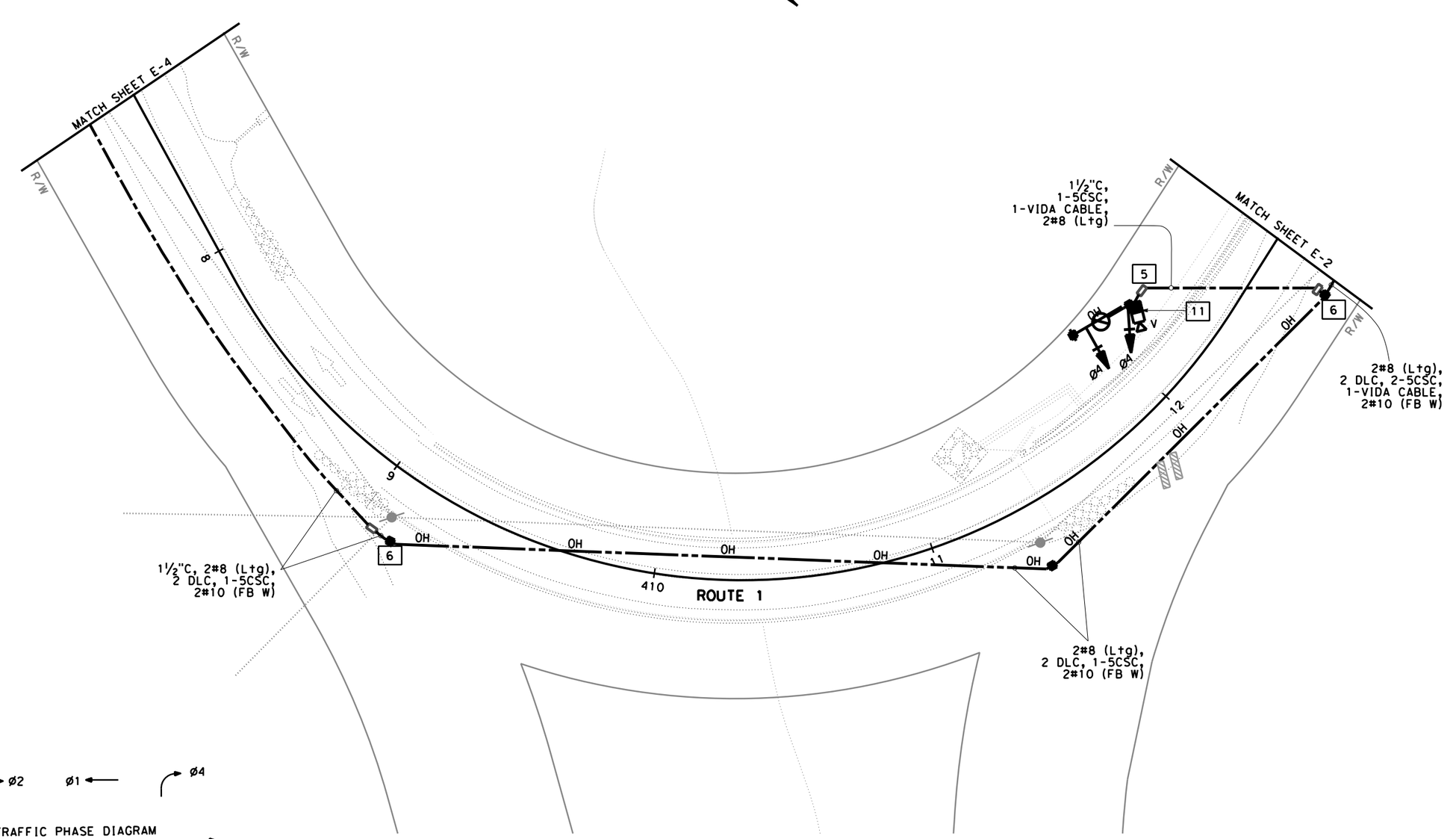

→ Ø2 Ø1 ← ↷ Ø4

TRAFFIC PHASE DIAGRAM
STEADY DEMAND SEQUENCE →

TEMPORARY SIGNAL SYSTEMS
E-3

APPROVED FOR ELECTRICAL WORK ONLY

SCALE 1"=20'

CALCULATED-DESIGNED BY: HASHIM MOHAMED KHALID
CHECKED BY: PAUL MATOS
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-ELECTRICAL DESIGN

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LAST REVISION 11-16-21
DATE PLOTTED => 11/18/2021
TIME PLOTTED => 1:40:45 PM

BORDER LAST REVISED 7/2/2010
USERNAME =>
DGN FILE => ...\CesarFiles\0516000081ua003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1515
PROJECT NUMBER & PHASE 05180001131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	??	??

REGISTERED ELECTRICAL ENGINEER — DATE

HASHIM KHALID
No. 18054
Exp. 06/30/23
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

XX-XX-XX
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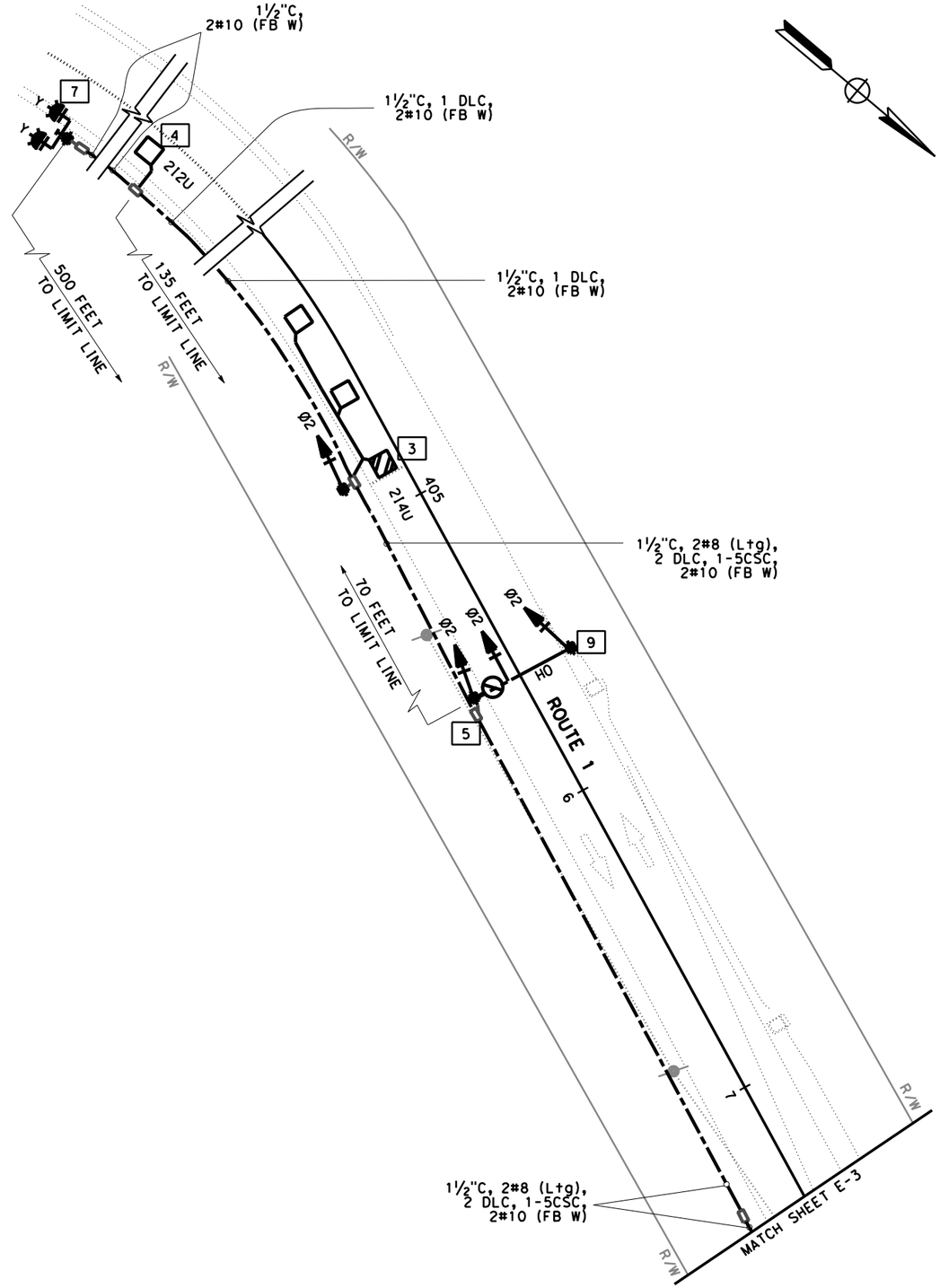


→ Ø2 Ø1 ←

TRAFFIC PHASE DIAGRAM
STEADY DEMAND SEQUENCE →

APPROVED FOR ELECTRICAL WORK ONLY

SCALE 1"=20'

TEMPORARY SIGNAL SYSTEMS
E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ® 06-ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: HASHIM MOHAMED KHALID
CHECKED BY: PAUL MATOS
REVISED BY | DATE REVISED

LAST REVISION 11-16-21 | DATE PLOTTED => 11/18/2021 | TIME PLOTTED => 1:42:03 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => ...\CesarFiles\0516000081ua004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1515 | PROJECT NUMBER & PHASE 05180001131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	??	??

REGISTERED ELECTRICAL ENGINEER — DATE

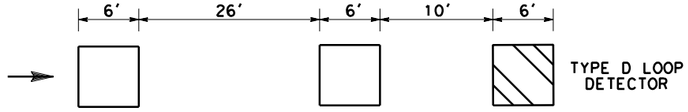
XX-XX-XX

PLANS APPROVAL DATE

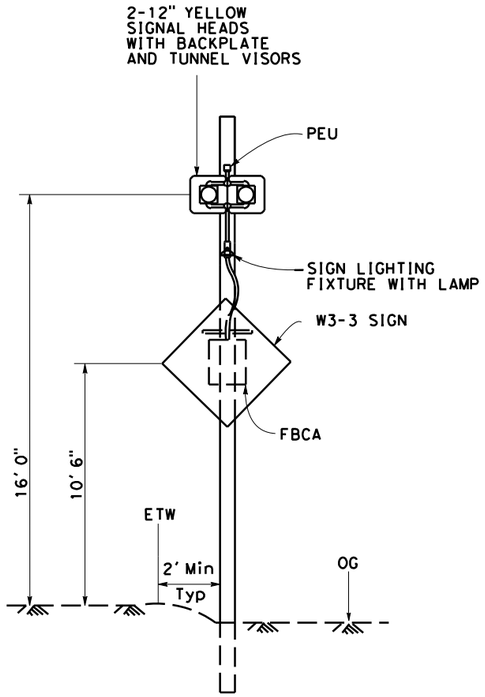
HASHIM KHALID No. 18054 Exp. 06/30/23 ELECTRICAL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

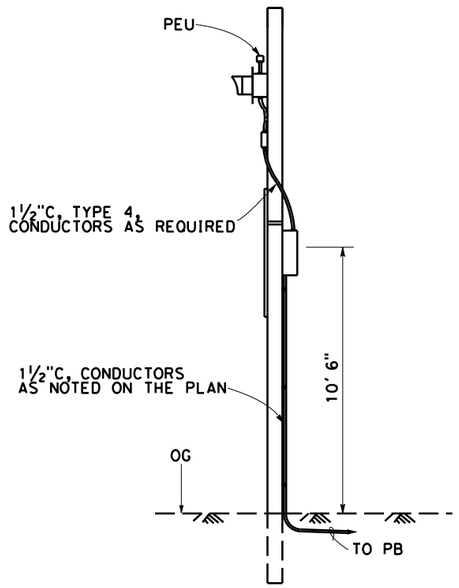
NOTE:
SEE SES PLANS FOR TEMPORARY WOOD POLE DETAILS.



DETECTOR LOOP INSTALLATION
DETAIL A

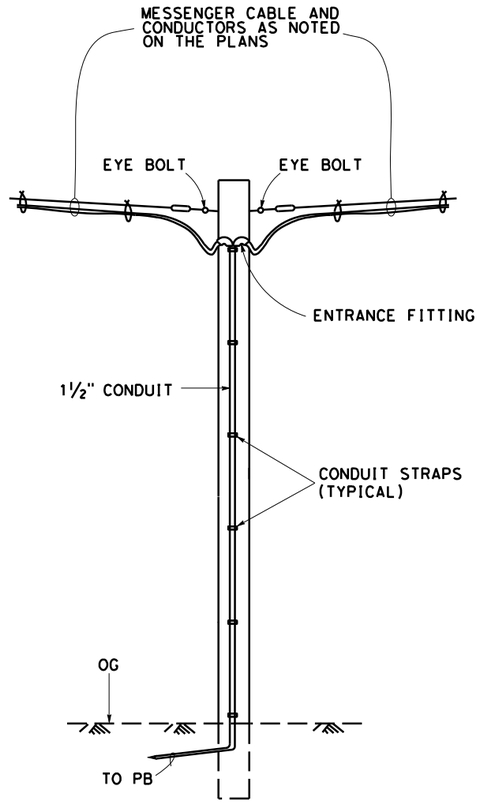


FRONT VIEW



SIDE VIEW

TEMPORARY WOOD POLE WITH FB
DETAIL B



TEMPORARY WOOD POLE
DETAIL C

ELECTRICAL SYSTEMS DETAILS
ED-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-ELECTRICAL DESIGN
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: HASHIM MOHAMED KHALID
CHECKED BY: PAUL MATOS
REVISED BY | DATE REVISED

LAST REVISION 11-16-21
DATE PLOTTED => 11/18/2021
TIME PLOTTED => 1:43:06 PM

BORDER LAST REVISED 7/2/2010
USERNAME =>
DGN FILE => ...\CesarFiles\0516000081ub001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1515
PROJECT NUMBER & PHASE 05180001131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	??	??

REGISTERED ELECTRICAL ENGINEER DATE

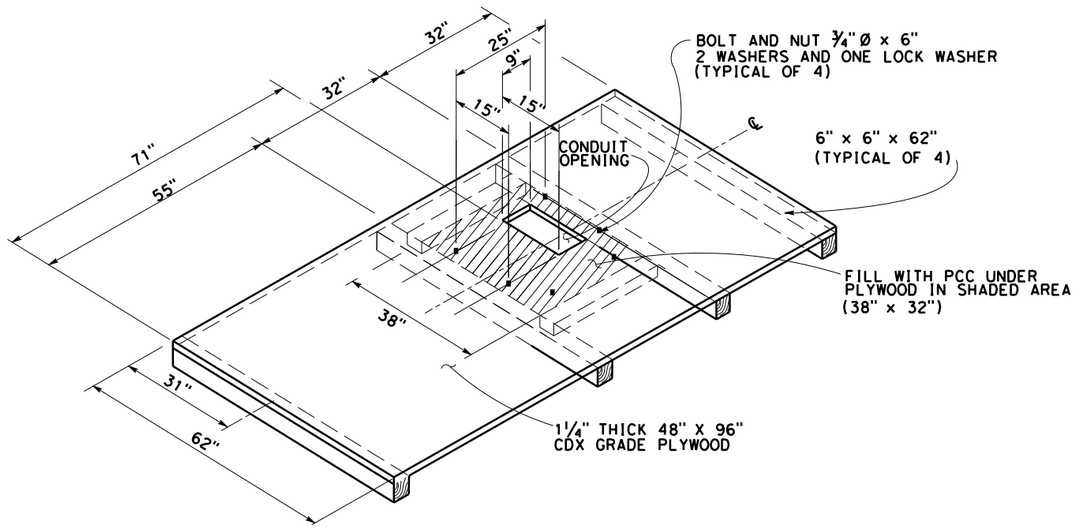
XX-XX-XX
PLANS APPROVAL DATE

HASHIM KHALID
No. 18054
Exp. 06/30/23
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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

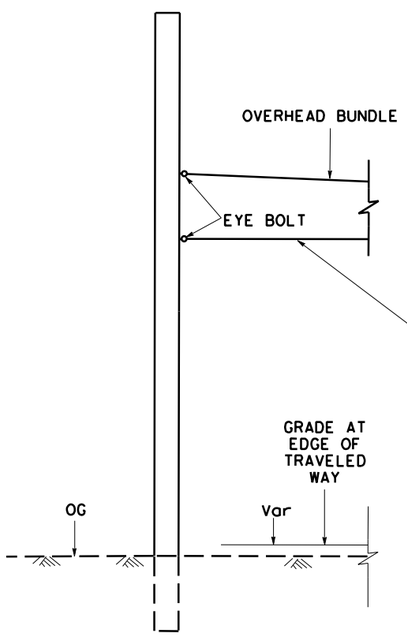
NOTE:

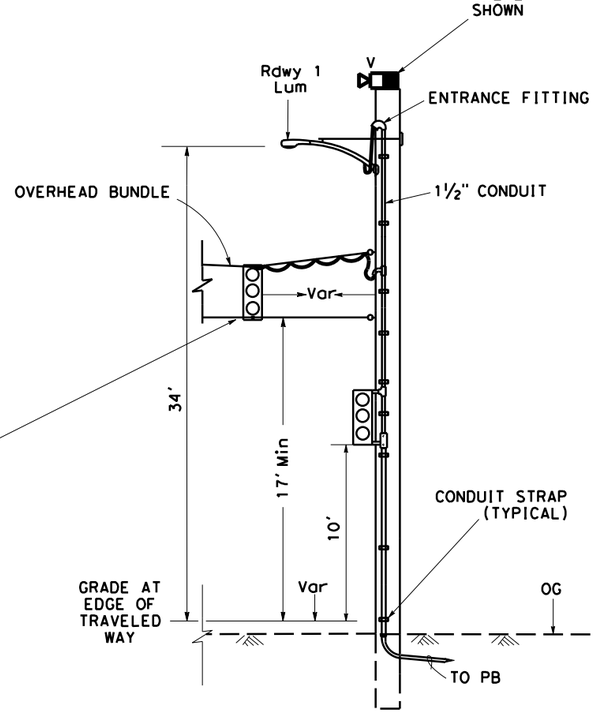
SEE SES PLANS FOR TEMPORARY WOOD POLE DETAILS.



TEMPORARY FOUNDATION PLATFORM FOR MODEL 332L CABINET

DETAIL D

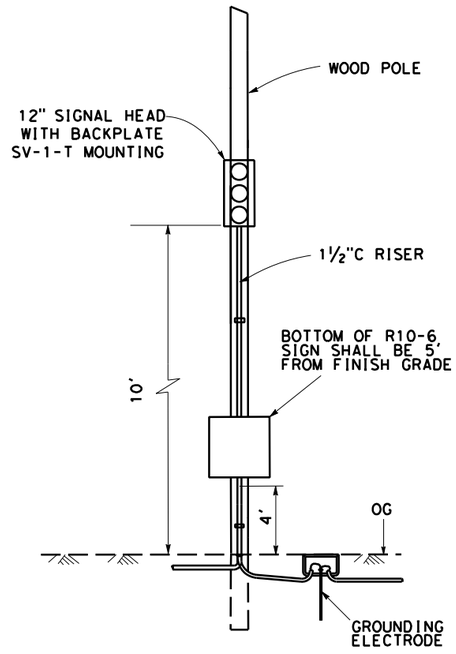




TETHER CABLE
STRANDED GALVANIZED STEEL WIRE

TEMPORARY WOOD POLES WITH SIGNAL EQUIPMENT ON SPAN WIRE

DETAIL E



TEMPORARY WOOD POLE SIGNAL

DETAIL F

ELECTRICAL SYSTEMS DETAILS ED-2

NO SCALE

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
HASHIM MOHAMED KHALID	PAUL MATOS		

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-ELECTRICAL DESIGN

LAST REVISION DATE PLOTTED => 11/18/2021
TIME PLOTTED => 11:43:51 PM
11-16-21

BORDER LAST REVISED 7/2/2010

USERNAME =>
DGN FILE => ...\CesarFiles\0516000081ub002.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1515

PROJECT NUMBER & PHASE 05180001131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	??	??

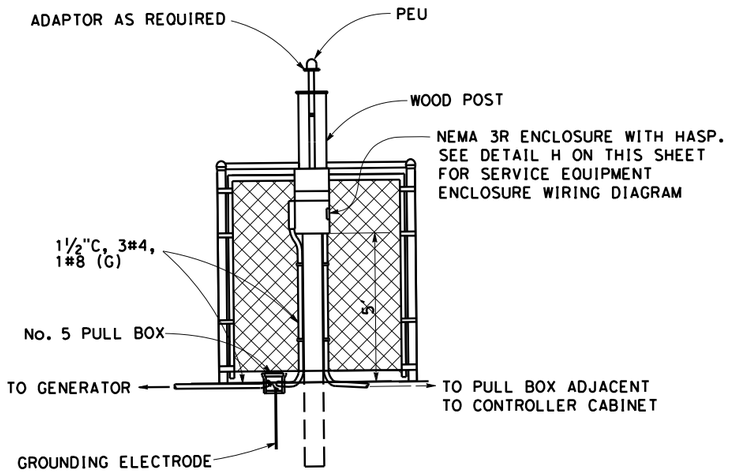
REGISTERED ELECTRICAL ENGINEER DATE

XX-XX-XX
PLANS APPROVAL DATE

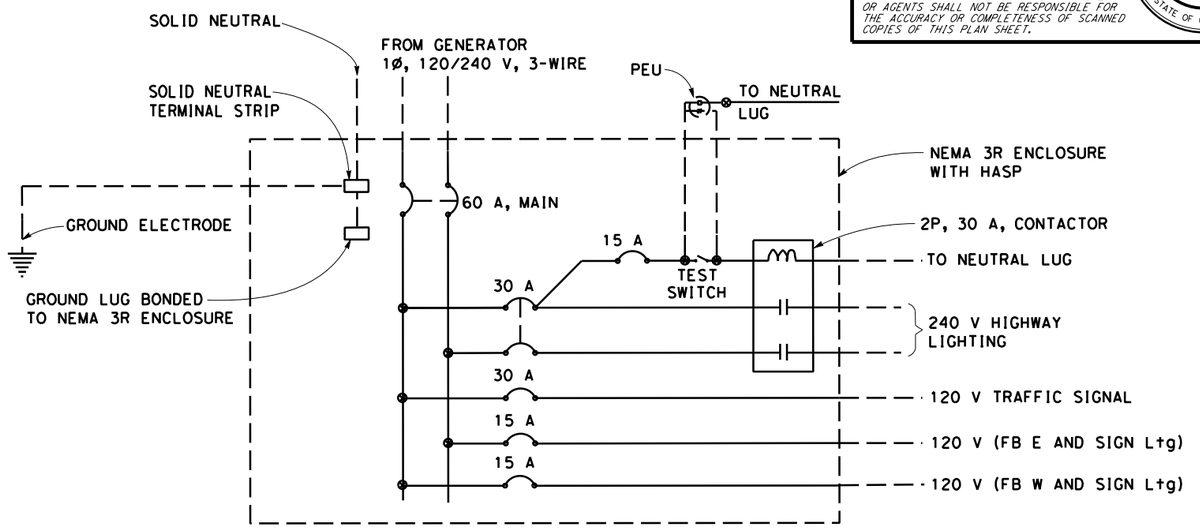
REGISTERED PROFESSIONAL ENGINEER — HASHIM KHALID — No. 18054 — Exp. 06/30/23 — ELECTRICAL — STATE OF CALIFORNIA

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

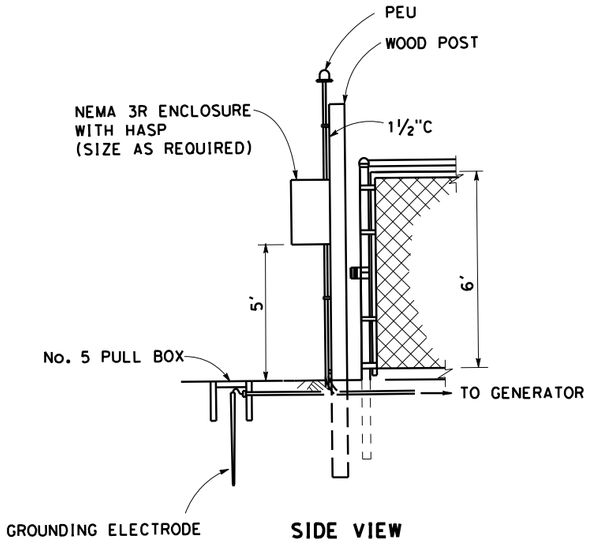
NOTE:
SEE SES PLANS FOR TEMPORARY WOOD POLE DETAILS.



FRONT VIEW

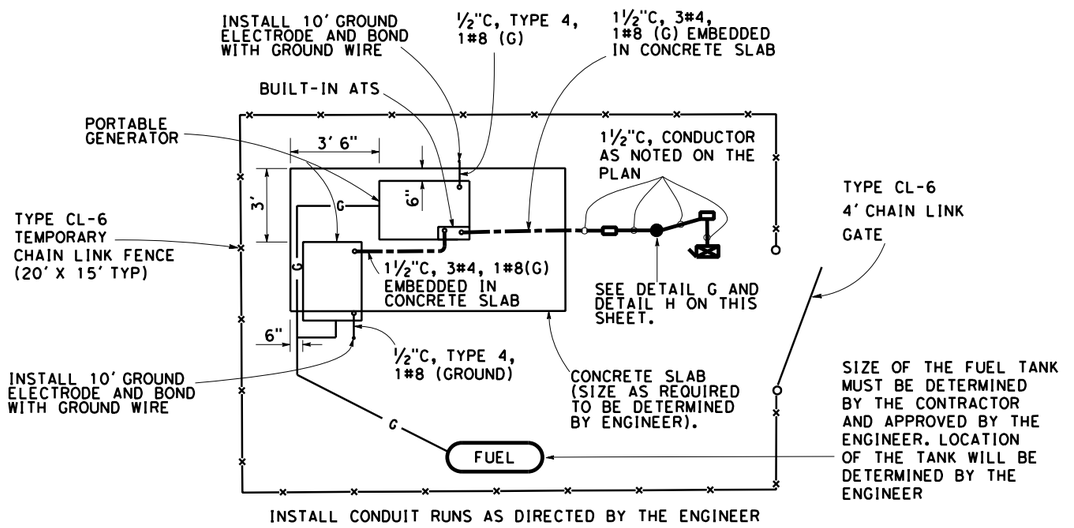


SERVICE EQUIPMENT ENCLOSURE WIRING DIAGRAM



SIDE VIEW

SERVICE EQUIPMENT ENCLOSURE ON WOOD POLE
DETAIL G



GENERATOR WITH BACKUP GENERATOR
DETAIL H

ELECTRICAL SYSTEMS DETAILS

NO SCALE

ED-3

LAST REVISION 11-16-21 — DATE PLOTTED => 11/18/2021 — TIME PLOTTED => 1:46:57 PM

CALCULATED-DESIGNED BY: HASHIM MOHAMED KHALID
CHECKED BY: PAUL MATOS
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
REVISED BY | DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-ELECTRICAL DESIGN

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => ...\CesarFiles\0516000081ub003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1515 | PROJECT NUMBER & PHASE 05180001131

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	??	??

REGISTERED ELECTRICAL ENGINEER DATE

XX-XX-XX
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASHIM KHALID
No. 18054
Exp. 06/30/23
ELECTRICAL
STATE OF CALIFORNIA

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

NOTE:

FOR INFORMATION ONLY. ELECTRICAL SYSTEMS QUANTITY TABLES SUMMARIZE SIGNIFICANT COMPONENTS.
SEE ELECTRICAL SYSTEMS PLANS AND SPECIFICATIONS TO DETERMINE ALL MATERIALS NEEDED FOR EACH SYSTEM.

TEMPORAY SIGNAL SYSTEMS

SHEET No.	1½"C, TYPE 3	2"C, TYPE 3	No. 4 CONDUCTOR	No. 6 CONDUCTOR	No. 8 CONDUCTOR	No. 10 CONDUCTOR	No. 8 (G) CONDUCTOR	5CSC	DLC	OVERHEAD BUNDLE	VIDA CABLE	TYPE CL-6 TEMPORARY CHAIN LINK FENCE	TYPE A DETECTOR LOOP	TYPE D DETECTOR LOOP	MODEL 334L CABINET	TEMPORAY WOOD POLE WITH FB EQUIPMENT	TEMPORAY WOOD POLE WITH Sig EQUIPMENT
	LF												EA				
E-2	400	40	60	40	1120	2000	900	1100	1300	500	540	100	4	1	1	1	1
E-3	60				1120	1120	560	560	1120	560	80						
E-4	760				350	1500	760	180	640				4	1		1	

TEMPORAY SIGNAL SYSTEMS

SHEET No.	GENERATOR	VIDA SENSOR	VIDA EQUIPMENT	VIDA CABLE	No. 5 PB	TEMPORAY WOOD POLE WITH Sig EQUIPMENT ON SPAN	TEMPORAY WOOD POLE WITH FB	TEMPORAY WOOD POLE
	EA							
E-2	2		1		6	1	1	6
E-3		1			3	1		3
E-4					5	1	1	

ELECTRICAL SYSTEMS QUANTITIES
EQ-1

CALCULATED-DESIGNED BY	HASHIM MOHAMED KHALID	REVISED BY	
CHECKED BY	PAUL MATOS	DATE REVISED	
FUNCTIONAL SUPERVISOR	ALI BAKHDOUD		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

LAST REVISION 11-16-21
DATE PLOTTED => 11/18/2021
TIME PLOTTED => 1:47:37 PM

BORDER LAST REVISED 7/2/2010 | USERNAME => | DGN FILE => ...\CesarFiles\0516000081uc001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1515 | PROJECT NUMBER & PHASE | 05180001131

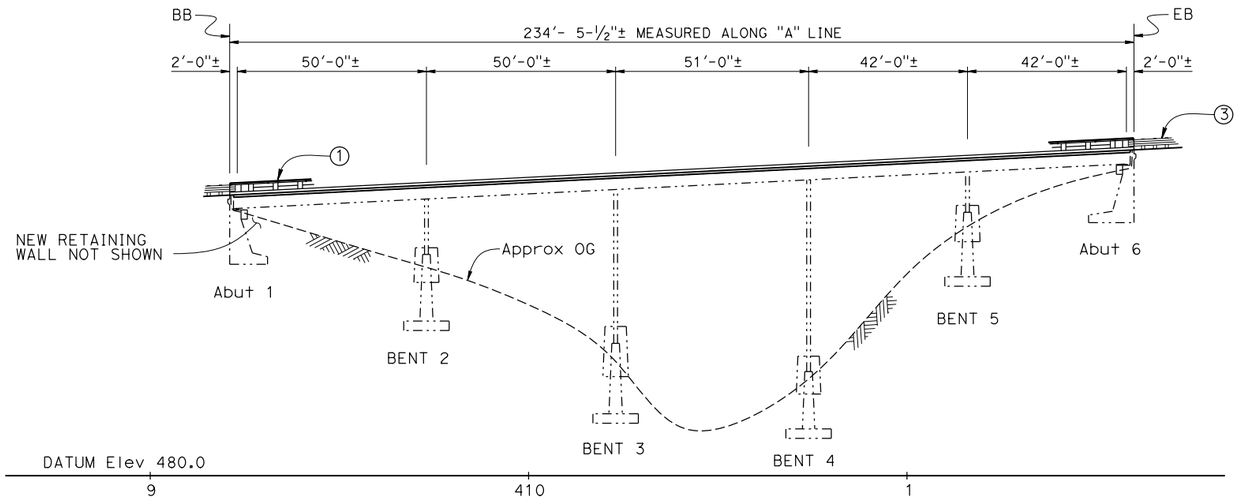
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

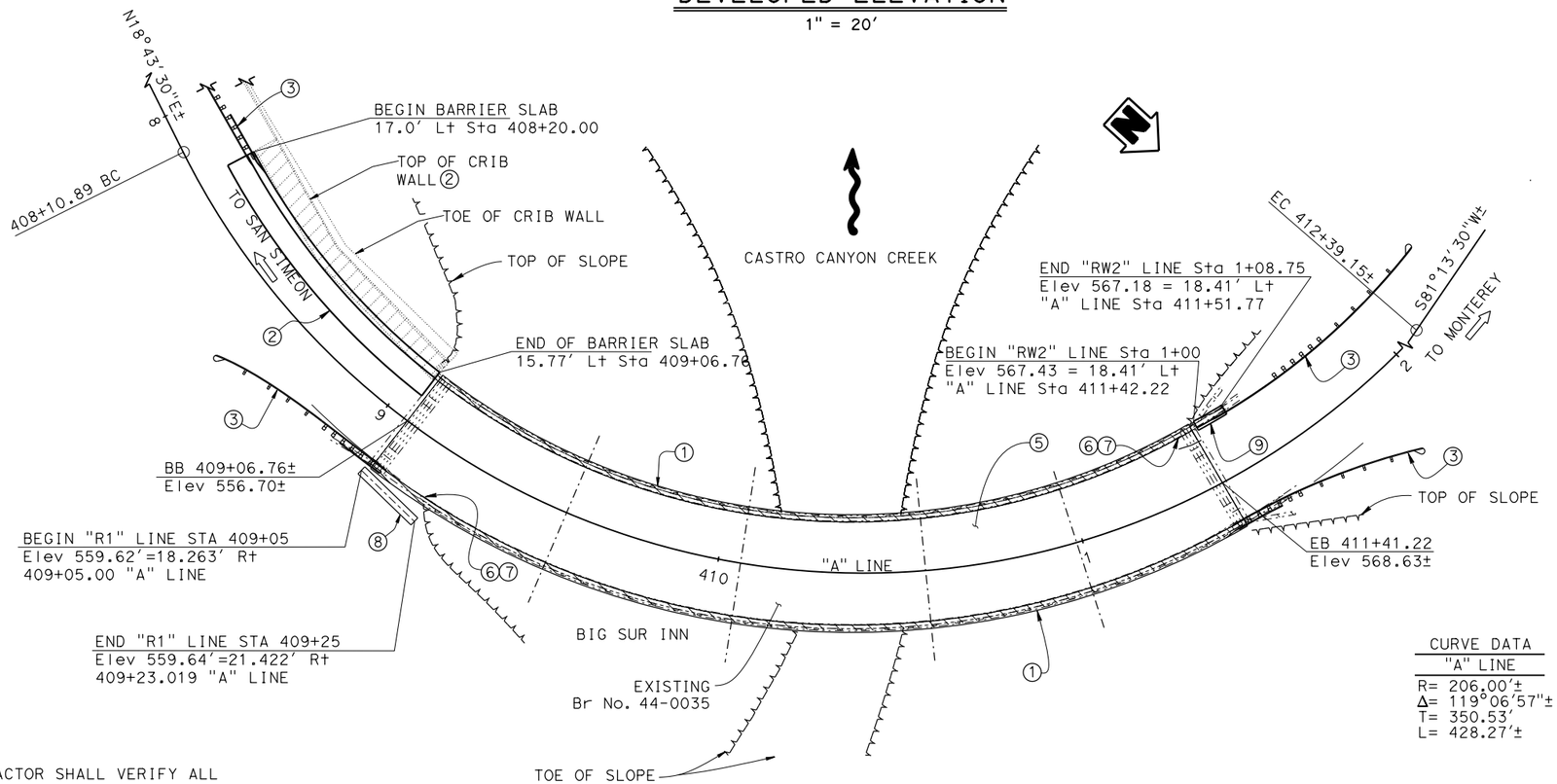
REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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



DEVELOPED ELEVATION

1" = 20'



CURVE DATA
"A" LINE
R= 206.00'±
Δ= 119°06'57"±
T= 350.53'
L= 428.27'±

PLAN

1" = 20'

LEGEND:
- Indicates existing structure
- Indicates Crib Wall Removal
- Indicates Barrier Rail and Curb removal

NOTES:

① Remove existing concrete curb and timber rail, and replace with concrete barrier Type 85 with tubular bicycle railing, existing reinforcement to remain.

② Remove existing crib wall and K-Rail(not shown), replace with Type 85 barrier on barrier slab, see "BARRIER SLAB" sheet

③ End treatment by District, see "ROADWAY PLANS".

④ New Retaining wall, see "SECANT WALL" sheets.

⑤ Place 3/4" polyester concrete overlay over Exist deck.

⑥ Paint: Br. No. 44-0035

⑦ Paint: CASTRO CANYON BRIDGE

⑧ Soldier Pile wall with timber lagging, concrete coping and cable railing, see "SOLDIER PILE WALL" sheets.

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

MIKE POPE
BRANCH CHIEF

DESIGN	BY Rene Coria	CHECKED Minh Tran	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING HL93 W/"LOW-BOY" & PERMIT DESIGN VEHICLE	
DETAILS	BY Mohammad Sharif	CHECKED Minh Tran	LAYOUT	BY Rene Coria	CHECKED Minh Tran
QUANTITIES	BY Rene Coria	CHECKED Minh Tran	SPECIFICATIONS	BY X	PLANS AND SPECS COMPARED X

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGEX
GENERAL PLAN

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REVISION 10/20/2020)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:03
FILE => 44-0035-a-gp-01 gp.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081K
CONTRACT No.: 05-1H490K

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/14/21				1	17

GENERAL NOTES

DESIGN:
AASHTO LRFD Bridge Design Specifications, 8th Edition with California Amendments.

REINFORCED CONCRETE:
fy = 60 ksi
fy = 60 ksi (Exist Reinf)
$f'c$ = 4.0 ksi, Deck Concrete shall be Structural Concrete, Bridge (Polymer Fiber)
n = 8

SEISMIC LOADING:
See "ACCELERATION RESPONSE SPECTRA CURVE"
k_h = 0.21

STRUCTURAL TIMBER:
Treated Douglas Fir No. 1 or better

SOIL PARAMETERS:
(For determination of active Design Lateral Earth Pressures of retained soil)
γ = 125 lb/ft^3
Φ = 35°

(For determination of passive Design Lateral Earth Pressures in front of wall below FG)
γ= 130 lb/ft^3
Φ= 40°

SOLDIER PILES:
fy = 50 ksi

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	INDEX TO PLANS
3	FOUNDATION PLAN
4	BARRIER DETAILS, RIGHT SIDE
5	BARRIER DETAILS, LEFT SIDE
6	ABUTMENT DETAILS
7	SOLDIER PILE WALL LAYOUT
8	SOLDIER PILE WALL DETAILS No. 1
9	SOLDIER PILE WALL DETAILS No. 2
10	SECANT WALL STRUCTURE PLAN
11	SECANT WALL DETAILS
12	JOINT REPLACEMENT DETAILS
13	CONCRETE BARRIER TYPE 85, DETAILS No. 1
14	CONCRETE BARRIER TYPE 85, DETAILS No. 2
15	MISCELLANEOUS DETAILS 1
16	BARRIER SLAB
17	LOG OF TEST BORINGS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

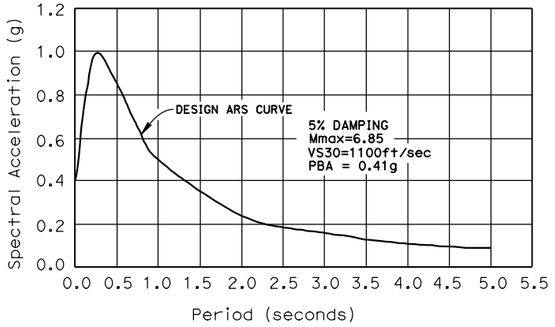
MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — X — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

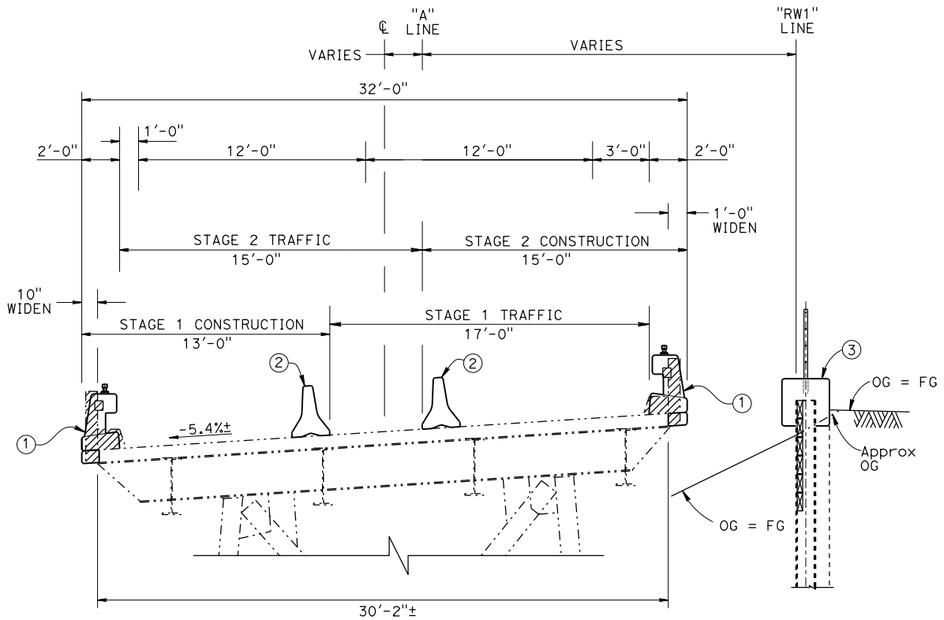
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STANDARD PLANS DATED 2018

DETAIL	DESCRIPTION
A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A10H	LEGEND - ROCK
A77U1	MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS, DETAILS No. 1
A77U2	MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS, DETAILS No. 2
A77U4	MIDWEST GUARDRAIL SYSTEM TRANSITION RAILING (TYPE WB-31)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING=2")
B11-47	CABLE RAILING
RSP B11-83	Concrete Barrier Type 85 Details No. 1
RSP B11-84	Concrete Barrier Type 85 Details No. 2
RSP B11-85	Concrete Barrier Type 85 Details No. 3



SITE SPECIFIC ACCELERATION RESPONSE SPECTRA
NO SCALE



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

STANDARD PLAN SHEET NO.
DETAIL NO.

LEGEND:
Indicates Existing structure
Indicates Bridge Removal (Portion)

NOTES:
① Remove existing concrete curb and timber rail, and replace with concrete barrier Type 85 with tubular bicycle railing, existing reinforcement to remain.
② Temporary Railing (Type K) - see "ROADWAY PLANS"
③ Soldier Pile wall with timber lagging, concrete coping and cable railing, see "SOLDIER PILE WALL" sheets.

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

	BY	CHECKED
DESIGN	Rene Coria	Minh Tran
DETAILS	Mohammad Sharif	Minh Tran
QUANTITIES	Rene Coria	Minh Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE NO. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
INDEX TO PLAN

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:03
FILE => 44-0035-a-itp.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →
REVISION DATES: 10/14/21 10/22/21

SHEET 2 OF 17

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

REGISTERED CIVIL ENGINEER X DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER X No. X Exp. X CIVIL STATE OF CALIFORNIA

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CURVE DATA

No. #	R	Δ	T	L
1	206.00	119°06'57"	350.53	428.27
2	187.59	2° 40' 21"	4.38	8.75
3	150.00	18° 13' 29"	24.06	47.71

SURVEY MONUMENTS SHOWN ON THE FOUNDATION PLAN ARE FOR DESIGN PURPOSES ONLY. FOR COMPLETE LIST OF SURVEY MONUMENTS FOR THIS PROJECT, SEE ROADWAY PLANS.

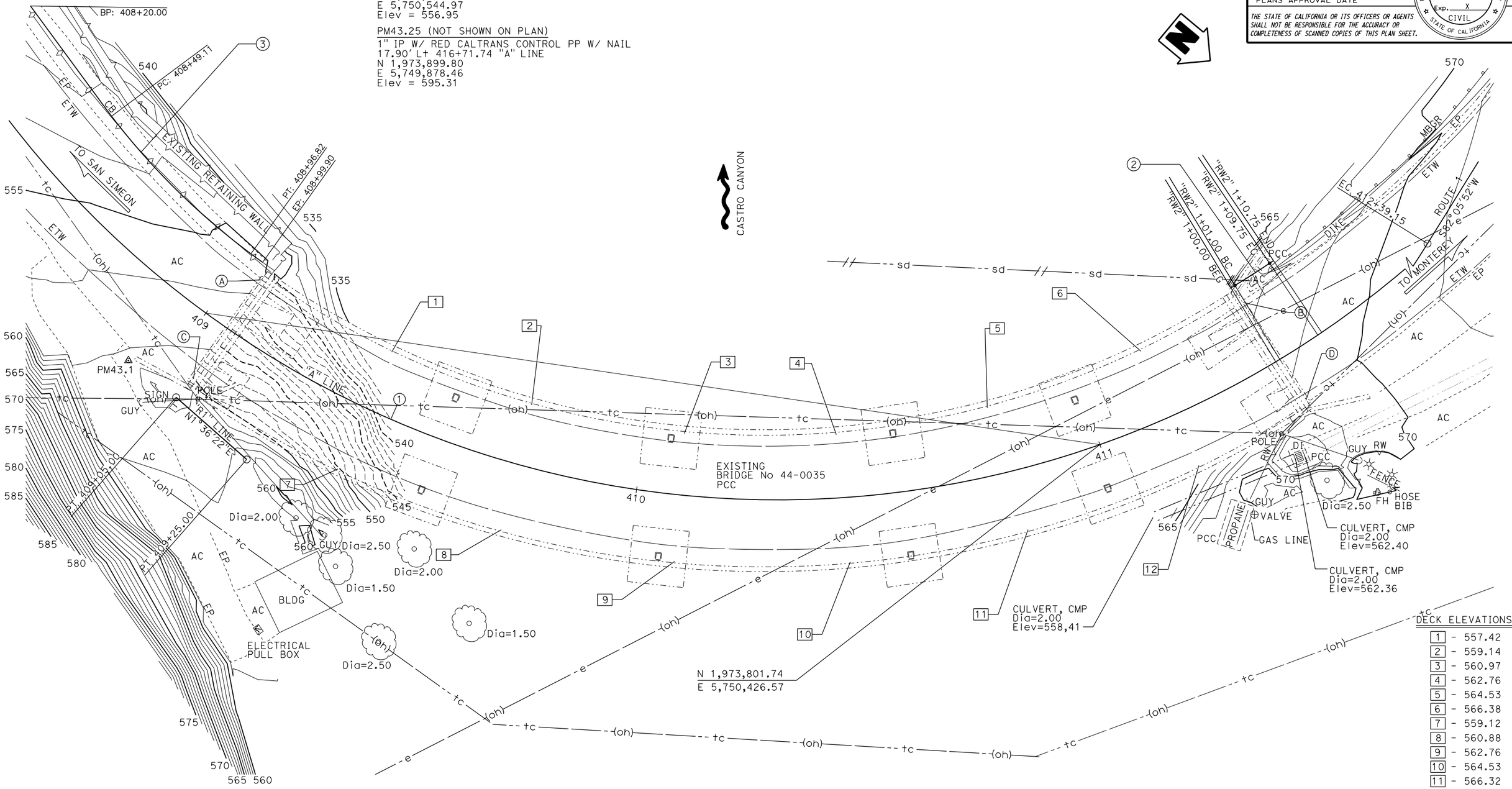
SURVEY CONTROL

PM43.1
1" IP W/ RED CALTRANS CONTROL PP W/ NAIL
17.99' Rt 408+93.24 "A" LINE
N 1,973,631.41
E 5,750,544.97
Elev = 556.95

PM43.25 (NOT SHOWN ON PLAN)
1" IP W/ RED CALTRANS CONTROL PP W/ NAIL
17.90' Lt 416+71.74 "A" LINE
N 1,973,899.80
E 5,749,878.46
Elev = 595.31

EXISTING BRIDGE LOCATION

Ⓐ - 12.66 Ft Lt "A" LINE, Sta 409+05.79, Elev = 555.83±
Ⓑ - 14.38 Ft Lt "A" LINE, Sta 411+42.00, Elev = 567.75±
Ⓒ - 12.98 Ft Rt "A" LINE, Sta 409+05.77, Elev = 557.50±
Ⓓ - 10.32 Ft Rt "A" LINE, Sta 411+42.66, Elev = 569.32±



DECK ELEVATIONS

1	557.42
2	559.14
3	560.97
4	562.76
5	564.53
6	566.38
7	559.12
8	560.88
9	562.76
10	564.53
11	566.32
12	568.16

PRELIMINARY INVESTIGATIONS BRANCH

SCALE:	VERT. DATUM: NAVD88	SURVEYED	BY DISTRICT	CHECKED E. GONZALES
1" = 10'	HORIZ. DATUM: NAD83 (1991.35)	DRAFTED	BY T. ZOLNIKOV	CHECKED L. LEW

	BY	CHECKED
DESIGN	Rene Coria	X
DETAILS	Mohammad Sharif	X
QUANTITIES	Rene Coria	X

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
BRIDGE DESIGN
BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
FOUNDATION PLAN

STRUCTURES FOUNDATION PLAN SHEET (ENGLISH) (REVISION 4/21/2021)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:03
FILE => 44-0035-e-fp101.dgn USERNAME => s151020

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3646
PROJECT NUMBER & PHASE: 05160000811

COUNTY/ROUTE: MON/001
CONTRACT No.: 05-1H4904

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 08/26/21

SHEET 3 OF 17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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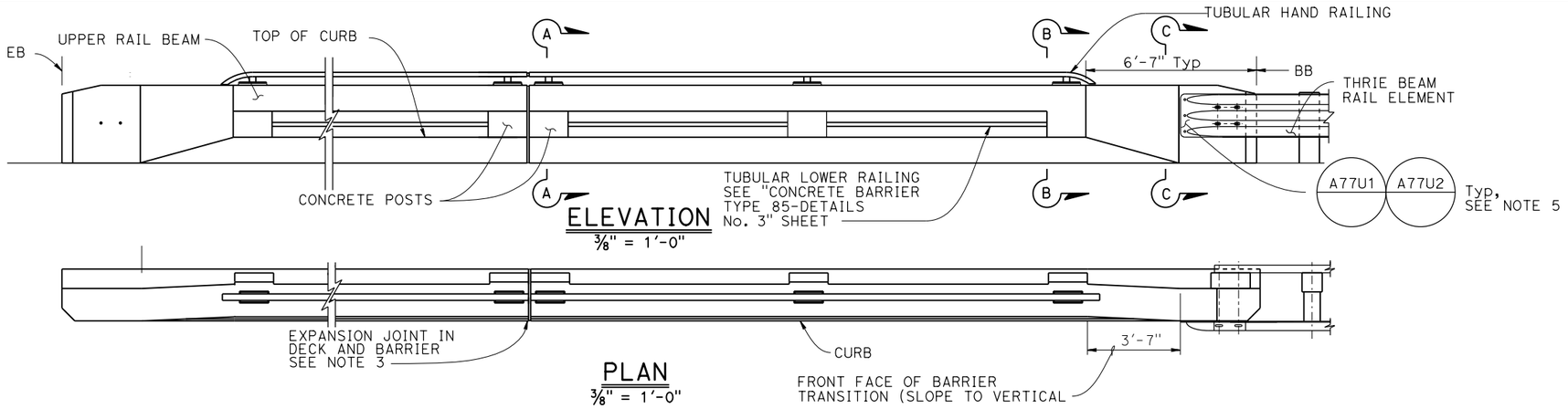
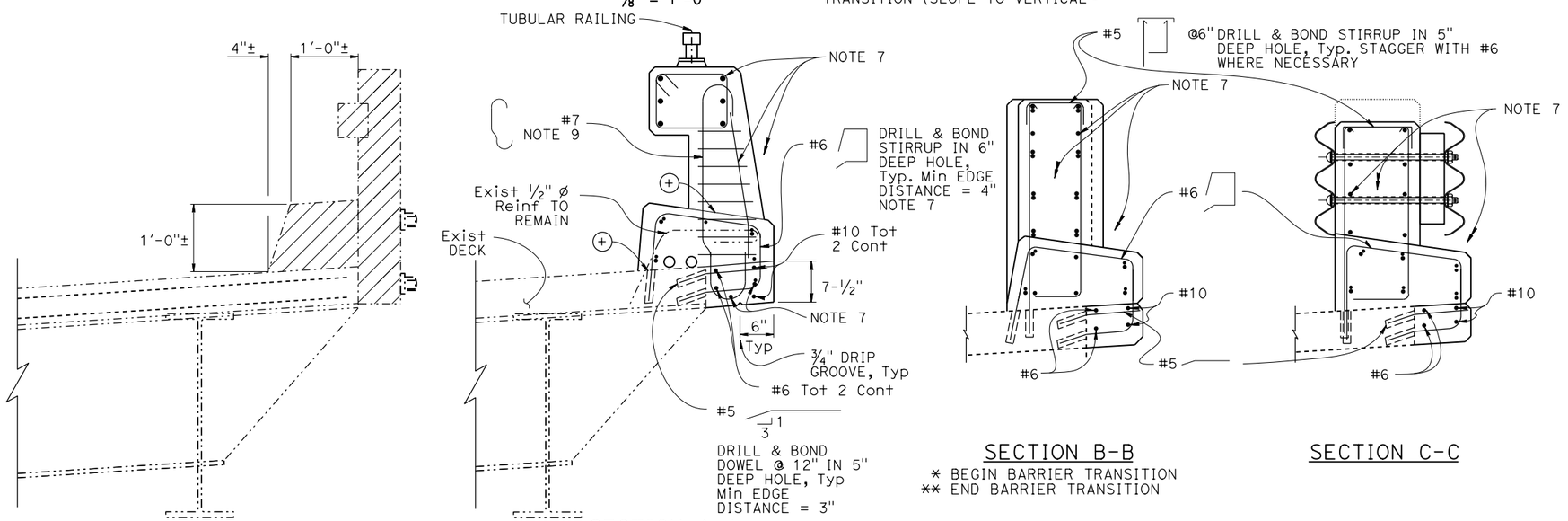


ELEVATION
3/8" = 1'-0"

PLAN
3/8" = 1'-0"

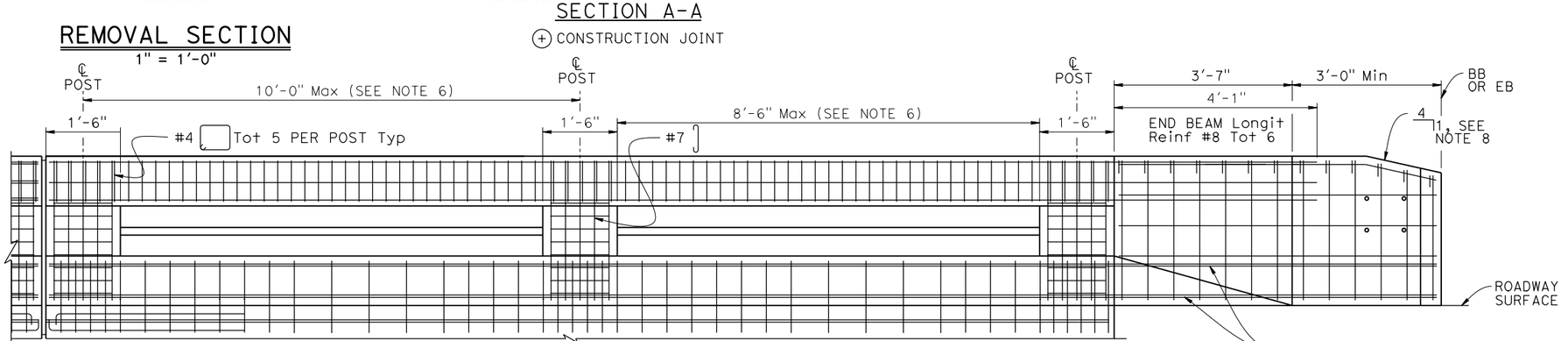


SECTION A-A
⊕ CONSTRUCTION JOINT

SECTION B-B
* BEGIN BARRIER TRANSITION
** END BARRIER TRANSITION

SECTION C-C

REMOVAL SECTION
1" = 1'-0"



LONGITUDINAL SECTION
(Deck reinforcing not shown)

NOTE: For Reinf SHOWN AND NOT NOTED SEE OTHER DETAILS.

LEGEND:
- Indicates Existing structure
- Indicates Bridge Removal (Portion)

NOTES:
1. Longitudinal reinforcing steel to stop at all expansion joints.
2. The front face dimensions are to be constant above the finish roadway profile, but the overall height will vary with certain thicknesses of surfacing and roadway slopes.
3. Expansion joint to match deck joint. See "CONCRETE BARRIER TYPE 85, DETAILS No. 1" sheet for "EXPANSION JOINT DETAIL" and NOTES.
4. Splicing in longitudinal rail reinforcing must be staggered.
5. For typical metal railing connection details not shown, see Standard Plans A77U1 and A77U2.
6. Posts to be spaced equally, typically 10'-0" spacing. Post spacing may be reduced where location of expansion joints or the length of wingwalls will not accommodat the 10'-0" spacing. Maximum see-through availability is to be strived for, where 10'-0" post spacing cannot be achieved.
7. For additional reinforcement details, see "CONCRETE BARRIER TYPE 85-DETAILS No. 1 & 2" sheets.
8. Taper top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam railing element.
9. #7 Rebar may be bent to avoid Exist edge of Deck.

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

	BY	CHECKED
DESIGN	Rene Coria	Minh Tran
DETAILS	Mohammad Sharif	Minh Tran
QUANTITIES	Rene Coria	Minh Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
BARRIER DETAILS, RIGHT SIDE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:04
FILE => 44-0035-f-a01d+01.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081
CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES	SHEET	OF
10/9/21	4	19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — X — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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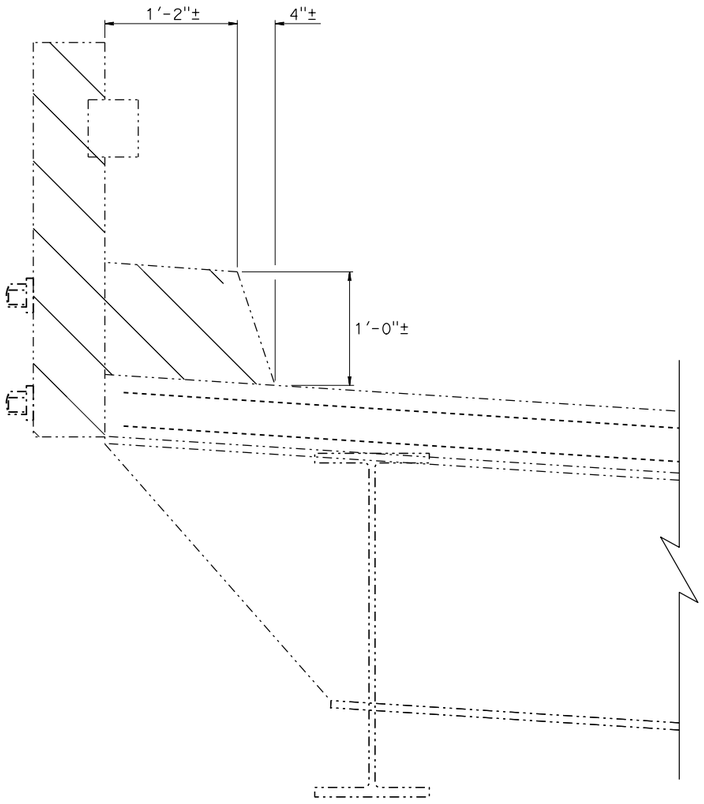
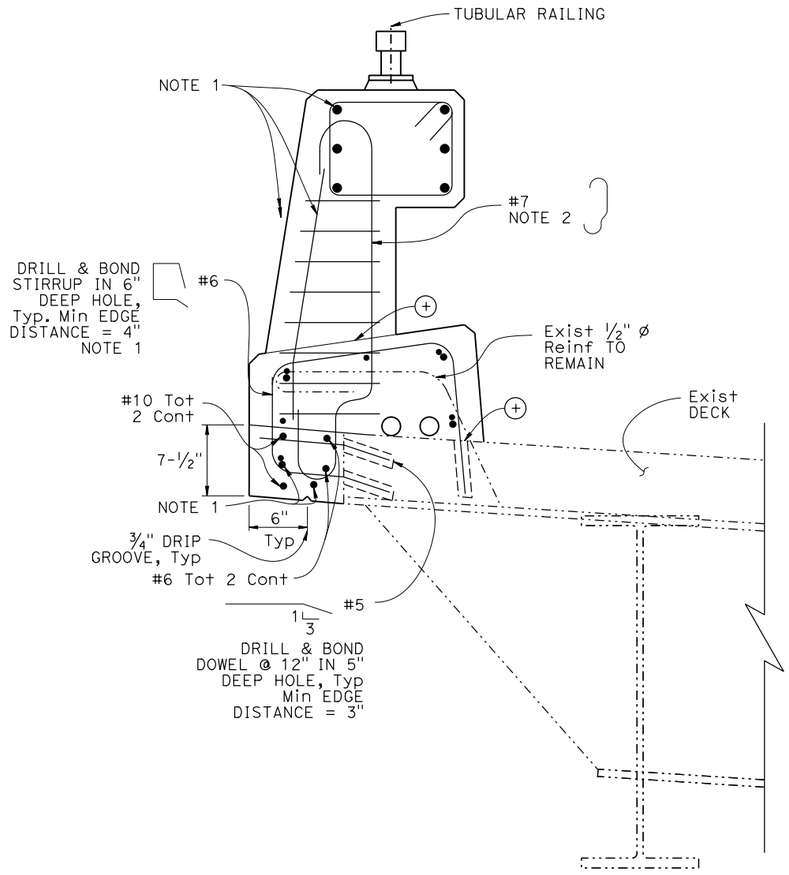


REMOVAL SECTION
1 ½" = 1'-0"



LEFT WIDENING
1 ½" = 1'-0"

LEGEND:
- Indicates Existing structure
- Indicates Bridge Removal (Portion)
- ⊕ CONSTRUCTION JOINT

NOTES:
1. For additional reinforcement details, see "CONCRETE BARRIER TYPE 85-DETAILS No. 1 & 2" sheets.
2. #7 rebar may be bent to avoid existing adge of deck.

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

	BY	CHECKED
DESIGN	Rene Coria	Minh Tran
DETAILS	Mohammad Sharif	Minh Tran
QUANTITIES	Rene Coria	Minh Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
BARRIER DETAILS, LEFT SIDE

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:04
FILE => 44-0035-f-a01d+02.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/9/21				5	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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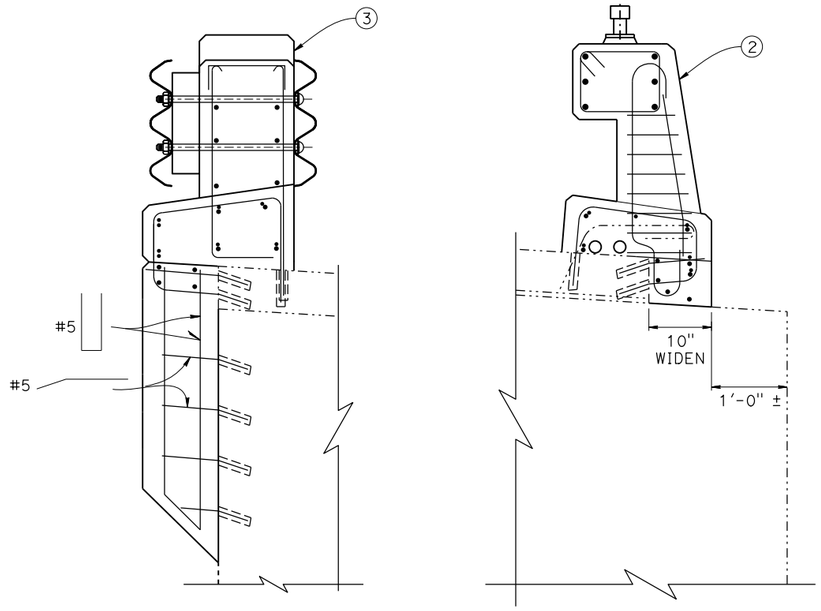
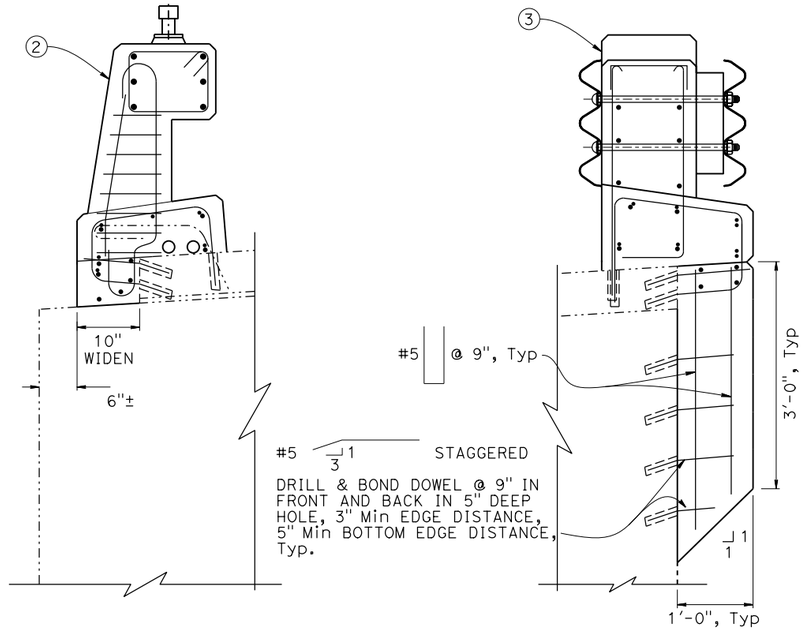


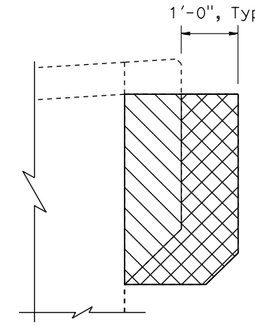
RIGHT — LEFT

RECONSTRUCTION
ABUTMENT 1 ELEVATION
1" = 1'-0"



LEFT — RIGHT

RECONSTRUCTION
ABUTMENT 6 ELEVATION
1" = 1'-0"



LEGEND:

Structure Excavation (Retaining Wall)

Structure Backfill (Retaining Wall)

LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL
3/8" = 1'-0"

LEGEND:

Indicates Existing structure

NOTES:

1. Remove Concrete Curb and Timber Rail.
2. Concrete Barrier Type 85 with tubular bicycle railing, existing reinforcement to remain. See "CONCRETE BARRIER TYPE 85" Sheet for Reinf and additional details.
3. Concrete Barrier Type 85 transition, see "BARRIER DETAILS, RIGHT SIDE" Sheet, "Detail C-C" for Reinf and additional information.
4. For Bridge Removal (Portion) at About, see " BARRIER DETAILS, LEFT SIDE" and "BARRIER DETIALS, RIGHT SIDE" Sheets for "REMOVAL SECTION" Details.

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

	BY	CHECKED
DESIGN	Rene Coria	Minh Tran
DETAILS	Mohammad Sharif	Minh Tran
QUANTITIES	Rene Coria	Minh Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
ABUTMENT DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:04
FILE => 44-0035-f-a01dt03.dgn USERNAME => s151020

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
10/15/21				6	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — DATE X

PLANS APPROVAL DATE — MM/DD/YYYY

REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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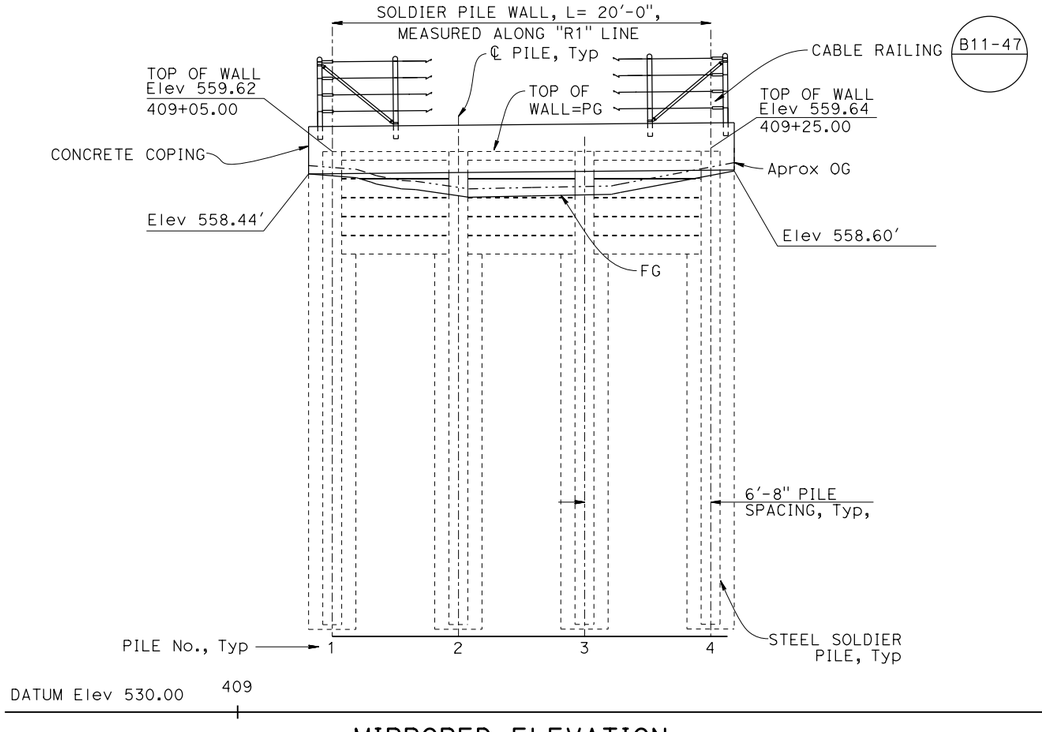
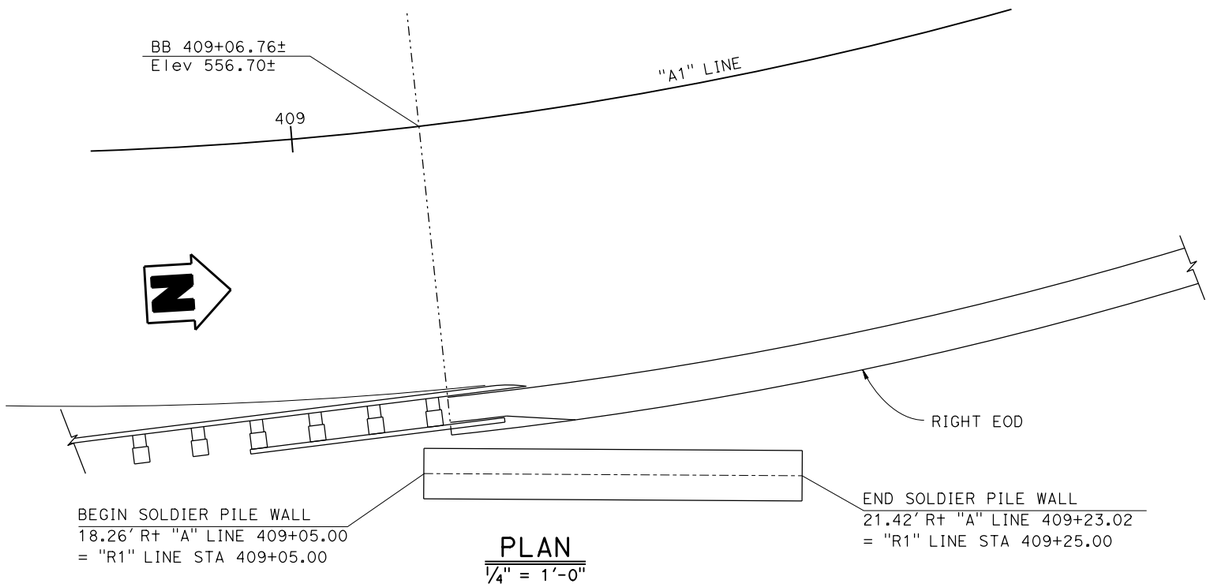


MIRRORED ELEVATION
1/4" = 1'-0"

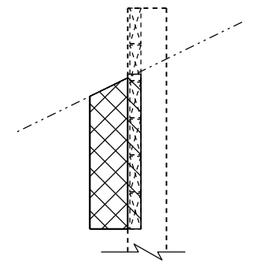


PLAN
1/4" = 1'-0"

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

PILE NO.	1	2	3	4
PILE LENGTH	25	25	25	25
NUMBER OF TIMBER LAGGING BETWEEN PILES	5	5	5	

PILE No.	"R1" LOL STATION	FG Elev	OG Elev ±	TOP OF WALL ELEVATION (ft)
1	409+05.00	558.34	558.88	559.62
2	409+11.67	557.29	557.73	559.63
3	409+18.34	557.33	557.78	559.63
4	409+25.00	558.36	559.04	559.64



LEGEND:

Structure Excavation (Retaining Wall)

Structure Backfill (Retaining Wall)

LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL
3/8" = 1'-0"

LEGEND:

-·-·-·- Denotes Existing

NOTES:

1. See "SOLDIER PILE WALL DETAILS No. 1" sheet for Soldier Pile Typical Section.

DESIGN	BY Rene Coria	CHECKED Minh Tran	
DETAILS	BY Mohammad Sharif	CHECKED Minh Tran	
QUANTITIES	BY Rene Coria	CHECKED Minh Tran	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
SOLDIER PILE WALL LAYOUT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:04
FILE => 44-0035-f-a01d04.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/30/21				7	19

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — X — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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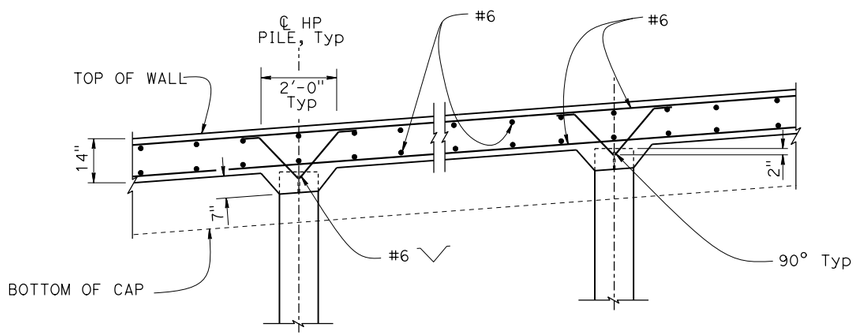
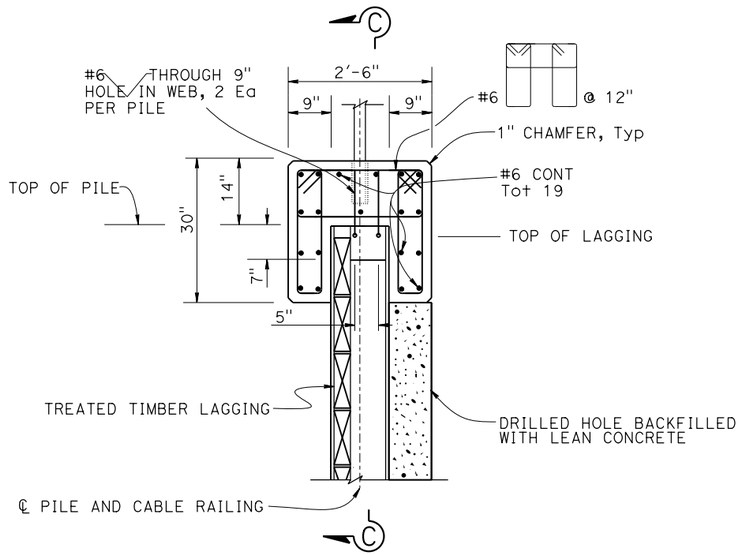
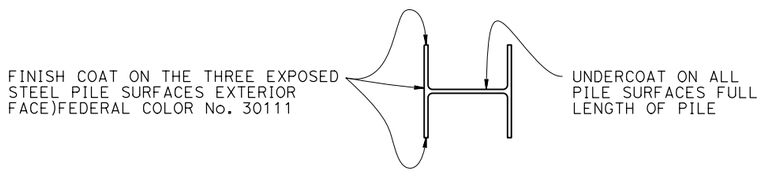


SECTION C-C
½" = 1'-0"



CONCRETE COPING DETAIL AT PILE
¾" = 1'-0"

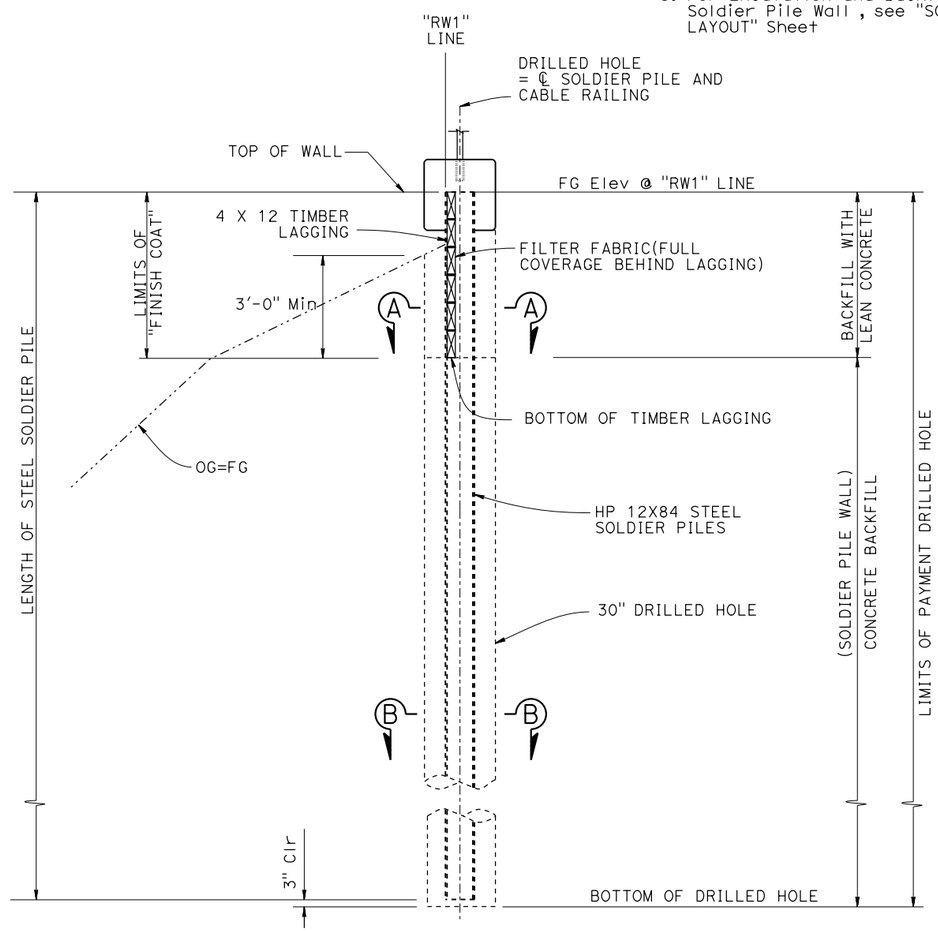


LIMITS OF CLEAN & PAINT STEEL SOLDIER PILE
NO SCALE

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

NOTES:

1. Bridge and Roadway not shown for clarity.
2. For "Section A-A" and "Section B-B", see "SOLDIER PILE WALL DETAILS No. 2" Sheet
3. For Excavation and Backfill Limits for Soldier Pile Wall , see "SOLDIER PILE WALL LAYOUT" Sheet



TYPICAL SECTION
⅜" = 1'-0"

DESIGN	BY Rene Coria	CHECKED Minh Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE No. 44-0035 POST MILE 43.12	CASTRO CANYON BRIDGE SOLDIER PILE WALL DETAILS No. 1	
DETAILS	BY Mohammad Sharif	CHECKED Minh Tran					
QUANTITIES	BY Rene Coria	CHECKED Minh Tran					

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:04
FILE => 44-0035-f-a01d+05.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/11/21				8	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — X — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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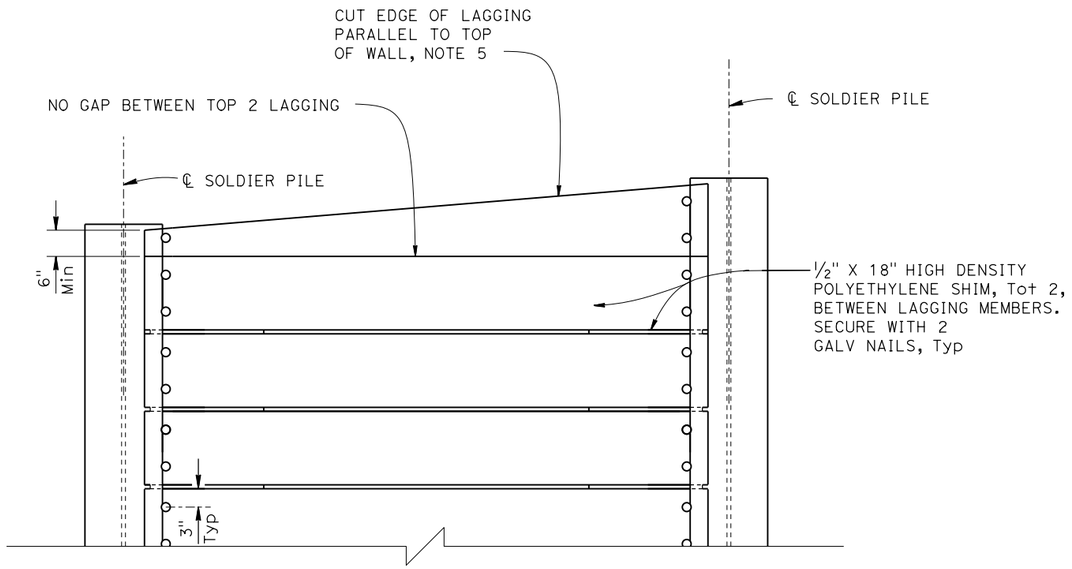
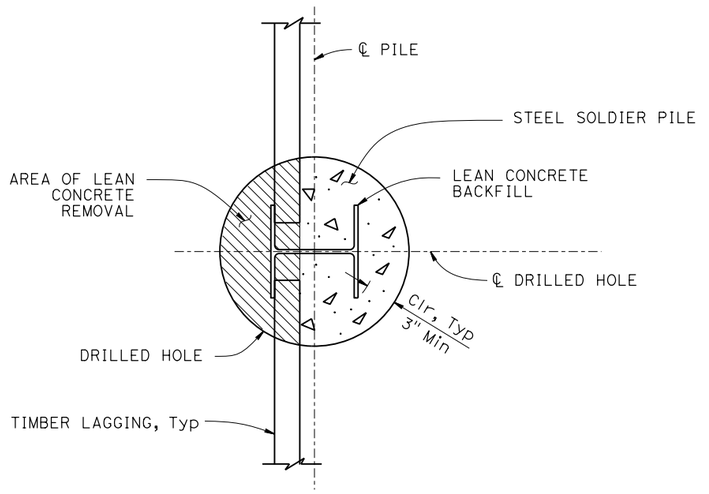


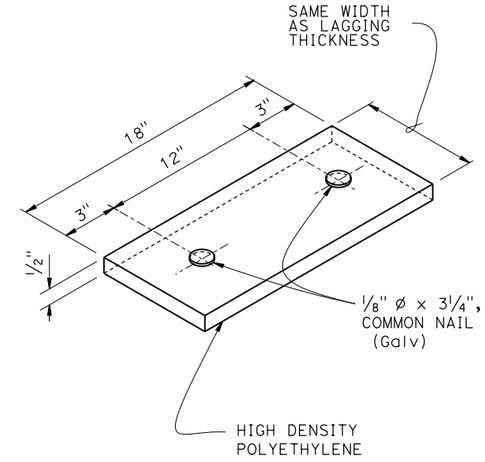
PART ELEVATION LAGGING DETAILS

NO SCALE
NOTE 5



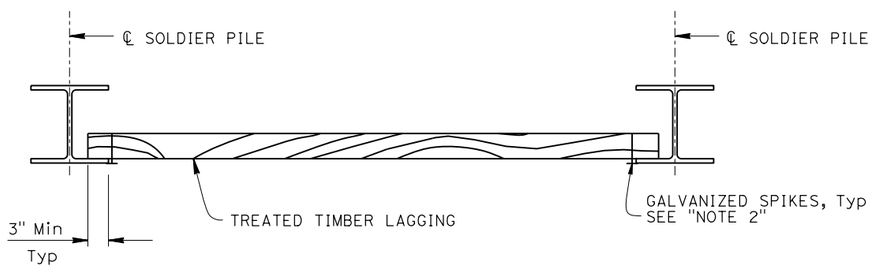
SECTION A-A

NO SCALE



SHIM DETAIL

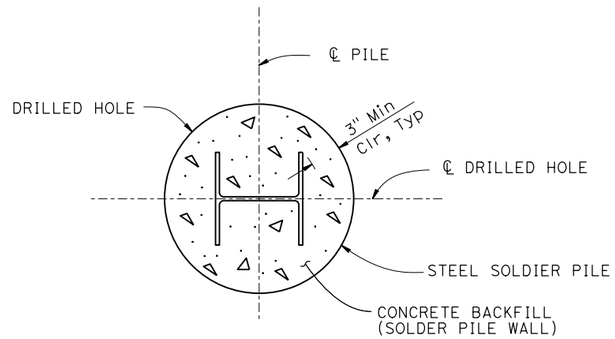
NO SCALE



PART PLAN

NO SCALE

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



SECTION B-B

NO SCALE

NOTES:

1. No clipping of Timber Lagging Corners.
2. Use 16d Galv Wire Spikes for 4 X 12 Lagging.
3. Spikes shall not be bent.
4. For location of "SECTION A-A" AND "SECTION B-B", see "SOLDIER PILE DETAILS No. 1" Sheet.
5. Concrete coping not shown for clarity.

DESIGN	BY Rene Coria	CHECKED Minh Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN	BRIDGE No. 44-0035
DETAILS	BY Mohammad Sharif	CHECKED Minh Tran		DESIGN BRANCH 18	POST MILE 43.12
QUANTITIES	BY Rene Coria	CHECKED Minh Tran			

CASTRO CANYON BRIDGE

SOLDIER PILE WALL DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:04
FILE => 44-0035-f-a01d106.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/15/21				9	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — X — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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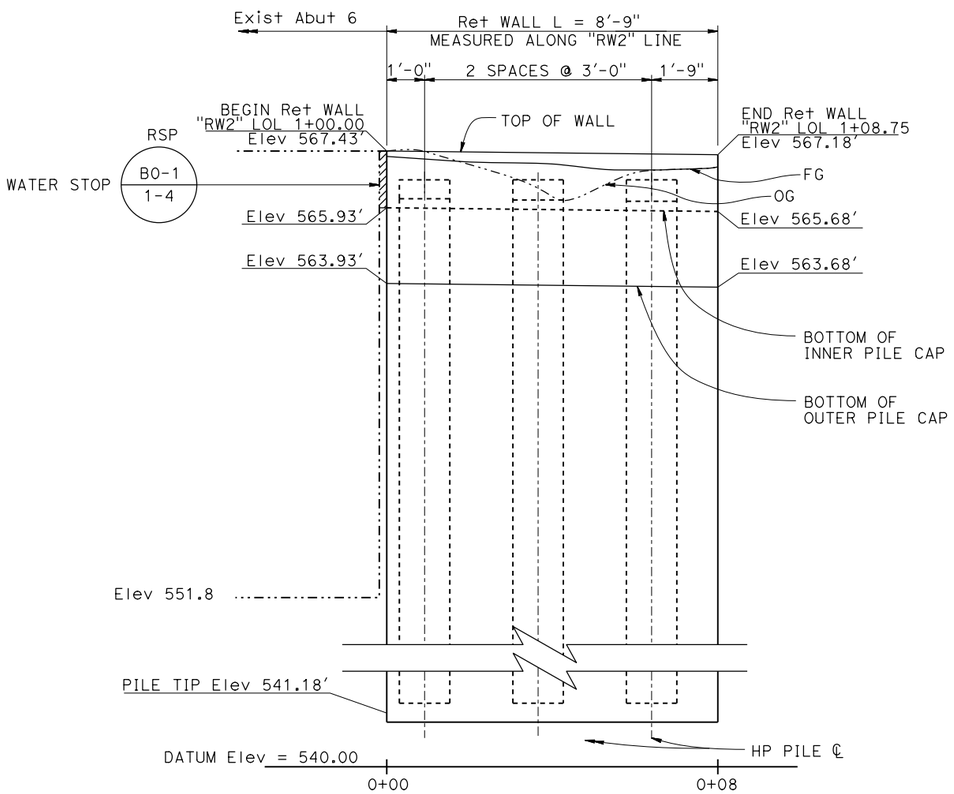
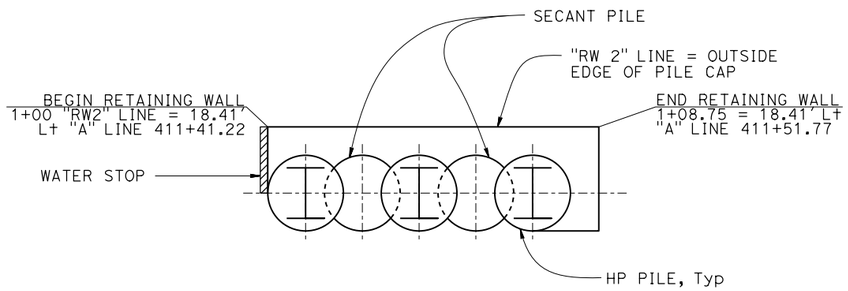


MIRRORED ELEVATION

½" = 1'-0"

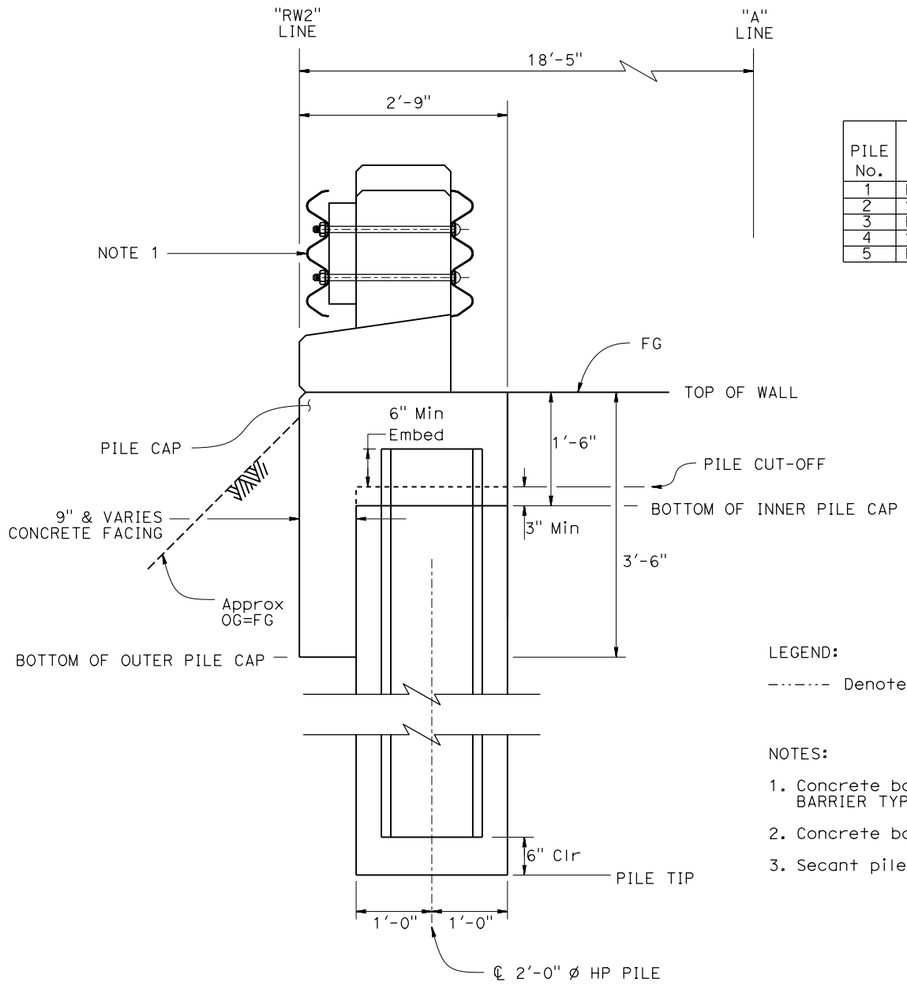
NOTE 2



PLAN

½" = 1'-0"

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



TYPICAL SECTION

1" = 1'-0"

PILE No.	PILE TYPE	"RW2" STATION	PILE TIP Elev	PILE CUT-OFF Elev
1	HP PILE	1+01.00	541.18	566.18
2	SECANT	1+02.50	541.18	566.18
3	HP PILE	1+04.00	541.18	566.18
4	SECANT	1+05.50	541.18	566.18
5	HP PILE	1+07.00	541.18	566.18

LEGEND:

-·-·-·- Denotes Existing

NOTES:

1. Concrete barrier transition, see "CONCRETE BARRIER TYPE 85 DETAILS 1" sheet.
2. Concrete barrier transition not shown for clarity.
3. Secant piles not shown for clarity.

DESIGN	BY Rene Coria	CHECKED Minh Tran	
DETAILS	BY Mohammad Sharif	CHECKED Minh Tran	
QUANTITIES	BY Rene Coria	CHECKED Minh Tran	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
SECANT WALL STRUCTURE PLAN

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:05
FILE => 44-0035-g-rw_1o01.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
10/30/21				10	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — DATE X

PLANS APPROVAL DATE — MM/DD/YYYY

REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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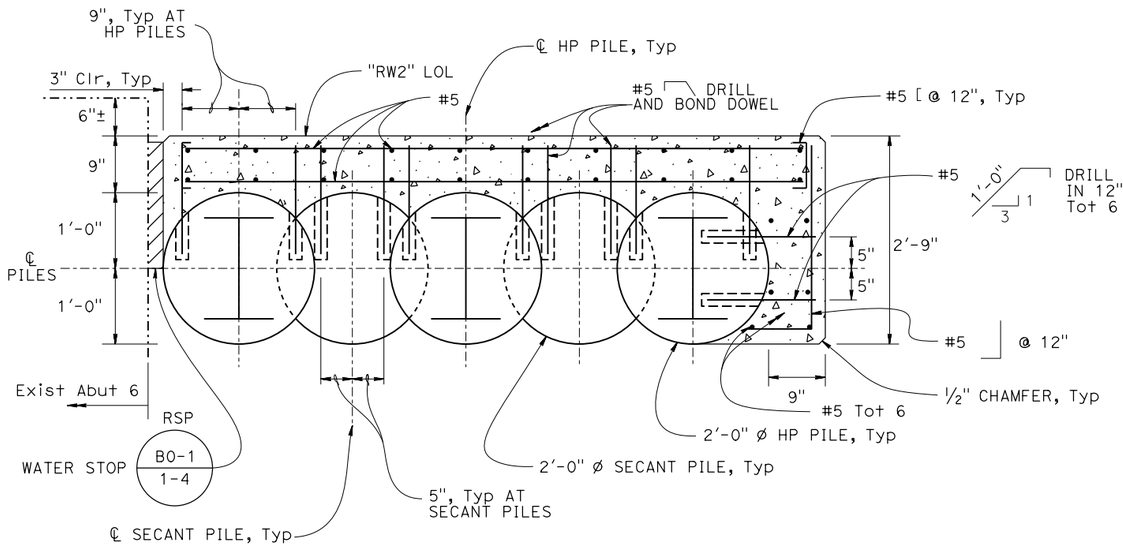
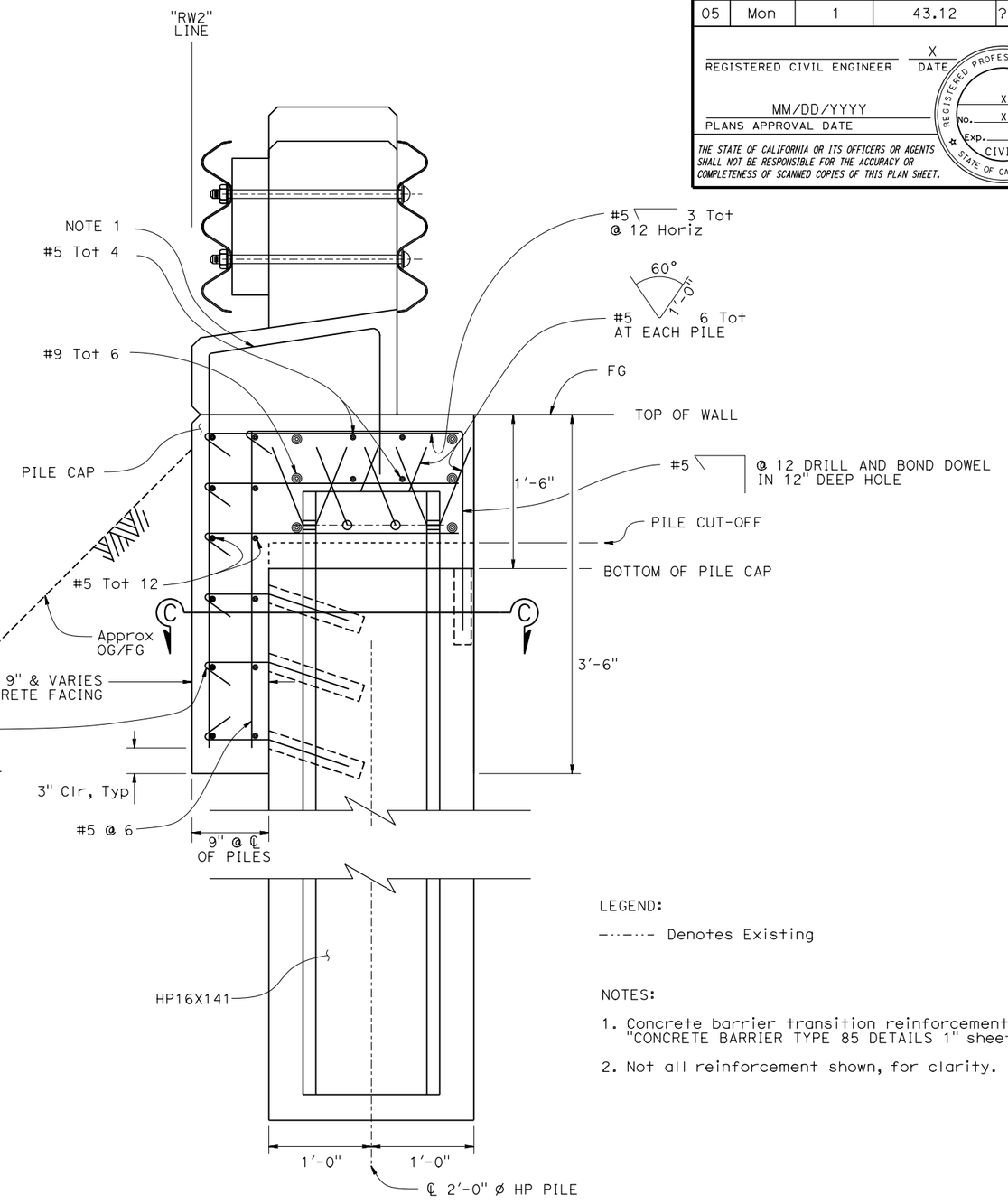


SECTION C-C

1" = 1'-0"

NOTE 2



TYPICAL SECTION

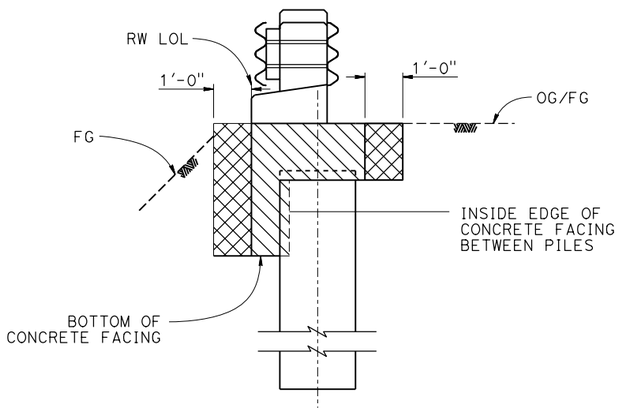
1½" = 1'-0"

LEGEND:

-·-·-·- Denotes Existing

NOTES:

1. Concrete barrier transition reinforcement, see "CONCRETE BARRIER TYPE 85 DETAILS 1" sheet.
2. Not all reinforcement shown, for clarity.



LIMITS OF EXCAVATION AND BACKFILL

NOT TO SCALE

LEGEND:

Structure Excavation (Retaining Wall)

Structure Backfill (Retaining Wall)

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

DESIGN	BY Rene Coria	CHECKED Minh Tran	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 18	BRIDGE No. 44-0035
DETAILS	BY Mohammad Sharif	CHECKED Minh Tran			POST MILE 43.12
QUANTITIES	BY Rene Coria	CHECKED Minh Tran			

CASTRO CANYON BRIDGE

SECANT WALL DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:05 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

FILE => 44-0035-g-rwdt01.dgn USERNAME => s151020

UNIT: 3603 PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
10/30/21				11	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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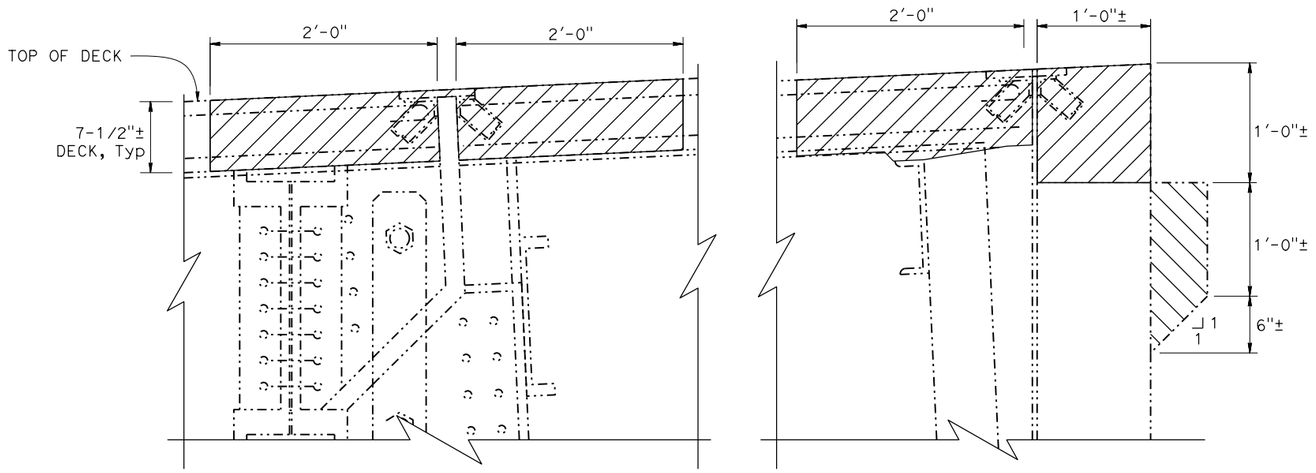


AT HINGE

AT ABUTMENT
NOTE 2

EXISTING
1½" = 1'-0"

LEGEND:

Indicates Existing

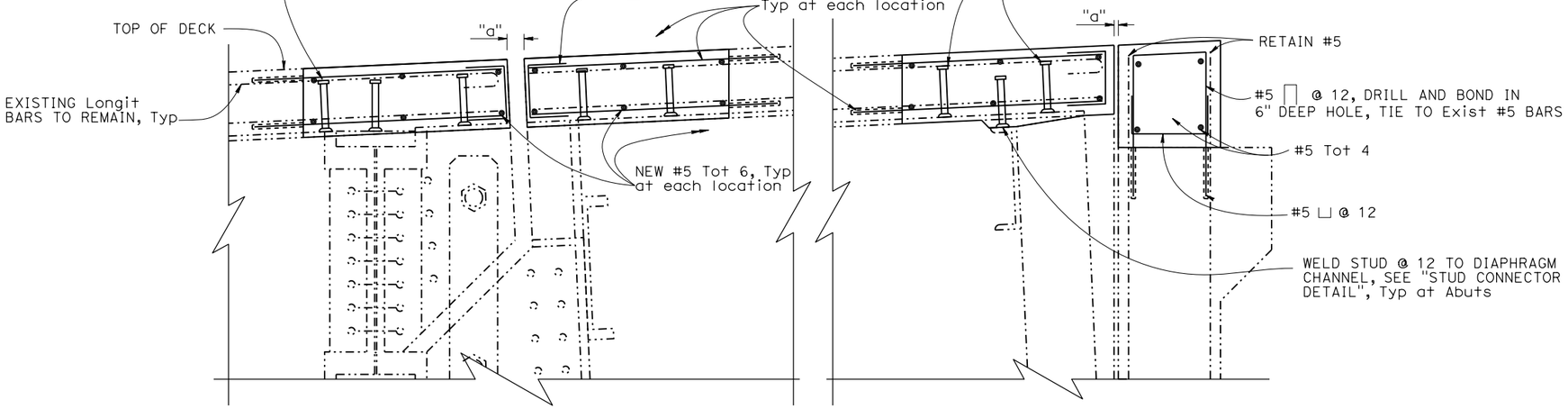
Limits of Bridge Removal (Portion), remove Exist concrete, joint armor and transverse steel

Limits of Bridge Removal (Portion) of backwall at Secant Wall at Abut 6, W= 3'-6"±

NOTES:

1. Retain all longitudinal steel not show.
2. Abut 6 shown, Abut 1 similar.

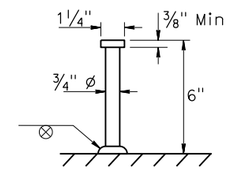
JOINT INFORMATION			"a" DIMENSIONS (IN)		
LOCATION	MOVEMENT RATING (MR)	LENGTH (FT)	WINTER	SPRING & FALL	SUMMER
BB	½"	35'-6"	¾"	¾"	½"
EB	½"	34'-3"	¾"	¾"	½"
HINGE	2"	46'-3"	1½"	1¼"	¾"



AT HINGE

AT ABUTMENT
NOTE 2

RECONSTRUCTION
1½" = 1'-0"



STUD CONNECTOR
1½" = 1'-0"

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

	BY	CHECKED
DESIGN	Rene Coria	Minh Tran
DETAILS	Mohammad Sharif	Minh Tran
QUANTITIES	Rene Coria	Minh Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
JOINT REPLACEMENT DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:05
FILE => 44-0035-q-jntdt.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081
CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/30/21				12	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY — PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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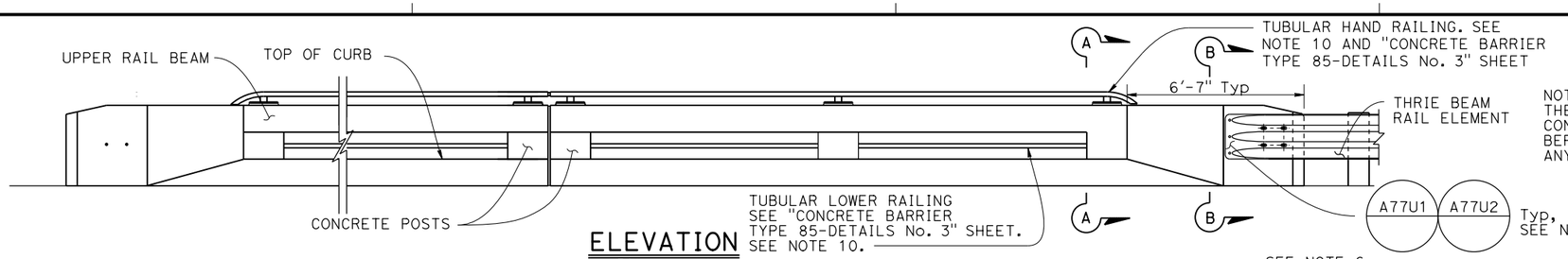
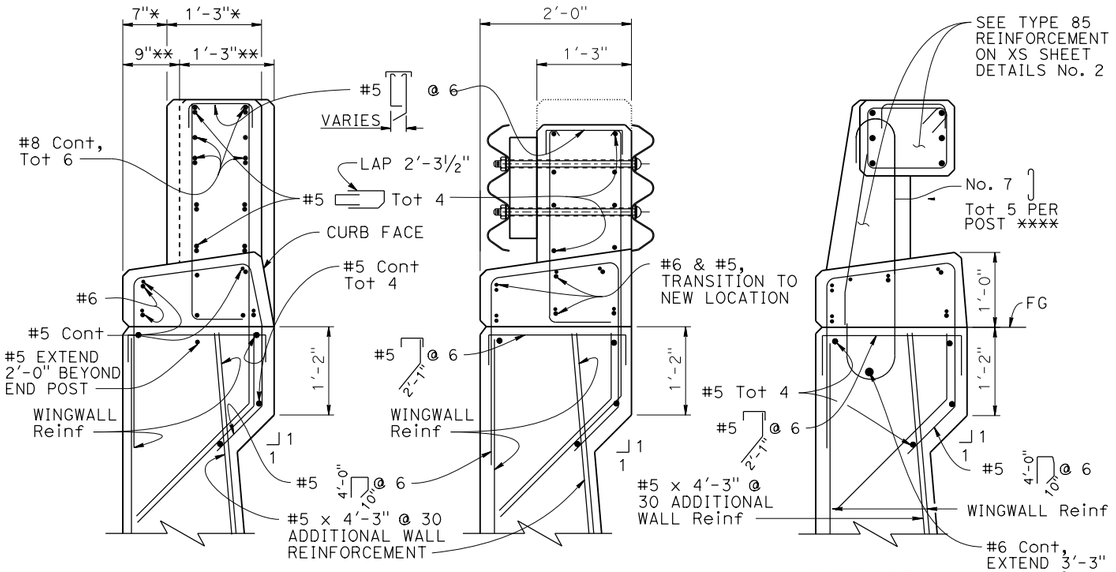


ELEVATION
3/8" = 1'-0"

PLAN
3/8" = 1'-0"

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

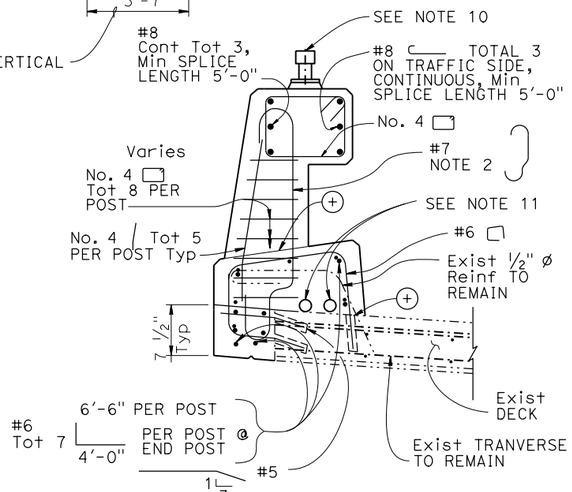


SECTION A-A

SECTION B-B

TYPE 85A

* BEGIN BARRIER TRANSITION
** END BARRIER TRANSITION

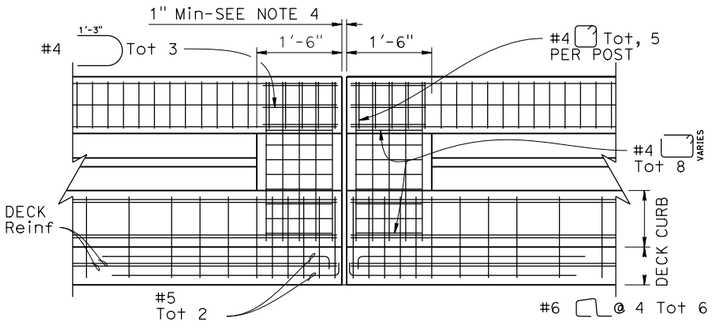


TYPE 85

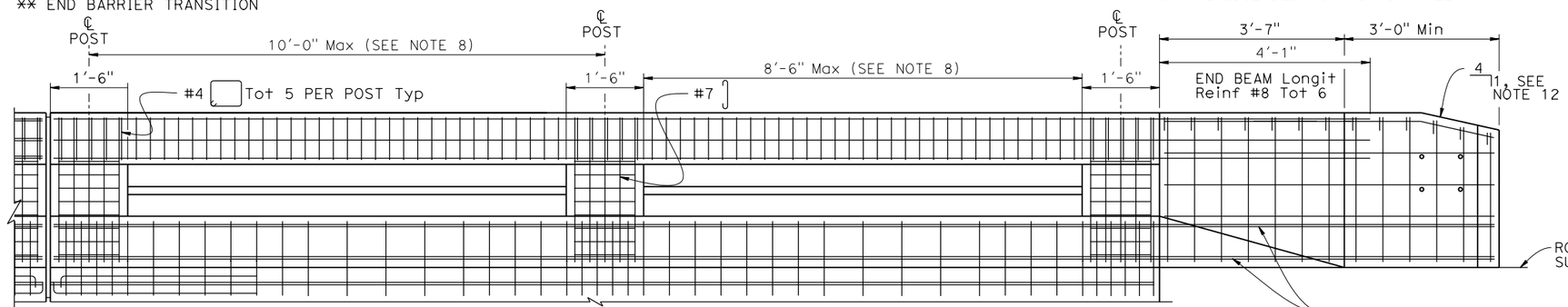
⊕ CONSTRUCTION JOINT

*** #5 ⌐ BUNDLE AT POST TO EXTEND 2'-0" BEYOND BRIDGE DECK OVERHANG

**** #7 ⌡ AT POST TO EXTEND 6" Min BELOW TOP OF BRIDGE DECK OR TOP OF WALL



EXPANSION JOINT DETAIL
1" = 1'-0"
SEE NOTE 13



LONGITUDINAL SECTION
(Deck or wingwall reinforcing not shown)

NOTE: For Reinf SHOWN AND NOTE NOTED SEE OTHER DETAILS.

NOTES:

1. Walls are to be backfilled before the barrier is placed.
2. Longitudinal reinforcing steel to stop at all expansion joints.
3. The front face dimensions are to be constant above the finish roadway profile, but the overall height will vary with certain thicknesses of surfacing and roadway slopes.
4. Expansion joint to match deck joint.
5. Splicing in longitudinal rail reinforcing must be staggered.
6. For typical metal railing connection details not shown, see Standard Plans A77U1 and A77U2.
7. Chain link railing is not allowed on Type 85 Barriers.
8. Posts to be spaced equally, typically 10'-0" spacing. Post spacing may be reduced where location of expansion joints or the length of wingwalls will not accommodate the 10'-0" spacing. Maximum see-through availability is to be strived for, where 10'-0" post spacing cannot be achieved.
9. For additional reinforcement details, see "CONCRETE BARRIER TYPE 85-DETAILS No. 2" sheet.
10. Tubular railing is optional. Refer to General Plan and Typical Section in Structural Plans.
11. The maximum number of conduits is limited to two 1 ½" Dia and must be placed in front half of the lower beam/curb.
12. Taper top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam railing element.
13. For reinforcement not shown, see other details.

STANDARD PLAN SHEET No.

DETAIL No.

	BY	CHECKED
DESIGN	Rene Coria	Minh Tran
DETAILS	Mohammad Sharif	Minh Tran
QUANTITIES	Rene Coria	Minh Tran

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
CONCRETE BARRIER TYPE 85, DETAILS No. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:05
FILE => 44-0035-t-brdt01.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081
CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/9/21				13	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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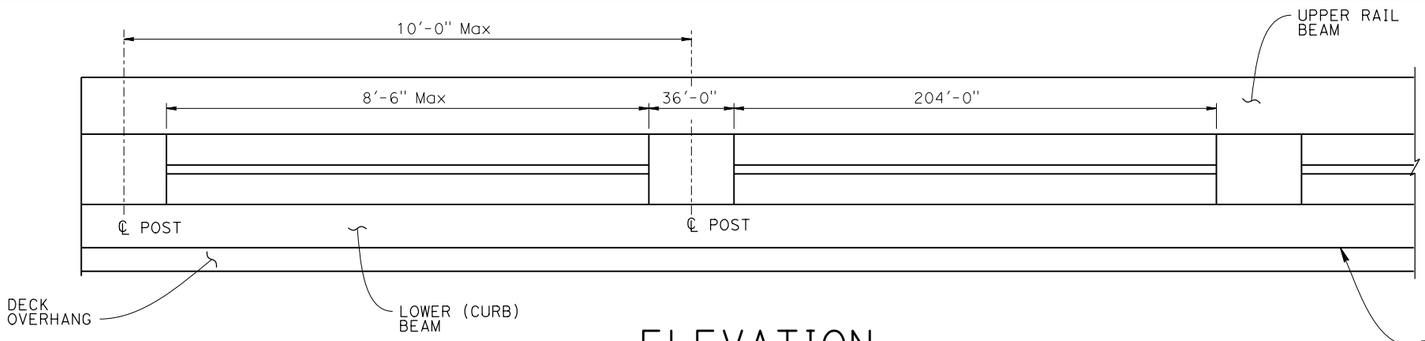
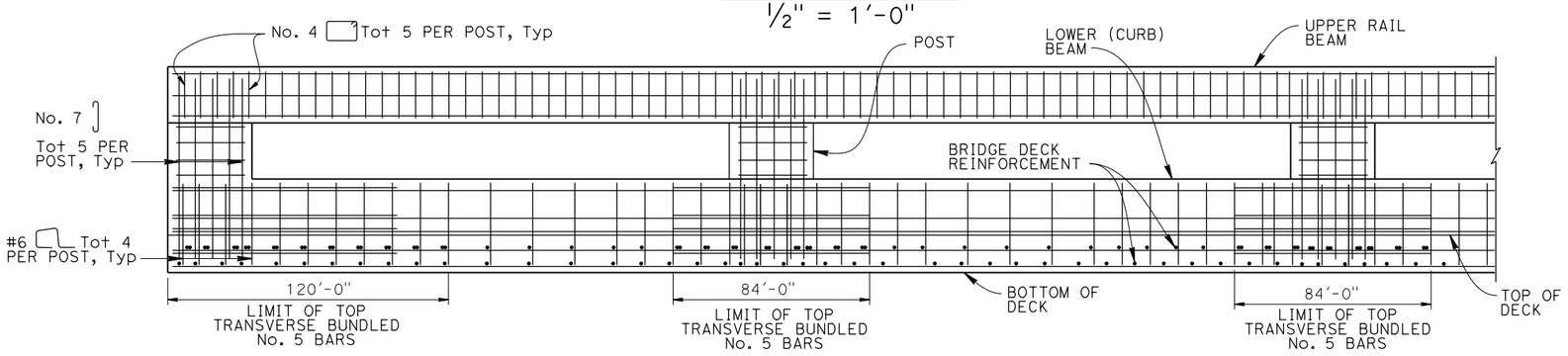
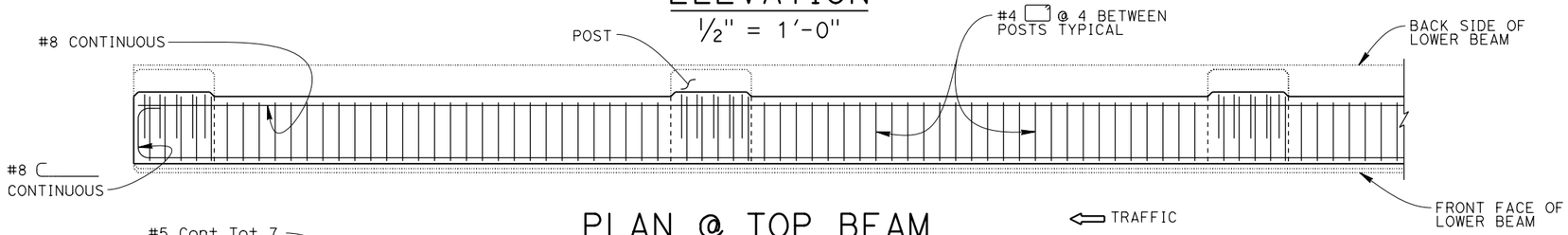


ELEVATION
1/2" = 1'-0"

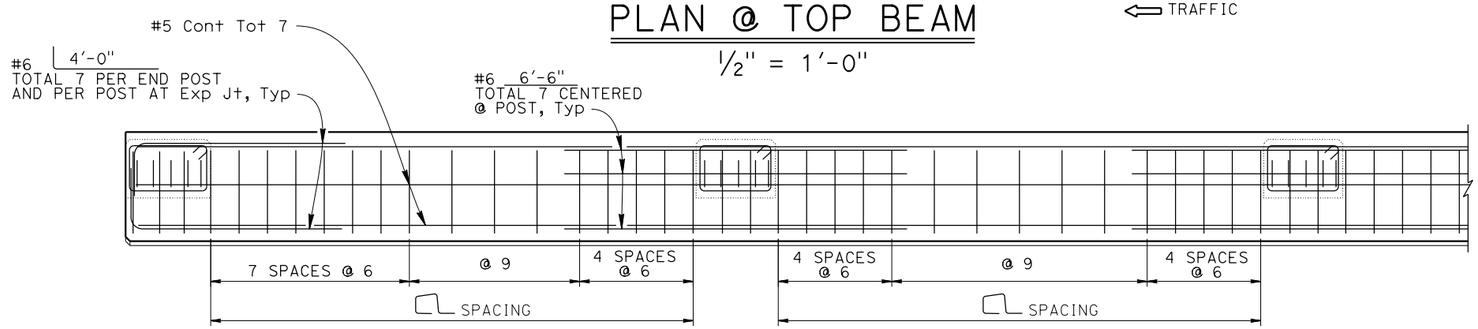


ELEVATION
1/2" = 1'-0"



PLAN @ TOP BEAM
1/2" = 1'-0"

TRAFFIC



NOTE:
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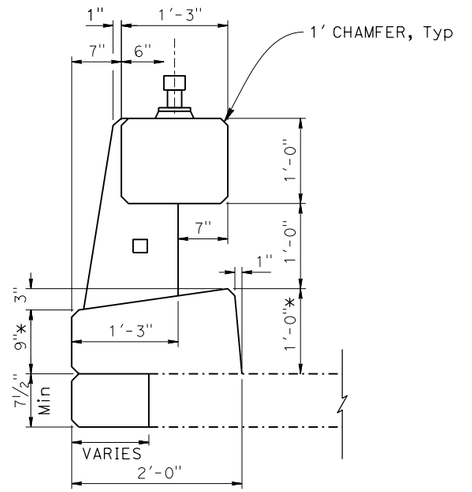
PLAN @ BOTTOM (CURB) BEAM
1/2" = 1'-0"



TYPICAL SECTION
NO SCALE

*Dimension may vary with bridge cross-slope and with certain thickness of surfacing. See Structural Plans.

DESIGN	BY Rene Coria	CHECKED Minh Tran	
DETAILS	BY Mohammad Sharif	CHECKED Minh Tran	
QUANTITIES	BY Rene Coria	CHECKED Minh Tran	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
CONCRETE BARRIER TYPE 85, DETAILS No. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:05
FILE => 44-0035-t-brdt02.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081
CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/9/21				14	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
X
No. X
Exp. X
CIVIL
STATE OF CALIFORNIA

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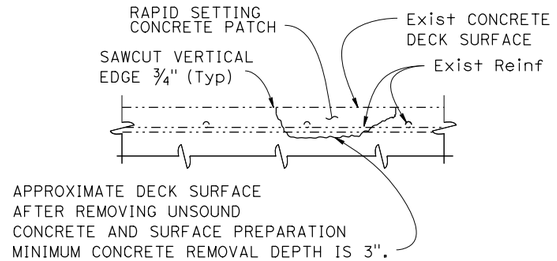

DECK REPAIR DETAIL

LOCATIONS TO BE DETERMINED BY THE ENGINEER. REINFORCEMENT MAY BE ENCOUNTERED DURING DECK CONCRETE REMOVAL.
NO SCALE

DECK REPAIR TABLE

REMOVE UNSOUND CONCRETE
AND PLACE RAPID SETTING CONCRETE (PATCH)

BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGE (SQUARE FEET)	APPROXIMATE DEPTH (INCHES)
CASTRO CANYON BRIDGE	44-0035	2%	3

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

DESIGN	BY Rene Coria	CHECKED Minh Tran	
DETAILS	BY Mohammad Sharif	CHECKED Minh Tran	
QUANTITIES	BY Rene Coria	CHECKED Minh Tran	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
MISCELLANEOUS DETAILS 1

STRUCTURES DESIGN DETAIL SHEET
(ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:05
FILE => 44-0035-u-miscd+01.dgn USERNAME => s151020

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/9/21				15	17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	Mon	1	43.12	????	#####

REGISTERED CIVIL ENGINEER — X — DATE

MM/DD/YYYY
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — X — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

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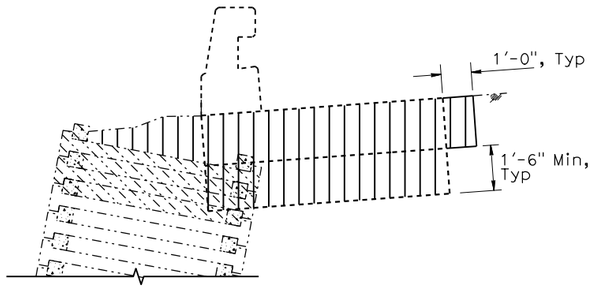
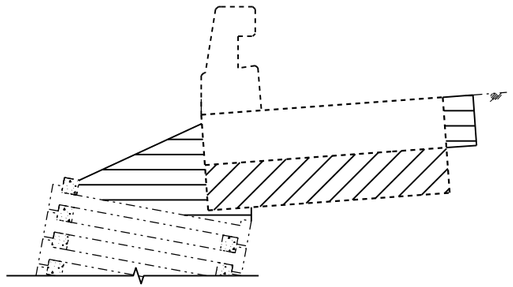


LIMITS OF EXCAVATION



LIMITS OF BACKFILL

LEGEND:

Indicates Existing

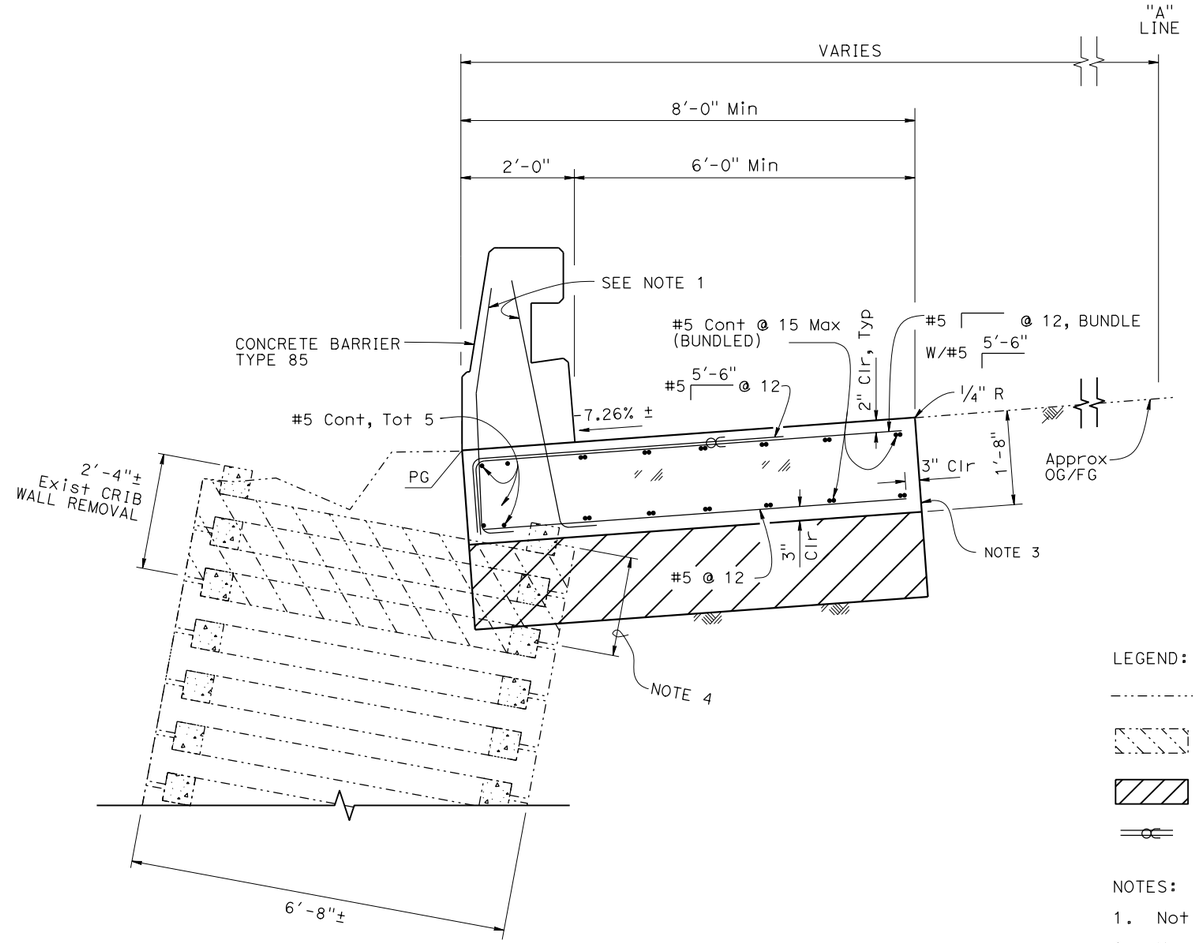
EXCAVATION & BACKFILL LEGEND:

- Limits of Structure Excavation
- Limits of Structure Backfill
- Limits of Structure Backfill (95% Relative Compation)
- Limits of Existing Crib Wall Removal

CONCRETE BARRIER SLAB LIMITS OF EXCAVATION AND BACKFILL

N.T.S

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



CONCRETE BARRIER SLAB

3/4" = 1'-0"

LEGEND:

- Denotes Existing Structure
- Denotes Removal of Existing Crib Wall
- Denotes Additional Structure Excavation and Backfill
- Indicates Bundled Bars

NOTES:

1. Not all barrier reinforcement shown.
2. No expansion joints in concrete barrier or barrier slab.
3. Contact joint
4. 1'-6", min Crib Wall Removal below new Barrier Slab

DESIGN	BY Rene Coria	CHECKED Minh Tran	
DETAILS	BY Mohammad Sharif	CHECKED Minh Tran	
QUANTITIES	BY Rene Coria	CHECKED Minh Tran	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 18

BRIDGE No. 44-0035
POST MILE 43.12

CASTRO CANYON BRIDGE
ADDITIONAL SLAB REINFORCEMENT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REVISION 12/13/2019)

DATE PLOTTED => 2-NOV-2021 TIME PLOTTED => 12:05
FILE => 44-0035-w-asr.dgn USERNAME => s151020
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3603
PROJECT NUMBER & PHASE: 0516000081 CONTRACT No.: 05-1H490

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
10/9/21				16	17

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