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The Bid Package contains **11** Project Plans for this project.

California Department of Transportation

ADMINISTRATION

DIVISION OF PROCUREMENT AND CONTRACTS

1727 30th STREET, MS 65

SACRAMENTO, CA 95816-7006

PHONE (916) 227-6000

TTY 711

<https://dot.ca.gov/programs/procurement-and-contracts/>**Invitation for Price Quote (IFPQ)****Contract No. 05A2702****Quote Due Date: Monday, February 26, 2024****Prospective Contractors:**

California Department of Transportation (Caltrans/Department) has issued the enclosed Invitation for Price Quote (IFPQ) for services described in the enclosed proposed contract.

Please read the entire contract package and all attachments carefully. If you desire to submit a quote, complete the Price Quote sheet and email it to the Analyst listed in the IFPQ. Your signature affixed to and dated on the quote proposal shall constitute a certification under penalty of perjury, unless exempted, that you have complied with the nondiscrimination program requirements of Government Code Section 12990 and Title 2, California Code of Regulations, Section 11102, and the nondiscrimination program requirements of Title VI of the Civil Rights Act of 1964, 49 Code of Federal Regulations (CFR) Part 21, and 23 CFR Part 200.

Award of this contract will be to the lowest responsible contractor whose quote complies with all requirements as described in this IFPQ.

If your bid is more than \$ 461,000.00, it will be rejected per Public Contract Code Section 10105(b).

Contractor must be a Certified Small Business at the time of the quote date.

Invitation for Price Quote

California Department of Transportation

ADMINISTRATION

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General Contractors Instructions/Checklist

Solicitation No. 05A2702

A complete bid or bid package will consist of the items identified below.

Complete this checklist to confirm the items in your bid package. Place a check mark or "X" next to each item that you are submitting to Caltrans. All attachments identified below (unless noted otherwise) are required and must be attached in your Bid Package submittal (links to documents are not acceptable), or your bid may be considered non-responsive. **Return this checklist with your bid package.**

Quotes omitting this information may be regarded as non-responsive and rejected.

Do **not** submit company advertisements, brochures, informational pamphlets, or any other document unless specifically noted in the IFPQ Requirements and/or as listed below.

- Price Quote Proposal for Unit Items (ADM-1509). Complete and sign the Price Quote Proposal for Unit Item Sheet(s).
- Subcontractor List (DES-OE-0102.2.C) can be downloaded at <https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=DESOE0102.2C>. List all subcontractors, including DVBEs, as applicable to the requirements of this solicitation.
- Contract Requirements (ADM-0378) can be downloaded at <https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=ADM0378F>.
- Small Business Status (DES-OE-0102.4) can be downloaded at <https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=DESOE0102.4>.
- California Company Preference (DES-OE-0102.9) can be downloaded at <https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=DESOE0102.9>.
- Certified DVBE Summary (ADM-4015) can be downloaded at <https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=ADM4015>.
- Contractor Certification Clauses (CCC 04/2017) can be downloaded at <https://www.dgs.ca.gov/OLS/Resources/Page-Content/Office-of-Legal-Services-Resources-List-Folder/Standard-Contract-Language>.
- California Civil Rights Laws Certification (ADM-0076) can be downloaded at <https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=ADM0076>.
- Darfur Contracting Act Certification (ADM-0077) can be downloaded at <https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=ADM0077>.
- DOT DES-OE-0102.14 In-Use Off-Road Diesel-Fueled Vehicle List can be downloaded at <https://forms.dot.ca.gov/v2Forms/servlet/showForm2?frmid=DOTDESOE010214>

The following forms and information will be required at the time of contract award and signature.

- Payment Bond (ADM-2009) can be downloaded at <https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=ADM2009>.
- Certificate(s) of Insurance

- Postconsumer-Content Certification (CalRecycle 74) can be downloaded at <https://www.calrecycle.ca.gov/buyrecycled/stateagency/certify>.
- Payee Data Record (STD 204) can be downloaded at <https://www.documents.dgs.ca.gov/dgs/fmc/pdf/std204.pdf>. This form is designed to allow vendors to self-report information needed for accurate and complete reporting of vendor payment income. Completion of this form is required by all vendors providing goods and/or services to the State of California.

Contract Will Not Be Executed Without These Documents.

STANDARD AGREEMENT

STD 213 (Rev. 04/2020)

AGREEMENT NUMBER
05A2702

PURCHASING AUTHORITY NUMBER (If Applicable)

1. This Agreement is entered into between the Contracting Agency and the Contractor named below:

CONTRACTING AGENCY NAME

California Department of Transportation

CONTRACTOR NAME

2. The term of this Agreement is:

START DATE

TBD

THROUGH END DATE

3. The maximum amount of this Agreement is:

4. The parties agree to comply with the terms and conditions of the following exhibits, which are by this reference made a part of the Agreement.

Exhibits	Title	Pages
	PROPOSED FORM OF AGREEMENT	
	DO NOT COMPLETE	
	Continued on the following sheets, each bearing the Agreement/Contract number.	
+	The provisions on the following pages hereof constitute a part of the Agreement	
-		
+		
-		

Items shown with an asterisk (*), are hereby incorporated by reference and made part of this agreement as if attached hereto.

These documents can be viewed at <https://www.dgs.ca.gov/OLS/Resources>

IN WITNESS WHEREOF, THIS AGREEMENT HAS BEEN EXECUTED BY THE PARTIES HERETO.

CONTRACTOR

CONTRACTOR NAME (if other than an individual, state whether a corporation, partnership, etc.)

CONTRACTOR BUSINESS ADDRESS

CITY

STATE

ZIP

PRINTED NAME OF PERSON SIGNING

TITLE

CONTRACTOR AUTHORIZED SIGNATURE

DATE SIGNED

1. Contractor agrees to indemnify, defend, and save harmless the State, its officers, agents, and employees from any and all claims and losses accruing or resulting to any and all contractors, subcontractors, materialmen, laborers and any other person, firm or corporation furnishing or supplying work services, materials or supplies in connection with the performance of this contract, and from any and all claims and losses accruing or resulting to any person, firm or corporation who may be injured or damaged by Contractor in the performance of this contract.
2. Contractor, and the agents and employees of Contractor, in the performance of the Agreement, shall act in an independent capacity and not as officers or employees or agents of State of California.
3. The State may terminate this agreement and be relieved of the payment of any consideration to Contractor should Contractor fail to perform the covenants herein contained at the time and in the manner herein provided. In the event of such termination the State may proceed with the work in any manner deemed proper by the State. The cost to the State shall be deducted from any sum due Contractor under this agreement, and the balance, if any, shall be paid Contractor upon demand.
4. Without the written consent of the State, this Agreement is not assignable by Contractor either in whole or in part.
5. Time is of the essence in this Agreement.
6. No alteration or variation of the terms of this contract shall be valid unless made in writing and signed by the parties hereto, and no oral understanding or agreement not incorporated herein, shall be binding on any of the parties hereto.
7. The consideration to be paid Contractor, as provided herein, shall be in compensation for all of Contractor's expenses incurred in the performance hereof, including travel and per diem, unless otherwise expressly so provided.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

Notice to Bidders And Special Provisions

For Construction On State Highway In Santa Barbara County About 7 Miles South of Lompoc at Various Locations from 0.1 Mile South of El Jaro Creek Bridge to 0.2 Mile North of El Jaro Creek Bridge.

In District 05 On Route 1

Under

Standard Specifications dated 2023

Project plans approved: January 23, 2024

Standard Plans dated 2023

Identified by

Contract No. 05A2702

05-SB-1-11.3/11.6

Project ID 0523000046

Small Business Minor B Solicitation

Quotes open: Monday, February 26, 2024

Dated: February 9, 2024

Revised 12/29/2023

SPECIAL NOTICES

California Civil Rights Laws

Any person that submits a bid or proposal to, or otherwise proposes to enter into or renew a contract with a State agency with respect to any contract in the amount of one hundred thousand dollars (\$100,000) or more shall certify, under penalty of perjury, at the time the bid or proposal is submitted or the contract is renewed, that they satisfy all of the conditions set forth in California Public Contract Code Section 2010 and they shall execute the Certification attached.

Assumption of Risk and Indemnification Regarding Exposure to Environmental Health Hazards

In addition to, and not a limitation of, Contractor’s indemnification obligations contained elsewhere in this Agreement, Contractor hereby assumes all risks of the consequences of exposure of Contractor’s employees, agents, Subcontractors, Subcontractors’ employees, and any other person, firm, or corporation furnishing or supplying work services, materials, or supplies in connection with the performance of this Agreement, to any and all environmental health hazards, local and otherwise, in connection with the performance of this Agreement. Such hazards include, but are not limited to, bodily injury and/or death resulting in whole or in part from exposure to infectious agents and/or pathogens of any type, kind, or origin. Contractor also agrees to take all appropriate safety precautions to prevent any such exposure to Contractor’s employees, agents, Subcontractors, Subcontractors’ employees, and any other person, firm, or corporation furnishing or supplying work services, materials, or supplies in connection with the performance of this Agreement. Contractor also agrees to indemnify and hold harmless Caltrans, the State of California, and each and all of their officers, agents, and employees, from any and all claims and/or losses accruing or resulting from such exposure. Except as provided by law, Contractor also agrees that the provisions of this paragraph shall apply regardless of the existence or degree of negligence or fault on the part of Caltrans, the State of California, and/or any of their officers, agents, and/or employees.

Mandatory Organic Waste Recycling

It is understood and agreed that pursuant to Public Resources Code Sections 42649.8 et seq., if Contractor generates two (2) cubic yards or more of organic waste or commercial solid waste per week, Contractor shall arrange for organic waste recycling services or commercial waste recycling services that separate/source organic waste recycling. Contractor shall provide proof of compliance, i.e. organic waste recycling services or commercial waste recycling services that separate/source organic waste recycling, upon request from Caltrans Contract Manager.

ADA Compliance

All entities that provide electronic or information technology or related services that will be posted online by Caltrans must be in compliance with Government Code Sections 7405 and 11135 and the Web Content Accessibility Guidelines (WCAG) 2.0 or subsequent version, published by the Web Accessibility Initiative of the World Wide Web Consortium at a minimum Level AA success. All entities will respond to and resolve any complaints/deficiencies regarding accessibility brought to their attention.

Satisfying a Self-Insured Retention (SIR)

All insurance required by this Agreement must allow, but not require, the State to pay any SIR and/or act as Contractor's agent in satisfying any SIR. The choice to pay any SIR and/or act as Contractor's agent in satisfying any SIR is at the State's discretion. If the State chooses to pay any SIR and/or act as Contractor's agent in satisfying any SIR, Contractor shall reimburse the State for the same.

Available Coverages/Limits

In the event the insurance coverages obtained by Contractor is broader in scope than, and/or the limits are higher than, those required under the Agreement, all such broader coverage and/or higher limits available to the Contractor shall also be available and applicable to the State.

Electronic Signatures

Each party agrees that the electronic signatures, whether digital or encrypted, of the parties included in this Agreement are intended to authenticate this writing and to have the same force and effect as manual signatures for this Agreement. Documents that are referenced by this Agreement may still require manual signatures.

Executive Order N-6-22 – Russia Sanctions

On March 4, 2022, Governor Gavin Newsom issued Executive Order [N-6-22](#) (the EO) regarding Economic Sanctions against Russia and Russian entities and individuals. "Economic Sanctions" refers to sanctions imposed by the U.S. government in response to Russia's actions in Ukraine, as well as any sanctions imposed under state law. By submitting a bid or proposal, Contractor represents that it is not a target of Economic Sanctions. Should the State determine Contractor is a target of Economic Sanctions or is conducting prohibited transactions with sanctioned individuals or entities, that shall be grounds for rejection of Contractor's bid/proposal any time prior to contract execution, or, if determined after contract execution, shall be grounds for termination by the State.

Standard Title VI/Nondiscrimination Assurances (DOT Order No. 1050.2A)

California Department of Transportation, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC Sections 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

Bid Bonds

Bid bonds are only required for agreements over \$461,000.00. Contractors are no longer required to purchase and submit a Bid Bond when bidding on Minor B Projects. Section 2-1.34 of the 2023 Standard Specifications is not applicable to Minor B Projects.

The Special Provisions contained herein have been prepared by or under the direction of the following Registered Persons.

HIGHWAYS

Kari Bhana

Registered Civil Engineer



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STANDARD PLANS LIST

The standard plan sheets applicable to this Contract include those listed below. When applicable, revised standard plans (RSPs) listed below are included in the project plans.

ABBREVIATIONS, LINES, SYMBOLS, AND LEGEND

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)
PAVEMENT MARKERS, TRAFFIC LINES, AND PAVEMENT MARKINGS	
A20A	Pavement Markers and Traffic Lines - Typical Details
RSP A20B	Pavement Markers and Traffic Lines - Typical Details
RUMBLE STRIP	
A40B	Shoulder Rumble Strip Details - Ground-In Indentations
A40D	Center Line Rumble Strip Details - Ground-In Indentations
EXCAVATION AND BACKFILL	
A62A	Excavation and Backfill - Miscellaneous Details
A62D	Excavation and Backfill - Concrete Pipe Culverts
A62F	Excavation and Backfill - Metal and Plastic Culverts
CURBS, DRIVEWAYS, DIKES, CURB RAMPS AND ACCESSIBLE PARKING	
A87B	Hot Mix Asphalt Dikes
CONCRETE PIPE - DIRECT DESIGN METHOD	
D79	Precast Reinforced Concrete Pipe - Direct Design Method
D79A	Precast Reinforced Concrete Pipe - Direct Design Method
PIPE DOWNDRAINS, ANCHORAGE SYSTEMS AND OVERSIDE DRAINS	
D87A	Corrugated Metal Pipe Downdrain Details
CONSTRUCTION LOADS ON CULVERTS AND STRUT DETAILS	
D88	Construction Loads on Culverts
D88A	Strut Details for Structural Steel Pipes, Arches and Vehicular Undercrossing
PIPE CULVERT HEADWALLS, ENDWALLS, WINGWALLS AND JUNCTION STRUCTURE	
D89B	Pipe Culvert Headwalls - Straight and "L"
FLARED END SECTIONS	
D94A	Metal and Plastic Flared End Sections
D94B	Concrete Flared End Sections
PIPE COUPLING AND JOINT DETAILS	
D97A	Corrugated Metal Pipe Coupling Details No. 1 - Annular Coupling Band Bar and Strap and Angle Connections
D97C	Corrugated Metal Pipe Coupling Details No. 3 - Helical and Universal Couplers
D97D	Corrugated Metal Pipe Coupling Details No. 4 - Hugger Coupling Bands
D97E	Corrugated Metal Pipe Coupling Details No. 5 - Standard Joint
D97F	Corrugated Metal Pipe Coupling Details No. 6 - Positive Joint
D97G	Corrugated Metal Pipe Coupling Details No. 7 - Downdrain
D97H	Reinforced Concrete Pipe or Non-Reinforced Concrete Pipe - Standard and Positive Joints

D97J	Composite Steel Spiral Rib Pipe with Smooth Interior - Standard Joint
TEMPORARY CRASH CUSHIONS, RAILING AND TRAFFIC SCREEN	
RSP T1A	Temporary Crash Cushion, Sand Filled (Unidirectional)
T1A1	Temporary Crash Cushion, Sand Filled (Unidirectional)
T1B	Temporary Crash Cushion, Sand Filled (Bidirectional)
T2	Temporary Crash Cushion, Sand Filled (Shoulder Installations)
T3A	Temporary Railing (Type K)
T3B	Temporary Railing (Type K)
T3C	Temporary Barrier System (Cross Bolt)
T3D	Temporary Barrier System (Cross Bolt)
T3E	Temporary Barrier System (Cross Bolt)
TEMPORARY TRAFFIC CONTROL SYSTEMS	
T9	Traffic Control System Tables for Lane and Ramp Closures
T13	Traffic Control System with Reversible Control on Two Lane Conventional Highways
T13A	Traffic Control System - Two Lane Conventional Highways
TEMPORARY WATER POLLUTION CONTROL	
T59	Temporary Water Pollution Control Details (Temporary Concrete Washout Facility)
ROADSIDE SIGNS	
RS1	Roadside Signs - Typical Installation Details No. 1
RS2	Roadside Signs - Wood Post - Typical Installation Details No. 2
RS4	Roadside Signs - Typical Installation Details No. 4

CANCELED STANDARD PLANS LIST

The standard plan sheets listed below are canceled and not applicable to this contract.

Plan No.	Date Canceled	Plan No.	Date Canceled	Plan No.	Date Canceled
A77U1	01-22-24				
A77U2	01-22-24				
A77U3A	01-22-24				
A77U3B	01-22-24				
A77U4	01-22-24				
A77U5	01-22-24				
A77V1	01-22-24				
A77V2	01-22-24				
A78A	01-22-24				
A78B	01-22-24				
A78C1	01-22-24				
A78C2	01-22-24				
A78D1	01-22-24				
A78D2	01-22-24				
A78E1	01-22-24				
A78E2	01-22-24				
A78E3	01-22-24				
A78F1	01-22-24				
A78F2	01-22-24				
A78GA	01-22-24				
A78GB	01-22-24				
A78H	01-22-24				
A78J	01-22-24				
A78K	01-22-24				

Notice to Bidders

Quotes open: **Monday, February 26, 2024**

Dated: **February 9, 2024**

General work description: **Replace Three Culverts**

The Department of Transportation (Department) will receive quotes for Construction on State Highway In Santa Barbara County About 7 Miles South of Lompoc at Various Locations from 0.1 Mile South of El Jaro Creek Bridge to 0.2 mile North of El Jaro Creek Bridge.

District-County-Route-Post Mile: **05-SB-1-11.3/11.6**

Contractor must have either a **Class A license** or a combination of the following Class C licenses which constitutes a majority of the work: **C-34**.

Contractor must be a certified Small Business under Section 2-1.04.

Department establishes no DVBE Contract goal but encourages bidders to obtain DVBE participation.

Bids must be on a unit price basis.

Complete the work within **28** working days.

The estimated cost of the project is **\$ 320,000.00**.

The Department will receive quotes until 2:15 p.m. on the quotes open date at:

Analyst's Email: Jomlonglak.Kamaay@dot.ca.gov

*Put SB Contract # in the Subject Line of the Email

Quotes received after this time will not be accepted.

No pre-bid meeting is scheduled for this project.

Quote Packages, including **Invitation for Quote**, **Notice to Bidders**, **Special Provisions**, and **Project Plans** are available in electronic format only. These documents may be viewed and obtained at:

Cal eProcure website: <https://caleprocure.ca.gov/pages/index.aspx>

Standard Specifications dated 2023

Standard Plans dated 2023

Present bidders' inquiries to the District at:

District 5 Construction Duty Senior

Email: D5.Bidders.Questions@dot.ca.gov

Questions about alleged patent ambiguity of the plans, specifications, or estimate must be asked before bid opening. After bid opening, the Department does not consider these questions as bid protests.

Department will open bids under Section 2-1.43.

There will be no public opening of quotes. Quotes results will not be listed on the Internet.

Request quote results at:

Analyst Name: Jomlonglak Kamaay

Email: Jomlonglak.Kamaay@dot.ca.gov

Phone: (279) 234-2503

District office addresses are provided in the **Standard Specifications**.

Prevailing wages may be required on this Contract under Section 7-1.02K(2). The Director of the California Department of Industrial Relations (DIR) determines the general prevailing wage rates. Obtain the wage rates at the DIR website, <http://www.dir.ca.gov>, or from the Department's Labor Compliance Office of the district in which the work is located at <https://dot.ca.gov/programs/construction/labor-compliance>.

Department has made available Notices of Suspension and Proposed Debarment from the Federal Highway Administration. For a copy of the notices, go to <http://ppmoe.dot.ca.gov/des/oe/contractor-info.html>. Additional information is provided in the Excluded Parties List System at <https://www.dol.gov/ofccp/regs/compliance/preaward/debarlst.htm>.

Standard Specifications and Standard Plans may be viewed at Department's Division of Design website at <https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>.

The **Bid Package** includes the **Invitation for Bid, Notice to Bidders**, Special Provisions, Project Plans, Revised Standard Plans, and a web link to the Standard Specifications and Standard Plans.

Replace the 3rd paragraph of section 2-1.06B with:

If an **Information Handout** or cross sections are available, you may view and obtain them at the Cal eProcure website.

Add the following to section 2-1.10:

Submit the form with your bid.

Replace section 2-1.11 with:

2-1.11 IN-USE OFF-ROAD DIESEL-FUELED VEHICLE LIST

Section 2-1.11 applies to non-informal-bid contracts.

Complete and submit the In-Use Off-Road Diesel-Fueled Vehicle List form under section 2-1.33.

On the In-Use Off-Road Diesel-Fueled Vehicle List form, list each fleet used by you or your subcontractor to perform work and is subject to 13 CCR § 2449 et seq. Submit a copy of a valid Certificate of Reported Compliance (13 CCR § 2449, subdivision (n)) for each fleet listed on the form within 10 days of contract award. Failure to list a fleet used by you or your subcontractor to perform work on the In-Use Off-Road Diesel-Fueled Vehicle List form may result in a nonresponsive bid. Failure to submit the Certificate of Reported Compliance for a fleet listed on the In-Use Off-Road Diesel-Fueled Vehicle List form may result in a nonresponsive bid

Replace section 2-1.15 with:

2-1.15 Disabled Veteran Business Enterprises (DVBE)

2-1.15A General

Take necessary and reasonable steps to ensure that DVBEs have opportunity to participate in the Agreement.

Comply with Military and Veterans Code Sections 999 et seq.

Department encourages bidders to obtain DVBE participation to ensure Department achieves its State-mandated overall DVBE goal.

If you obtain DVBE participation:

1. Complete and submit the Certified DVBE Summary form under with your bid. List all DVBE participation on this form.
2. List each first tier DVBE subcontractor in the Subcontractor List form, regardless of percentage of the total bid.

If a DVBE joint venture is used, submit the joint venture agreement with the Certified DVBE Summary form.

List each first tier DVBE, subcontractor on the Subcontractor List (DES-OE-0102C) regardless of percentage of the total bid.

- 1.2. If a decimal error is apparent in the product of the unit price and the quantity, the Department will use either the unit price or item total based on the closest by percentage to the unit price or item total in the Department's Final Estimate.
2. If the unit price and the item total are illegible or are omitted, the bid may be determined nonresponsive.
3. Bids on lump sum items are item totals. If a unit price for a lump sum item is entered and it differs from the item total, the item total prevails.
4. Entries are to be expressed in dollars or decimal fractions of a dollar. Symbols such as commas and dollar signs are ignored and have no significance in establishing unit price or item total.
5. Unit prices and item totals are interpreted by the number of digits and decimal placement. Do not round item totals or the total bid.

Replace section 3-1.04 with:

3-1.04 Contract Award

If the Department awards the contract, the award is made to the lowest responsible bidder within 30 days after bid opening.

Replace section 3-1.09 with:

3-1.09 Contract Bonds

Section 3-1.05 does not apply.

If the total bid exceeds \$25,000, the successful bidder must furnish a payment bond to secure the claim payments of laborers, workers, mechanics, or materialmen providing goods, labor, or services under the Contract. This bond must be equal to at least 100 percent (100%) of the total bid (Pub. Cont. Code Section 7103).

A performance bond is not required.

Replace section 3-1.11 with:

3-1.11 Payee Data Record

Complete and sign the **Payee Data Record** form included in the contract documents.

Replace section 3-1.18 with:

3-1.18 Contract Execution

The successful bidder must sign the **Standard Agreement** form to execute the contract.

The bidder's security may be forfeited for failure to execute the contract within the time required.

5. Corrective actions to be taken for release of withheld amount

The Department may request additional documentation from you to evaluate whether you applied the withhold in good faith. Submit requested documents within 10 days of receipt of request.

The Department may withhold the same amount of your withhold from a future progress pay estimate if the Department determines any of the following has occurred:

1. Withhold was not applied in good faith
2. Requested additional withhold documentation records were not provided
3. Payment information was not submitted through the prompt payment monitoring system
4. Required withhold notification was not provided

The Department may also apply a 2 percent penalty on the withhold amount for every month payment is not made.

Add to the end of section 5-1.32:

Personal vehicles of your employees must not be parked on the traveled way or shoulders, including sections closed to traffic.

Add to section 5-1.38:

The Engineer will only consider a request for relief of maintenance and protection responsibility if the Engineer has suspended the work under Section 8-1.06.

Replace section 5-1.42 with:

5-1.42 Requests for Information (RFI)

Submit an RFI upon recognition of any event or question of fact arising under the Contract.

The Engineer responds to the RFI within three (3) days. Proceed with the work unless otherwise ordered. You may protest the Engineer's response by:

1. Submitting a potential claim record, using the **Supplemental Potential Claim Record** form, within three (3) days after receiving the Engineer's response
2. Complying with Section 5-1.43

Replace section 5-1.43 with:

5-1.43 Potential Claims and Dispute Resolution

5-1.43A General

Minimize and mitigate impacts of potentially claimed work or event.

For each potential claim, assign an identification number determined by chronological sequencing and the first date of the potential claim.

Use the identification number for each potential claim on the **Supplemental Potential Claim Record** form.

material may be excavated at the site based on the minimum number of samples taken before excavating at the site under section 6-1.03B(3).

2. Land use history of the local material location and surrounding property
3. Sampling protocol
4. Number of samples per volume of local material
5. QA and QC requirements and procedures
6. Qualifications of sampling personnel
7. Stockpile history
8. Name and address of the analytical laboratory that will perform the chemical analyses
9. Analyses that will be performed for lead and pH
10. Other analyses that will be performed for possible hazardous constituents based on:
 - 10.1. Source property history
 - 10.2. Land use adjacent to source property
 - 10.3. Constituents of concern in the ground water basin where the job site is located

The plan must be sealed and signed by an engineer who is registered as a civil engineer in the State or a professional geologist licensed as a professional geologist by the State.

If the plan requires revisions, the Engineer provides comments. Submit a revised plan within 7 days of receiving comments. Allow 7 days for the review.

6-1.03B(3) Analytical Test Results

At least 15 days before placing local material, submit analytical test results for each local material obtained from a noncommercial source or a source not regulated under CA jurisdiction. The analytical test results must include:

1. Certification signed by an engineer who is registered as a civil engineer in the State or a professional geologist licensed as a professional geologist by the State stating:

The analytical testing described in the local material plan has been performed. I performed a statistical analysis of the test results using the US EPA's ProUCL software with the applicable 95 percent upper confidence limit. I certify that the material from the local material source is suitable for unrestricted use at the job site, it has a pH above 5.0, does not contain soluble lead in concentrations equal to or greater than 5mg/l as determined by the Waste Extraction Test (WET) Procedures, 22 CA Code of Regs § 66261.24(a)(2) App II, does not contain lead in concentrations above 80 mg/kg total lead, is free from all other contaminants identified in the local material plan, and will comply with the job site's basin plan and water quality objectives of the RWQCB.

2. Chain of custody of samples
3. Analytical results no older than 1 year
4. Statistical analysis of the data using US EPA's ProUCL software with a 95 percent upper confidence limit
5. Comparison of sample results to hazardous waste concentration thresholds and the RWQCB's basin plan requirements and water quality objectives for the job site location

6-1.03B(4) Sample and Analysis

Sample and analyze local material from a (1) noncommercial source or (2) a source not regulated under CA jurisdiction:

1. Before bringing the local material to the job site
2. As described in the local material plan

3. Under US EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)

The sample collection must be designed to generate a data set representative of the entire volume of proposed local material.

Before excavating at the (1) noncommercial material source or (2) a source not regulated under CA jurisdiction, collect the minimum number of samples and perform the minimum number of analytical tests for the corresponding maximum volume of local material as shown in the following table:

Minimum Number of Samples and Analytical Tests for Local Material

Maximum volume of imported borrow (cu yd)	Minimum number of samples and analytical tests
< 5,000	8
5,000–10,000	12 for the first 5,000 cu yd plus 1 for each additional 1,000 cu yd or portion thereof
10,000–20,000	17 for the first 10,000 cu yd plus 1 for each additional 2,500 cu yd or portion thereof
20,000–40,000	21 for the first 20,000 cu yd plus 1 for each additional 5,000 cu yd or portion thereof
40,000–80,000	25 for the first 40,000 cu yd plus 1 for each additional 10,000 cu yd or portion thereof
> 80,000	29 for the first 80,000 cu yd plus 1 for each additional 20,000 cu yd or portion thereof

Do not collect composite samples or mix individual samples to form a composite sample.

Analyze the samples using the US EPA's ProUCL software with a 95 percent upper confidence limit. All chemical analysis must be performed by a laboratory certified by the SWRCB's Environmental Laboratory Accreditation Program (ELAP).

The analytical test results must demonstrate that the local material:

1. Is not a hazardous waste
2. Has a pH above 5.0
3. Has an average total lead concentration, based upon the 95 percent upper confidence limit, at or below 80 mg/kg
4. Is free of possible contaminants identified in the local material plan
5. Complies with the RWQCB's basin plan for the job site location
6. Complies with the RWQCB's water quality objectives for the job site location

6-1.03C Local Material Management

Do not place local material until authorized.

If the Engineer determines the appearance, odor, or texture of any delivered local material suggests possible contamination, sample and analyze the material. The sampling and analysis is change order work unless (1) hazardous waste is discovered or (2) the analytical test results indicate the material does not comply with section 6-1.03B(3).

Dispose of noncompliant local material at an appropriately permitted CA Class I, CA Class II or CA Class III facility. You are the generator of noncompliant local materials.

Replace section 6-1.04 with:**6-1.04 BUY AMERICA****6-1.04A General**

Buy America requirements do not apply to the following:

1. Tools and construction equipment used in performing the work
2. Temporary work that is not incorporated into the finished project

6-1.04B Crumb Rubber (Pub Res Code § 42703(d))

Furnish crumb rubber with a certificate of compliance. Crumb rubber must be:

1. Produced in the United States
2. Derived from waste tires taken from vehicles owned and operated in the United States

6-1.04C Steel and Iron Materials

Steel and iron materials must be melted and manufactured in the United States except:

1. Foreign pig iron and processed, pelletized, and reduced iron ore may be used in the domestic production of the steel and iron materials
2. If the total combined cost of the materials produced outside the United States does not exceed the greater of 0.1 percent of the total bid or \$2,500, the material may be used if authorized

Furnish steel and iron materials to be incorporated into the work with certificates of compliance and certified mill test reports. Mill test reports must indicate where the steel and iron were melted and manufactured.

All melting and manufacturing processes for these materials, including an application of a coating, must occur in the United States. Coating includes all processes that protect or enhance the value of the material to which the coating is applied.

6-1.04D Manufactured Products

Iron and steel used in precast concrete manufactured products must meet the requirements of section 6-1.04C regardless of the amount used.

Iron and steel used in other manufactured products must meet the requirements of section 6-1.04C if the weight of steel and iron components constitute 90 percent or more of the total weight of the manufactured product.

6-1.04E Construction Materials

The following construction materials must be produced in the United States under standards in 2 CFR 184.6:

1. Non-ferrous metals
2. Plastic and polymer-based products such as:
 - 2.1. Polyvinylchloride
 - 2.2. Composite building materials
3. Glass
4. Fiber optic cable including drop cable
5. Optical fiber
6. Lumber
7. Engineered wood
8. Drywall

Handle the material under all applicable laws, rules, and regulations, including those of the following agencies:

1. Cal/OSHA
2. CA RWQCB, Region 3 - Central Coast

Add to the end of section 7-1.02M(2):

Obtain the emergency phone numbers of the California Department of Forestry and Fire Protection unit headquarters. Submit these phone numbers to the Engineer before the start of job site activities. Post the agencies names and emergency phone numbers at a prominent place at the job site.

Hydrocarbon-fueled engines, both stationary and mobile, must be equipped with spark arresters pursuant to Pub Res Code § 4442 except for either of the following:

1. Motor trucks, truck tractors, buses, or passenger vehicles, if equipped with a muffler as defined in the Vehicle Code
2. Equipment powered by turbocharged engines if:
 - 2.1 Exhausted gases pass through the rotating turbine wheel
 - 2.2 There is no exhaust bypass to the atmosphere
 - 2.3 The turbocharger is in effective mechanical condition

Each toilet must have a metal ashtray at least 6 inches in diameter by 8 inches deep, half-filled with sand, and within easy reach of anyone accessing the facility.

Locate flammable materials at least 50 feet away from equipment service, parking, and gas or oil storage areas. Each small mobile or stationary engine site must be cleared of flammable material for a radius of at least 15 feet from the engine.

Furnish the following fire tools:

1. 1 shovel and 1 fully charged fire extinguisher UL rated at 4B:C or more on each truck, personnel vehicle, tractor, grader, or other heavy equipment.
2. 1 shovel and one 5-gallon water-filled backpack fire pump for each welder.
3. 1 shovel or 1 chemical pressurized fire extinguisher, fully charged, for each gasoline-powered tool, including chain saws, soil augers, and rock drills. The fire tools must always be within 25 feet from the point of operation of the power tool. Each fire extinguisher must be of the type and size required by the California Department of Forestry and Fire Protection.

Each shovel must be size O or larger and at least 46 inches long.

Furnish a pickup truck and operator that will be available for fire control during working hours.

The pickup truck and operator must patrol the area of construction for at least 1/2 hour after job site activities have ended.

Cal Fire, USFS, and BLM have established the following adjective class ratings for 5 levels of fire danger for use in public information releases and fire protection signing: "low," "moderate," "high," "very high," "extreme." Obtain the fire danger rating daily for the project area from the nearest Cal Fire unit headquarters, USFS ranger district office, or BLM field office. Monitor the National Weather Service daily forecasts for "fire weather watches" and "red flag warnings" covering the project's locations.

If the fire danger rating is "very high" or a "fire weather watch" is issued, then:

1. Falling of dead trees or snags must be discontinued.
2. No open burning is permitted and fires must be extinguished.
3. Welding must be discontinued except in an enclosed building or within an area cleared of flammable material for a radius of 25 feet.
4. Blasting must be discontinued.
5. Smoking is allowed only in automobiles and cabs of trucks equipped with an ashtray or in cleared areas immediately surrounded by a fire break unless prohibited by other authority.
6. Vehicular travel is restricted to cleared areas except in case of emergency.

If the fire danger rating is "extreme" or a "red flag warning" is issued, take the precautions specified for a "very high" fire danger rating or a "fire weather watch" issuance, except:

1. Smoking is only allowed in automobiles and cabs of trucks equipped with an ashtray.
2. Work of a nature that could start a fire requires that properly equipped fire guards be assigned to such operation for the duration of the work.

The Engineer may suspend work wholly or in part due to hazardous fire conditions. If the controlling activity is suspended due to hazardous fire conditions, the associated days are considered adverse weather-related conditions and working days will not be assessed. If field and weather conditions become such that the work is suspended, section 7-1.02M(2) will not be enforced for the period of the suspension.

Delete the 24th paragraph of section 7-1.04.

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8 PROSECUTION AND PROGRESS

Replace section 8-1.02A with:

8-1.02A General

Before or at the preconstruction conference, submit a progress schedule on a form of your choice.

On the schedule, show the order in which you propose to carry out the work, the start dates of the several salient features of the work (including procurement of materials, plant, and equipment), and the contemplated dates for completing those salient features.

If the contract is more than 60 working days, submit an update of the schedule on or before the last day of each month, showing the status of work actually completed during the period preceding the 20th of the month.

Subsequent to the time that submittal of a progress schedule is required, no progress payments will be made for any work until a satisfactory schedule has been submitted to the Engineer.

Delete sections 8-1.02B and 8-1.02C.

Replace the row for *Schedule* in the table in the 2nd paragraph of section 8-1.03 with:

Schedule	Baseline schedule and weekly statement of working days report
----------	---------------------------------------------------------------

Replace the first paragraph of Section 8-1.04B with:

Start job site activities by the date specified in the Engineer's letter providing notice that the Contract has been approved.

Replace *Reserved* in section 8-1.04F with:

8-1.04F Flexible Start

The 1st paragraph of section 8-1.04B does not apply.

Within 10 days after receiving notice that the Contract has been approved by the Attorney General or the attorney appointed and authorized to represent the Department, submit a request for authorization to start job site activities. The request must include:

1. Progress schedule
2. Date you and the engineer have agreed upon to start job site activities

The Department does not allow changes to the request after it is authorized.

Except for measuring controlling field dimensions and locating utilities, do not start job site activities until your WPCP or SWPPP, whichever applies, is received and authorized and the following submittals are received:

1. Notice of Materials To Be Used form.
2. Contingency plan for reopening closures to traffic.

If you obtain authorization to start job site activities for the date you requested, start job site activities on the requested date. If you fail to submit a request for authorization to start job site activities as specified or if the request is not authorized, start job site activities within 15 days after receiving notice of Contract approval. Start work before September 16, 2024.

Replace the 4th and 5th paragraphs of section 8-1.05 with:

The Engineer issues a weekly statement of working days report by the end of the following week. If you disagree with a weekly statement of working days report, submit an RFI within 5 business days of receipt of the report.

The weekly statement of working days report shows:

1. Working days and non-working days during the reporting week
2. Time adjustments
3. Calculations of work completion dates, including working days remaining
4. Controlling activities

Delete the 6th paragraph of section 8-1.05.

9-1.17B Reserved**9-1.17C Final Invoice**

Submit a fully itemized invoice, in triplicate, within 30 days after Contract acceptance, covering the actual work performed. The invoice must reference the Department of Transportation and the contract number.

Submit claims statements with the final invoice. Claims not submitted with the final invoice will not be considered.

Submit required final utilization reports to Engineer. Failure to provide the required forms with the final invoice will result in 25 percent (25%) of the dollar value of the bill being withheld from payment until the form is submitted. The amount will be returned to Contractor when satisfactory final utilization forms are submitted.

9-1.17D Final Payment and Claims**9-1.17D(1) General**

If you do not submit a claim statement, Engineer immediately processes the final invoice and the Department pays the amount due. This final payment is conclusive except as specified in Sections 5-1.27 and 9-1.21.

If you submit a claim statement, Engineer immediately processes the final invoice and the Department pays the amount due for the undisputed work. This payment is conclusive as to the amount of work completed and the amount payable except as affected by the claims or as specified in Sections 5-1.27 and 9-1.21.

9-1.17D(2) Claim Statement**9-1.17D(2)(a) General**

Submit additional information as to the basis and amount of the claim within 15 days of a request by Engineer. Failure to submit requested information or to provide access to records of the information is cause for denial of the claim.

9-1.17D(2)(b) Overhead Claims

Claims for overhead expenses must be supported by an audit report by an independent Certified Public Accountant. Claims are subject to audit by the State at its discretion.

9-1.17D(2)(c) Declaration

Submit a declaration that includes the following language with the claim statement:

I declare under penalty of perjury, according to the laws of the State of California, that the foregoing claims, with specific reference to the California False Claims Act (Govt Code § 12650 et seq.) and to the extent the project contains federal funding, the U.S. False Claims Act (31 USC § 3729 et seq.), are true and correct, and that this declaration was signed on _____ (date) _____, 20__ at _____, California.

9-1.17D(2)(d) Waiver

A claim is waived if:

1. Claim does not have a corresponding **Supplemental Potential Claim Record** identification number
2. Claim does not have the same nature, circumstances, and basis of claim as the corresponding **Supplemental Potential Claim Record**
3. Claim is not included in the claim statement

12-3.20A(2) Definitions

clear area width: Minimum width throughout the length of the barrier system that must be maintained clear of obstructions, objects, and work resources during non-working hours. The width is measured perpendicular from the non-traffic side toe.

set back distance: Space measured between the closest toe of temporary barrier and the edge of traveled way for each direction of traffic.

12-3.20A(3) Submittals

Submit as informational submittal for each type of temporary barrier system:

1. Certificate of compliance.
2. Manufacturer's installation instructions except for temporary concrete barriers with loop and pin and temporary concrete barriers with cross bolt.
3. Manufacturer's QC test results and daily production log, through the Data Interchange for Materials Engineering (DIME) website. QC test results must include the concrete mix design number, barrier stamped ID, and must be submitted within 3 business days of QC test completion.

Submit test reports for cross bolts that certify compliance with the applicable ASTM requirements. The test reports must be from a laboratory that is accredited to International Standards Organization/International Electrotechnical Commission 17025 by the American Association for Laboratory Accreditation (A2LA) or the ANSI-ASQ National Accreditation Board.

Submit a signed manufacturer's replacement evaluation report within 10 days of damage to a temporary steel barrier system.

12-3.20A(4) Quality Assurance**12-3.20A(4)(a) General**

Temporary barrier systems must comply with MASH Test Level 3 except for Type K temporary railing.

Except for temporary concrete barriers with loop and pin and temporary concrete barriers with cross bolt, temporary barrier systems must:

1. Be on the Authorized Materials List for highway safety features
2. Comply with the manufacturer's drawings shown on the Department's Division of Safety Programs website and the manufacturer's installation instructions

If a discrepancy exists, governing ranking in descending order is:

1. These specifications
2. Manufacturer's drawings
3. Manufacturer's installation instructions

QC sampling, testing, and inspection personnel must have an ACI Concrete Field-Testing Technician, Grade I certification.

Temporary concrete barrier segments must:

1. Comply with the requirements for tier 3 precast concrete in section 90-4
2. Be fabricated at a plant on the Authorized Facility Audit List

Concrete must be sampled and tested at the minimum frequencies shown in the following table:

Concrete QC Tests

Quality characteristic	Test method	Minimum testing frequency
Compressive strength	ASTM C172/C172M, ASTM C31/C31M, and ASTM C39/C39M	Once per 300 cu yd of concrete cast, or every day of casting, whichever is more frequent
Slump	ASTM C143/C143M	
Temperature at time of mixing	ASTM C1064/C1064M	
Density	ASTM C138	Once per 600 cu yd of concrete cast or every 7 days of batching, whichever is more frequent
Air content	ASTM C231/C231M or ASTM C173/C173M	If concrete is air entrained, once for each set of cylinders, and when conditions warrant

A daily production log of PC activities must be maintained under section 90-4.01C(4).

12-3.20A(4)(b) Quality Control

Replace damaged temporary concrete barrier segments with exposed reinforcing steel or concrete spalls 1-1/2 inches in depth and 4 inches in width or greater.

Replace damaged temporary steel barrier segments with permanent bends, tearing, or buckling as described in the signed manufacturer's replacement evaluation report.

Realign temporary barrier system within 2 days of impact or displacement when displaced more than 3 inches except when the temporary barrier system is displaced into a traveled lane realign immediately.

12-3.20B Materials

12-3.20B(1) General

Temporary barrier segment must:

1. Be a minimum 31-1/2 inches in height
2. Have at least two lifting holes
3. Be designed to be used with temporary traffic screen when required

Temporary barrier segment may have your name or logo on each barrier segment. The name or logo must be no more than 4 inches in height and must be located no more than 12 inches above the bottom of the barrier segment.

12-3.20B(2) Temporary Concrete Barriers

12-3.20B(2)(a) General

Temporary concrete barrier segment must:

1. Be precast concrete with a minimum 4,000-psi compressive strength.
2. Have reinforcement steel that complies with section 52.
3. Have a finished surface that complies with section 51-1.03F(2).
4. Include the manufacturer's name, lot number, and month and year of manufacture stamped on the top of each barrier segment except for Type K temporary railing. The stamped information must be:
 - 4.1. No more than 6 inches in height.

- 4.2. From 3/16 to 1/4 inch in depth.
- 4.3. Centered on the top width of the barrier segment.
- 5. Use one of the following segment connections:
 - 5.1. Loop and pin
 - 5.2. "J" hook
 - 5.3. Cross bolt
- 6. Comply with the tolerances shown in the following table:

Precast Barrier Tolerances

Quality Characteristic	Tolerance(±)
Length (in)	1
Insert Placement (in)	1/2
Horizontal Alignment (in)	1/8 per 10 feet of length
Deviation of Ends (in):	
Horizontal Skew	1/4
Vertical Batter	1/8 per foot of depth

Reinforcement steel must:

- 1. Comply with ASTM A615 or ASTM A706, Grade 60
- 2. Be galvanized under section 52-3, when required

Combinations of reinforcing steel and welded wire reinforcement are allowed. Welded wire reinforcement must comply with ASTM A1064.

Stake must:

- 1. Comply with ASTM A36/A36M-14 or ASTM A529-14, Grade 50
- 2. Be 1-1/2-inch-diameter-by-48-inch-long
- 3. Have a plate 1/2-by-3-1/2-by-3-1/2-inch welded 2 inches down from the upper end using a 1/4-inch fillet weld under AWS D1.1 or D1.4

Anchor bolt must:

- 1. Be a threaded rod, 1-1/8-inch-diameter-by-10-1/2-inch-long
- 2. Comply with ASTM A307
- 3. Include a nut complying with ASTM A563
- 4. Include a plate washer:
 - 4.1. 1/2-by-3-1/2-by-3-1/2-inch with a 1-1/4-inch diameter hole in the center
 - 4.2. Complying with ASTM A36/A36M
 - 4.3. Galvanized post fabrication under section 75-1.02B

Epoxy adhesive must have a bond strength of minimum 1,650 psi, except for temporary concrete barrier with "J" Hook.

12-3.20B(2)(b) Temporary Concrete Barriers with Cross Bolt

Cross bolt hardware includes:

- 1. Cross bolt
- 2. Nut complying with ASTM A563
- 3. Hardened washer complying with ASTM F436, Type 1
- 4. Plate washer complying with ASTM A36/A36M and galvanized post fabrication under section 75-1.02B

Cross bolt must:

1. Be a 7/8-inch bolt or threaded rod and comply with one of the following:
 - 1.1. HS threaded rod ASTM A193, Grade B7
 - 1.2. HS threaded rod ASTM A449, Type 1
 - 1.3. HS nonheaded anchor bolt ASTM F1554, Grade 105, Class 2A
2. Have a permanent grade symbol and manufacturer's identifier

12-3.20B(2)(c) Temporary Concrete Barriers with Loop and Pin

12-3.20B(2)(c)(i) General

Steel bar loop must comply with ASTM A36/A36M.

Connecting bolt must comply with ASTM A307, be 1-1/4-inch in diameter, and a minimum 26-inch length. A round bar of the same diameter and length may be substituted for the connecting bolt. The round bar must:

1. Comply with ASTM A36/A36M
2. Have a 3-inch-diameter, 3/8-inch-thick plate welded on the upper end using a 3/16-inch fillet weld

12-3.20B(2)(c)(ii) Type K Temporary Railings

Anchor bolt must:

1. Be a threaded rod, 1-inch-diameter-by-15-1/2-inch-long
2. Comply with ASTM A307
3. Include a nut complying with ASTM A563
4. Include a plate washer:
 - 4.1. 3/8-by-2-1/2-by-3-inch with a 1-1/8-inch diameter hole in the center
 - 4.2. Complying with ASTM A36/A36M
 - 4.3. Galvanized post fabrication under section 75-1.02B

12-3.20B(2)(d) Temporary Concrete Barriers with "J" Hook

"J" hook must:

1. Comply with ASTM A36/A36M
2. Be 3/8-inch-thick steel plate
3. Be a minimum 18 inches in height

Anchor hardware must include:

1. Anchor bolt insert 1-inch diameter, 6-inch long
2. Hex head bolt 1-inch diameter with a minimum length of 11 inches plus thickness of asphalt overlay
3. Plate washer 3/8-inch by 3-inch by 3-inch
4. Retainer ring

12-3.20B(3) Temporary Steel Barriers

Temporary steel barrier segment must:

1. Be galvanized steel.
2. Have a joint connection.
3. Include permanent identification information with no more than 6 inches in height and 12 inches in length and centered on the top width of the segment. The identification information must include:

- 3.1. Manufacturer's name.
- 3.2. Serial number.
- 3.3. Lot number.
- 3.4. Month and year of manufacture.

19-foot temporary steel barrier segment must be filled to a depth of 11-13/16 inches with concrete ballast.

12-3.20C Construction

12-3.20C(1) General

Clean temporary barrier segments at time of installation and at least every 6 months thereafter.

Install temporary barrier systems based on the requirements shown in the following table:

Minimum Clear Area Width

Barriers	Configuration	Height differentials 3 feet or less (ft)	Height differentials greater than 3 ft up to 8 feet (ft)	Edge of deck or height differentials greater than 8 feet (ft)	Fixed objects, falsework members, or temporary supports ^a (ft)
10-foot, 20-foot & 30-foot temporary concrete barriers with cross bolt	Freestanding	1	2	5	5
12.5-foot temporary concrete barriers with "J" hook	Freestanding	3	4	8	7
	3 stakes per segment traffic side	1	1	2	3
	2 anchor bolts per segment traffic side	1	1	2	3
20-foot temporary concrete barriers with "J" hook	Freestanding	3	4	8	7
	4 stakes per segment traffic side	1	1	2	3
	3 anchor bolts per segment traffic side	1	1	2	3
50-foot temporary steel barriers	Staked or anchored at both ends only	6	7	9	10
	Staked or anchored every 250 feet	5	6	8	9
	Staked or anchored every 33 feet	1	1	3	4
19-foot temporary steel barriers	Freestanding	4	5	7	8
20-foot Type K temporary railings	Freestanding	2	3	8	7
	2 stakes or 2 anchor bolts per segment traffic side	1	1	3	4
	4 stakes or 4 anchor bolts per segment	N/A	N/A	3	3

^aThe minimum clear area width to a falsework or temporary support footing can be 2 feet less than the clear area width shown. Measure clear area width to the footing edge closest to traffic.

Stake temporary barrier systems when placed on an asphalt concrete surface.

Anchor temporary barrier systems when placed on a concrete surface. For bridge decks, confirm the anchor will not penetrate closer than 1-1/2 inches from the bottom of the deck before placement. When temporary barrier is not shown, request the Engineer to verify the bridge deck thickness.

For installations on concrete surfaces, drill holes and bond threaded rods or dowels under section 51-1.03E(5). Do not drill the top of supporting beams or girders, bridge expansion joints, or drains.

Install stakes and anchor bolts so the heads do not project above the top of the temporary barrier pocket profile.

In addition to the temporary barrier minimum length required, for the approach zone before the protected area, place a minimum:

1. 60 feet temporary barrier on facilities with a posted speed of 45 mph or less
2. 100 feet temporary barrier on facilities with a posted speed greater than 45 mph

Offset the approach end of temporary barrier systems a minimum of 15 feet from the edge of an open traffic lane, use the offset rate shown in the following table:

Temporary Barrier System Offset Rate

Posted speed (mph)	Rate ^a
0 to 45	10:1
46 to 60	15:1
61 to 70	20:1

^aRate is longitudinally to transversely with respect to the edge of the traveled way

If a 15-foot minimum offset cannot be achieved, offset temporary barrier systems the maximum distance available and install an authorized temporary crash cushion system at each barrier approach end.

Install a reflector on the top or face of barrier segments placed within 10 feet of a traffic lane. Space reflectors at approximately 20-foot intervals. Apply adhesive for mounting the reflector under the reflector manufacturer's instructions.

Install a Type P marker panel complying with section 82 at:

1. Each end of a temporary barrier system placed adjacent to a two-lane, two-way highway
2. The end facing traffic for a temporary barrier system installed adjacent to a one-way roadbed
3. The end of the skew nearest the traveled way when a temporary barrier system is placed on a skew

Maintain a minimum height of 31-1/2 inches above surface for temporary barrier systems. For paving activities adjacent to temporary barriers, do not pave within 2 feet of the barrier segments unless authorized. For paving under the temporary barrier, remove and reset the barrier.

Remove temporary barrier systems when no longer required for the work. Remove stakes and anchor bolts so that minimal damage is done to surface.

After removing the temporary barrier systems:

1. Restore the area to its previous condition or construct it to its planned condition if temporary excavation or embankment was used to accommodate the temporary barrier.
2. Remove all threaded rods or dowels to a depth of at least 1 inch below the top of a concrete surface. Fill the resulting holes with mortar under section 51-1 except cure the mortar by the water method or by the curing compound method using curing compound no. 6.
3. Repair a damaged asphalt surface by providing a clean, smooth edge around the damaged area. Repair any heaving caused by stake removal to provide a uniform surface. Remove loose debris and use compressed air to clean out the stake hole. Comply with manufacturer's requirements except fill the stake hole with grout to existing pavement elevation under section 51-1.

If the Engineer orders a lateral move of a temporary barrier system and repositioning is not shown, the lateral move is change order work except for work area access, clear area width compliance, or because of your means and methods to perform the work.

12-3.20C(2) Temporary Concrete Barriers

12-3.20C(2)(a) General

Before placing temporary barrier systems on the job site and after each described relocation, paint the exposed surfaces of the segments with white paint complying with specifications for acrylic emulsion paint for exterior masonry.

Place and maintain the abutting ends of segments in alignment without substantial offset from each other.

Install temporary barrier systems with the last segment extending a minimum of 60 feet past the length of the protected area.

Stake or anchor a minimum 20 feet of barrier at each end of temporary barrier systems. For:

1. Temporary concrete barriers with "J" hook, place a minimum of 6 stakes or anchors at each end, 3 on each side.
2. Temporary concrete barriers with cross bolt, place a minimum of 6 stakes or anchors at each end, 3 on each side.
3. Type K temporary railings, place 4 stakes or anchors at each end, 2 on each side.

Maintain a minimum 1-foot set back distance for temporary barrier systems placed between two-way traffic.

12-3.20C(2)(b) Temporary Concrete Barriers with Cross Bolt

Install a minimum 210 feet of temporary concrete barrier with cross bolt.

Place temporary barrier systems on a concrete or asphalt concrete surface.

Do not stake or anchor temporary barrier systems, except for 20 feet at each end.

Intermix segments of different lengths within a temporary barrier system when necessary.

For temporary barrier systems placed on a curved layout, maintain the minimum curve radius shown in the following table:

Minimum Curve Radius	
Segment length (ft)	Curve radius (ft)
10	125
20	265
30	400

12-3.20C(2)(c) Temporary Concrete Barriers with Loop and Pin

12-3.20C(2)(c)(i) General

Not Used

12-3.20C(2)(c)(ii) Type K Temporary Railings

Do not install Type K temporary railings on projects advertised after December 31, 2026.

Install a minimum 160 feet of Type K temporary railing.

Excavate and backfill under section 19-3.

Do not compact earth fill placed behind Type K temporary railings in a curved layout.

Place temporary barrier systems on a firm, stable surface. Grade the area to provide a uniform bearing surface throughout the entire length of the system.

Anchor or stake the first and last segment and every other segment with four stakes as shown, when placed between two-way traffic.

12-3.20C(2)(d) Temporary Concrete Barriers with "J" Hook

Install a minimum 200 feet of temporary concrete barrier with "J" hook.

Place temporary barrier systems on a concrete or asphalt concrete surface. The asphalt concrete surface must have a minimum 2 inches of asphalt concrete over 6 inches of compacted subbase.

When temporary barrier systems are placed between two-way traffic, install on each side as shown:

1. 2 anchors or stakes for 12.5-foot segments
2. 3 anchors of stakes for 20-foot segments

12-3.20C(3) Temporary Steel Barriers

12-3.20C(3)(a) General

Install temporary barrier systems under manufacturer's instructions.

Maintain a minimum 2-foot set back distance on both sides of temporary barrier systems placed between two-way traffic.

12-3.20C(3)(b) 50-Foot Temporary Steel Barriers

Use 50-foot temporary steel barriers with or without rubber pads.

Install a minimum 250 feet of 50-foot temporary steel barrier. The last segment must extend a minimum 25 feet past the length of the protected area.

Place temporary barrier systems on a concrete or asphalt concrete surface. Do not place systems on a dirt surface.

Anchor or stake the first and last segment of temporary barrier systems.

Maintain a minimum radius of 800 feet for segments placed on a curved layout. For tighter curves down to a 250-foot radius, contact the manufacturer before installation and provide manufacturer's written recommendation for the installation.

12-3.20C(3)(c) 19-Foot Temporary Steel Barriers

Install a minimum 323 feet of 19-foot temporary steel barrier.

Stake the first and last segment of temporary barrier systems.

Maintain a minimum radius of 262 feet for segments placed on a curved layout.

12-3.20D Payment

The payment quantity for temporary barrier systems is the length measured along the top of the barrier segments.

Add to the beginning of section 12-3.32C:

Place PCMSs in advance of the 1st warning sign for each stationary lane closure.

Add between the 9th and 10th paragraphs of section 12-3.32C:

Start displaying the message on the sign 10 minutes before closing the lane or shoulder or when directed by the Engineer.

Replace section 12-3.36 with:

12-3.36 PORTABLE TRANSVERSE RUMBLE STRIPS

12-3.36A General

12-3.36A(1) Summary

Section 12-3.36 includes specifications for placing portable transverse rumble strips.

12-3.36A(2) Definitions

Not Used

12-3.36A(3) Submittals

Submit a copy of the manufacturer's instructions.

12-3.36A(4) Quality Assurance

Not Used

12-3.36B Materials

The strip must be either the RoadQuake 2 or the RoadQuake 2F Folding Temporary Portable Rumble Strip manufactured by Plastic Safety Systems, Inc. For information on obtaining the rumble strips, contact:

CUSTOMER SERVICE
PLASTIC SAFETY SYSTEMS, INC.
2444 BALDWIN RD
CLEVELAND, OH 44104

Telephone no.: (800) 662-6338 or (216) 231-8590

12-3.36C Construction

Place portable transverse rumble strips before closing the lane to traffic.

The color of the portable transverse rumble strips must be black or orange. Use 2 arrays and, each array must consist of 3 rumble strips.

Portable transverse rumble strips must not be placed:

1. On sharp horizontal or vertical curves
2. Through pedestrian crossings

If the portable transverse rumble strips become out of alignment or skewed by more than 6 inches, measured from one end to the other, readjust to bring the placement back to the original location.

Portable transverse rumble strips are not required if any of the following conditions is met:

1. Work occupies a location for 4 hours or less.
2. Posted speed limit is below 45 mph.
3. Work is of emergency nature.
4. Work zone is in snow or icy weather conditions.

For a RoadQuake 2 rumble strip, securely connect the 3 sections under the manufacturer's instructions before placing them in the traffic lane.

Remove all portable transverse rumble strips and warning signs before opening the lane to traffic.

If the Engineer determines that the portable transverse rumble strips no longer provide audible and vibratory alerts, replace them.

12-3.36D Payment

Not Used

Add to section 12-4.02A(2):

special days: Martin Luther King Jr. Day, Cesar Chavez Day, Amgen Tour of California, Ride 2 Recovery, Lompoc Flower Festival, California Coast Classic Bike Tour, Solvang Autumn Double, Solvang Spring Double

Add between the 1st and 2nd paragraphs of section 12-4.02A(3)(c):

Submit a contingency plan for each of the following activities:

1. Roadway excavations encroaching on the traveled way not protected by Type K railing
2. HMA paving
3. Culvert slurry-cement backfill
4. Striping

Add to the end of section 12-4.02C(1):

Keep the full width of the traveled way open to traffic when no active construction activities are occurring in the traveled way or within 6 feet of the traveled way.

Replace section 12-4.02C(3)(f) with:

12-4.02C(3)(f) Closure Restrictions for Designated Holidays and Special Days

Closure restrictions for designated holidays and special days are shown in the following table:

Lane Closure Restrictions For Designated Holidays And Special Days											
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun	Mon
x	H Xx	xx	xx	xxx							
	SD Xx										
x	Xx	H xx	xx	xxx							
		SD xx									
	Xx	xx	H xx	xx	Xxx						
			SD xx								
x	Xx	xx	xx	H xx	Xxx						
				SD xx	Xxx						
				xx	H Xx	xxx					
					SD Xx						
					Xx	H xx	xxx				
						SD xx					
						x	H xx	xxx			
					X	xx	H* xx	xx	xx	xx	xxx
							SD xx				
Legend:											
	Refer to lane requirement charts.										
x	The full width of the traveled way must be open for use by traffic after 1200.										
xx	The full width of the traveled way must be open for use by traffic.										
xxx	The full width of the traveled way must be open for use by traffic until 0800.										
H	Designated holiday										
H*	Thanksgiving Holiday. The full width of the traveled way must be open for use by traffic between Tuesday at 1200 until the following Monday at 0800.										
SD	Special day										

Replace section 12-4.02C(3)(k) with:

12-4.02C(3)(k) Conventional Highway Lane Requirement Charts

Comply with the requirements for the conventional highway lane closures shown in the following chart:

Chart No. K1 Conventional Highway Lane Requirements																												
County: Santa Barbara					Route/Direction: 1/NB and SB										Post Mile: 11.3/11.6													
Closure limits: In Santa Barbara County about 7 miles south of Lompoc at various locations from 0.1 mile south of El Jaro Creek Bridge to 0.2 mile north of El Jaro Creek Bridge																												
Hour	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
Mon–Thu	R	R	R	R	R					R	R	R	R	R	R	R						R	R	R	R			
Fri	R	R	R	R	R					R	R	R	R	R	R													
Sat																												
Sun																												
Legend:																												
<table border="0"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px; text-align: center;">R</td> <td>Provide at least 1 through traffic lane not less than 10 feet in width for use by both directions of travel. (Reversing Control)</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td>Work is allowed within the highway where a shoulder or lane closure is not required.</td> </tr> </table>																									R	Provide at least 1 through traffic lane not less than 10 feet in width for use by both directions of travel. (Reversing Control)		Work is allowed within the highway where a shoulder or lane closure is not required.
R	Provide at least 1 through traffic lane not less than 10 feet in width for use by both directions of travel. (Reversing Control)																											
	Work is allowed within the highway where a shoulder or lane closure is not required.																											
REMARKS: The number of through traffic lanes in each direction of travel is 1.																												
Inclusive of this and other adjacent projects, only a single stationary lane closure is allowed concurrently within two (2) miles of each other.																												
Advanced notification signing placed 7 days in advance of work starting.																												

Replace the 1st paragraph of section 12-4.02C(7)(a) with:

Control traffic using stationary closures, except you may use a moving closure during traffic striping and pavement marker placement using a bituminous adhesive. Do not use a moving lane closure when grinding for recessed striping and recessed markers.

Add to the end of section 12-4.02C(7)(b):

For a stationary one-way-reversing traffic-control lane closure, you may stop traffic in 1 direction for periods not to exceed 10 minutes. After each stoppage, all accumulated traffic for that direction must pass through the work zone before another stoppage is made.

The maximum length of a single stationary one-way-reversing traffic-control lane closure is 1 mile between flaggers.

Add to the 1st paragraph of section 14-6.03A:

This project is within or near habitat for the regulated species shown in the following table:

Regulated Species
California red-legged frog

Replace item 1 in the list in the 2nd paragraph of section 14-6.03A with:

1. Stop all work within a 100-foot radius of the discovery except as shown in the following table:

Regulated species	Protective radius (feet)
California red-legged frog	50

Add to section 14-6.03A:

Species protection areas within the project limits are as specified in the following table:

Species Protection Areas	
Identification name	Location
Project Limits	Entire project limits

Use the protocols for the corresponding regulated species shown in the following table:

Regulated species name	Protocol
California red-legged frog	Comply with section 10-1.03 and section 14-6.03D(1)

Replace the list in the 2nd paragraph of section 14-6.03D(1) with:

1. Monitor regulated species within the project area
2. Ensure that construction activities do not result in the take of regulated species
3. Immediately notify the Engineer of any take of regulated species
4. Prepare, submit, and sign notifications and reports

Replace section 71-6.03 with:

71-6.03 CULVERTS AND PIPELINES

71-6.03A General

Abandon culverts or pipelines by removing portions of the culverts or pipelines, filling the inside, and backfilling the depressions and trenches to grade.

Notify the Engineer before abandoning a culvert or pipeline.

71-6.03B Materials

Openings into existing structures that are to remain in place must be plugged with minor concrete under section 90.

71-6.03C Construction

Wherever culverts or pipelines intersect side slopes, remove them to a depth of at least 3 feet. Measure the depth normal to the plane of the finished side slope. Abandon the remaining portion of the culvert or pipeline.

Culverts or pipelines that are 12 inches or more in diameter must be completely filled by authorized methods. Backfill with sand that is clean, free draining, and free from roots and other deleterious substances. As an alternative to sand, you may backfill with one of the following:

1. Controlled low-strength material under section 19-3.02G
2. Slurry cement backfill under section 19-3.02E

Ends of culverts and pipelines must be securely closed by a 6-inch-thick, tight-fitting plug or wall of commercial-quality concrete.

71-6.03D Payment

If backfilling inside the culvert or pipeline is required, payment for backfilling inside the culvert or pipeline is paid for as sand backfill. Payment for backfilling outside the culvert or pipeline is included in the payment for abandon culvert or abandon pipeline.

Link to the Standard Specifications applicable to the 2023 Edition of the Standard Specifications by reference made a part of the Agreement are available at:

<https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
05	SB	1	11.3/11.6	1	11

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-7	DRAINAGE PLANS, PROFILES, DETAILS, AND QUANTITIES
8	CONSTRUCTION AREA SIGNS
9	SUMMARY OF QUANTITIES
10-11	REVISED STANDARD PLANS

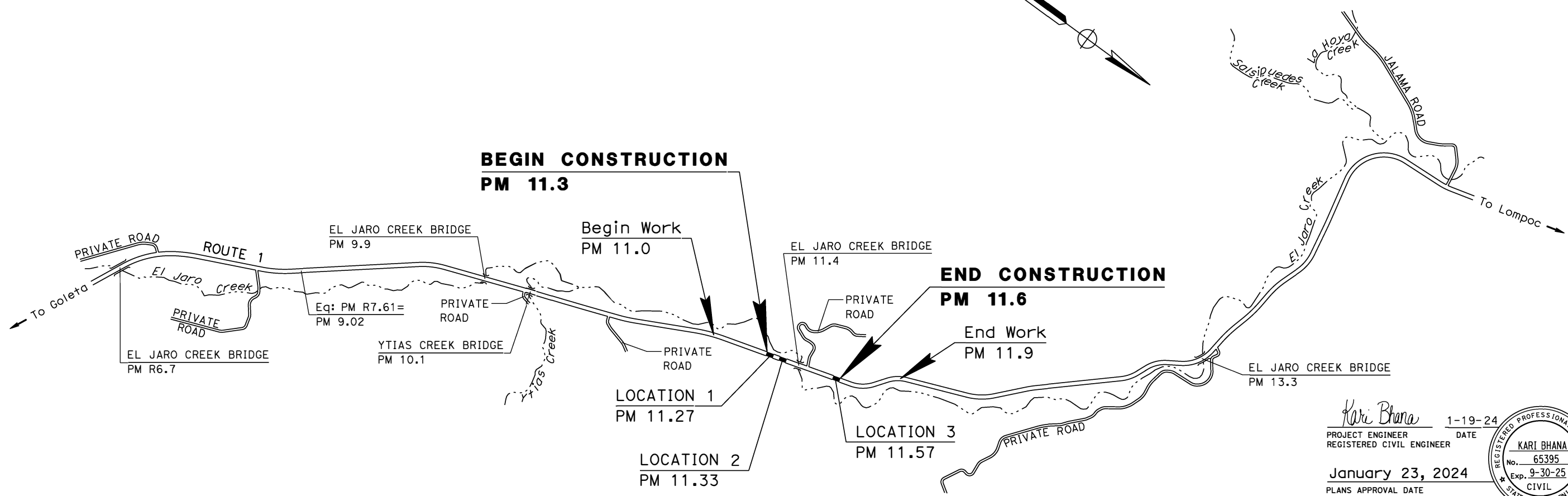
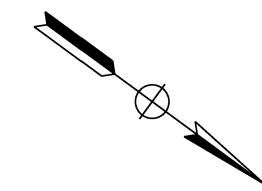
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY**

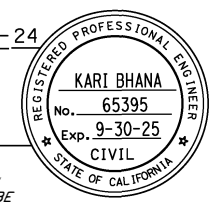
**IN SANTA BARBARA COUNTY
ABOUT 7 MILES SOUTH OF LOMPOC
AT VARIOUS LOCATIONS
FROM 0.1 MILE SOUTH OF EL JARO CREEK BRIDGE
TO 0.2 MILE NORTH OF EL JARO CREEK BRIDGE**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2023



PROJECT MANAGER ANDREW ROSE
DESIGN MANAGER ANDREW ROSE

Kari Bhana 1-19-24
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER
January 23, 2024
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.

CONTRACT No.	05A2702
PROJECT ID	0523000046

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

NO SCALE

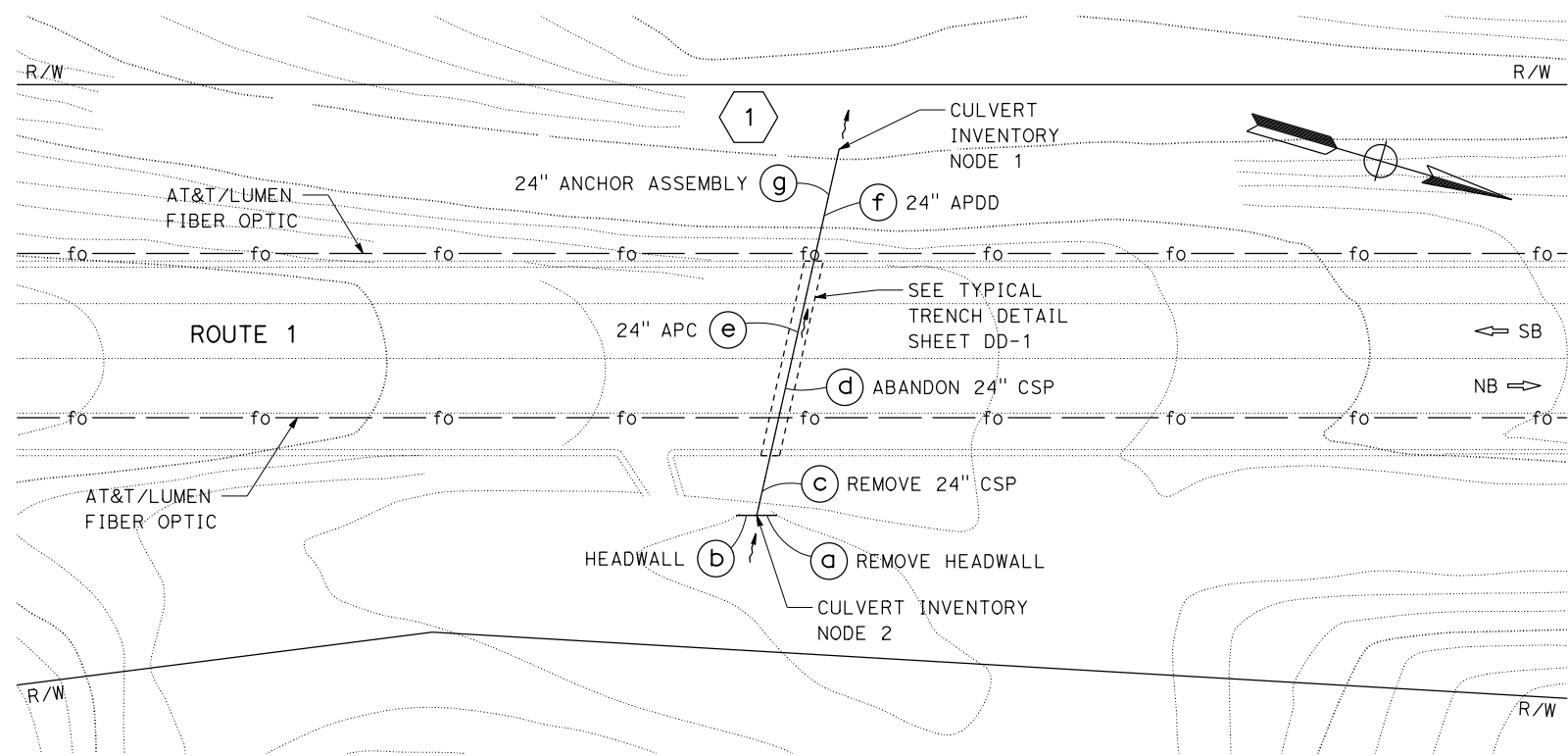
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LAST REVISION 01-19-24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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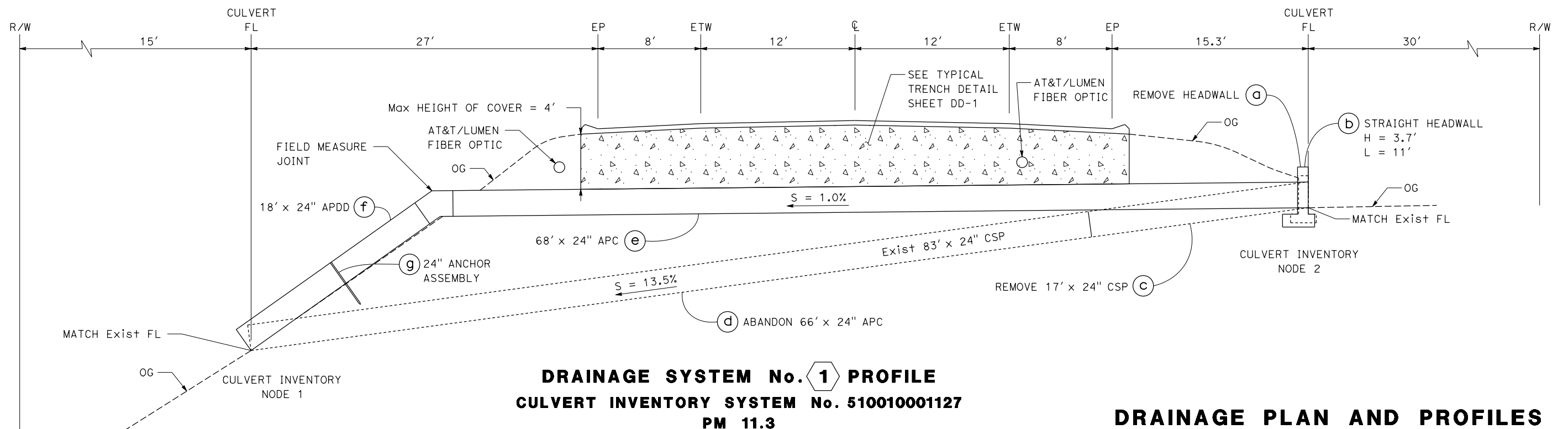
Kari Bhana
 REGISTERED CIVIL ENGINEER DATE 1-19-24
 January 23, 2024
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR HEADWALL DESIGN, USE STANDARD PLAN D89B.
- EXACT LOCATION AND DEPTH OF FIBER OPTIC CONDUIT IS UNKNOWN.
- UTILITY OWNERSHIP:
FIBER OPTIC - AT&T/LUMEN



DRAINAGE SYSTEM No. 1 PLAN
CULVERT INVENTORY SYSTEM No. 510010001127
PM 11.3
 NO SCALE



DRAINAGE SYSTEM No. 1 PROFILE
CULVERT INVENTORY SYSTEM No. 510010001127
PM 11.3
 NO SCALE

DRAINAGE PLAN AND PROFILES
LOCATION 1

APPROVED FOR DRAINAGE WORK ONLY

D-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
St. Gobans® MAINTENANCE DESIGN	ANDREW ROSE	KARI BHANA	11-13-23
		ANDREW ROSE	01-22-24
	CHECKED BY	DESIGNED BY	

DATE PLOTTED => 24-JAN-2024
 TIME PLOTTED => 13:45
 LAST REVISION 01-19-24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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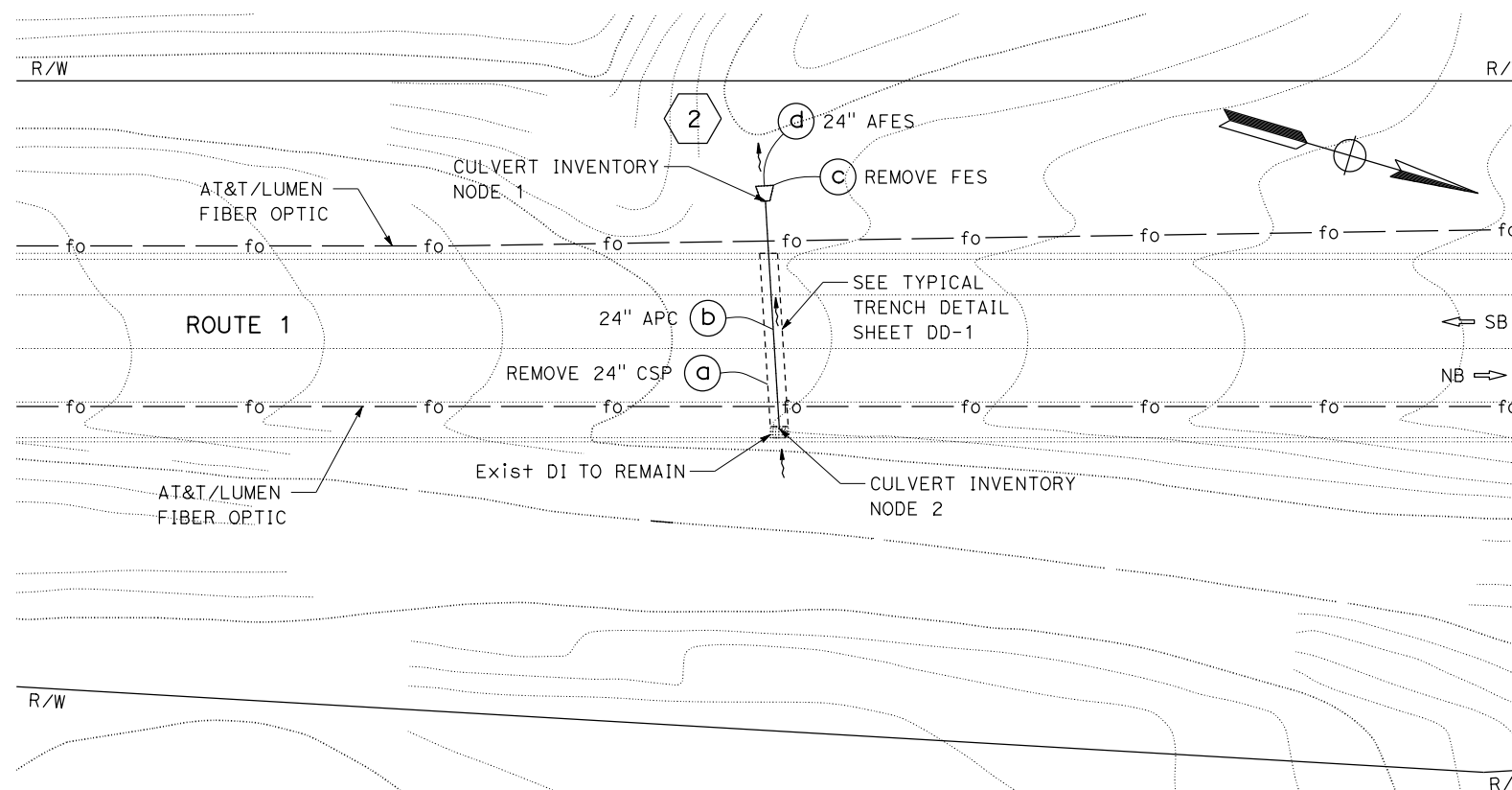
Kari Bhana 1-19-24
 REGISTERED CIVIL ENGINEER DATE

January 23, 2024
 PLANS APPROVAL DATE

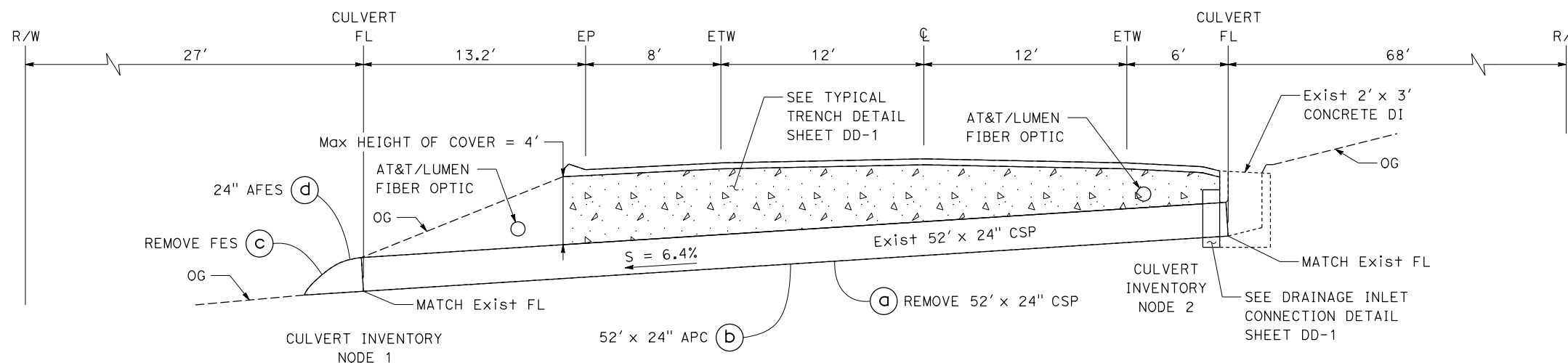
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXACT LOCATION AND DEPTH OF FIBER OPTIC CONDUIT IS UNKNOWN.
- UTILITY OWNERSHIP:
 FIBER OPTIC - AT&T/LUMEN



DRAINAGE SYSTEM No. 2 PLAN
CULVERT INVENTORY SYSTEM No. 510010001133
PM 11.3
 NO SCALE



DRAINAGE SYSTEM No. 2 PROFILE
CULVERT INVENTORY SYSTEM No. 510010001133
PM 11.3
 NO SCALE

DRAINAGE PLAN AND PROFILES
LOCATION 2

APPROVED FOR DRAINAGE WORK ONLY

D-2

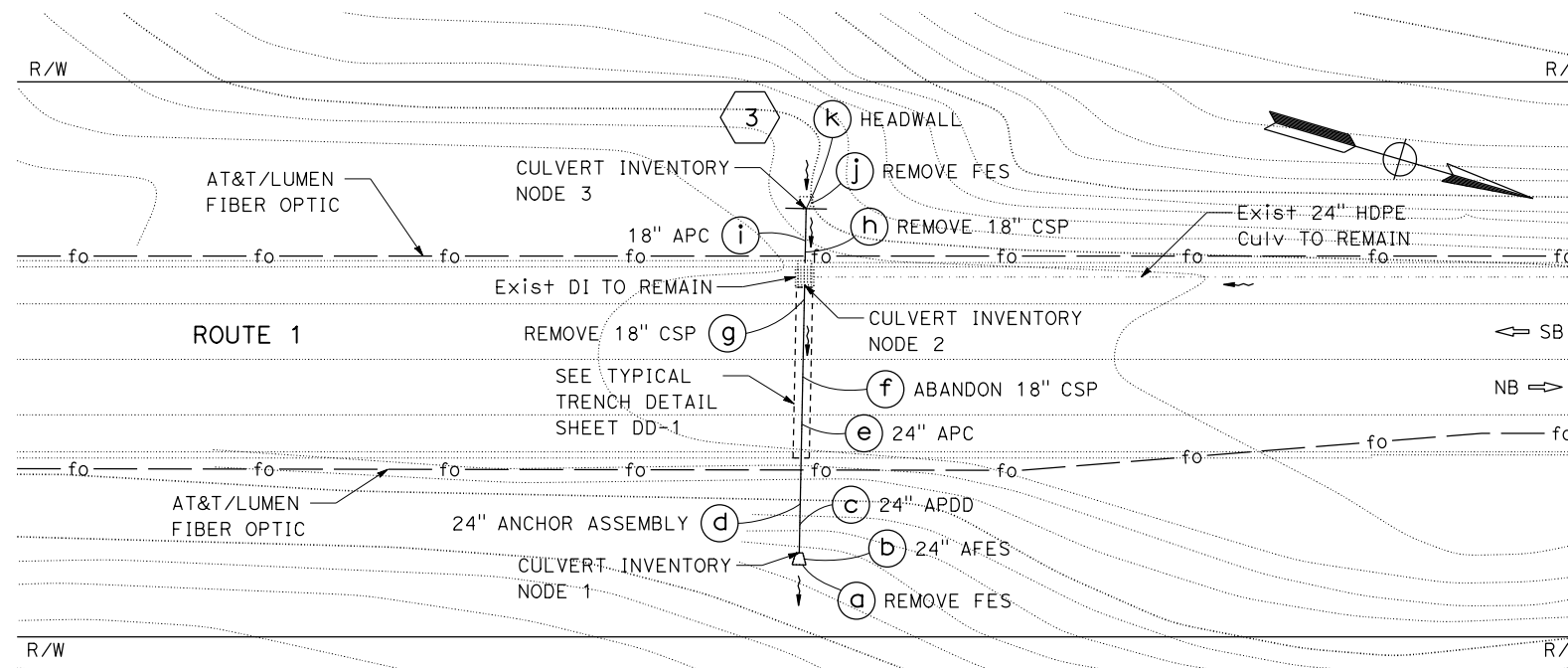
x	KLB	01-22-24	KARI BHANA	ANDREW ROSE	ANDREW ROSE
	KLB	11-13-23			
x	REVISOR	DATE	DESIGNER	CHECKER	FUNCTIONAL SUPERVISOR
	KLB	01-22-24			
x	DESIGNED BY	DATE	CHECKED BY	FUNCTIONAL SUPERVISOR	DESIGNATION
	KLB	11-13-23			
x	CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR	DESIGNATION	DESIGNATION
	KLB	ANDREW ROSE	ANDREW ROSE	ANDREW ROSE	MAINTENANCE DESIGN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1	11.3/11.6	4	11

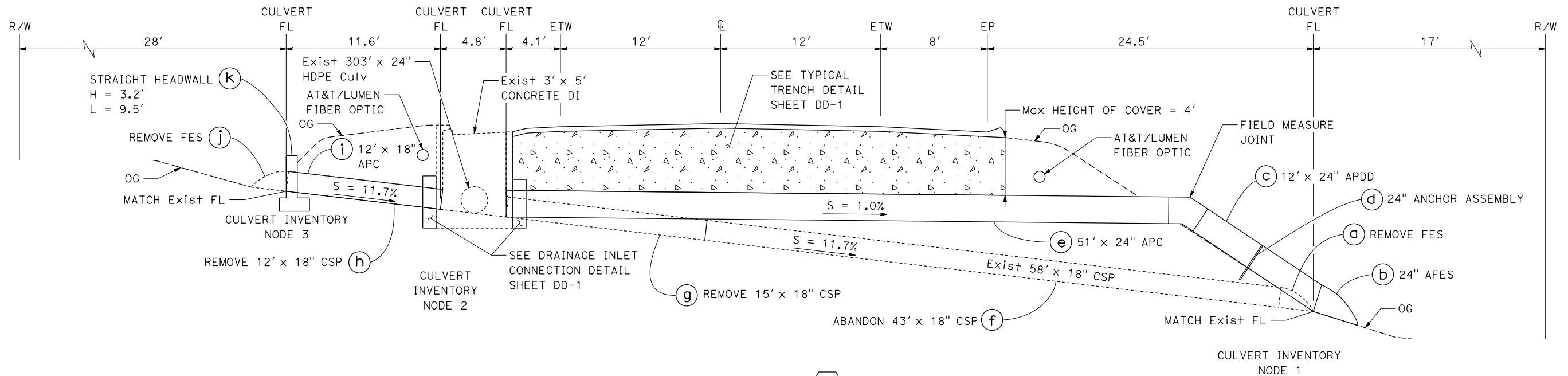
Kari Bhana
 REGISTERED CIVIL ENGINEER DATE 1-19-24
 January 23, 2024
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- FOR HEADWALL DESIGN, USE STANDARD PLAN D89B.
- EXACT LOCATION AND DEPTH OF FIBER OPTIC CONDUIT IS UNKNOWN.
- UTILITY OWNERSHIP:
FIBER OPTIC - AT&T/LUMEN



DRAINAGE SYSTEM No. 3 PLAN
CULVERT INVENTORY SYSTEM No. 510014001157
PM 11.6
 NO SCALE



DRAINAGE SYSTEM No. 3 PROFILE
CULVERT INVENTORY SYSTEM No. 510014001157
PM 11.6
 NO SCALE

DRAINAGE PLAN AND PROFILES
LOCATION 3

APPROVED FOR DRAINAGE WORK ONLY

D-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans MAINTENANCE DESIGN	ANDREW ROSE	KLB	01-22-24
	ANDREW ROSE	KLB	11-13-23
	CHECKED BY	REVISOR	DATE
		ANDREW ROSE	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1	11.3/11.6	5	11

Kari Bhana
REGISTERED CIVIL ENGINEER
DATE 1-19-24

January 23, 2024
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.

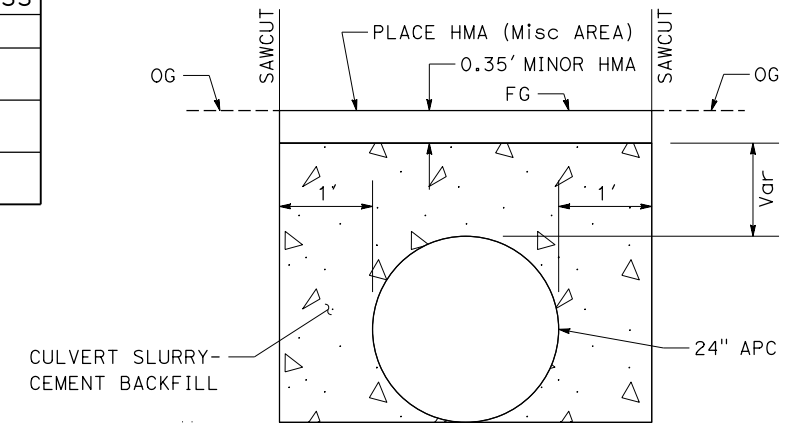
REGISTERED PROFESSIONAL ENGINEER
KARI BHANA
No. 65395
Exp. 9-30-25
CIVIL
STATE OF CALIFORNIA

**24" APC ALLOWABLE PIPE MATERIALS
(DRAINAGE SYSTEM Nos. 1, 2, AND 3)**

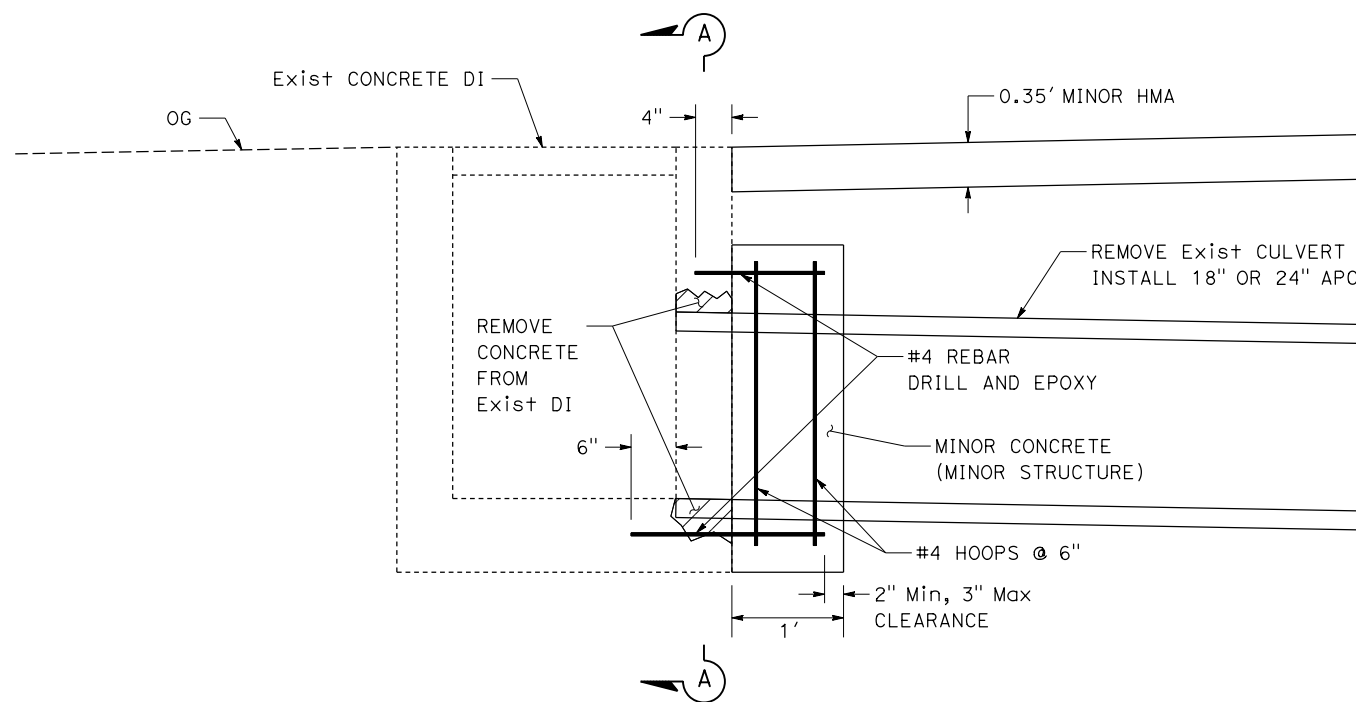
PIPE TYPE	COATING	MINIMUM THICKNESS
		INCH
CORRUGATED STEEL PIPE, HELICAL CORRUGATIONS 2 2/3" x 1/2" CORRUGATIONS	PLAIN GALVANIZED	0.168
	BITUMINOUS	0.168
	BITUMINOUS, PAVED INVERT POLYMERIC SHEET	0.138
STEEL SPIRAL RIB PIPE, 3/4" x 3/4" RIBS AT 7 1/2" PITCH	BITUMINOUS, PAVED INVERT	0.138
	POLYMERIC SHEET	0.138
CORRUGATED ALUMINUM PIPE, ANNULAR CORRUGATIONS 2 2/3" x 1/2" CORRUGATIONS		0.060
		0.060
CORRUGATED ALUMINUM PIPE, HELICAL CORRUGATIONS 2 2/3" x 1/2" CORRUGATIONS		0.060
		0.060
ALUMINUM SPIRAL RIB PIPE, 3/4" x 1" RIBS AT 11 1/2" PITCH		0.060
		0.060
ALUMINUM SPIRAL RIB PIPE, 3/4" x 3/4" RIBS AT 7 1/2" PITCH		0.060
		0.060
REINFORCED CONCRETE PIPE STEEL COVER = 1", CEMENT = 5 SACKS, WATER = 11.1%		

**18" APC ALLOWABLE PIPE MATERIALS
(DRAINAGE SYSTEM No. 3)**

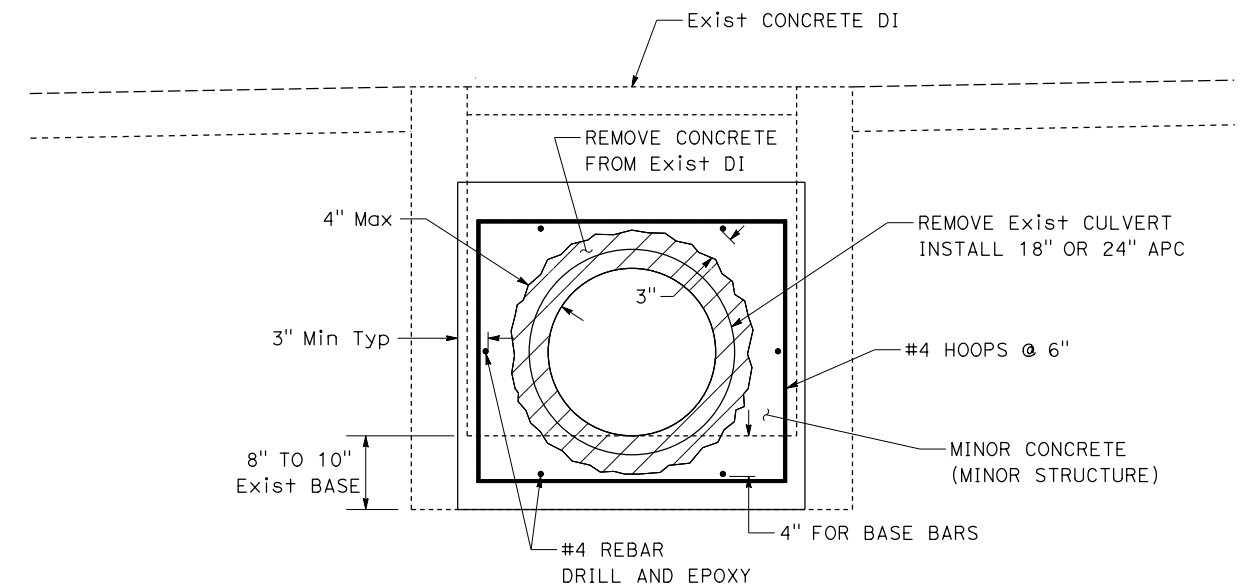
PIPE TYPE	MINIMUM THICKNESS
	INCH
CORRUGATED ALUMINUM PIPE, ANNULAR CORRUGATIONS 2 2/3" x 1/2" CORRUGATIONS	0.060
	0.060
CORRUGATED ALUMINUM PIPE, HELICAL CORRUGATIONS 2 2/3" x 1/2" CORRUGATIONS	0.060
	0.060
REINFORCED CONCRETE PIPE STEEL COVER = 0.75", CEMENT = 5 SACKS, WATER = 11.1%	



TYPICAL TRENCH DETAIL



DRAINAGE INLET CONNECTION



SECTION A-A

DRAINAGE DETAILS

NO SCALE

DD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 KARI BHANA
 ANDREW ROSE
 ANDREW ROSE
 KLB
 KLB
 REVISED BY
 DATE
 REVISIONS: 01-22-24, 11-13-23

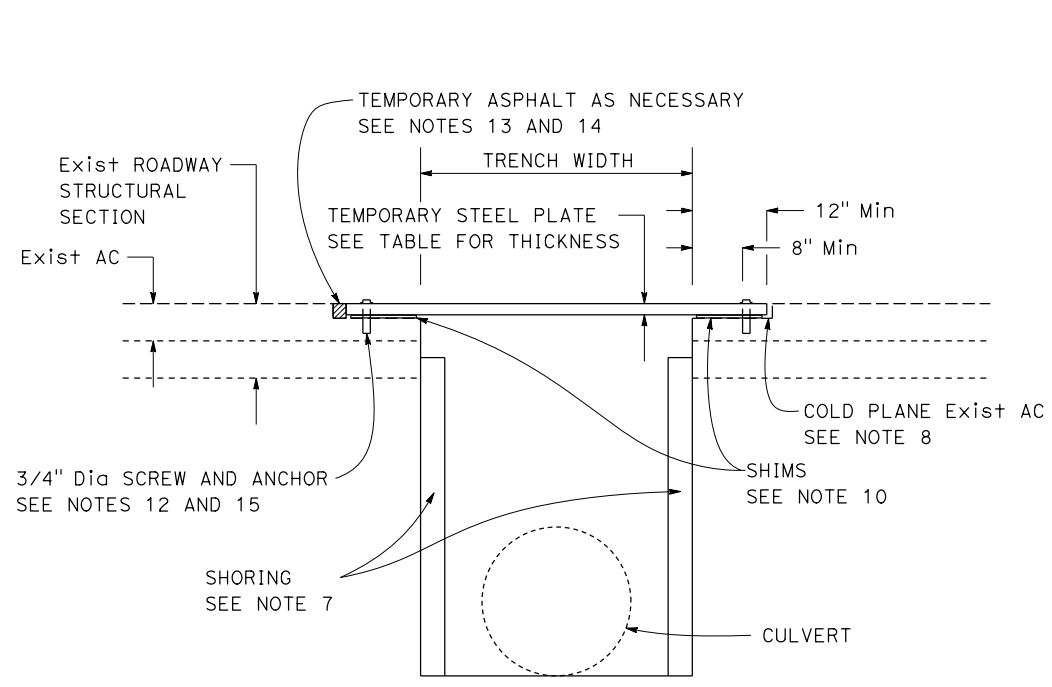
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1	11.3/11.6	6	11

Kari Bhana 1-19-24
 REGISTERED CIVIL ENGINEER DATE
 January 23, 2024
 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.

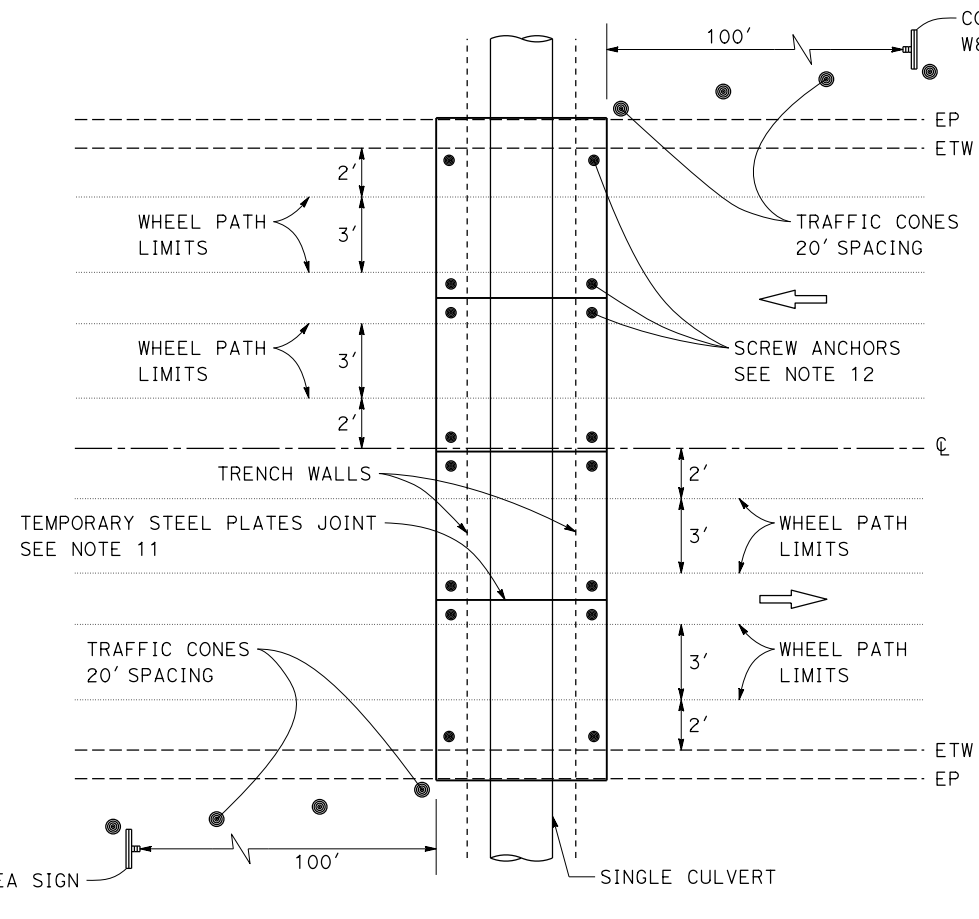
NOTES (THIS SHEET ONLY):

- USE OF TEMPORARY STEEL PLATES FOR TRENCHING IS AT THE OPTION OF THE CONTRACTOR, WITH AUTHORIZATION BY THE ENGINEER.
- THE COST FOR ALL ASPECTS OF THE USE OF TEMPORARY STEEL PLATES, INCLUDING INSTALLATION, MAINTENANCE, AND REMOVAL, IS INCLUDED IN THE COST OF THE WORK TO REMOVE AND INSTALL THE CULVERT.
- TEMPORARY STEEL PLATES ARE NOT TO BE USED ON FREEWAYS OR EXPRESSWAYS.
- TEMPORARY STEEL PLATES ARE TO BE ASTM A36 STEEL AT A MINIMUM.
- TEMPORARY STEEL PLATES ARE TO HAVE A NON-SKID SURFACE WITH A MANUFACTURED NOMINAL COEFFICIENT OF FRICTION OF 0.35 WHEN TESTED UNDER CALIFORNIA TEST 342. MAINTAIN THE NON-SKID SURFACE.
- TEMPORARY STEEL PLATES ARE TO BE WITHOUT DEFORMATIONS, AS MEASURED WITH A STRAIGHT EDGE EQUAL IN LENGTH TO THE SIDE BEING MEASURED.
- WHEN TEMPORARY STEEL PLATES ARE INSTALLED, THE TRENCH IS TO BE STRUCTURE BACKFILLED OR SHORED AT ALL TIMES TO SUPPORT THE BRIDGING AND TRAFFIC LOADS.
- COLD PLANE THE EXISTING ASPHALT CONCRETE PAVEMENT TO A DEPTH EQUAL TO THE THICKNESS OF THE TEMPORARY STEEL PLATE, AT THE DIMENSIONS OF THE STEEL PLATES TO BE RECESSED, SO THE SURFACE IS FLUSH WITH THE ADJACENT PAVEMENT.
- TEMPORARY STEEL PLATES ARE TO BE INSTALLED SO THAT THEY ARE NOT OVERLAPPING OR STACKED ON TOP OF ONE ANOTHER.
- NON-ASPHALTIC SHIMS ARE TO BE INSTALLED AROUND THE PERIMETER OF THE TEMPORARY STEEL PLATES TO PREVENT WOBBLING, ROCKING, OR EXCESSIVE NOISE, AND TO ENSURE PROPER BEARING DISTRIBUTION.
- BUTT TEMPORARY STEEL PLATES TOGETHER. THE RESULTING JOINT IS NOT TO BE LOCATED WITHIN THE WHEEL PATH LIMITS SHOWN.
- 3/4" DIAMETER SCREW ANCHORS OR LARGER ARE TO BE MOUNTED WITHIN THE PAVED AREAS AT FOUR CORNERS OF THE TEMPORARY STEEL PLATE, A MINIMUM OF 4" DEEP INTO THE EXISTING PAVEMENT.
- PLACE AND COMPACT TEMPORARY ASPHALT AROUND THE PERIMETER OF THE TEMPORARY STEEL PLATE IF THE GAP BETWEEN THE PLATE AND ADJACENT EXISTING ASPHALT IS LARGER THAN 1".
- PLACE AND COMPACT TEMPORARY ASPHALT AS A TEMPORARY RAMP AT SPOT LOCATIONS WHERE THE ROADWAY AND TEMPORARY STEEL PLATE ARE NOT FLUSH (GREATER THAN 1/2" DIFFERENCE).
- FULLY REMOVE SCREW ANCHORS FROM THE PAVEMENT WHEN WORK IS COMPLETE. SCREW ANCHOR VOIDS ARE TO BE BACKFILLED WITH GROUT OR AN EQUIVALENT BONDING MATERIAL AUTHORIZED BY THE ENGINEER.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 KARI BHANA
 ANDREW ROSE
 ANDREW ROSE
 KLB
 10-11-23
 REVISED BY
 DATE REVISED
 CALCULATED-DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 ANDREW ROSE



TEMPORARY STEEL PLATE TRENCH BRIDGING



TEMPORARY STEEL PLATE PLACEMENT AND SIGNING PLAN

MINIMUM TEMPORARY STEEL PLATE THICKNESSES

MAXIMUM TRENCH WIDTH	MAXIMUM PLATE THICKNESS
3'-6"	1"
4'-6"	1-1/4"
5'-6"	1-1/2"



W8-24

TEMPORARY TRAFFIC CONTROL SIGN

DRAINAGE DETAILS

NO SCALE

DD-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1	11.3/11.6	7	11

Kari Bhana
 REGISTERED CIVIL ENGINEER DATE 1-19-24

January 23, 2024
 PLANS APPROVAL DATE

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

NOTE:
 EXCEPT FOR PIPE DOWNDRAINS WHICH REQUIRE WATERTIGHT JOINTS, ALL JOINTS ARE STANDARD JOINT TYPE.

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	REMOVE HEADWALL	ABANDON CULVERT (LF)	REMOVE CULVERT (LF)	REMOVE FLARED END SECTION (EA)	18" ALTERNATIVE PIPE CULVERT	24" ALTERNATIVE PIPE CULVERT	24" ALTERNATIVE PIPE DOWNDRAIN	24" ANCHOR ASSEMBLY	CULVERT SLURRY-CEMENT BACKFILL	SAND BACKFILL	STRUCTURAL CONCRETE, HEADWALL	MINOR CONCRETE (MINOR STRUCTURE)	24" ALTERNATIVE FLARED END SECTION	HEIGHT OF COVER (N)	DESCRIPTION	POST MILE	CULVERT INVENTORY SYSTEM No.	CULVERT INVENTORY SYSTEM NODE	DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT
			EA	LF	LF	EA	LF	LF	LF	EA	CY	CY	CY	CY	EA	LF							
D-1	1	a	1										2.64				REMOVE HEADWALL (9' x 3')	11.3	510010001127		D-1	1	a
		b															STRAIGHT HEADWALL						b
		c			17												REMOVE 24" CSP			2 TO 1			c
		d		66								7.7					ABANDON 24" CSP			2 TO 1			d
		e						68							4		24" APC			2 TO 1			e
		f							18								24" APDD			1			f
		g								1							DD ANCHOR ASSEMBLY			1			g
D-2	2	a			52												REMOVE 24" CSP	11.3	510010001133	2 TO 1	D-2	2	a
		b						52			25.3			0.36		4	24" APC			2 TO 1			b
		c				1											REMOVE 24" FES			1			c
		d													1		24" AFES			1			d
D-3	3	a				1											REMOVE 18" FES	11.6	510014001157	1	D-3	3	a
		b														1	24" AFES			1			b
		c							12								24" APDD			1			c
		d								1							DD ANCHOR ASSEMBLY			1			d
		e						51			31.6			0.38		4	24" APC			2 TO 1			e
		f		43								5.0					ABANDON 18" CSP			2 TO 1			f
		g			15												REMOVE 18" CSP			2 TO 1			g
		h			12												REMOVE 18" CSP			3 TO 2			h
		i					12							0.31		4	18" APC			3 TO 2			i
		j				1											REMOVE 18" FES			3			j
		k											2.00				STRAIGHT HEADWALL			3			k
			1	109	96	3	12	171	30	2	93.0	12.7	4.64	1.05	2		TOTAL						

(N) - NOT A SEPARATE BID ITEM

DRAINAGE QUANTITIES

DQ-1

DATE PLOTTED => 24-JAN-2024
 TIME PLOTTED => 13:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1	11.3/11.6	8	11

Kari Bhana 1-19-24
 REGISTERED CIVIL ENGINEER DATE

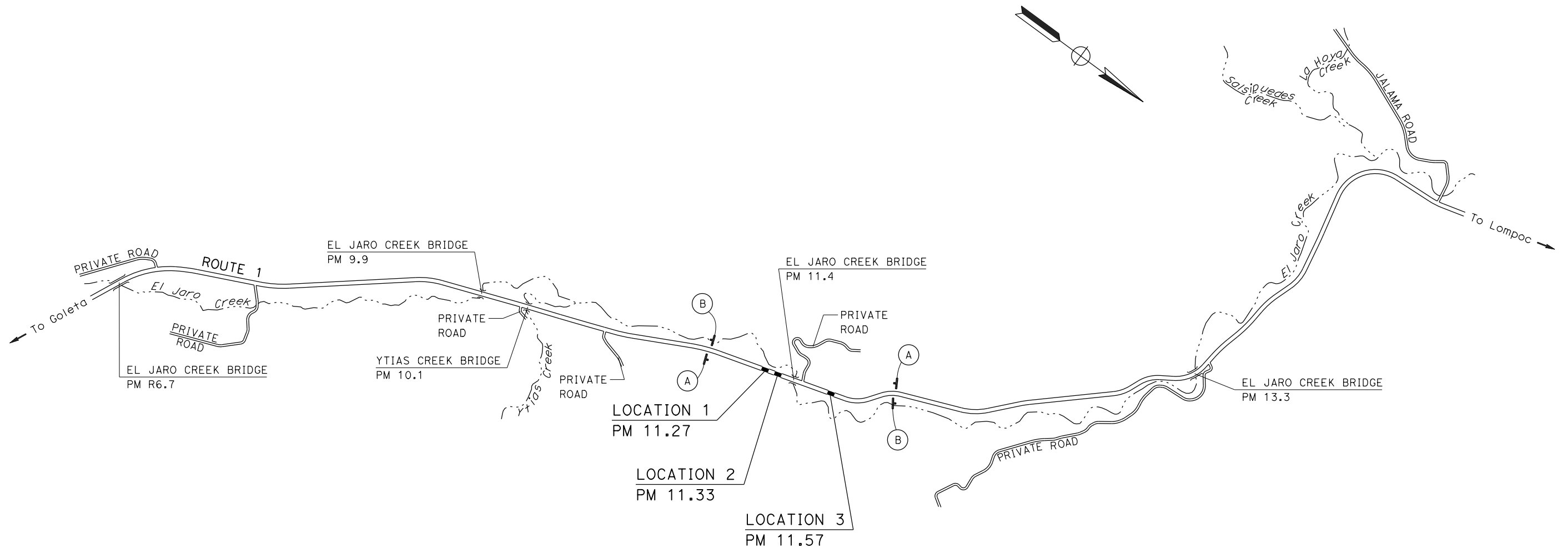
January 23, 2024
 PLANS APPROVAL DATE

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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN DESIGNATION	PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	2
B	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	2

LOCATIONS OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Stantec MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR ANDREW ROSE
 CALCULATED/DESIGNED BY ANDREW ROSE
 CHECKED BY ANDREW ROSE
 KARI BHANA
 REVISED BY KLB
 DATE REVISED 11-07-23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1	11.3/11.6	9	11

Kari Bhana 1-19-24
REGISTERED CIVIL ENGINEER DATE

January 23, 2024
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
KARI BHANA
No. 65395
Exp. 9-30-25
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.

PAVEMENT DELINEATION QUANTITIES

SHEET No.	POST MILE	DETAIL No.	6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)		PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	
			WHITE	YELLOW	TYPE D	TYPE H
			LF		EA	
D-1	11.3	19		5	1	1
		27B	10			
D-2	11.3	19		4		1
		27B	8			
D-3	11.6	22		8	2	
		27B	8			
SUBTOTAL			26	17	3	2
TOTAL			43		5	

ROADWAY QUANTITIES

SHEET No.	POST MILE	MINOR HOT MIX ASPHALT	PLACE HOT MIX ASPHALT DIKE (TYPE E)	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)
		TON	LF	SQYD
D-1	11.3	4.9	8	20
D-2	11.3	4.2	4	17
D-3	11.6	3.5	4	15
TOTAL		12.6	16	52

RUMBLE STRIP

SHEET No.	POST MILE	6" RUMBLE STRIP (ASPHALT CONCRETE PAVEMENT)	12" RUMBLE STRIP (ASPHALT CONCRETE PAVEMENT)
		STA	STA
D-1	11.3	0.10	0.05
D-2	11.3	0.08	0.04
D-3	11.6	0.08	0.04
TOTAL		0.26	0.13

SUMMARY OF QUANTITIES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Gobans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: ANDREW ROSE
CALCULATED-DESIGNED BY: ANDREW ROSE
CHECKED BY: ANDREW ROSE
REVISED BY: KARI BHANA
DATE REVISED: 11-13-23
KLB
01-22-24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1	11.3/11.6	10	11

Florenca Allenger
REGISTERED CIVIL ENGINEER

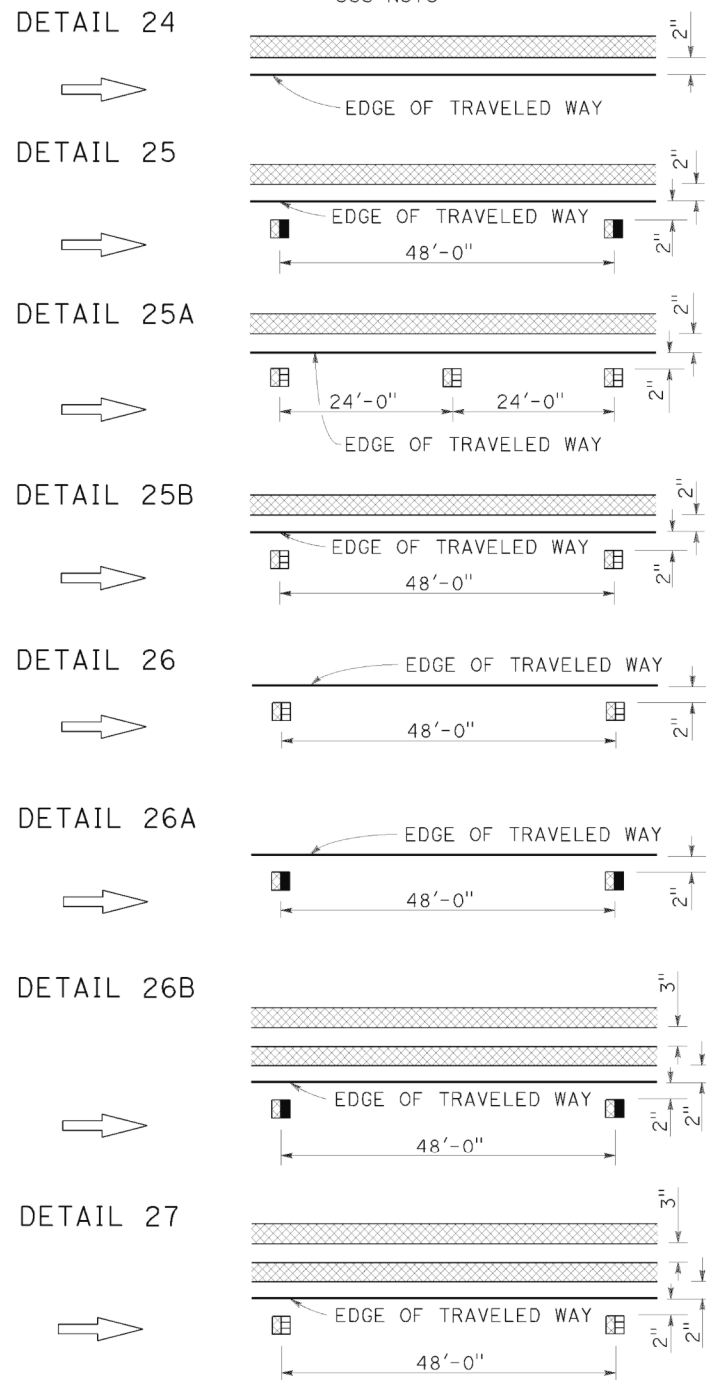
January 22, 2024
PLANS APPROVAL DATE

No. C81705
Exp. 3-31-24
CIVIL
STATE OF CALIFORNIA

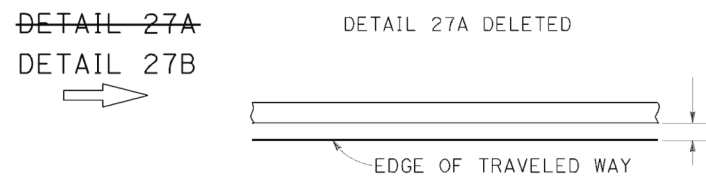
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LEFT EDGE LINES

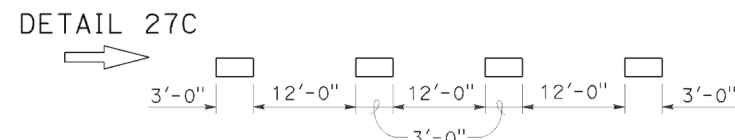
(DIVIDED HIGHWAYS)
See Note



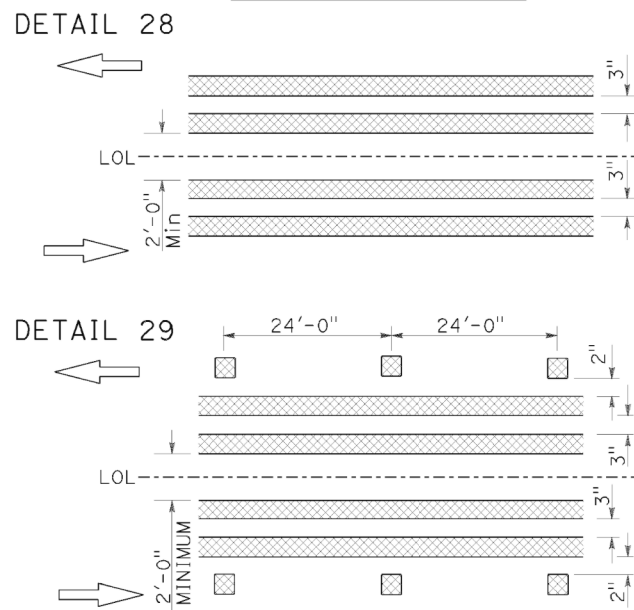
RIGHT EDGE LINES



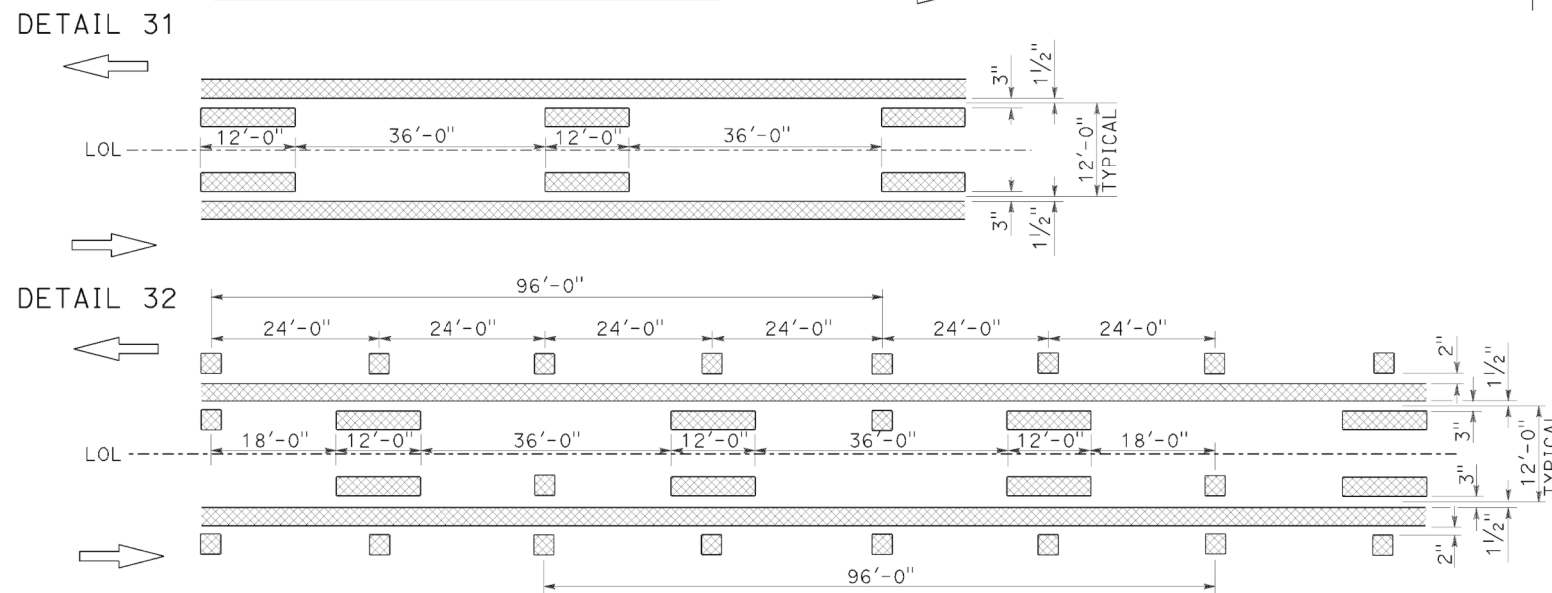
RIGHT EDGE LINE EXTENSION THROUGH INTERSECTIONS



MEDIAN ISLANDS



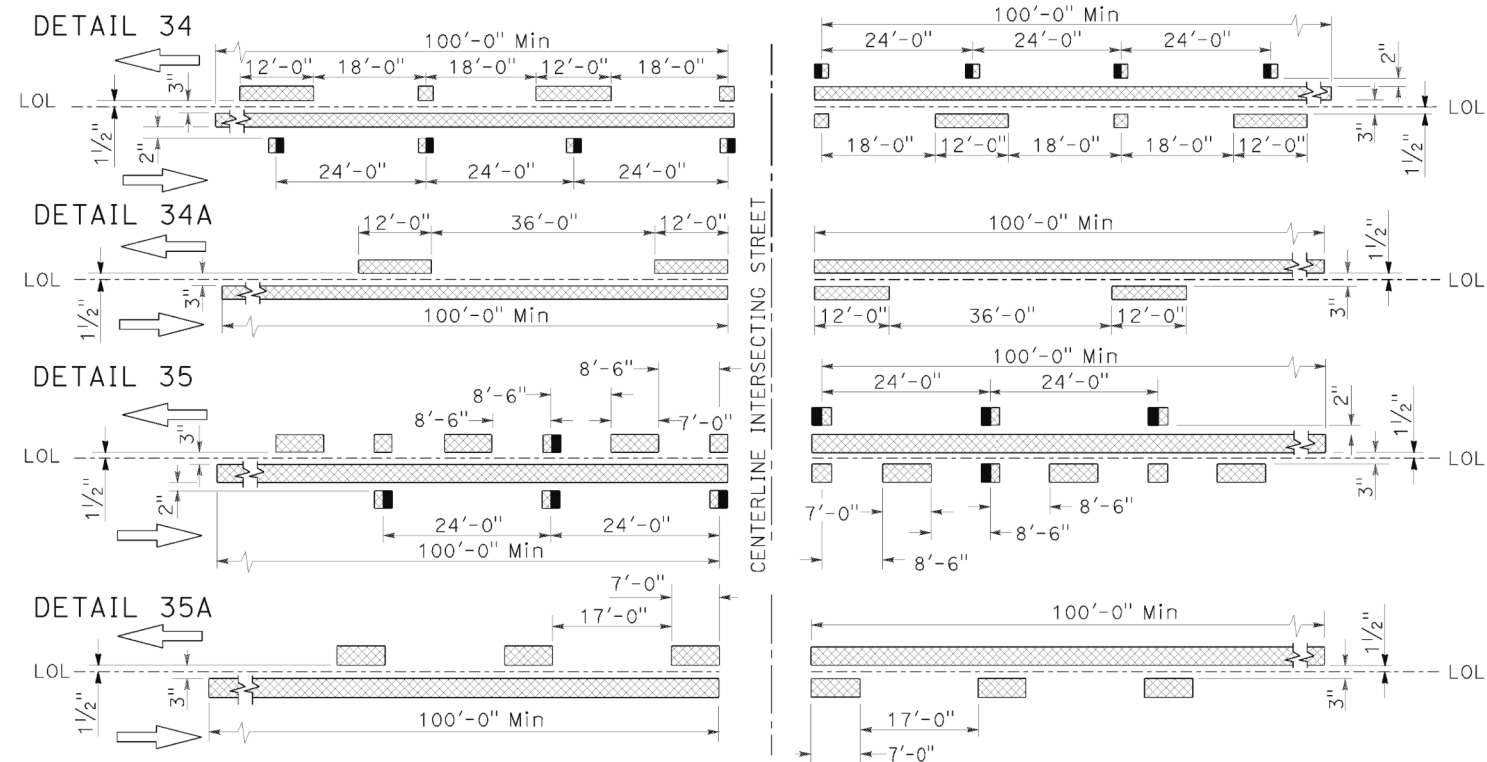
TWO-WAY LEFT TURN LANES



LEGEND:

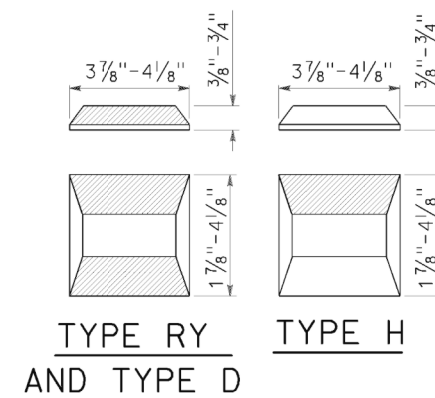
- TYPE D TWO-WAY YELLOW RETROREFLECTIVE MARKER
- TYPE H ONE-WAY YELLOW RETROREFLECTIVE MARKER
- TYPE RY RED-YELLOW RETROREFLECTIVE MARKER
- 6" WHITE LINE
- 6" YELLOW LINE

INTERSECTION TREATMENTS



TO ACCOMPANY PLANS DATED January 23, 2024

MARKER DETAILS



RETROREFLECTIVE FACE

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

LEFT EDGE LINES NOTE:
On freeways use traffic stripe details with Type RY markers.

RSP A20B DATED JANUARY 22, 2024 SUPERSEDES STANDARD PLAN A20B
DATED MAY 1, 2023 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2023.

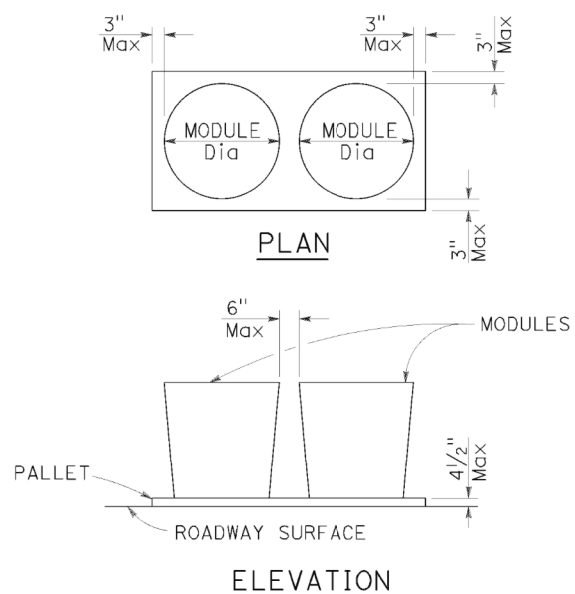
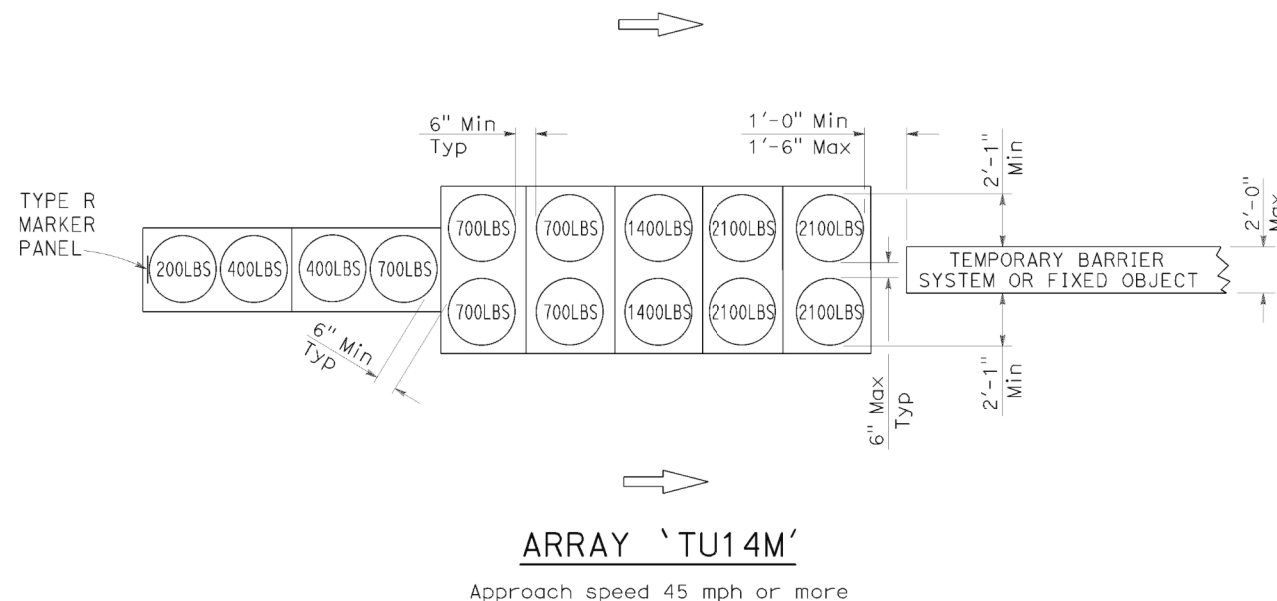
REVISED STANDARD PLAN RSP A20B

2023 REVISED STANDARD PLAN RSP A20B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
05	SB	1	11.3/11.6	11	11

Charles D. Suszko
 REGISTERED CIVIL ENGINEER
 January 22, 2024
 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.

TO ACCOMPANY PLANS DATED January 23, 2024



CRASH CUSHION PALLET DETAIL

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal. Sand must contain no more than 7 percent water.
3. Refer to Standard Plan A73B for marker details.
4. Approach speeds indicated conform to MASH criteria.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JANUARY 22, 2024 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2023 - PAGE 311 OF THE STANDARD PLANS BOOK DATED 2023.

REVISED STANDARD PLAN RSP T1A

2023 REVISED STANDARD PLAN RSP T1A