

The following is the Table of Contents for the **Small Business Minor B Package** documents:

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The Bid Package contains 7 Project Plans for this project.

**California Department of Transportation**

ADMINISTRATION

DIVISION OF PROCUREMENT AND CONTRACTS

1727 30<sup>th</sup> 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. 12A2179**  
**Quote Due Date: 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 \$388,000.00, 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. 12A2179**

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 returned as instructed, 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.**

STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES

**STANDARD AGREEMENT**

STD 213 (Rev. 04/2020)

AGREEMENT NUMBER  
12A2179

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
	<b>PROPOSED FORM OF AGREEMENT</b>	
	<b>DO NOT COMPLETE</b>	
	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

ORANGE COUNTY IN AND NEAR SAN JUAN CAPISTRANO

FROM VIA VISTA DEL MAR TO 1.0 MILE WEST OF HOT SPRING CANYON ROAD

In District 12 On Route 74

Under

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Standard Specifications dated 2023

Project plans approved JANUARY 16, 2024

Standard Plans dated 2023

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Identified by

Contract No. 12A2179

12-Ora-74-1.0/11.5

Project ID 1224000037

Small Business Minor B Solicitation

Quotes open: February 26, 2024

Dated: February 9, 2024

Revised 12/29/2023

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# 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.

# CONTRACT NO. 12A2179

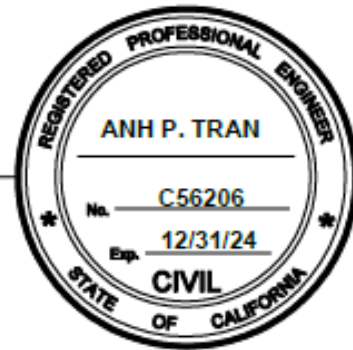
The special provisions contained herein have been prepared by or under the direction of the following Registered Persons.

## ROADWAY

*Anh Tran*

01/10/24

REGISTERED CIVIL ENGINEER



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## STANDARD PLANS LIST

The standard plan sheets applicable to this Contract include those listed below. The 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)
<b>PAVEMENT MARKERS, TRAFFIC LINES, AND PAVEMENT MARKINGS</b>	
A20A	Pavement Markers and Traffic Lines - Typical Details
A20B	Pavement Markers and Traffic Lines - Typical Details
A20C	Pavement Markers and Traffic Lines - Typical Details
A20D	Pavement Markers and Traffic Lines - Typical Details
A24A	Pavement Markings - Arrows
A24B	Pavement Markings - Arrows and Symbols
A24E	Pavement Markings - Words
A24F	Pavement Markings - Crosswalks
A24G	Pavement Markings - Yield Lines, Limit Lines, and Wrong Way Details
<b>RUMBLE STRIP</b>	
A40C	Edge Line Rumble Strip Details - Ground-In Indentations
A40E	Rumble Strip Placement at Freeway Exit Ramps, Freeway Entrance Ramps, and Intersections
A40F	Rumble Strip Placement at Intersections with Left Turn Pockets, Railroad Crossings, Private Roads, and Major Driveways
<b>TEMPORARY CRASH CUSHIONS, RAILING AND TRAFFIC SCREEN</b>	
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)
<b>TEMPORARY TRAFFIC CONTROL SYSTEMS</b>	
T9	Traffic Control System Tables for Lane and Ramp Closures
T11	Traffic Control System for Lane Closure on Multilane Conventional Highways
T13	Traffic Control System with Reversible Control on Two Lane Conventional Highways
T19	Traffic Control System Construction Work Zone Speed Limit Reduction on Conventional Highways
<b>TEMPORARY PEDESTRIAN ACCESS ROUTES</b>	
T32	Temporary Pedestrian Access Routes - Typical Sidewalk/Crosswalk Closure and Pedestrian Detour

**ROADSIDE SIGNS**

<b>RS1</b>	<b>Roadside Signs - Typical Installation Details No. 1</b>
<b>RS2</b>	<b>Roadside Signs - Wood Post - Typical Installation Details No. 2</b>
<b>RS4</b>	<b>Roadside Signs - Typical Installation Details No. 4</b>

## Notice to Bidders

Quotes open: February 26, 2024

Dated: February 9, 2024

General work description: Remove and Replace Pavement Delineation

The Department of Transportation (Department) will receive quotes for CONSTRUCTION ON STATE HIGHWAY IN ORANGE COUNTY IN AND NEAR SAN JUAN CAPISTRANO FROM VIA VISTA DEL MAR TO 1.0 MILE WEST OF HOT SPRING CANYON ROAD

District-County-Route-Post Mile: 12-Ora-74-1.0/11.5

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-31 & C-32.

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 30 working days.

The estimated cost of the project is \$304,000

The Department will receive quotes until 2:15

p.m. on the quotes open date at:

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

Analyst's Email: [Justina.Binsfeld@dot.ca.gov](mailto:Justina.Binsfeld@dot.ca.gov)

\*Put SB Contract #12A2179 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:

[D12.CES.CCO.Desk@dot.ca.gov](mailto:D12.CES.CCO.Desk@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's Name: Justina Binsfeld

Email: [Justina.Binsfeld@dot.ca.gov](mailto:Justina.Binsfeld@dot.ca.gov)

Phone: (279) 234-2535

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>.





**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 bid opening. 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.

DVBEs must be certified by the bid opening date and remain certified through contract award.

**Delete Section 2-1.18.**

**Delete Section 2-1.27.**

**Replace Section 2-1.33 with:**

**2-1.33 Bid Document Completion and Submittal**

Complete forms in the **Bid Package**. Submit the forms with your bid.

Failure to submit the forms and information as specified may result in a nonresponsive bid.

If an agent other than the authorized corporate officer or a partnership member signs the bid, file a Power of Attorney with the Department either before opening bids or with the bid. Otherwise, the bid may be nonresponsive.





**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.

**Replace section 5-1.13E with:****5-1.13E Prompt Payment**

Section 5-1.13E applies to all contracts.

Pay your subcontractors within 7 days of receipt of each progress payment under Pub Cont Code §§ 10262 and 10262.5. Pay other entities, such as material suppliers, within 30 days of receipt of each progress payment.

Each month, after the 15th and prior to 20th, submit the following payment information through the Department's prompt payment monitoring system at <https://caltrans.dbesystem.com>:

1. Subcontractor's or entity's business name
2. Description of work performed
  - 2.1. Bid item numbers or change order numbers
  - 2.2. Written narrative of work performed
3. Value of work performed
4. Amount paid to subcontractor or entity
5. Withhold amount, if applicable
6. Explanation of withhold reasoning, if applicable

Your subcontractors and other entities may validate payments received using the prompt payment monitoring system.

If a subcontractor's or other entity's work is in dispute, provide a written withhold notification to the subcontractor or entity and the Engineer no later than 7 days after receipt of the corresponding progress payment that includes the following:

1. Value of the disputed work
2. Amount of the withhold being taken
3. Bid item numbers or change order numbers associated with the disputed work
4. Explanation of the deficiencies of the disputed work and how the corresponding value was calculated
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.

If the Department determines your withhold was not applied in good faith or that you failed to submit the required withhold notification, the Department may withhold the same amount from your future progress pay estimate. The Department may also apply a 2 percent penalty on the withhold amount for every month payment is not made.

**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.



**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

All manufacturing processes for these materials as defined in 2 CFR 184.6 must occur in the United States.

Furnish construction materials to be incorporated into the work with certificates of compliance with each project delivery. Manufacturer's certificate of compliance must identify where the construction material was manufactured and attest specifically to compliance with its 2 CFR 184.6 standard.

Minor additions of articles, materials, supplies, or binding agents to these construction materials do not change the categorization of the construction material.







**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
4. You do not comply with the claim procedures
5. You do not submit the declaration specified in Section 9-1.17D(2)(c)

**9-1.17D(3) Final Determination of Claims**

Failure to allow timely access to claim supporting data when requested waives the claim.

Department's costs in reviewing or auditing a claim not supported by the Contractor's accounting or other records are damages incurred by the State within the meaning of the California False Claims Act.

After claim review, Engineer makes a preliminary determination of claims and furnishes it to Contractor. Within 30 days of notification of the preliminary determination, make a presentation in support of remaining claims to a person designated by Director. Director makes the final decision on payable compensation due the Contractor and furnishes it to Contractor.

Department pays the amount due within 30 days. The final estimate is conclusive as to the amount of work completed and the amount payable except as specified in Sections 5-1.27 and 9-1.21.



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

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

Except for Type K temporary railing and temporary concrete barrier 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:

<b>Concrete QC Tests</b>		
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. No more than 12 inches in length.
  - 4.3. From 3/16 to 1/4 inch in depth.
  - 4.4. Centered on the top width of the barrier segment.

Segment connection hardware must be one of the following:

1. Steel bar loops and connecting pins
2. "J" hook steel plates
3. Cross bolts

Steel bar loops must comply with ASTM A36/A36M.

Connecting pins must comply with ASTM A307. A round bar of the same diameter may be substituted for the connecting pins. The round bar must:

1. Comply with ASTM A36/A36M
2. Have a minimum length of 26 inches
3. Have a 3-inch-diameter, 3/8-inch-thick plate welded on the upper end using a 3/16-inch fillet weld

"J" hook steel plates must be a minimum 18 inches in height.

Cross bolt hardware includes:

1. Cross bolts
2. Nuts 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 bolts must:

1. Be a 7/8-inch bolt or threaded rod and comply with one of the following:
  - 1.1. HS threaded rod ASTM 193, 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

Epoxy adhesive must have a minimum 1650 psi bond strength, except for temporary barrier with “J” Hooks.

**12-3.20B(2)(b) Temporary Concrete Barrier with "J" Hooks**

The steel stakes must be 1-1/2 inches in diameter and 48 inches long.

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(2)(c) Temporary Concrete Barrier with Cross Bolt**

Reinforcement steel must comply with ASTM A615/ASTM A706, Grade 60.

Reinforcement steel must be galvanized under section 52-3, when shown.

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

Temporary barrier segments must comply with the tolerances shown in the following table:

<b>Precast Barrier Tolerance</b>	
Dimension	Tolerance
Length	±1 in
Insert Placement	±1/2 in
Horizontal Alignment	±1/8 in per 10 feet of length
Deviation of Ends	
Horizontal Skew	±1/4 in
Vertical Batter	±1/8 in per foot of depth

Stakes 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 bolts must:

1. Be a threaded rod, 1-1/8-inch-diameter-by-10-1/2-inch-long
2. Comply with ASTM 307
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

**12-3.20B(2)(d) Type K Temporary Railing**

Anchor bolts must:

1. Be a threaded rod, 1-inch-diameter-by-15-1/2-inch-long
2. Comply with ASTM 307

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)(e)–12-3.20B(2)(g) Reserved**

**12-3.20B(3) Temporary Steel Barriers**

Temporary steel barriers 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.

**12-3.20B(4)–12-3.20B(9) Reserved**

**12-3.20B(10) Temporary Terminal Sections**

Reserved

**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 the temporary barrier system based on the requirements shown in the following table:

**Minimum Clear Area Width**

Barrier	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 <sup>a</sup> (ft)
12'-6" temporary concrete barrier with "J" hooks	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 barrier with "J" hooks	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 barrier	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
10-foot, 20-foot & 30-foot temporary concrete barrier with cross bolts	Freestanding	1	2	5	5
20-foot Type K temporary railing	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

<sup>a</sup>The 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.

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

1. Temporary concrete barrier with "J" hooks, place a minimum of 6 stakes or anchors at each end, 3 on each side.
2. Temporary concrete barrier with cross bolts, place a minimum of 6 stakes or anchors at each end, 3 on each side.
3. Type K temporary railing, place 4 stakes or anchors at each end, 2 on each side.

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.

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

<b>Temporary Barrier System Offset Rate</b>	
Posted speed (mph)	Rate <sup>a</sup>
0 to 45	10:1
46 to 60	15:1
61 to 70	20:1

<sup>a</sup>Rate is longitudinally to transversely with respect to the edge of the traveled way

If a 15-foot minimum offset cannot be achieved, offset the temporary barrier the maximum distance available and install an array of temporary crash cushion modules or an authorized temporary crash cushion system at the 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. For paving activities adjacent to temporary barrier, 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 concrete barrier 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.

**12-3.20C(2)(b) Temporary Concrete Barrier with "J" Hooks**

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

Place the temporary barrier system 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.

Install two parallel temporary barrier systems, one for each direction of travel, when placed between two-way traffic. Maintain the minimum clear area as shown in the table titled "Minimum Clear Area Width" between the two systems. Maintain a minimum 1-foot set back distance.

**12-3.20C(2)(c) Temporary Concrete Barrier with Cross Bolts**

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

Place the temporary barrier system on a concrete or asphalt concrete surface.

Do not stake or anchor down temporary barrier system, except for 20 feet at end of the barrier system.

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

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

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

Maintain a minimum 1-foot set back distance when placed between two-way traffic.

**12-3.20C(2)(d) Type K Temporary Railing**

Do not install Type K temporary railing 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 railing in a curved layout.

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

Anchor or stake down the first and last segment and every other segment with four stakes as shown when placed between two-way traffic. Maintain a minimum 1-foot set back distance.

**12-3.20C(2)(e)–12-3.20C(2)(g) Reserved**

**12-3.20C(3) Temporary Steel Barriers**

**12-3.20C(3)(a) General**

Install temporary barrier system under manufacturer's instructions.

**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 the temporary barrier system on a concrete or asphalt concrete surface. Do not place the system on a dirt surface.

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

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.

Maintain a minimum 2-foot set back distance on both sides of a temporary barrier system used with traffic on both sides of the barrier.

**12-3.20C(3)(c)–12-3.20C(3)(h) Reserved**

**12-3.20C(4)–12-3.20C(9) Reserved**

**12-3.20C(10) Temporary Terminal Sections**

Reserved

**12-3.20D Payment**

The payment quantity for types of 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 at the locations shown and in advance of the 1st warning sign for each:

- 1 Speed reduction zone

For 5 days starting on the day of signal activation, place 1 PCMS in each direction of travel and display the following message in all caps: *Signal Ahead -- Prepare To Stop*.

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

Start displaying the message on the sign 15 minutes before closing the lane or shoulder or when directed by the Engineer.

Replace the table in the definition of *designated holidays* in section 12-4.02A(2) with:

**Designated Holidays**

Holiday	Date observed
New Year's Day	January 1st
Washington's Birthday	3rd Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4th
Labor Day	1st Monday in September
Veterans Day	November 11th
Thanksgiving Day	4th Thursday in November
Christmas Day	December 25th

**Add to section 12-4.02A(2):**

**special day:** the day after Thanksgiving Day

**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. 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.

For each 10-minute interval or fraction thereof past the time specified to open the closure, the amount for liquidated damages per interval shown in the table below is deducted. Liquidated damages are limited to 5 percent of the total bid per occurrence. Liquidated damages are not assessed if the Engineer orders the closure to remain in place beyond the scheduled pickup time.

Type of facility	Route	Direction or segment	Period	Liquidated damages/interval
Mainline	Route 74	Eastbound & Westbound	1st half hour	\$1,600/10 minutes
			2nd half hour	\$2,400/10 minutes
			2nd hour and beyond	\$3,200/10 minutes

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	<b>H</b> xx	xx	xx								
	<b>SD</b> xx										
x	xx	<b>H</b> xx	xx								
		<b>SD</b> xx									
	x	xx	<b>H</b> xx	xx							
			<b>SD</b> xx								
	x	xx	xx	<b>H</b> xx	xxx						
	x	xx	xx	<b>SD</b> xx	xxx						
				x	<b>H</b> xx						
				x	<b>SD</b> xx						
					x	<b>H</b> xx					
						<b>SD</b> xx					
						x	<b>H</b> xx	xx	xx	xx	
							<b>SD</b> xx				
Legend:											
	Refer to lane requirement charts.										
x	The full width of the traveled way must be open for use by traffic after 5:00 AM.										
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 9:00 PM.										
<b>H</b>	Designated holiday										
<b>SD</b>	Special day										

Chart No. K1 Conventional Highway Lane Requirements																									
County: Orange							Route/Direction: 74 / WB & EB							Post Mile: 1.0/1.9											
Closure limits: Via Vista Del Mar to Shade Tree Lane																									
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	1	1	1	1	1	N	N	N	N	1	1	1	1	1	N	N	N	N	N	N	N	1	1	1	
Fri	1	1	1	1	1	N	N	N	N	1	1	1	1	1	N	N	N	N	N	N	1	1	1		
Sat	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Sun	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Legend:																									
1 Provide at least 1 through traffic lane open in the direction of travel.																									
N No work is allowed.																									
REMARKS:																									
<ul style="list-style-type: none"> <li>The number of through traffic lanes in each direction of travel is 1.</li> <li>The full width of the traveled way must be open for use by traffic when construction activities are not actively in progress.</li> </ul>																									
Chart No. K2 Conventional Highway Lane Requirements																									
County: Orange							Route/Direction: 74 / WB & EB							Post Mile: 5.3/11.5											
Closure limits: Gibby Road to 1.0 mile west of Hot Spring Canyon Road																									
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	N	N	N	N	R	R	R	R	R	N	N	N	N	N	N	N	R	R	R	
Fri	R	R	R	R	R	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	R	R	R	
Sat	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Sun	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Legend:																									
R Provide at least 1 through traffic lane not less than 10 feet in width for use by both directions of travel. (Reversing Control)																									
N No work is allowed.																									
REMARK																									
<ul style="list-style-type: none"> <li>The full width of the traveled way must be open for use by traffic when construction activities are not actively in progress.</li> </ul>																									

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 charts:

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

Except for one-way-reversing traffic-control lane closures, the maximum length of the work area inside a closure is 2 miles.

Not more than 1 stationary closure allowed in each direction of travel at one time.

For a stationary one-way-reversing traffic-control lane closure, you may stop traffic in 1 direction for periods not to exceed 20 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 2 miles between flaggers.

Not more than 1 stationary one-way-reversing traffic-control lane closures will be allowed at one time.

Transport bicyclists through the one-way-reversing traffic-control work zone.

You may use a pilot car to control traffic. If a pilot car is used to control traffic, the cones shown along the centerline are not required. Pilot cars must have cellular or radio contact with other pilot cars and personnel in the work zone. The maximum speed of the pilot cars conveying or controlling traffic through the traffic control zone is 25 mph. Pilot cars must only use traffic lanes open to traffic.

**Replace section 12-4.02C(12)**

**with: 12-4.02C(12) Construction Work Zone Speed Limit**

**Reduction**

**12-4.02C(12)(a) General**

Section 12-4.02C(12) includes specifications for providing, installing, maintaining, and removing traffic control devices for reducing the speed limit for the construction work zones.

Speed limit reduction is limited to 10 mph from the posted speed limit in construction work zones unless a greater speed limit reduction is specified. Construction work zone speed limit reduction can either be required when construction activities are active in a closure as a temporary condition or 24 hours a day, 7 days a week based on the roadway conditions when specified.

Temporary construction work zone speed limit reduction is required for lane closures when construction activities require workers to be present within the lane closures. Construction work zone speed limit reduction is not required for short duration closures of 1 hour or less or when the length of lane closure is 1/2 mile or less.

**12-4.02C(12)(b) Materials**

For construction work zone speed limit reduction for 24 hours a day, 7 days a week, construction area signs must comply with the requirements for stationary-mounted signs in section 12-3.11. When the duration of construction work zone speed limit reduction for 24 hours a day, 7 days a week is 7 days or less, you may use portable signs that comply with the requirements for portable signs in section 12- 3.11.

For temporary construction work zone speed limit reduction, signs must comply with the requirements for portable signs in section 12-3.11.

The PCMS must comply with section 12-3.32.

Radar feedback sign LED displays must have

LED:

1. Character of at least 18 inches in height for freeways and expressways
2. Character of at least 14 inches in height for conventional highways

3. Character's width-to-height ratio from 0.7 to 1.0
4. Character's stroke width-to-height ratio of 0.2

Portable radar speed feedback sign must comply with section 12-3.37.

Portable radar speed feedback sign trailers must have a minimum of 9 cones placed on a taper in advance of the device and along the edge of shoulder or edge of the traveled way at 25-foot intervals to a point not less than 25 feet past the device.

Temporary radar speed feedback sign system must comply with the specifications for:

1. Temporary electrical system in section 87-20
2. Radar speed feedback sign system in section 87-14 except the LED character display must remain blank when no vehicles are detected or when the detected vehicle speed is 10 miles or less than the pre-set speed

#### **12-4.02C(12)(c) Construction**

Advise motorists of construction work zone speed limit reductions starting 14 days in advance of implementing the speed limit reduction using a PCMS displaying the alternating messages *Reduced Speed* and *Starting XX/XX/XX (Date)*.

When construction work zone speed limit reduction is in effect, the PCMS message must be *XX ZONE AHEAD* and *WILL BE ENFORCED*. Mount a 48-by-48-inch W3-5 XX "SPEED LIMIT" ahead symbol sign on the PCMS trailer.

Cover all existing speed limit signs while the construction work zone speed limit reduction is in effect. Remove covers when construction work zone speed limit reduction is no longer in effect. For construction work zone speed limit reduction for 24 hours a day, 7 days a week, you may remove the existing speed limit signs and replace the signs when the construction activities that required the 24 hours a day, 7 days a week speed limit reduction are completed.

For construction work zone speed limit reduction for 24 hours a day, 7 days a week, install temporary radar speed feedback systems. In addition to the temporary radar speed feedback system shown, place a portable radar speed feedback system 400 feet upstream of active work areas. Portable radar speed feedback system must include a R2-1 sign with G20-5aP "WORK ZONE" plaque.

For temporary construction work zone speed limit reduction for lane closures, install portable radar speed feedback system as shown. In addition to the portable radar speed feedback system shown, place a portable radar speed feedback system 400 feet upstream of active work areas. The portable radar speed feedback system must include a R2-1 sign with G20-5aP "WORK ZONE" plaque.

For on-ramps within the limits of a construction work zone speed limit reduction, place R2-1 signs with G20-5aP "WORK ZONE" plaque within 500 feet of entrance ramps. You may use the strap and saddle method for mounting these sign panels on the entrance ramp lighting standard at the merge point.

For freeway to freeway connector ramps, install signs and devices as shown for construction work zone speed limit reduction.

For expressways, place a R2-1 sign with G20-5aP "WORK ZONE" plaque approximately 500 feet downstream from intersections within the limits of a construction work zone speed limit reduction.

For conventional highways, place a R2-1 sign with G20-5aP "WORK ZONE" plaque approximately 500 feet downstream from major intersections within the limits of a construction work zone speed limit reduction.

Within the limits of a construction work zone speed limit reduction, place intermediate R2-1 signs with G20-5aP "WORK ZONE" plaque at intervals not exceeding three miles.

You may use variable speed limit signs where R2-1 signs are described.

For chip seal projects, place construction work zone speed limit reduction signs and devices as shown except place additional intermediate signs, W8-7 "LOOSE GRAVEL" sign, and a W13-1 (35) plaque every 2000 feet.

**12-4.02C(12)(d) Payment**

For construction work zone speed limit reduction for 24 hours a day, 7 days a week, signs are paid for as construction area signs, PCMS is paid for as portable changeable message sign, temporary radar speed feedback sign is paid for as temporary radar speed feedback sign system, and portable radar speed feedback sign is paid for as portable radar speed feedback sign systems. Covering and removing covers of existing speed limit signs are included in the price paid for construction area signs.

For construction work zone speed limit reduction only during lane closures, signs are included in the bid item for traffic control system, PCMS is paid for as portable changeable message sign, and portable radar speed feedback sign is paid for as portable radar speed feedback sign system. Covering and uncovering existing speed limit signs for each lane closure are included in the price paid for traffic control system.



**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](https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications)**

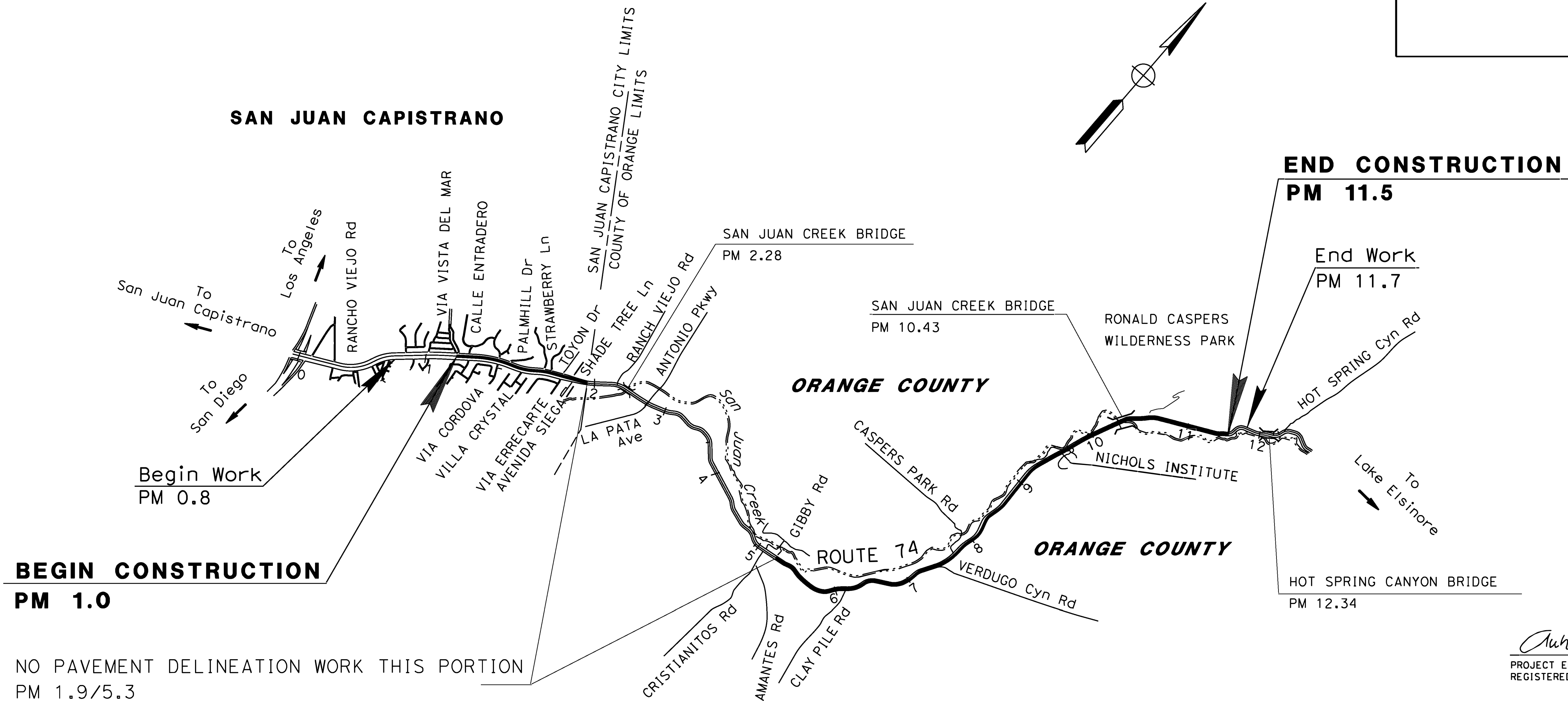
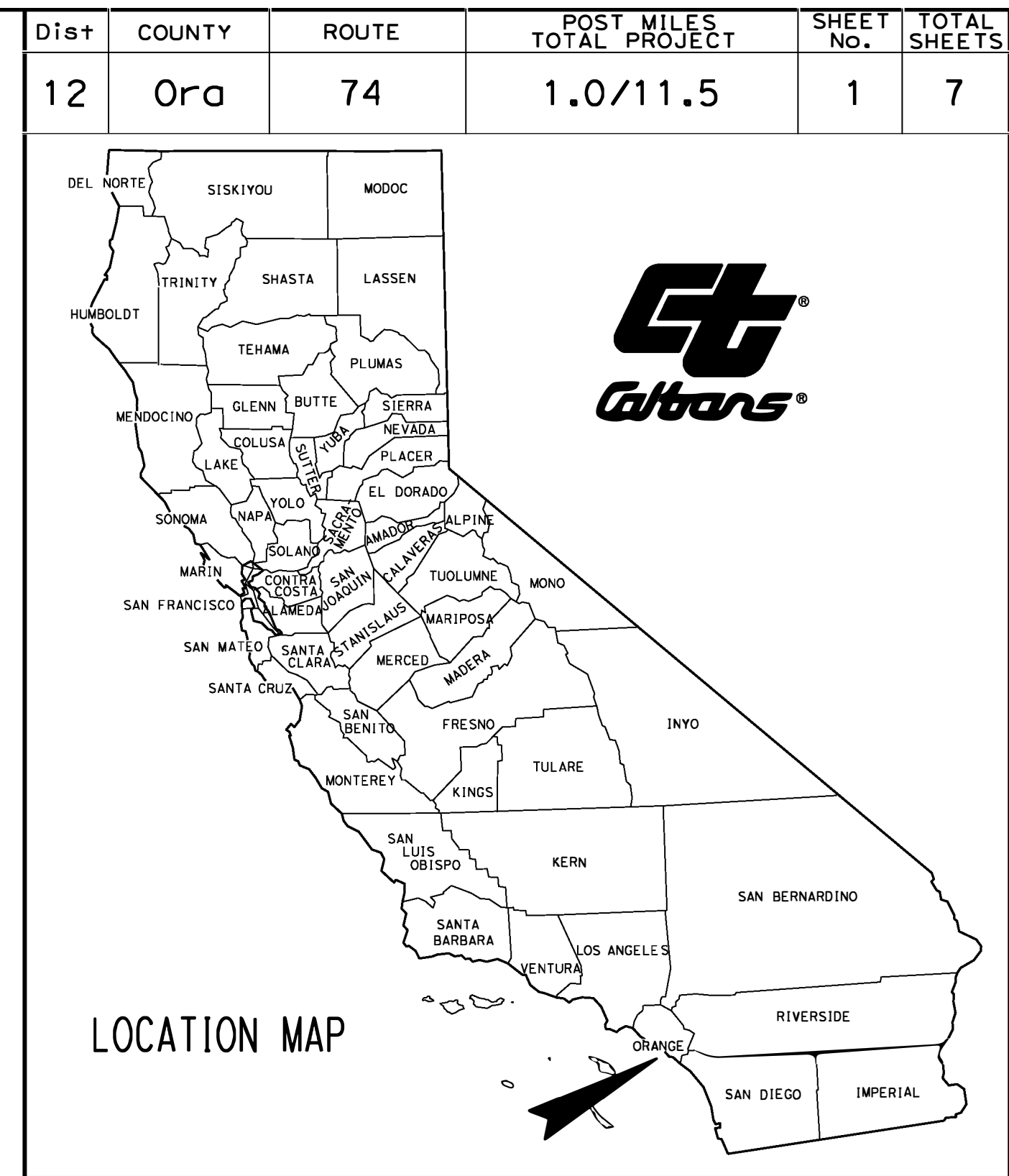
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3-7	PAVEMENT DELINEATION DETAILS AND QUANTITIES

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 ORANGE COUNTY**  
**IN AND NEAR SAN JUAN CAPISTRANO**  
**FROM VIA VISTA DEL MAR TO**  
**1.0 MILE WEST OF HOT SPRING CANYON ROAD**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2023



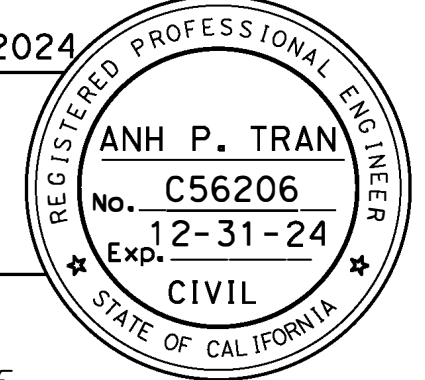
PROJECT MANAGER  
SUSAN FONG

DESIGN MANAGER  
SUSAN FONG

*Anh Tran* 01-16-2024  
 PROJECT ENGINEER DATE  
 REGISTERED CIVIL ENGINEER

**January 16, 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.



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

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/11.5	2	7

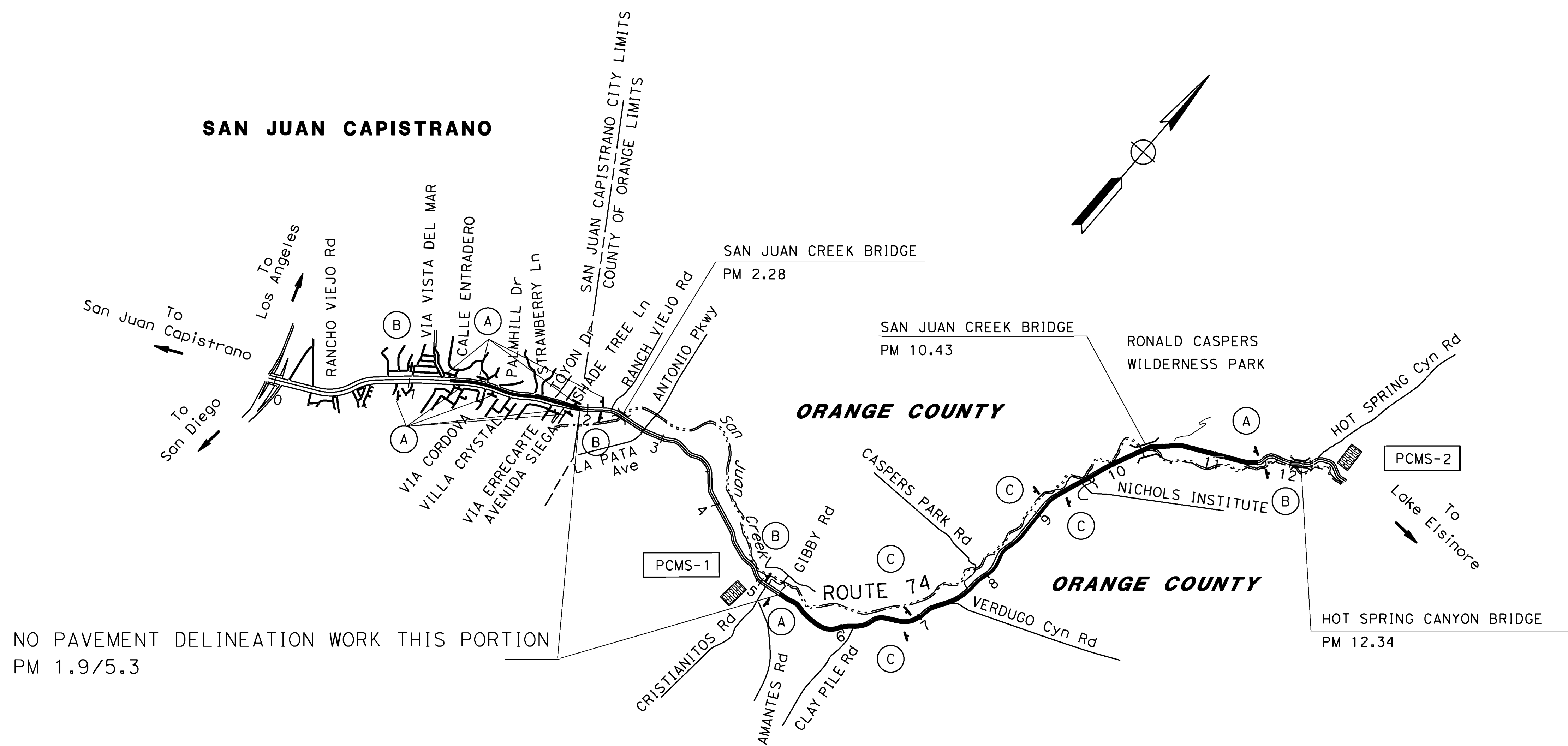
*Anh Tran* 01-16-2024  
 REGISTERED CIVIL ENGINEER DATE  
 January 16, 2024  
 PLANS APPROVAL DATE  
 ANH P. TRAN  
 No. C56206  
 Exp. 12-31-24  
 CIVIL  
 STATE OF CALIFORNIA  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

1. LOCATION OF CONSTRUCTION AREA SIGNS (DETOUR) ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. MESSAGES TO BE DISPLAYED ON THE PCMS SHALL BE DIRECTED BY THE ENGINEER.

**LEGEND:**

- (X) CONSTRUCTION AREA SIGN
- CONSTRUCTION AREA SIGN, 1-POST
- CONSTRUCTION WORK AREA
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN



NO PAVEMENT DELINEATION WORK THIS PORTION  
PM 1.9/5.3

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN NUMBER	SIGN CODE	No. OF SIGNS	PANEL SIZE	WOOD POST		SIGN MESSAGE
				No. POST	POST SIZE	
(A)	W20-1	11	36" x 36"	1	4" x 6"	ROAD WORK AHEAD
(B)	G20-2	4	36" x 18"	1	4" x 6"	END ROAD WORK
(C)	C40A	4	36" x 36"	1	4" x 6"	TRAFFIC FINES DOUBLED IN WORK ZONES

**PORTABLE CHANGEABLE MESSAGE SIGN**

PCMS No.	MESSAGE	PORTABLE CHANGEABLE MESSAGE SIGN EA
PCMS-1	ROAD CONSTRUCTION AHEAD	1
PCMS-2	ROAD CONSTRUCTION AHEAD	1
TOTAL		2

**CONSTRUCTION AREA SIGNS**

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGNS WORK ONLY

**CS-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	MAINTENANCE
FUNCTIONAL SUPERVISOR	SUSAN FONG
CALCULATED/DESIGNED BY	CHECKED BY
ANH TRAN	PHAT TRAN
REVISOR	DATE
REVISOR	DATE

LAST REVISION DATE PLOTTED => 1/10/2024 01-08-24 TIME PLOTTED => 10:37:36 AM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/11.5	3	7

<i>Anh Tran</i>	01-16-24
REGISTERED CIVIL ENGINEER	DATE
January 16, 2024	
PLANS APPROVAL DATE	

ANH P. TRAN
No. C56206
Exp. 12-31-24
CIVIL

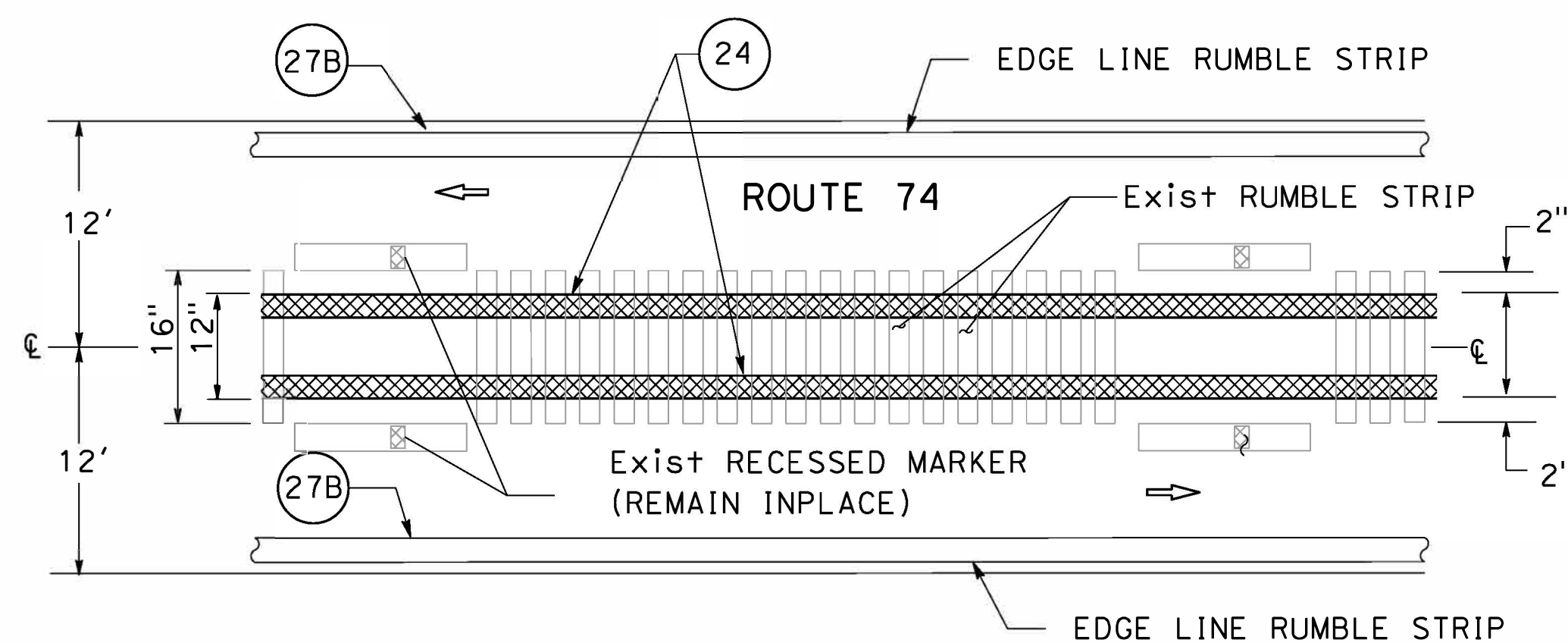
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

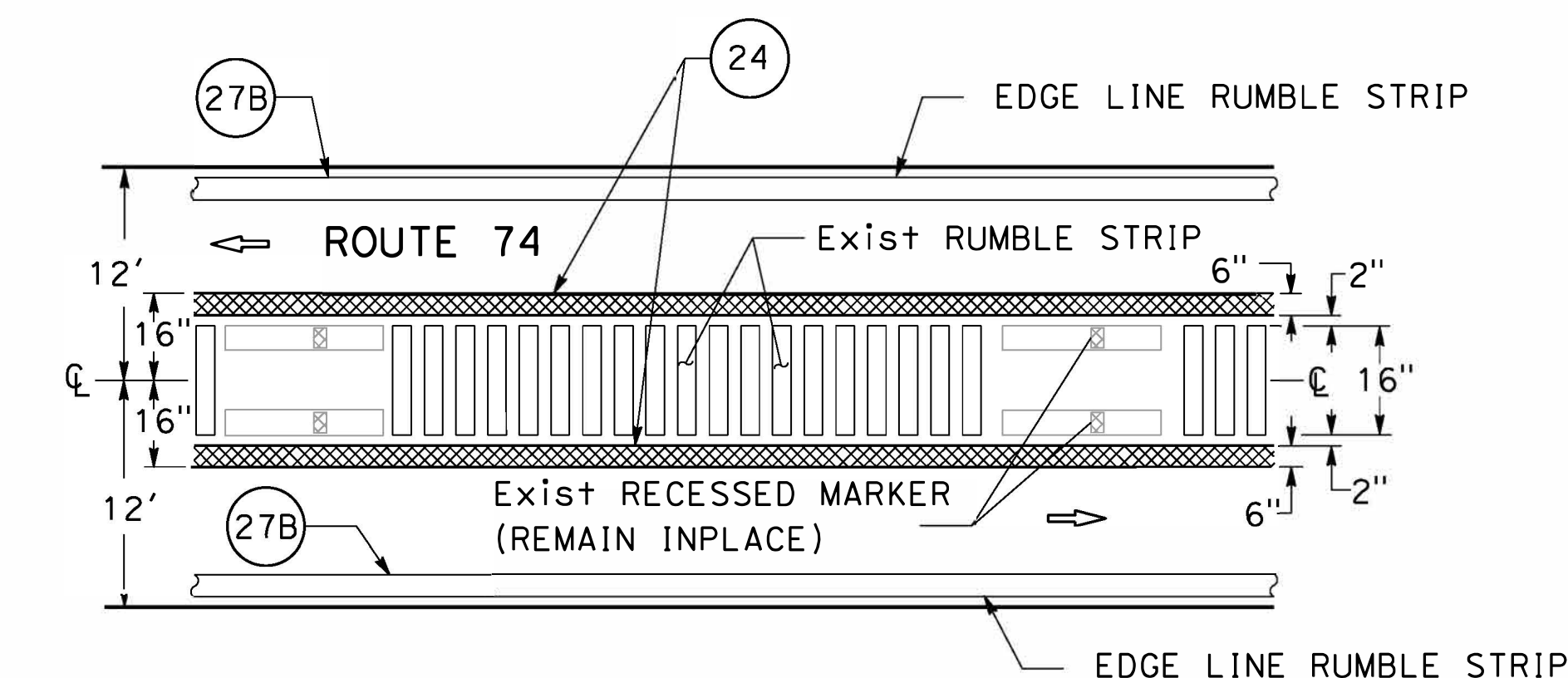
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXEMPT PROJECT WITH LIMITED OR NO EXCAVATION, UTILITIES ARE NOT SHOWN.
- EXISTING PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED AT THE SAME LOCATION. PAVEMENT DELINEATIONS AND PAVEMENT MARKINGS SHALL BE PLACED ON EXISTING TRAFFIC STRIPES AND MARKINGS AT ELECTRICAL LOOPS AND CONDUITS.
- TYPICAL SECTIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY EXACT LOCATIONS OF PAVEMENT MARKINGS.
- ALL PAVEMENT DELINEATIONS AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (ENHANCED WET NIGHT VISIBILITY), UNLESS OTHERWISE NOTED.
- ALL CROSSWALK SHALL BE 10' INSIDE WIDTH.
- EXISTING PAVEMENT MARKERS ARE TO REMAIN IN PLACE FROM PM 5.30 TO PM 11.50.

**LEGEND:**

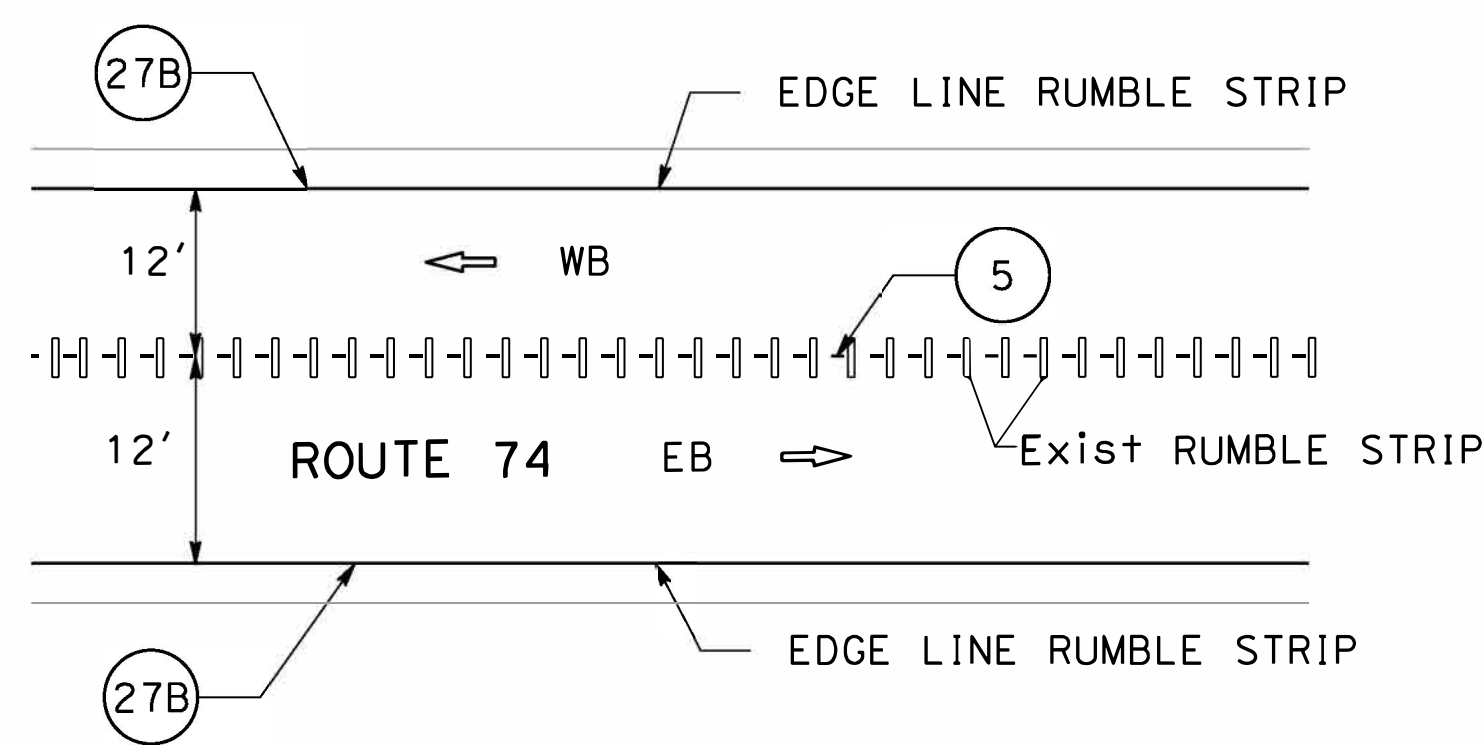
- (XX) PAVEMENT DELINEATION DETAIL
- ▬ LADDER CROSSWALK PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)



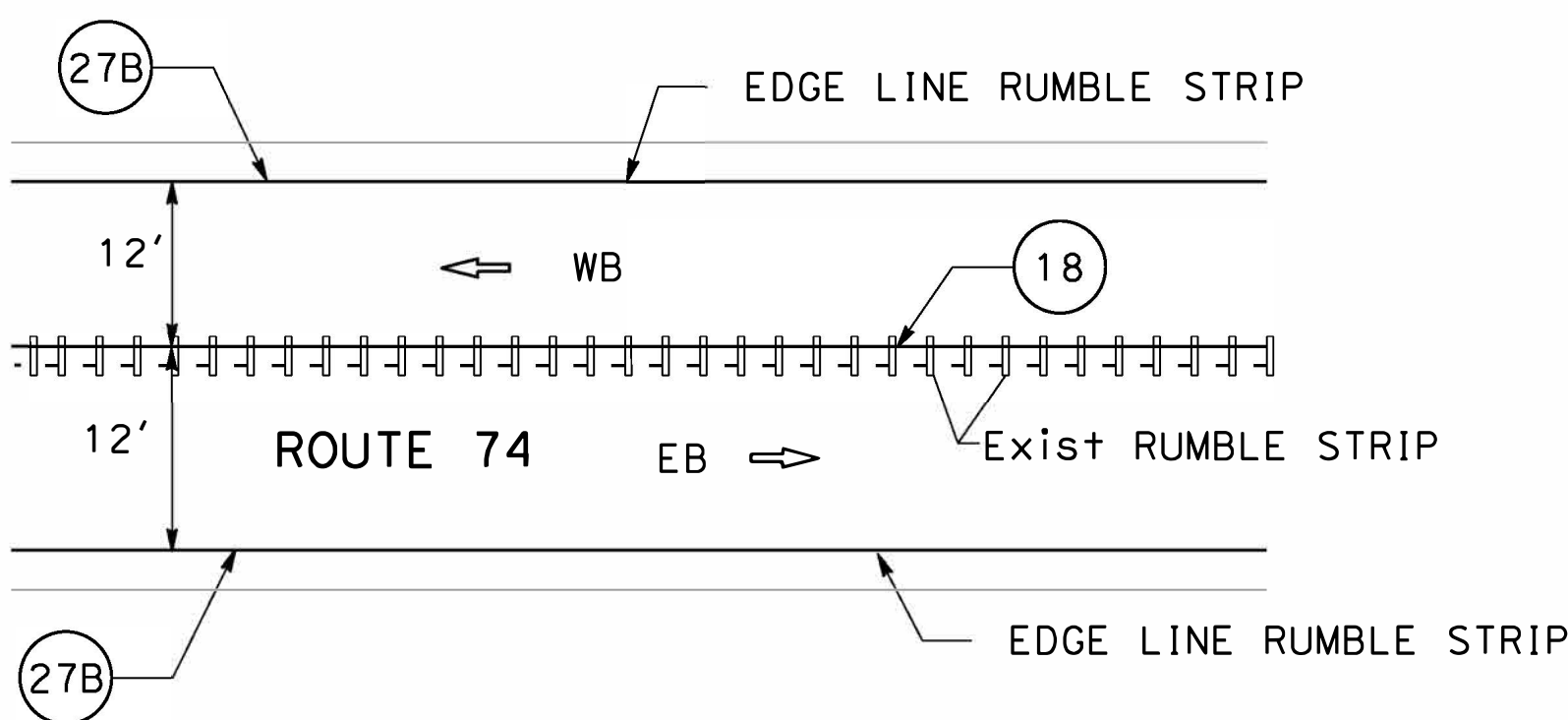
ROUTE 74  
PAVEMENT DELINEATION DETAIL AT CENTERLINE RUMBLE STRIP  
PM 9.60 TO PM 9.85, PM 10.40 TO PM 11.05



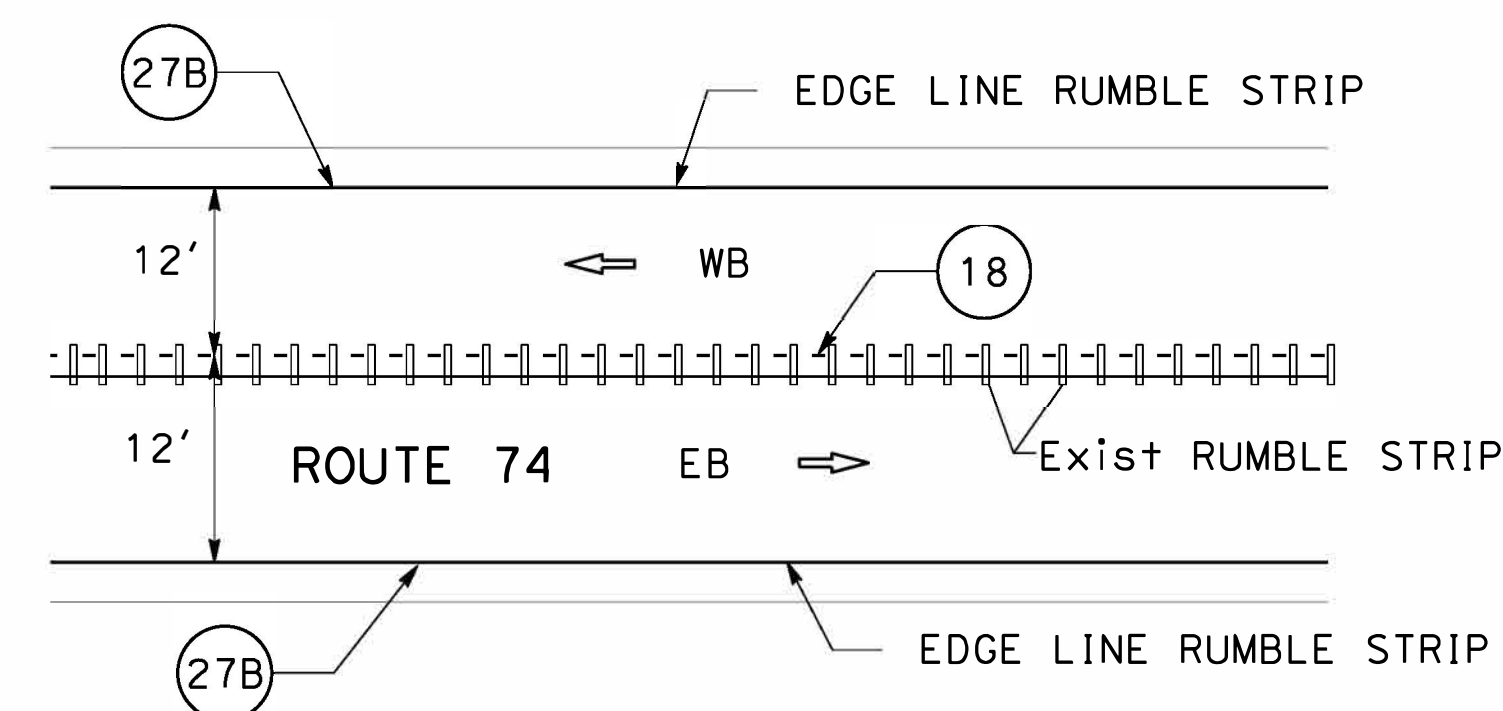
ROUTE 74  
PAVEMENT DELINEATION DETAIL AT CENTERLINE RUMBLE STRIP  
PM 5.30 TO PM 9.60



ROUTE 74  
PM 9.95 TO PM 10.25 &  
PM 11.23 TO PM 11.35



ROUTE 74  
PM 9.85 TO PM 9.95 &  
PM 11.05 TO PM 11.23



ROUTE 74  
PM 10.25 TO PM 10.40 &  
PM 11.35 TO PM 11.50

**PAVEMENT DELINEATION DETAILS**

NO SCALE

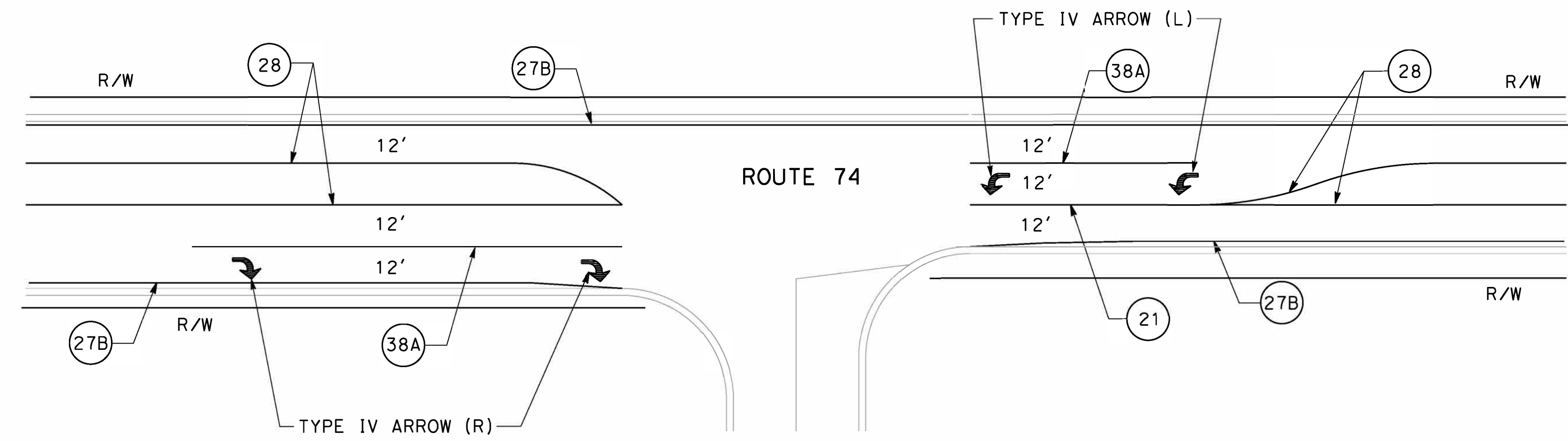
**PDD-1**

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

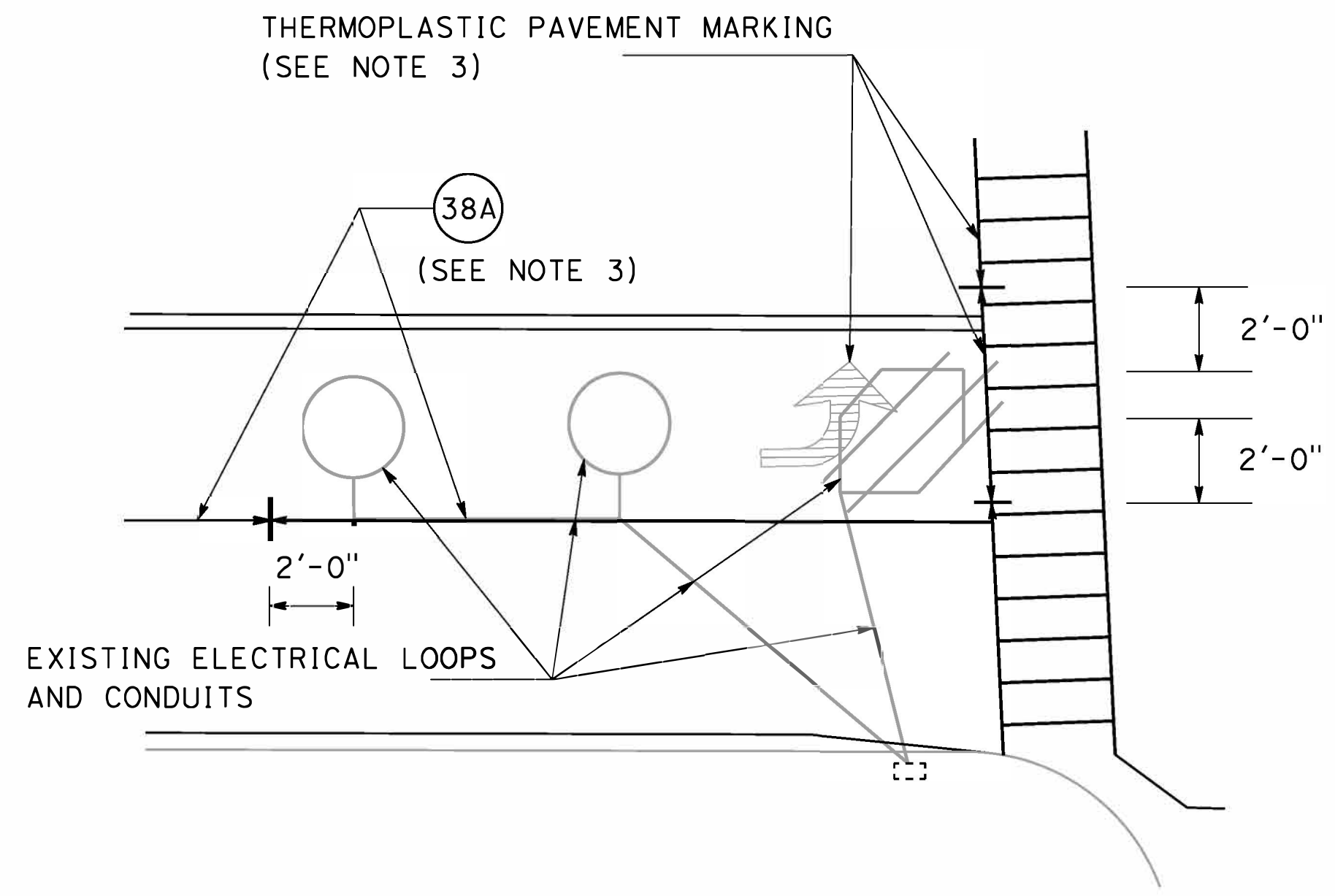
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/11.5	4	7

*Anh Tran* 01-16-24  
 REGISTERED CIVIL ENGINEER DATE  
 January 6, 2024  
 PLANS APPROVAL DATE

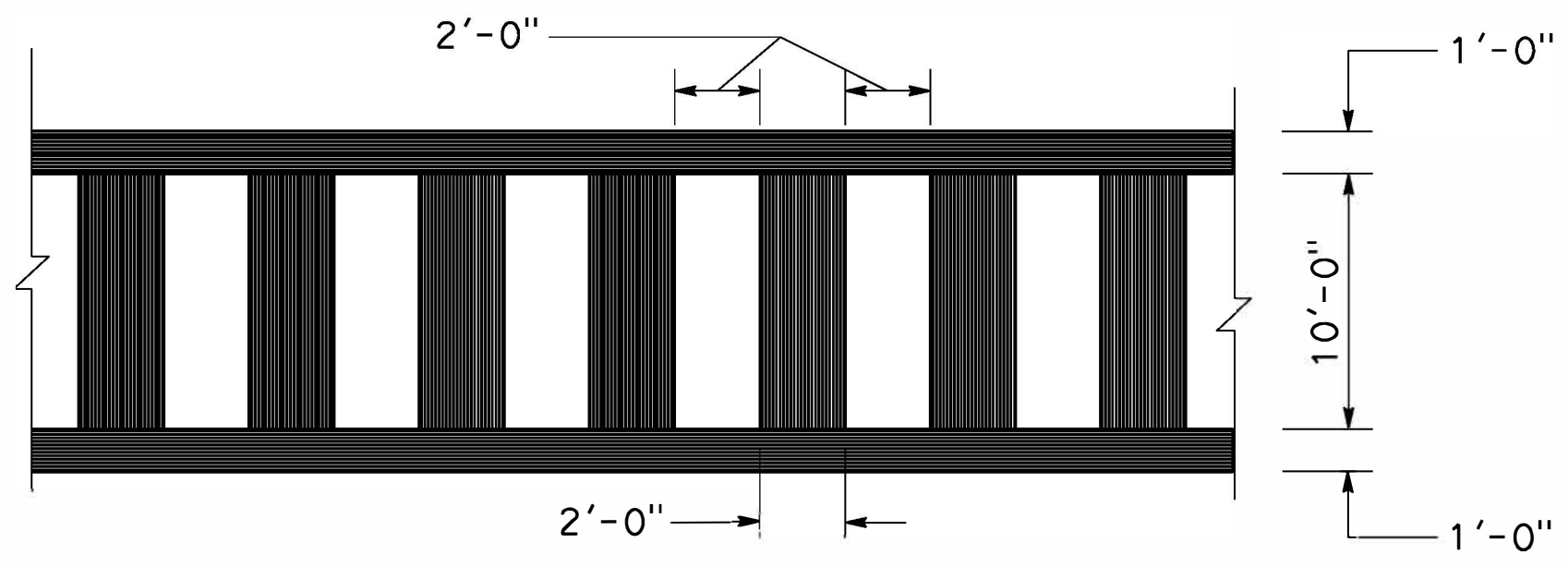
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**TYPICAL INTERSECTION  
 STRIPING WITH LEFT/RIGHT TURN POCKETS**  
 PM 5.3 TO PM 11.5



**PAVEMENT DELINEATION DETAIL AT  
 ELECTRICAL LOOPS AND CONDUITS**



**LADDER CROSSWALK DETAIL**

**PAVEMENT DELINEATION DETAILS**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE  
 PHAT TRAN  
 ANH TRAN  
 SUSAN FONG  
 REVISIONS: PHAT TRAN, ANH TRAN, SUSAN FONG, CHECKED BY, DESIGNED BY, CALCULATED BY, REVISOR, DATE, REVISED BY, DATE, REVISED BY

APPROVED FOR PAVEMENT DELINEATION WORK ONLY



UNIT 3064

PROJECT NUMBER & PHASE

12240000371



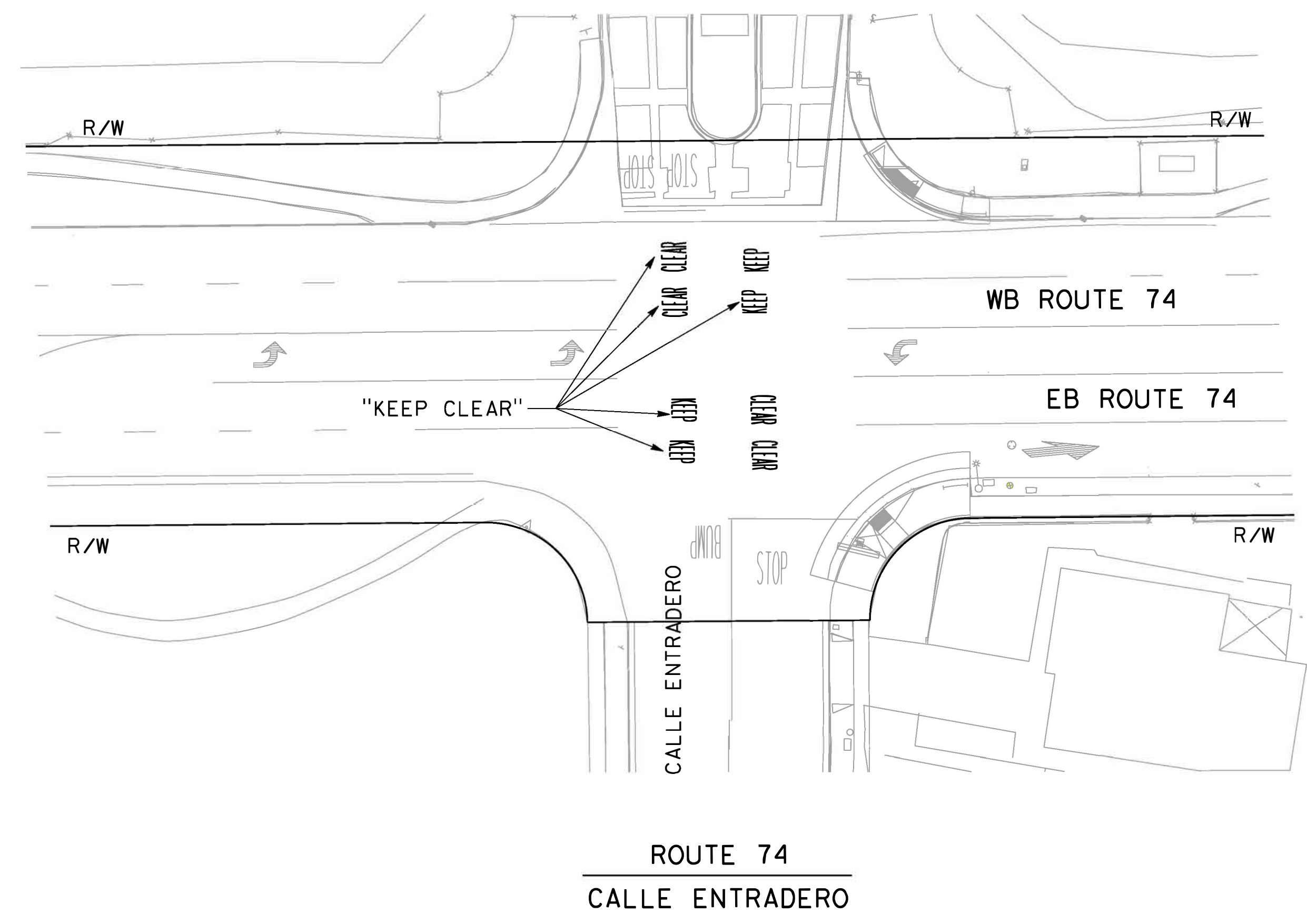
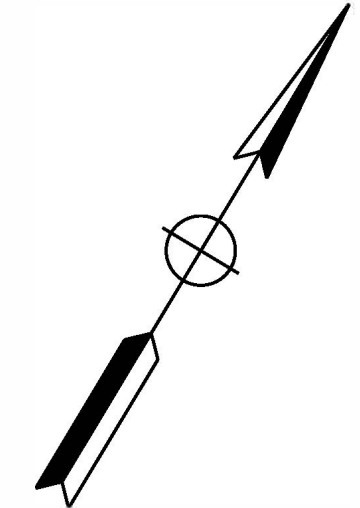
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/11.5	5	7

*Anh Tran* 01-16-24  
 REGISTERED CIVIL ENGINEER DATE  
 January 6, 2024  
 PLANS APPROVAL DATE

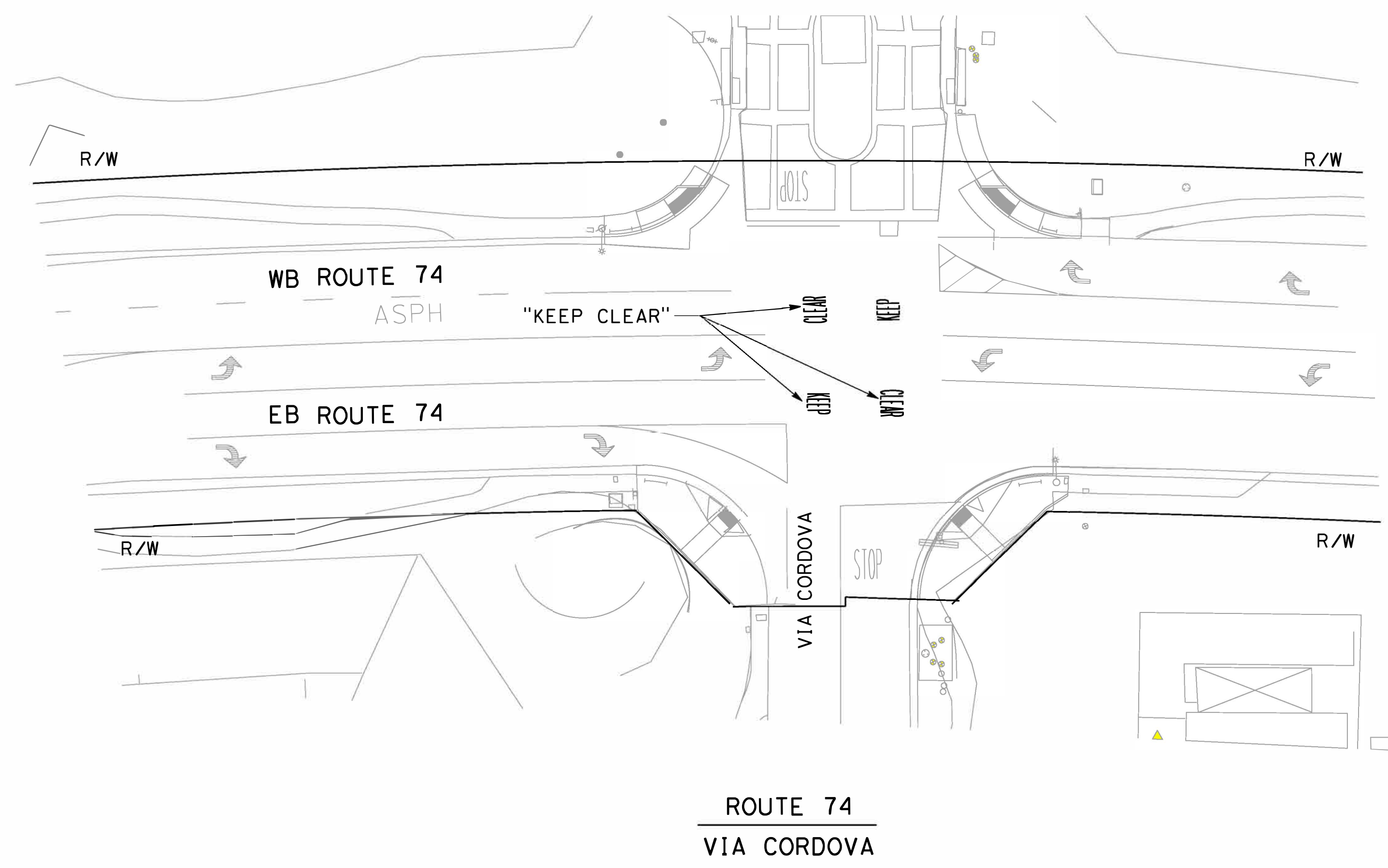
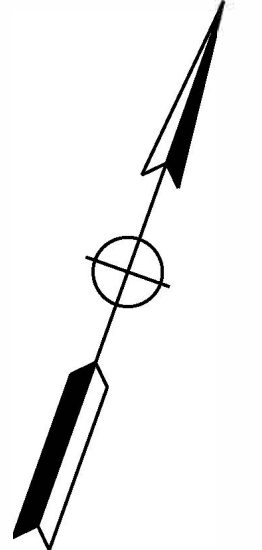
REGISTERED PROFESSIONAL ENGINEER  
 ANH P. TRAN  
 No. C56206  
 Exp. 12-31-24  
 CIVIL  
 STATE OF CALIFORNIA

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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
<b>Caltrans</b> MAINTENANCE
FUNCTIONAL SUPERVISOR SUSAN FONG
CALCULATED/DESIGNED BY CHECKED BY
PHAT TRAN ANH TRAN
REVISED BY DATE REVISED



ROUTE 74  
CALLE ENTRADERO



ROUTE 74  
VIA CORDOVA

## PAVEMENT DELINEATION DETAILS

NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY





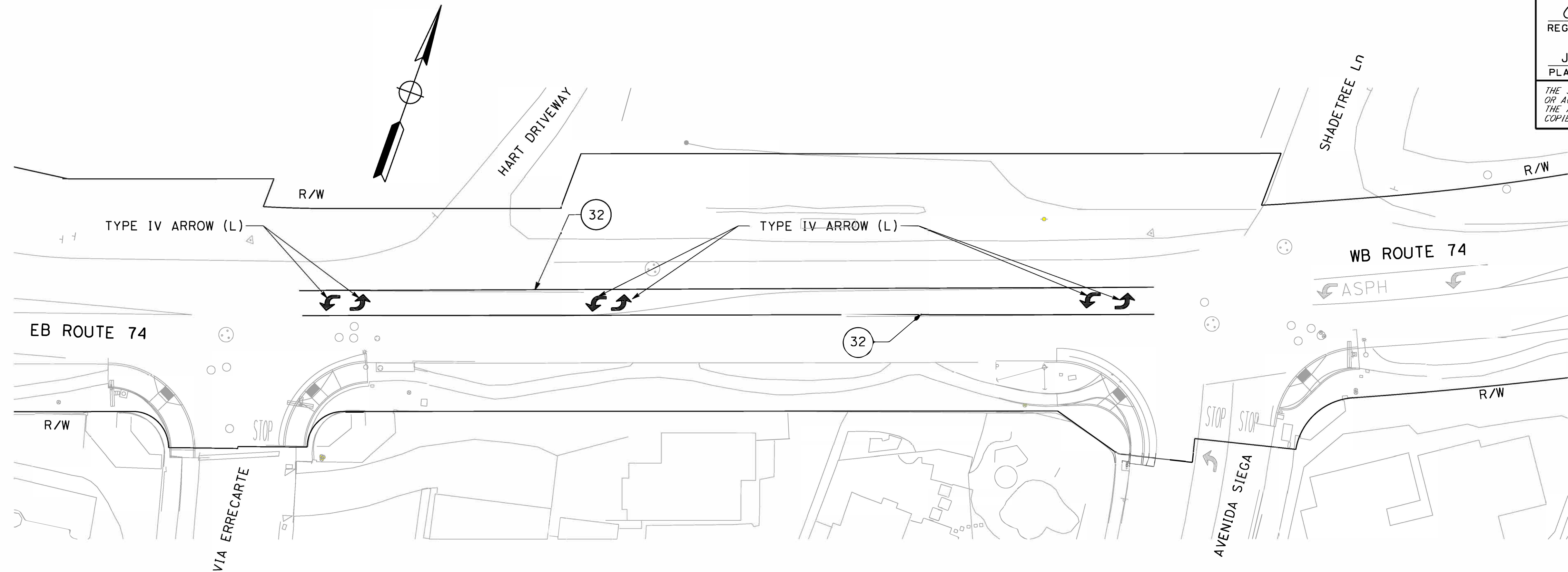
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/11.5	6	7

*Anh Tran* 01-16-24  
 REGISTERED CIVIL ENGINEER DATE

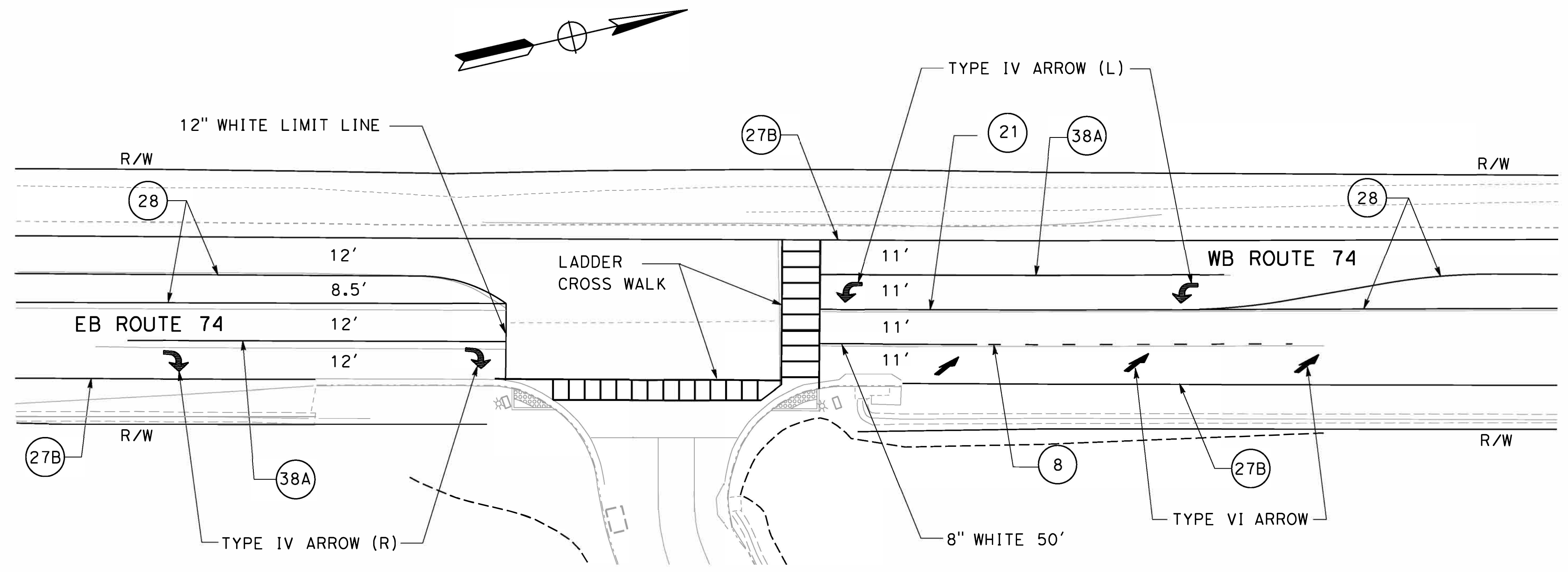
January 6, 2024  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 ANH P. TRAN  
 No. C56206  
 Exp. 12-31-24  
 CIVIL  
 STATE OF CALIFORNIA

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ROUTE 74  
 VIA ERRECARTE & SHADE TREE Ln



ROUTE 74  
 NICHOLS INSTITUTE

**PAVEMENT DELINEATION DETAILS**

NO SCALE

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

**PDD-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b> MAINTENANCE	SUSAN FONG	PHAT TRAN	
		ANH TRAN	
		CHECKED BY	
		DESIGNED BY	



LAST REVISION DATE PLOTTED => 1/9/2024  
 01-08-24 TIME PLOTTED => 2:56:00 PM

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	74	1.0/11.5	7	7

*Anh Tran* 01-16-24  
 REGISTERED CIVIL ENGINEER DATE

January 6, 2024  
 PLANS APPROVAL DATE

ANH P. TRAN  
 No. C56206  
 Exp. 12-31-24  
 CIVIL  
 STATE OF CALIFORNIA

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**PAVEMENT DELINEATION QUANTITIES**

LOCATION	POST MILE		THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)									PAVEMENT MARKER (RETRO-REFLECTIVE)  (TYPE D)	THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)					REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE THERMOPLASTIC PAVEMENT MARKING	12" RUMBLE STRIP (AC PAVEMENT)	
			6"						8"				ARROW	KEEP CLEAR	LIMIT LINE	LADDER CROSSWALK						
			DETAIL 5	DETAIL 8	DETAIL 27	DETAIL 18	DETAIL 21	DETAIL 24	DETAIL 28	DETAIL 32	DETAIL 38A						TYPE II					TYPE IV
			BROKEN WHITE (36-12)	BROKEN YELLOW (17-7)	SOLID WHITE	SOLID YELLOW				SOLID WHITE												
FROM	TO	LF	LF	LF	LF	LF	LF	LF	LF	EA	SQFT	SQFT	SQFT	SQFT	SQFT	EA	LF	SQFT	Sqft			
VIA VISTA DEL MAR TO 0.2 MILE EAST OF SHADETREE LANE	1.0	1.9								1,400	60		90	306			76	960	60			
GIBBY ROAD TO 1 MILE WEST OF HOT SPRING CANYON ROAD	5.3	11.5	3,960	150	65,472	2,640	640	54,912	5,880		420	120	126		30	590		131,658	866	658		
SUBTOTAL			3,960	150	74,976	2,640	640	54,912	5,880	1,400	420	60	120	216	306	30	590	76	132,618	926	658	
TOTAL			3,960	150	130,944						420	60	1,262			76	132,618	926	658			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE

FUNCTIONAL SUPERVISOR: SUSAN FONG

CALCULATED/DESIGNED BY: ANH TRAN  
 CHECKED BY: PHAT TRAN

REVISOR: ANH TRAN  
 DATE: 00-00-00

**PAVEMENT DELINEATION QUANTITIES**

**PDQ-1**

LAST REVISION: 01-08-24 11:05:12 AM  
 DATE PLOTTED => 1/9/2024  
 TIME PLOTTED => 3:05:12 PM