

COUNTY OF SOLANO
STATE OF CALIFORNIA



**MONTEZUMA HILLS PAVEMENT
MAINTENANCE PROJECT 2025**

**NOTICE TO BIDDERS, BID FORM, SPECIAL
PROVISIONS, AGREEMENT, AND RELATED CONTRACT
DOCUMENTS**

Solano County Department of Resource Management
Public Works Engineering
675 Texas Street, Suite 5500
Fairfield, CA 94533-6341

Bid Due Date: July 8th, 2025

FOR CLERK OF THE BOARD

Planholder Lists and Bidder Results
for
Solano County Public Works Projects
can be found on our website at
<http://www.solanormplanroom.com/>

COUNTY OF SOLANO
STATE OF CALIFORNIA

NOTICE TO BIDDERS, BID FORM,
SPECIAL PROVISIONS, CONTRACT AND
OTHER RELATED CONTRACT DOCUMENTS
FOR THE CONSTRUCTION OF

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

for use in connection with Caltrans Standard Specifications 2024,
Revised Caltrans Standard Plans 2024 Dated 10/21/2024,
and Labor Surcharge and Equipment Rental Rates.

BOARD OF SUPERVISORS

MITCH MASHBURN – CHAIR
MONICA BROWN – VICE CHAIR
WANDA WILLIAMS – CHAIR PRO TEM
JOHN VASQUEZ
CASSANDRA JAMES

SOLANO COUNTY DEPARTMENT OF RESOURCE MANAGEMENT
DIRECTOR OF RESOURCE MANAGEMENT: JAMES BEZEK

675 Texas Street, Suite 5500
Fairfield, California 94533-6341
Contact Person: **RILEY MARTINSON**
Phone: **707-784-3177**

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

SIGNATURE AND SEAL SHEET

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



A handwritten signature in black ink, appearing to read "Riley C. Martinson".

6/10/25

RILEY MARTINSON, P.E., T.E.
SOLANO COUNTY DEPT. OF RESOURCE MANAGEMENT
ENGINEERING SERVICES SUPERVISOR

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IMPORTANT SPECIAL NOTICE

Subcontractor Listing Requirement at Time of Bid. A prime contractor is required to include the license number of a listed subcontractor when submitting a bid on any public work in California.

In accordance with Public Contract Code § 4100 et seq., bidders must complete the requested fields in both the SOLANO COUNTY BIDDER'S LIST OF SUBCONTRACTORS and CALTRANS SUBCONTRACTOR LIST FORM below (unless otherwise indicated) for each subcontractor performing work or labor, or rendering service to the contractor, or a subcontractor who, under subcontract to the contractor, specially fabricates and installs a portion of the Work, in an amount in excess of one-half of one percent (0.5%) of the total bid amount. In the case of bids for the construction of streets and highways, including bridges, list subcontractors for all work in an amount in excess of one-half of one percent (0.5%) of the total bid, or ten thousand dollars (\$10,000) whichever is greater.

If a bidder fails to specify a subcontractor or if a contractor specifies more than one subcontractor for the same portion of work, then the bidder shall be deemed to have agreed that it is fully qualified to perform that portion of work and that it shall perform that portion itself.

IMPORTANT SPECIAL NOTICE

Contractors and subcontractors need to be registered with the California Department of Industrial Relations (DIR) to: 1) bid or be listed on a bid for a public works project or 2) work on a public works project.

Any contractor or subcontractor who bids on or performs work that requires the payment of prevailing wages under state law must be registered with DIR. This includes not only work performed by the building and construction trades, but also other types of work, including trucking, surveying, and testing, if that work is subject to prevailing wage requirements.

The cost is **\$400.00** for a contractor or subcontractor to apply and register through DIR. If a contractor or subcontractor has more than one entity or business that bids on or performs public works, then each of those entities must be registered with DIR.

To qualify for registration, the contractor or subcontractor must (1) have workers' compensation coverage for their workers, (2) be licensed by a Contractors State Licensing Board if applicable to their trade, (3) not owe back wages or related penalties under a judgment or order, (4) not be debarred from performing public works by the state or federal government, and (5) not have previously bid or worked in violation of the registration requirement. (*Please see Labor Code section 1725.5 for complete text of requirements and exceptions.)

Upon registration, the contractor or subcontractor's name and registration will be added automatically to a searchable data base on DIR's website.

<https://www.dir.ca.gov/Public-Works/Contractor-Registration.html>

https://services.dir.ca.gov/gsp?id=dir_contractors&table=x_cdoi2_left_core_contractor_lookup

Other information regarding these requirements can be found at the following website:

<https://www.dir.ca.gov/public-works/>

NOTICE TO BIDDERS

Bids Open: July 8th, at 2:00 P.M Pacific Time (P.T.)

Date: June 12th, 2025

The COUNTY OF SOLANO, STATE OF CALIFORNIA ("County") will receive bids for the furnishing of all labor, materials, transportation, and services necessary for the construction and completion of:

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

General Work Description: Install an asphalt rubber chip seal, associated surface preparation and striping on Shiloh Road and Montezuma Hills Road in Rio Vista, CA. Work also includes surface preparation, base failure repairs, and micro-surfacing at Nut Tree Airport in Vacaville, CA.

Work must be completed within **40** working days.

The estimated cost of the project is **\$1,400,000**.

There is no DBE requirement for this project.

The Department of Resource Management (Department) will receive bids until 2:00 p.m. Pacific Time (P.T.) on the bid opening date at the office of: **Solano County Department of Resource Management, 675 Texas Street, Suite 5500, Fairfield, California**. Bids received after this time will not be accepted.

The Department will open and publicly read the bids at the above location immediately after the specified closing time.

Attention is directed to the Contract Documents for complete details and bid requirements. Copies of the Contract Documents may be obtained by logging on <http://www.solanormplanroom.com/> or by calling BPXpress Reprographics at (707)-745-3593. These may be obtained at a set price of \$100.00, plus shipping and handling, and is non-refundable. All bidders must purchase a complete bid set from BPXpress Reprographics in order to be considered responsive and to receive addenda notifications. Submit your bid with bidder's security equal to at least ten percent of the bid.

The successful bidder shall furnish a signed contract, a payment bond, a performance bond, certificate of insurance and endorsement, and Tax Identification Number within ten days after the date of receipt of Notice of Award.

The County reserves the right to reject any and all bids.

Contractor shall possess a valid business license.

Prevailing wages are required on this contract. The Director of the California Department of Industrial Relations 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.

For further information, please see our web page:

http://www.solanocounty.com/depts/rm/public_works/engineering_surveying_division/projects/request_for_bids.asp

Bidders may submit questions to mrtuggle@solanocounty.gov.

Sincerely,

A handwritten signature in dark ink, appearing to read 'M. Tuggle', is written over a horizontal line.

MATT TUGGLE
ENGINEERING MANAGER

BID FORM TO COUNTY OF SOLANO, STATE OF CALIFORNIA

NAME OF BIDDER Pavement Coatings Co.

BUSINESS ADDRESS 2150 Bell Ave., Suite 125

CITY, STATE, ZIP Sacramento, CA 95838

TELEPHONE AND AREA CODE () (916) 642-1751

EMAIL estnorth@pavementcoatings.com

The work for which this bid is submitted is for construction in accordance with the Special Provisions (including the payment of not less than the state general prevailing wage rates or federal minimum wage rates), the project plans and specifications described below, including any addenda, the attached contract, and the labor surcharge and equipment rental rates in effect on the date the work is accomplished.

The project plans for the work to be done were approved and are entitled:

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

Bids are to be submitted for the entire work. The amount of the bid for comparison purposes will be the total of all items.

The bidder shall set forth for each unit basis item of work a unit price and a total for the item, and for each lump sum item a total for the item, all in clearly legible figures in the respective spaces provided for that purpose. In the case of unit basis items, the amount set forth under the "Item Total" column shall be the product of the unit price bid and the estimated quantity for the item.

In case of discrepancy between the unit price and the total set forth for a unit basis item, the unit price shall prevail, except as provided in (a) or (b) as follows:

- (a) If the amount set forth as a unit price is unreadable or otherwise unclear, or is omitted, or is the same as the entry in the item total column, then the amount set forth in the item total column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price;
- (b) (Decimal Errors) If the product of the entered unit price and the estimated quantity is exactly off by a factor of ten, one hundred, etc., or one-tenth, or one-hundredth, etc. from the entered total, the discrepancy will be resolved by using the entered unit price or item total, whichever most closely approximates percentage wise the unit price or item total in the Department's Final Estimate of cost.

If this bid is accepted and the undersigned fails to enter into the contract, furnish a performance bond and payment bond in the sums required by Cal. Civil Code section 9550 et seq., with surety satisfactory to the County, and the required certificates of insurance and endorsements, within ten days, not including Saturdays, Sundays and legal holidays, after the bidder has received notice from the Engineer that the contract has been awarded, the County may, at its option, determine that the bidder has abandoned the contract, and thereupon this bid and its acceptance shall be null and void and the forfeiture of such security accompanying this bid shall operate and the same shall be the property of the County of Solano.

WARNING: Any bidder or contractor not licensed by the time of award of contract shall be subject to all legal penalties imposed by law, including, but not limited to, any appropriate disciplinary action by the Contractors' State License Board.

The undersigned, as bidder, declares that the only persons or parties interested in this bid as principals are those named in it; that this bid is made without collusion with any other person, firm, or corporation; that they have carefully examined the location of the proposed work, the attached proposed form of contract, and the plans referred to; and they propose, and agree if this bid is accepted, that they will contract with the County of Solano, in the form of the attached contract, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the prescribed manner and time, and according to the requirements of the Engineer as set forth, and that they will take in full payment the following item prices:

ATTACHMENT A
MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025
UPDATED REVISED BID SCHEDULE

ITEM NO.	ITEM DESCRIPTION	UNIT S	ESTIMATED QUANTITY	UNIT PRICE IN FIGURES	TOTAL PRICE IN FIGURES
1	SWPPP	LS	1	\$ 5,300.00	\$ 5,300.00
2	CONTRACTOR QUALITY CONROL PLAN	LS	1	\$ 2,150.00	\$ 2,150.00
3	TRAFFIC CONTROL FOR LANE CLOSURE (S)	LS	1	\$ 1,500.00	\$ 1,500.00
4	FLAGGING STRAIGHT TIME (S)	HRS	480	\$ 108.00	\$ 51,840.00
5	FLAGGING OVERTIME (S) *	HRS	120	\$ 128.98	\$ 15,477.60
6	MONUMENT WELLS	EA	5	\$ 1,350.00	\$ 6,750.00
7	SURFACE PREPEARTION (CRACK SEALING AND SWEEPING)	SY	148,439	\$ 0.53	\$ 78,672.67
8	HMA LEVELING COURSE (PLACEMENT)	SY	1,782	\$ 11.00	\$ 19,602.00
9	HMA LEVELING COURSE (3/8" TYPE A)	TON	80	\$ 185.00	\$ 14,800.00
10	BASE FAILURE REPAIRS	SY	550	\$ 135.00	\$ 74,250.00
11	MICRO-SURFACE (TYPE II)	SY	148,439	\$ 2.55	\$ 378,519.45
12	ASPHALT RUBBER CHIP SEAL (PLACEMENT)	SY	140,970	\$ 2.05	\$ 288,988.50
13	ASPHALT RUBBER BINDER (MODIFIED)	GAL	84,582	\$ 2.94	\$ 248,671.08
14	SCREENINGS (MEDIUM 3/8")	TON	2,467	\$ 62.00	\$ 152,954.00
15	REMOVE THERMOPLASTIC MARKINGS	SF	269	\$22.00	\$ 5,918.00
16	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 5 (4 INCH-YELLOW) (S)	LF	9,320	\$ 0.60	\$ 5,592.00
17	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 18 (4 INCH-YELLOW) (S)	LF	5,555	\$ 1.50	\$ 8,332.50
18	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 21 (4 INCH-YELLOW) (S)	LF	47,147	\$ 1.75	\$ 82,507.25
19	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 27B (4 INCH-WHITE) (S)	LF	124,134	\$ 0.75	\$ 93,100.50
20	THERMOPLASTIC PAVEMENT MARKINGS (S)	SF	141	\$ 37.55	\$ 5,294.55
				GRAND TOTAL	\$ 1,540,220.10

*NOTE: Flagging shall be paid in accordance with "TEMPORARY TRAFFIC CONTROL" in these Special Provisions. The Contractor will be paid at the listed unit price for these items. This rate includes all markups. Listed Quantity is for bid purposes only. Payment will be based upon actual hours used.

NOTE:** Section 9-1.06 "CHANGED QUANTITY PAYMENT ADJUSTMENTS". Unit price adjustment resulting from a change of more than 25% does not apply.

SOLANO COUNTY BIDDER'S LIST OF SUBCONTRACTORS
TOP THREE APPARENT LOW BIDDERS MUST COMPLETE AND SUBMIT WITHIN 24
HOURS OF BID OPENING (OR MAY SUBMIT WITH BID)

Subcontractor Name and Location	Line Item & Description	Subcontract Amount	Percentage of Bid Item Sub-contracted	Contractor		DBE (Y/N)	DBE Cert Number
				License Number	DIR Reg Number		
Name: Chrisp Company	6. Monument Wells 15-20. Striping, Markings Markers and Removal	\$205,547.00	100%	374600	100000030	N	N/A
City, State: Woodland, CA			100%				
Name: C.F. Archibald Paving, Inc.	8-10. HMA Leveling, Base Failure Repairs	\$99,460.00	100%	26707	1000004140	N	N/A
City, State: Redwood City, CA							
Name:							
City, State:							
Name:							
City, State:							
Name:							
City, State:							
Name:							
City, State:							

**EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION
THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS
BID SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION
OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS BID
STATEMENT RE: EXECUTIVE ORDERS 10925, 11114, AND 11246**

The bidder Pavement Coatings Co. as Listed , certifies that they have X, have not , participated in a previous contract or subcontract subject to the equal opportunity clauses, as required by Executive Orders 10925, 11114, or 11246, and that, where required, have filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

Note: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b)(1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally, only contracts or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note that 41 CFR 60-1.7 (b)(1) prevents the award of contracts and subcontracts unless such contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

SMALL BUSINESS STATUS

Are you certified as a "Small Business" by the Office of Small Business of the Department of General Services of the State of California?

Please check one of the following: yes, X no, unsure.

(Note: This small business questionnaire is included for statistical reporting only, and your answer neither affects your bid on this contract, nor will it be cause for penalty.)

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

In accordance with Public Contract Code section 10285.1 (Chapter 376, Stats. 1985), the bidder declares under penalty of perjury that the bidder has _____, has not X , been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Public Contract Code section 1101, with any public entity, as defined in Public Contract Code section 1100, including the Regents of the University of California or the Trustees of the California State University. The term "bidder" is understood to include any partner, member, officer, director, responsible managing officer, or responsible managing employee, as referred to in section 10285.1.

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided.

The above Pub. Cont. Code section 10285.1 Statement is part of the bid. Signing this bid on the signature portion shall also constitute acknowledgement and certification of this Statement.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In accordance with Public Contract Code section 10162, the bidder shall complete, under penalty of perjury, the following questionnaire:

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes _____ No X

If the answer is yes, explain the circumstances in the following space.

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

In accordance with Public Contract Code section 10232, the Contractor states under penalty of perjury that no more than one final unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two year period because of the Contractor's failure to comply with an order of a federal court which orders the Contractor to comply with an order of the National Labor Relations Board.

Note: The above Pub. Cont. Code section 10232 Statement and Questionnaire are part of the bid. Signing this bid on the signature portion shall also constitute acknowledgement and certification of this Statement and Questionnaire.

Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

**NONCOLLUSION DECLARATION
TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID
(PURSUANT TO PUBLIC CONTRACT CODE SEC. 7106)**

The undersigned declares:

I am the President of Pavement Coatings Co., the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted their bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on 7/7/2025 [date],
at Sacramento [city], California [state].

CALIFORNIA PUBLIC AGENCY, DEBARMENT AND SUSPENSION CERTIFICATION

The bidder, under penalty of perjury under the laws of the State of California, certifies that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, manager:

- is not currently under suspension, debarment, voluntary exclusion, or determination of non-responsibility or ineligibility by any state or local agency in California;
- has not been suspended, debarred, voluntarily excluded or determined non-responsible or ineligible by any state or local agency in California within the past 5 years;
- has not filed any claims, demands for arbitration, or lawsuits against a public agency within the past five years;
- has not had any bid submitted to a public agency in the past five years rejected or refused on the grounds that the bidder is not responsible;
- has not been found by a court or arbitrator to have filed or presented a false claim against a public agency;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 5 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

N/A

Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

Note: Providing false information may result in criminal prosecution or administrative sanctions.

The above certification is part of the bid. Signing this bid on the signature portion thereof shall also constitute signature of this Certification.

SIGNATURE (BID)

Accompanying this bid is a Bidder's Bond

(Insert the words "cash" (\$ _____), "cashier's check," "certified check," or "bidder's bond,"

in amount equal to at least ten percent of the total of the bid.

The names of all persons interested in the foregoing bid as principals are as follows:

IMPORTANT NOTICE

If bidder or other interested person is a corporation, state its secretary, treasurer, and manager; if a copartnership, state true name of firm, also names of all individual copartners composing firm; if bidder or other interested party is an individual, state first and last names in full.

Tim Schmid, President

Tom Mucenski, Secretary

Richard Yauney, Treasurer

License in accordance with an act providing for the registrations of contractors.

License No. 303609 License Expiration Date 09/30/2026

Classification(s) A, C32

DIR Registration #: 1000003382

CA Tax Identification #: 95-2916670

ADDENDA-BID

This bid is submitted with respect to the changes to the contract included in addenda number/s

1,2

(Fill in addenda numbers if addenda have been received and insert, in this bid, any Engineer's Estimate sheets that were received as part of the addenda.)

Addendum or addenda issued by the County must be noted above.

By my signature on this bid I certify, under penalty of perjury under the laws of the State of California, that the foregoing questionnaire and statements of Public Contract Code sections 6109 10162, 10232 and 10285.1 are true and correct and that the bidder has complied with the requirements of section 11102 (former section 8103) of the Civil Rights Department (Chapter 5, Title 2 of the California Code of Regulations). By my signature on this bid I further certify, under penalty of perjury under the laws of the State of California and the United States of America, that the Noncollusion Affidavit required by Title 23 United States Code, section 112 and Public Contract Code section 7106; and Title 49 2 Code of Federal Regulations, Part 200, App II(H), 2 C.F.R.200.214 Suspension and Debarment Certification are true and correct.

Date:

7/7/2025

Signature and Title of Bidder



Tim Schmid, President

Business Address 2150 Bell Ave., Suite 125 Sacramento, CA 95838

Place of Business 2150 Bell Ave., Suite 125 Sacramento, CA 95838

Place of Residence 2150 Bell Ave., Suite 125 Sacramento, CA 95838

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That Pavement Coatings Co., as Principal, and The Ohio Casualty Insurance Company, a Corporation, organized and existing under and by virtue of the laws of the State of New Hampshire and authorized to do surety business in the State of California, as Surety, are held and firmly bound unto the **County of Solano**, State of California, as Oblige, in the sum of Ten Percent of Amount Bid Dollars (\$ 10% of Amt. Bid), for the payment of which sum well and truly to be made, we, and each of us, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal has submitted a bid to the **County of Solano**, State of California, for all work specifically described in the accompanying bid;

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

NOW, THEREFORE, if the aforesaid Principal is awarded the contract, and within the time and manner required under the specifications, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files two bonds with the Oblige, one to guarantee faithful performance of the contract and the other to guarantee payment for labor and materials as provided by law, or if the said Principal shall fully reimburse and save harmless the Oblige from any damage sustained by the Oblige through failure of the Principal to enter into the written contract and to file the required performance and labor and material bonds, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect.

In the event suit is brought upon this bond by the Oblige and judgment is recovered, the Surety shall pay all costs incurred by the Oblige in such suit, including a reasonable attorney's fee to be fixed by the Court.

IN WITNESS WHEREOF, we have hereunto set our hands and seal this 2nd day of July, 2025.

Pavement Coatings Co.

The Ohio Casualty Insurance Company

By: TIM SCHMID, President
Principal (Seal)

By: Evet Lam, Attorney-in-Fact
Surety (Seal)

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to at least ten percent of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)

COUNTY OF Orange)

On July 2, 2025 before me, Brigid Lopez Notary
Date Insert Name and Title of the officer

Public, personally appeared Evett Lam

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: Brigid Lopez

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signers Name: _____

☐ Corporate Officer - Title(s) _____

☐ Partner - ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signers Name: _____

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☐ Partner - ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____



POWER OF ATTORNEY

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: 8214065 - 971991

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Brian A. McGoldrick, Brigid Lopez, Evett Lam, Marisella Rivera

all of the city of Placentia state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 20th day of May, 2025.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By:

Nathan J. Zangerle
Nathan J. Zangerle, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 20th day of May, 2025 before me personally appeared Nathan J. Zangerle, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2029
Commission number 1128044
Member, Pennsylvania Association of Notaries

By:

Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 2nd day of July, 2025.



By:

Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Sacramento)On July 7, 2025 before me, Rick James Arias, Notary Public,
Date Here Insert Name and Title of the Officerpersonally appeared Tim Schmid
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer — Title(s): _____☐ Partner — ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian or Conservator☐ Other: _____

Signer Is Representing: _____

Signer's Name: _____

☐ Corporate Officer — Title(s): _____☐ Partner — ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian or Conservator☐ Other: _____

Signer Is Representing: _____

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

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STATE OF CALIFORNIA)

COUNTY OF _____)

On _____ before me, _____ Notary
Date Insert Name and Title of the officer

Public, personally appeared _____

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

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☐ Partner - ☐ Limited ☐ General ☐ Partner - ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact ☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator ☐ Trustee ☐ Guardian or Conservator

☐ Other: _____ ☐ Other: _____

Signer is Representing: _____ Signer is Representing: _____

BIDDER INFORMATION SHEET

Bidder must check one of the following classifications which fits its type of business organization and furnish all information required under that classification.

Please type or print your answers.

☐ BIDDER IS AN INDIVIDUAL

Bidder's name as it appears on State Contractor's License is:

☐ BIDDER IS A PARTNERSHIP

Bidder's firm name, individual or partnership, as it appears on State Contractor's License is:

The full names of all the partners as they appear on State Contractor's License are:

County in which any Certificate of Doing Business Under Fictitious Name is Filed (If none, so state).

☒ BIDDER IS A CORPORATION

The full name of the corporation as it appears on the State Contractor's License is:

Pavement Coatings Co.

Corporation is incorporated in the State of: California

STATEMENT OF EXPERIENCE OF BIDDER

The bidder is required to state what work of similar magnitude or character he or she has done, and to give reference that will enable the County to judge of his experience, skill and business standing and of his or her ability to conduct the work as completely and as rapidly as required under the terms of the contract documents. In each instance, given the nature of the work performed, for whom, amount of contract, dates of work, and the name of architect, Engineer, or other supervising person for the County or public agency. If additional space is needed, use and attach additional sheets.

*PLEASE SEE ATTACHED

Pavement Coatings Co.

Experience Statement

2150 Bell Ave Suite 125, Sacramento, CA 95838, Phone(916) 642-1751, Fax: (916) 313-3438

Contractor's License Number 303609; DIR #1000003382

Project Name & Location	Owner	Owner Contact	Architect/Engineer Contact	Construction Manager Contact	Description	Scope	Contract Amount	Final Cost	Liquidated Damages	Stop Notices & Mechanic Liens	Date Project Started	Time Extensions Granted (number of days)	Actual Date of Completion	General or Subcontractor
Call Roadway and Trail Maintenance Services	City of Roseville 311 Vernon St Roseville, California 95678	Gursimk Singh 916-748-1305 gsingh2@roseville.ca.us	N/A	Jake Boggess, 916-642-1751	Hot Mix Paving/AC Repairs, Hot Applied Rubber Chip Seal, Microsurfacing	Hot Mix Paving/AC Repairs - 2,100 TN Hot Applied Rubber Chip Seal - 107,400 SY Microsurfacing - 1,590 TN	\$2,155,501.00	\$2,842,165.00	None	None	6/21/2023	0	11/26/2023	General Contractor
124 Maintenance District Cape Seals	County of Madera 200 W. 4th Street Madera, California 93607	Steve Doss 559-875-7811 steve.doss@maderacounty.com	N/A	Yusuf Lewis 916-706-3092	Type II Microsurfacing, Conventional Chip Seal	Type II Micro - 4,883 TN Conventional Chip - 4,535 TN	\$3,858,898.00	\$2,866,184.00	None	None	6/8/2024	0	7/23/2024	General Contractor
Y2022/23 Annual Street Repair and Resurfacing	Town of Los Gatos 41 Miles Ave Los Gatos, CA 95030	Jonica Chin 408-395-3400 jchin@losgatosca.gov	N/A	Yusuf Lewis 916-706-3092	Crack Sealing, Asphalt Rubber Cape Seal, Type II Slurry Seal	Crack Sealing - 102,477 SY Asphalt Rubber Chip - 115,093 SY Type II Slurry Seal - 1,239 TN	\$3,498,787.00	\$3,140,187.00	None	None	7/10/2023	0	8/28/2024	General Contractor
124 Maintenance Project - Slurry Seal and Pavement	City of Elk Grove 8401 Laguna Palms Way Elk Grove, CA 95758	Chris Xiong 916-687-3085 cxiong@elkgrovecity.org	N/A	Yusuf Lewis 916-706-3092	Type I Slurry Seal, Type II Slurry Seal, Type I Microsurfacing, Asphalt Rubber Chip Seal	Type I Slurry - 1,203 TN Type II Slurry - 1,684 TN Type II Micro - 1,874 TN AR Chip Seal - 122,715 SY	\$4,725,523.00	\$4,021,880.00	None	None	8/1/2024	0	10/25/2024	General Contractor
2024 Road Resurfacing Project	County of Yolo 625 Court Street Woodland, CA 95695	Mark Christenson 530-958-8842 mark.christenson@yolocounty.org	N/A	Jake Boggess, 916-642-1751	Shoulder Backing, Asphalt Rubber Chip Seal, Type II Microsurfacing, Type III Microsurfacing	Shoulder Backing - 65 TN AR Chip Seal - 5,800 TN Type II Microsurfacing - 3,741 TN Type III Micro - 6,237 TN	\$7,484,015.00	\$8,836,062.00	None	None	6/17/2024	0	8/29/2024	General Contractor
Annual Slurry Seal 2023	City of Sunnyvale 650 West Olive Ave Sunnyvale, CA 94086	Lisa Vo 408-730-7808 lvo@sunnyvale.org	N/A	Victoria Wightman 916-747-8904	Type II Slurry Seal	Type II Slurry Seal - 3,944 TN	\$1,285,827.00	\$1,127,928.00	None	None	6/12/2023	0	9/28/2023	General Contractor
FY 2023-24 Pavement Resurfacing Project	City of Pacifica 549 Crest Dr. Pacifica, CA 94044	Bryan Bautista 650-886-2233 bbautista@pacificac.gov	N/A	Yusuf Lewis 916-706-3092	Type III Microsurfacing, Crack Sealing, Rubberized Chip Seal, Type II Slurry Seal	Type III Microsurfacing - 147 TN, Crack Sealing - 118,352 SY, AR Chip Seal - 31,423 SY, Type II Slurry Seal - 987 TN	\$1,705,405.00	\$1,518,256.00	None	None	7/18/2023	0	9/5/2023	General Contractor
021 Roadway Surface Treatments	County of Placer 11428 F Avenue Auburn, CA 95603	Matt Rondal, PE (530) 745-3684 M.Rondal@placer.ca.gov	N/A	Victoria Wightman 916-642-1751	Microsurfacing - AR Chip - AR Cape Seal	Microsurfacing - 12 Miles AR Chip Seal - 2 Miles Rubberized Cape Seal - 8 Miles	\$1,889,171.00	\$2,182,606.00	None	None	5/10/2022	0	7/8/2022	General Contractor
2021/22 Slurry Seal Project	City of San Rafael 111 Marshaw Street San Rafael, CA 94901	Shawn Graf 647-6827 shawn.graf@cityofsanrafael.com	N/A	Victoria Wightman 916-642-1752	Microsurfacing - AR Chip - AR Cape Seal	Crack Seal - 209,000 SY Seal - 209,000 SY Slurry	\$1,029,500.00	\$1,011,123.00	None	None	6/29/2022	0	8/5/2022	General Contractor
2022 Surface Treatment Project	City of Auburn 1223 Lincoln Way, Room 3 Auburn, CA 95603	Mengli Deane 530-823-4211 ext. 145 mdeane@auburn.ca.gov	N/A	Victoria Wightman 916-642-1753	Slurry Seal and Striping	Type II Slurry Seal - 684,400 SY Type II Slurry Seal - 420,000 SY	\$447,987.00	\$460,720.00	None	None	9/13/2022	0	11/4/2022	General Contractor
22 Surface Seal Project, Project No. 014-8733	City of Lafayette 3875 Mount Diablo Blvd, Ste. 210 Lafayette, CA 94549	Tim Clark 925-299-3436/912-5949 tclark@cityoflafayette.ca.us	N/A	Jake Boggess, 916-642-1751	Concrete - AC Repairs - Crack Seal - AR Chip - Microsurfacing	Concrete - AC Repairs - Crack Seal - AR Chip - 47,853 SY Microsurfacing - 195,304 SY	\$2,405,851.00	\$2,515,823.00	None	None	6/9/2022	0	10/12/2022	General Contractor
cal Street Resurfacing Program FY 2021-22 Slurry Seal Project	City of Stockton 425 N. El Dorado Street Stockton, CA 95202	Michael Hawthorne 925-243-5899 hawthorne@valhalla-creek.org	N/A	Yusuf Lewis 916-642-1751	Slurry Seal and Striping	Slurry Seal - 278,000 SY	\$898,275.00	\$763,417.00	None	None	10/12/2022	0	11/6/2023	General Contractor
Pavement Resurfacing FY 21-22	City of Folsom 90 Natoma St. Folsom, CA 95630	Ryan Chance 916-461-0713 rchance@folsom.com	N/A	Jake Boggess, 916-642-1751	Microsurfacing	Microsurfacing - 2000 Tons	\$1,063,250.00	\$1,153,199.00	None	None	8/26/2022	0	11/15/2023	General Contractor
FY-22 Cape Seal & Microsurfacing Project	City of Exeter 137 North F Street Exeter, CA 93221	Norm Goldstrom 559-287-2726 normgoldstrom@gmail.com	N/A	Yusuf Lewis 916-642-1751	Cape Seal and Microsurfacing	Cape Seal & Microsurfacing - 44,178 SY	\$309,927.00	\$311,727.00	None	None	6/10/2022	0	7/8/2022	General Contractor
322 Pavement Preservation Project	County of San Mateo 555 County Center, 5th Floor Redwood City, CA 94063	Zack Azzam 650-596-1485 azzam@smcgov.org	N/A	Jake Boggess, 916-642-1751	Rubber Cape-Micro-Slurry-Pavement Repairs-Striping	AR Cape Seal - 5,800 SY Microsurfacing - 94,000 SY Slurry Seal - 211,510 SY	\$2,473,490.44	\$2,359,243.00	None	None	9/26/2022	0	4/26/2023	General Contractor
FY 2021-22 Street Repair and Resurfacing	Town of Los Gatos 110 E. Main Street Los Gatos, CA 95030	Suyash Shrestha 408.396.1437 sshrestha@losgatos.gov	N/A	Yusuf Lewis 916-642-1751	Slurry Seal and Rubber Cape Seal	Slurry Seal - 24,777 SY Asphalt Rubber Cape Seal - 158315 SY	\$2,282,824.45	\$2,281,849.00	None	None	7/5/2022	0	9/12/2022	General Contractor
Call Roadway and Trail Maintenance Services	City of Roseville 311 Vernon St. Roseville, California 95678	Jesse Khaitar 916-774-8434 jkhaitar@roseville.ca.us	N/A	Jake Boggess, 916-642-1751	Hot Mix Paving/AC Repairs, Hot Applied Rubber Chip Seal, Microsurfacing	Hot Mix Paving/AC Repairs - 8,000 TN Hot Applied Rubber Chip Seal - 188,300 SY Microsurfacing - 2,500 TN	\$5,368,494.00	\$3,131,185.33	None	None	9/13/2021	0	11/1/2021	General Contractor
2021 CSA Resurfacing Project	Yuba County 915 8th St. Marysville, CA 95901	Craig Herbert 530-740-6417 chbert@co.yuba.ca.us	N/A	Jake Boggess, 916-642-1751	Fiber Slurry Seal, Crack Seal	Fiber Slurry Seal - 401,518 SY Crack Seal - 10.76 MI	\$1,009,406.14	\$1,150,570.65	None	None	7/13/2021	0	9/30/2021	General Contractor
Crack Sealing Various Streets	City of Stockton 425 N. El Dorado Street Stockton, CA 95202	Thinh Phan 209.937.8985 Thinh.Phan@stocktonca.gov	N/A	Yusuf Lewis 916-642-1751	Crack Seal	Crack Seal 580,000 SY	\$295,800.00	\$267,085.50	None	None	5/9/2021	0	6/4/2021	General Contractor
ual Street Repair and Resurfacing Slurry Seal Rubber Cape Seal	Town of Los Gatos 110 E. Main Street Los Gatos, CA 95030	Kenn Selfridge 408.827.3549 ksselfridge@losgatosca.gov	N/A	Yusuf Lewis 916-642-1751	AR Cape Seal, AR Chip Seal, Slurry Seal, Crack Seal	30,400 SY AR Cape Seal, 1,300 SY AR Chip Seal, 260,000 SY Slurry Seal, Crack Seal	\$1,980,512.45	\$1,980,512.45	None	None	6/2/2020	0	6/19/2020	General Contractor
120 Cape Seal and Microsurfacing Project	County of San Mateo 555 County Center Redwood City, CA 94063	Zack Azzam 650-596-1485 azzam@smcgov.org	N/A	Jake Boggess, 916-642-1751	Cape Seal, Crack Seal, Microsurfacing	98,910 SY Cape Seal, Crack Seal, 4,850 SY Microsurfacing	\$1,360,934.40	\$1,360,934.40	None	None	6/30/2020	0	10/5/2020	General Contractor


RFP #2 Surface Treatment Cameron Park & Diamond Springs	County of El Dorado 2850 Fairlane Court Placerville, California 95667	Brian Mullens 520 409 4404 brian.mullens@edgov.us	N/A	Yusuf Lewis 916-642-1751	Type II Microsurfacing, Rubber Chip Seal	Type II Micro 136,267 SY Rubber Chip Seal 136,267 SY	\$1,002,775.00	\$1,002,775.00	None	None	7/6/2020	0	7/23/2020	General Contractor
2020 Pavement Crack Seal Project	Fremont, City of 3300 Capitol Ave. Fremont, CA 94538	Edward Nakayama 510 484 4773 enakayama@fremont.gov	N/A	Yusuf Lewis 916-642-1751	Crack Seal	45,000 LBS Crack Seal	\$255,250.00	\$269,315.50	None	None	3/2/2020	0	4/21/20409-040420	General Contractor
Urban Pavement Preservation, Phase C	County of Stanislaus 1010 10th Street, STE 8700 Modesto, CA 95354	Barlow Taylor 209 225 0280 btaylor@stancounty.com	N/A	Jake Boggess 916-642-1751	Asphalt Rubber Chip Seal, Slurry Seal, Crack Seal	AR Chip Seal 258,463 SY, Slurry Seal 259,463 SY 50 LNM Crack Treatment	\$2,459,500.00	\$2,572,184.60	None	None	5/5/2020	0	5/14/2020	General Contractor
2019 Pavement Crack Seal Project	Fremont, City of 3300 Capitol Ave Fremont, CA 94538	Edward Nakayama 510 484 4773 enakayama@fremont.gov	N/A	Yusuf Lewis 916-642-1751	Crack Seal	50,000 LBS Crack Seal	\$270,000.00	\$234,101.20	None	None	5/28/2019	0	7/20/2019	General Contractor
2018 Pavement Crack Sealing	City of Lodi 221 West Pine Street P.O. BOX 3008 Lodi, CA 95241- 1910	Andrew Dalrymple 209.333.6800 adalrymple@lodi.gov	N/A	Yusuf Lewis 916-642-1750	Crack Seal	Crack Seal - 678,090 SF	\$38,899.98	\$85,483.68	Macra	None	4/15/2019	0	5/15/2019	General Contractor
Kings County CMAQ Seal of Various Locations	Kings County 1400 W. Leacy Blvd Hanford CA 93230	Dominic Tyburski 559 853 2098 dominic.tyburski@co.king.ca.us	N/A	Yusuf Lewis 916-642-1751	Chip Seal 1 1/4", 3/8" & 1/2"	Chip Seal 288,251 SY	\$441,820.00	\$441,820.00	None	None	7/30/2019	0	10/15/2019	Sub Contractor
Fremont, Tesla Parking lot	Dryco Construction, Inc. 42745 Bacall Road, Fremont, CA 94538	Ryan Sato 510.773.8855 ryans@dryco.com	N/A	Yusuf Lewis 916-642-1751	Chip Seal 3/8" & 5/16"	Chip Seal 3/8" 75 TN Chip Seal 5/16" 75 TN	\$83,160.00	\$83,160.00	None	None	6/14/2019	0	8/11/2019	Sub Contractor
2019 Asphalt Rubber Cape Seal and Micro-Surface Seal Project No. 0872-0U2164-180072	County of Contra Costa 255 Clarend Drive Marina, CA 94553	Dante Moraba 925.725.6001 dante.moraba@pw.conccounty.us	N/A	Yusuf Lewis 916-642-1751	Asphalt Rubber Chip Seal, Slurry Seal, Microsurfacing	AR Binder (AR Chip Seal) 914 TN, Screenings (AR Chip Seal) 6,385 TN, Slurry Seal 2,918 TN, Microsurfacing (Aggregat) 608 TN, Microsurfacing (Emulsion) 109 TN	\$3,391,002.00	\$3,540,571.20	None	None	7/8/2019	0	9/27/2019	General Contractor
Zinfandel Subdivision Double Chip Seal & Microsurfacing, RDS1	County of Napa 1125 Third Street Napa, CA 94559	Frank Lucido 707.259.6377 frank.lucido@countyofnapa.org	N/A	Jake Boggess, 916-642-1751	Double Chip Seal, Microsurfacing	25,000 SY Double Chip Seal, 25,000 SY Microsurfacing	\$259,881.00	\$259,881.00	None	None	6/1/2019	0	10/1/2019	General Contractor
Bayside Cape & Slurry Seal Project	County of San Mateo 553 County Center Redwood City, CA 94063	Zack Azzari 650.599.1485 zazzari@smgov.org	N/A	Jake Boggess, 916-642-1751	Cape Seal with Microsurfacing Top Layer, Slurry Seal, Crack Seal	85,270 SY Cape Seal with Microsurfacing Top Layer, 105,240 SY Slurry Seal	\$1,691,028.00	\$1,505,289.43	None	None	6/3/2018	0	6/27/2019	General Contractor
2018 Local Streets Rubberized Slurry Seal Project	City of San Jose 201 W Mission St San Jose, CA 95110	Binh Tran 408.794.8437 binh.tran@sanjoseca.gov	N/A	Yusuf Lewis 916-642-1751	TRASS Slurry Seal, REAS Slurry Seal, Crack Fill	Approx 650,136 SY TRASS Slurry Seal, 463,297 SY REAS Slurry Seal, 108 TN Crack Fill	\$7,093,892.40	\$7,093,892.40	None	None	6/6/2019	7	10/22/2019	General Contractor
Pavement Preservation Project (2018, 2017, 2014) City of Morro Bay	City of Morro Bay 505 Harbor St Morro Bay, CA 93442	Jared Whalen 805-772-0564 jwhalen@morrobayca.gov	N/A	Tim Schmid, 916-642-1751	Type II Slurry Seal, Fiber Micro, Asphalt Rubber Chip, FDR, Cape Seal, 3 Strip, Type III Micro	Approx 400,000 SY Year 1 of 6 year annually renewed contract	\$6,000,000 1 Million renewed annually for 6 years	TBD	None	None	2018-2020	0	Still ongoing	General Contractor
2019 Slurry Seal Project, Contract 18-31	City of Walnut Creek 1866 N Main St. Walnut Creek, CA 94598	Michael Hawthorne 925-943-5899 hawthorne@walnut-creek.org	N/A	Dillon Pite, 916-642-1751	Slurry Seal, Crack Seal	116,045 SY Slurry Seal, Crack Seal	\$385,822.00	\$391,072.00	None	None	7/1/2019	0	7/1/2019	General Contractor
Pavement Slurry Seal & Crack Filling FY18-19	City of Folsom 50 Natoma St Folsom, CA 95630	Ryan Chance 916-548-0094 rchance@folsom.com	N/A	Yusuf Lewis 916-642-1751	Slurry Seal & Crack Fill	5,000 TN Slurry Seal Type II, 400 TN Slurry Seal Type I, 76,000 LBS Crack Filling	\$2,172,250.00	\$2,295,750.00	None	None	7/26/2019	0	8/30/2019	General Contractor
2018 Street Treatment Projects, City Altoz Resurfacing Project	City of Los Altos 1 North San Antonio Road Los Altos, CA 94022	Victor Chen 650-947-2760 vchen@losaltosca.gov	N/A	Yusuf Lewis 916-642-1751	Microsurfacing, Slurry Seal	25,770 SY Microsurfacing, 44,000 SY Slurry Seal	\$368,105.00	\$400,427.83	None	None	6/1/2019	0	7/3/2019	General Contractor
2018 Microsurface Project	County of Placer 11426 F Ave. Auburn, CA 95603	Kevin Taber 530-860-7585 ktaber@placer.ca.gov	N/A	Jake Boggess, 916-642-1751	Microsurfacing Type II	Microsurfacing 3,000 TN	\$1,170,850.00	\$1,208,200.00	None	None	7/17/2019	0	6/18/2019	General Contractor
2018-2019 Slurry Basin 9 City of San Mateo	City of San Mateo 330 West 20th Ave, San Mateo, CA 94403	Mario Ung 650-622-7300 mung@cityofsanmateo.org	N/A	Yusuf Lewis 916-642-1751	Crack Seal, Slurry Seal	Crack Seal, Slurry Seal 104,855 SY	\$209,710.00	\$209,830.00	None	None	12/1/2018	0	12/1/2018	General Contractor
2019 Citywide Slurry Seal Project City of Marina	City of Marina 211 Hillcrest Ave. Marina, CA 93933	Edrio De Los Santos 831-884-1205 ediosantos@cityofmarina.org	N/A	Tim Schmid, 916-642-1751	Type II Slurry Seal	199,702 SF Type II Slurry	\$201,045.00	\$188,116.00	None	None	10/21/2018	0	10/31/2018	General Contractor
2018 Street Slurry Seal Program City of Newark	City of Newark 37101 Newark Blvd, Newark, CA 94560	Trang Tran 510-576-4268 trang.tran@newark.org	N/A	Tim Schmid, 916-642-1751	Crack Seal, Slurry Seal	Crack Seal 545,565 SF, Slurry Seal 545,565 SF	\$239,039.61	\$235,060.61	None	None	6/30/2018	0	6/30/2018	General Contractor
2018 Street Sealing Project	City of San Jose 201 W Mission St San Jose, CA 95110	Octavio Duran 408-764-1986 octavio.duran@sanjoseca.gov	N/A	Tim Schmid, 916-642-1751	Microsurfacing, Crack Fill	16,400 TONS of Microsurfacing 108 TONS of Crack Fill	\$10,495,285.00	\$10,683,254.65	None	None	7/29/2018	0	8/28/2019	General Contractor
Resurfacing 2018 No 2018-20 Eureka Streets	City of Eureka 831 K Street, Eureka, CA 95501	Scott Eismore 707-499-8420 seismore@ci.eureka.ca.gov	N/A	Tim Schmid, 916-642-1751	Slurry Seal	Type II Slurry 194,016 SY Type III Slurry 142,100 SY	\$788,705.00	\$788,705.00	None	None	6/20/2018	0	6/25/2018	General Contractor
2018 Slurry Seal Project	City of Union City 34009 Alvarado-Niles Road Union City, California 94587	Murray Chang (510) 679-5305	N/A	Tim Schmid, 916-642-1751	Type II Slurry Seal	Type II Slurry Seal - 123,438 SY	\$539,775.00	\$539,775.00	None	None	Summer 2018	0	Summer 2018	Prime
Lawrence Expressway Pavement Rehabilitation Project	County of Santa Clara 70 West Harding Street East Wing, 10th Floor San Jose, CA 95110	Peter Cruz 408.573.2423 peter.cruz@rds.scagov.org	N/A	Tim Schmid, 916-642-1751	Microsurfacing Type II Type III	Microsurfacing Type II - 205,500 SY Type III - 237,750 SY	\$894,251.00	\$894,251.00	None	None	2015	0	2015	Sub Contractor
2018 Microsurfacing Project	City of Calistoga 1232 Washington St, Calistoga, CA 94515	Mike Kim 707-942-2782 Mike@ci.calistoga.ca.us Mike Burlaw 530-510-5414	N/A	Tim Schmid, 916-642-1751	Type II Microsurfacing	Type II Microsurfacing 523,123 SF	\$499,550.00	\$499,550.00	None	None	2015	0	2015	Prime
2015 Slurry Seal and Curb Ramp Program	City of El Cerrito 10850 San Pablo Ave, El Cerrito, CA 94530	Garardo Avila (510) 216-4322 GAvila@ci.el-cerrito.ca.us	N/A	Tim Schmid, 916-642-1751	Type II Slurry Seal	Type II Slurry Seal - 42,669 SY	\$126,273.00	\$126,273.00	None	None	Fall 2015	0	Fall 2015	Prime
2010 Residential Slurry Seal Program I- 15B 2018	City of Torrance 2031 Torrance Blvd, Torrance, CA 90503	Stephanie Conon 310-618-2870	N/A	Tim Schmid, 916-642-1751	Type I, Type II Slurry Seal	Type I - 891,780 SF Type II - 1,920,823 SF Slurry Seal	\$4,035,688.00	\$4,035,688.00	None	None	2015	0	2015	Prime

**RESOLUTION OF BOARD OF DIRECTORS OF
PAVEMENT COATINGS CO.**

RESOLVED, That all officers of the Company (being the President, Timothy Schmid; the Vice-Presidents, James Wu, and Guy Tittlemier; Secretary, Tom Mucenski; and the Treasurer, Rick Yauney) are hereby authorized and empowered to enter into contracts, sign bid documents and otherwise execute agreements in the normal course of business and upon such terms and conditions as may be agreed by the Company and the counterparty (ies).

I, Timothy Schmid, do hereby certify that I am the duly elected and qualified President and keeper of the records and corporate seal of Pavement Coatings Co., a corporation organized and existing under the laws of the State of California, and that the above is a true and correct copy of a resolution duly adopted at a meeting of the Board of Directors thereof, convened and held in accordance with the Bylaws of said Corporation on the 13th day of December, 2024, and that such resolution is now in full force and effect.

IN WITNESS WHEREOF, I have affixed my name as President and have caused the corporate seal of said Corporation to be hereunto affixed, April 4, 2025.



Timothy Schmid, President
Pavement Coatings Co.

California Environmental Protection Agency

Air Resources Board

January 1, 2025

CERTIFICATE OF REPORTED COMPLIANCE OFF-ROAD DIESEL VEHICLE REGULATION

is issued to

PAVEMENT RECYCLING SYSTEMS

This certificate indicates that the fleet listed above has reported off-road diesel vehicles to the California Air Resources Board and has certified they are in compliance with title 13 CCR section 2449. All applicable vehicles owned by the individual, company, or agency must be reported and labeled, as specified in Section 2449, with all possible completeness, else this certificate is null and void. **Certificate expires 2/28/2026**



Jack Kibicki
Chief, Mobile Source Control Division
California Air Resources Board

Off-road Diesel Fleet Identification

1633

To verify the authenticity of this certificate, enter this number at
http://www.arb.ca.gov/doors/compliance_cert1.html

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

AGREEMENT

THIS AGREEMENT is entered into in quadruplicate this 08/19/2025, between the **COUNTY OF SOLANO, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA** hereinafter called "County," and **PAVEMENT COATINGS CO.** hereinafter called "Contractor":

WITNESSETH

That for and in consideration of the mutual promises, covenants, agreements and conditions contained in this agreement, the parties agree as follows:

1. Contract Documents:

The complete contract between the parties consists of, and is set forth in, the contract documents. The contract documents consist of: (a) the Notice to Bidders, (b) an accepted Bid Form, (c) this Agreement, (d) accepted Payment and Performance Bonds, (e) the Special Provisions, (f) the Caltrans Standard Plans ("**Standard Plans**") 2024, (g) Revised Caltrans Standard Plans 2024 Dated 10/21/2024 (h) the Caltrans Standard Specifications ("**Standard Specifications**") 2024 pages 1 through 1335 and (i) the Contract Plans (collectively, "**Contract Documents**"). All obligations of the parties are contained in the contract documents, and by their acceptance of this Agreement, the parties agree to be bound by all the provisions of all of the documents. All of the documents are intended to cooperate so that any work called for in one and not mentioned in the other or vice versa, is to be executed the same as if mentioned in all of them.

2. The Work:

Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, materials, and all utility and transportation services to perform and complete in a good and workmanlike manner (for the prices hereinafter set forth), the work of the

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

project, and other work as called for, and in the manner designated in, and in strict conformance with the contract documents adopted by the County as prepared by the Engineer. The work shall be performed and completed as required in the plans, drawings, and specifications under the direction and supervision of, and subject to the approval of the Engineer, or designated representative.

3. Location of Work:

The work to be performed is on Shiloh Road from railroad tracks to State Route 12, on Montezuma Hills Road from Birds Landing Road to Anderson Road and at the Nut Tree Airport.

4. Time for Completion:

The work under this contract shall be completed within **40 WORKING DAYS**.

5. Contract Price:

As compensation agreed upon for the work, County shall pay or cause to be paid to Contractor, in full, as and for the full contract price and compensation for the construction and completion of the work, the sum of **One Million Five Hundred Forty Thousand Two Hundred Twenty Dollars and Ten Cents (\$ 1,540,220.10)** which sum is to be paid according to the schedule hereinafter provided and subject to additions and deductions as provided in the contract documents.

6. Payment of Wages:

The State General Prevailing Wage Rates are made a part of this contract. It is further expressly agreed between the parties that should there be any conflict between the terms of this instrument and the bid of the Contractor, then this instrument shall control, and nothing shall be considered as an acceptance of the terms of the bid conflicting with it.

7. Workers' Compensation:

By my signature hereunder, as Contractor, I certify that I am aware of the provisions of section 3700 of the Labor Code which requires every employer to be insured against liability for workers compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.


8. Integration:

It is further expressly agreed between the parties that should any conflict arise between the terms of this contract and the bid of the Contractor; this contract shall control, and nothing shall be considered as an acceptance of the terms of the bid that conflict with it.

{Signatures on following page}

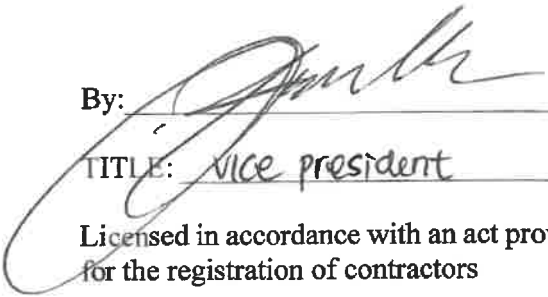
9. Execution of Agreement:

SOLANO COUNTY:

By: 
James Bezek
Director of Resource Management

Date: 08/19/2025

CONTRACTOR:

By: 
TITLE: vice president

Licensed in accordance with an act providing
for the registration of contractors

Date: 8/13/2025

Contractor's License No. 303609

Business License No. 00041

City and County of
Business License TO Follow

APPROVED AS TO FORM:

County Counsel of Solano County, California

By: David J. Gallegos, Deputy
David J. Gallegos, Deputy (Aug 19, 2025 16:44:23 PDT)

Note: Attach to this Agreement a certified copy of the resolution, minute order, or excerpt of the minutes of the County authorizing the execution of this Agreement.

If the Contractor is a corporation, attach to this contract a certified copy of the by-laws, resolutions, or excerpt of the minutes of a meeting of the board of directors of the corporation authorizing the person executing this Agreement to do so for the corporation.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS,

THAT WHEREAS, the **COUNTY OF SOLANO, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA**, hereinafter called the "County," has awarded to Pavement Coatings Co. as Principal, hereinafter designated as the "Contractor," a contract (the "Contract") for the work described as follows:

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

WHEREAS, the work to be performed by the Contractor is more particularly set forth in the contract for the Project dated 7/31/2025, (hereinafter referred to as "Contract Documents"), the terms and conditions of which are expressly incorporated herein by reference; and

WHEREAS, the Contract Documents requires Contractor to perform the terms thereof and to furnish a bond for the faithful performance of the Contract Documents;

The Ohio Casualty

NOW, THEREFORE, we, the undersigned Contractor and Insurance Company as Surety, a corporation* organized and duly authorized to transact business under the laws of the State of California, are held and firmly bound unto the County, in the sum of One Million Five Hundred Forty Thousand Two Hundred Twenty Dollars and Ten Cents

~~Dollars~~ (\$1,540,220.10) said sum being not less than one hundred percent (100%) of the total amount of the Contract Documents, for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly by these presents.

THE CONDITION of this obligation is such, that if the above bounden Contractor, their or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and agreements in the foregoing Contract Documents and any alteration thereof made as therein provided, or their part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the County, its officers and agents, as therein stipulated, then this obligation shall become and be null and void; otherwise, it shall be and remain in full force and effect.

As a part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees including reasonable attorney's fees, incurred by the County in enforcing such obligation.

As a condition precedent to the satisfactory completion of the Contract Documents, unless otherwise provided for in the Contract Documents, the above obligation shall hold good for a period of one year after the acceptance of the work by the County, during which time if Contractor shall fail to make full, complete, and satisfactory repair and replacements and totally protect the County from loss or damage resulting from or caused by defective materials or faulty

*Surety Co. is organized in New Hampshire

workmanship. The obligations of Surety hereunder shall continue so long as any obligation of Contractor remains. Nothing herein shall limit the County's rights or the Contractor or Surety's obligations under the Contract, law or equity, including, but not limited to, California Code of Civil Procedure Section 337.15.

Whenever Contractor shall be, and is declared by the County to be, in default under the Contract Documents, the Surety shall remedy the default pursuant to the Contract Documents, or shall promptly, at the County's option:

- i. Take over and complete the Project in accordance with all terms and conditions in the Contract Documents; or
- ii. Obtain a bid or bids for completing the Project in accordance with all terms and conditions in the Contract Documents and upon determination by Surety of the lowest responsive and responsible bidder, arrange for a contract between such bidder, the Surety and the County, and make available as work progresses sufficient funds to pay the cost of completion of the Project, less the balance of the contract price, including other costs and damages for which Surety may be liable. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable to Contractor by the County under the Contract and any modification thereto, less any amount previously paid by the County to the Contractor and any other set offs pursuant to the Contract Documents.
- iii. Permit the County to complete the Project in any manner consistent with California law and make available as work progresses sufficient funds to pay the cost of completion of the Project, less the balance of the contract price, including other costs and damages for which Surety may be liable. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable to Contractor by the County under the Contract and any modification thereto, less any amount previously paid by the County to the Contractor and any other set offs pursuant to the Contract Documents.

Surety expressly agrees that the County may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Contractor.

Surety shall not utilize Contractor in completing the Project nor shall Surety accept a bid from Contractor for completion of the Project if the County, when declaring the Contractor in default, notifies Surety of the County's objection to Contractor's further participation in the completion of the Project.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project to be performed thereunder shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract Documents or to the Project.

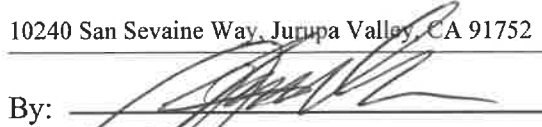
IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 12th day of August, 2025.

Pavement Coatings Co.

The Ohio Casualty Insurance Company

10240 San Sevaine Way, Jurupa Valley, CA 91752

175 Berkeley St., Boston, MA 02116

By: 
Principal (Seal) James Wu,
Vice President

By: 
Surety (Seal) Brigid Lopez, Attorney-in-Fact

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to 100% of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Riverside }

On August 13th, 2025 before me, Ottly J Gettle, Notary Public,

Date

Here Insert Name and Title of the Officer

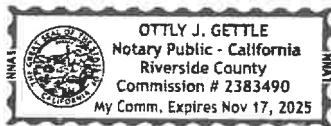
personally appeared James Wu

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature _____

Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____ Signer's Name: _____

☐ Corporate Officer – Title(s): _____ ☐ Corporate Officer – Title(s): _____

☐ Partner – ☐ Limited ☐ General ☐ Partner – ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact ☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian of Conservator ☐ Trustee ☐ Guardian of Conservator

☐ Other: _____ ☐ Other: _____

Signer is Representing: _____ Signer is Representing: _____

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Orange)On 08/12/2025 before me, Evet Lam, Notary Public,
Date Here Insert Name and Title of the Officerpersonally appeared Brigid Lopez
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer — Title(s): _____☐ Partner — ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian or Conservator☐ Other: _____

Signer Is Representing: _____

Signer's Name: _____

☐ Corporate Officer — Title(s): _____☐ Partner — ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian or Conservator☐ Other: _____

Signer Is Representing: _____



POWER OF ATTORNEY

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8214065 - 971991**

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Brian A. McGoldrick, Brigid Lopez, Evett Lam, Marisella Rivera

all of the city of Placentia state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 20th day of May, 2025.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: Nathan J. Zangerle
Nathan J. Zangerle, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 20th day of May, 2025 before me personally appeared Nathan J. Zangerle, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2029
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 12th day of August, 2025.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this ____ day of _____, 2025.

By: _____
Principal (Seal)

By: _____
Surety (Seal)

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to 100% of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA }

COUNTY OF _____)

On _____ before me, _____ Notary
date insert Name and Title of the officer

Public, personally appeared _____

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signers Name: _____

☐ Corporate Officer – Title(s) _____

☐ Partner ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signers Name: _____

☐ Corporate Officer – Title(s) _____

☐ Partner ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS,

THAT WHEREAS, **COUNTY OF SOLANO, A POLITICAL SUBDIVISION OF THE STATE OF CALIFORNIA**, hereinafter called the "County," has awarded to Pavement Coatings Co., as Principal, hereinafter designated as the "Contractor," a contract (the "Contract") for the work described as follows:

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

The Contract is incorporated by this reference into this Payment Bond.

AND, WHEREAS, the Contractor is required to furnish a bond in connection with the Contract and pursuant to California Civil Code section 9550 to secure the payment of claims of laborers, mechanics, materialmen, and other persons as provided by law:

NOW, THEREFORE, we, the undersigned Contractor and The Ohio Casualty Insurance Company ("Surety"), a corporation organized and existing under the laws of the State of New Hampshire, and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the County in the amount required by law, in the sum of One Million Five Hundred Forty Thousand Two Hundred Twenty Dollars and Ten Cents Dollars (\$1,540,220.10) for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Contractor, their or its heirs, executors, administrators, successors or assigns, or subcontractors shall fail to pay any of the persons referred to in Civil Code section 9100, or fail to pay for any materials, provisions, or other supplies, used in, upon, for, or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Code with respect to work or labor performed by any such claimant, or amounts due the Franchise Tax Board as provided in Civil Code section 9554, or shall fail to deduct, withhold, and pay over to the Employment Development Department, any amounts required to be deducted, withheld, and paid over by Unemployment Insurance Code Section 13020 with respect to work and labor thereon of any kind, that the Surety will pay for the same, in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought on this bond, the said surety will pay a reasonable attorney's fee to be fixed by the court.

This bond shall inure to the benefit of any of the persons referred to in Civil Code section 9100 so as to give a right of action to such persons or their assigns in any suit brought upon this Bond. Any such right of action shall be subject to the provisions of Civil Code section 9566.

PROVIDED, FURTHER, it is further stipulated and agreed that the Surety of this bond shall not be exonerated or released from the obligation of the bond by any change, extension of time for performance, addition, alteration or modification in, to, or of any contract, plans, or specifications, or agreement pertaining or relating to any scheme or work of improvement herein above described;

or pertaining or relating to the furnishing of labor, materials, or equipment therefor; nor by any change or modification of any terms of payment or extension of time for payment pertaining or relating to any scheme or work of improvement herein above described; nor by any rescission or attempted rescission of the contract, agreement or bond; nor by any conditions precedent or subsequent in the bond attempting to limit the right of recovery of claimants otherwise entitled to recover under any such contract or agreement or under the bond; nor by any fraud practiced by any person other than the claimant seeking to recover on the bond; and that this bond be construed most strongly against the Surety and in favor of all persons for whose benefit such bond is given; and under no circumstances shall the Surety be released from liability to those for whose benefit such bond has been given, by reason of any breach of contract between the Owner and Contractor/Principal or on the part of any obligee named in such bond; that the sole condition of recovery shall be that the claimant is a person described in California Civil Code section 9100, and who has not been paid the full amount of his or her claim; and that the Surety does hereby waive notice of any such change, extension of time, addition, alteration or modification herein mentioned, including but not limited to the provisions of sections 2819 and 2845 of the California Civil Code.

PROVIDED, FURTHER, that no final settlement between the County and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this 12th day of August, 2025.

Pavement Coatings Co.

The Ohio Casualty Insurance Company

10240 San Sevaire Way

175 Berkeley St.

Jurupa Valley, CA 91752

Boston, MA 02116

By: 

Principal (Seal) James Wu,
Vice President

By: 

Surety (Seal) Brigid Lopez, Attorney-in-Fact

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to 100% of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of RiversideOn August 13th, 2025 before me, Ottly J Gettle, Notary Public,

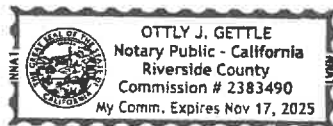
Date

Here Insert Name and Title of the Officer

personally appeared James Wu

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer – Title(s): _____☐ Partner – ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian of Conservator☐ Other: _____

Signer is Representing: _____

Signer's Name: _____

☐ Corporate Officer – Title(s): _____☐ Partner – ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian of Conservator☐ Other: _____

Signer is Representing: _____

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Orange)On 08/12/2025 before me, Evett Lam, Notary Public,
Date Here Insert Name and Title of the Officerpersonally appeared Brigid Lopez
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

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Signer Is Representing: _____

Signer's Name: _____

☐ Corporate Officer — Title(s): _____☐ Partner — ☐ Limited ☐ General☐ Individual ☐ Attorney in Fact☐ Trustee ☐ Guardian or Conservator☐ Other: _____

Signer Is Representing: _____



POWER OF ATTORNEY

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8214065 - 971991**

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Brian A. McGoldrick, Brigid Lopez, Evett Lam, Marisella Rivera

all of the city of Placentia state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 20th day of May, 2025.



Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: Nathan J. Zangerle
Nathan J. Zangerle, Assistant Secretary

State of PENNSYLVANIA ss
County of MONTGOMERY

On this 20th day of May, 2025 before me personally appeared Nathan J. Zangerle, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2029
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 12th day of August, 2025.



By: Renee C. Llewellyn
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _____ day of _____, 2025.

By: _____
Principal (Seal)

By: _____
Surety (Seal)

NOTE:

- (1) Signatures of those executing for the surety must be properly acknowledged.
- (2) This bond must be in an amount equal to 100% of the amount bid.
- (3) Bidders must use this form unless the surety company form is substantially the same.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document, to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA }

COUNTY OF _____ }

On _____ before me, _____ Notary
Date Short Name and Title of the Officer

Public, personally appeared _____

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent attachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

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Signers Name: _____

☐ Corporate Officer – Title(s) _____

☐ Partner ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signers Name: _____

☐ Corporate Officer – Title(s) _____

☐ Partner ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

STATE GENERAL PREVAILING WAGE RATES

The State Prevailing Wage Rates are available for review at the California Department of Industrial Relations Internet Web Site at the following location:

<https://www.dir.ca.gov/Public-Works/Prevailing-Wage.html>

See Important Special Notice in this bid document.

**COUNTY OF SOLANO
STATE OF CALIFORNIA**

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

**DIVISION I GENERAL PROVISIONS
1 GENERAL**

1-1.01 GENERAL

The work described shall be done in accordance with the Caltrans Standard Specifications 2024, and the revised Caltrans Standard Plans 2024 Dated 10/21/2024, insofar as the same may apply and in accordance with the following Special Provisions.

The Caltrans Standard Specifications and Standard Plans are made a part of the Contract with the County of Solano providing the following modifications unless the Special Provisions indicate that they amend or replace the Standard Specifications, they shall be deemed to supplement.

Wherever the Standard Specifications refer to requirements, conditions, provisions, and laws that are applicable to the State of California rather than County governments, said references shall be construed as references to corresponding requirements, conditions, provisions, and laws, which are applicable to the County of Solano.

County: County of Solano/Solano County

Department: Dept. of Resource Management, Solano County

Director: Director of Resource Management, Solano County

Engineer: Engineering Manager or other designated representative

State: Includes County of Solano, a political subdivision of the State

State Contract Act: All applicable statutes and laws pertaining to the award and execution of construction contracts by the County, including those set forth in Section 3 of these Special Provisions, and any other sections which may pertain.

Saturday, Sunday, Holiday and Evening Work

No work shall be done on Saturdays, Sundays, County and State holidays or during hours of darkness, except such work as is necessary for the proper care and protection of work already performed, or except in a case of an emergency, and in any case, only with the written permission of the Engineer.

Should unauthorized work be performed on a Saturday, Sunday, County holiday or during hours of darkness, the Contractor shall pay Solano County a \$1,000 penalty for each day or portion of a day on which such work is performed.

County holidays are defined as follows: New Year's Day, Martin Luther King's Birthday, Lincoln's Birthday, President's Day/Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day/ Indigenous Peoples' Day, Veteran's Day, Thanksgiving Day and Day After Thanksgiving Day, Christmas Eve, Christmas Day and New Year's Eve.

2 BIDDING

2-1.01 GENERAL

The bidder's attention is directed to the provisions in Section 2, "Bidding" of the Standard Specifications and these Special Provisions for the requirements and conditions which he must observe in the preparation of the bid form and the submission of the bid

Each bidder shall be licensed by the time of award of contract in accordance with the provisions of the Contractor's License Law as contained in Chapter 9, Division 3 of the Business and Professions Code (commencing with §7000), and any acts amendatory thereof, and shall be skilled and regularly engaged in the general class or type of work called for under these contract documents. A statement setting forth his experience and business standing shall be submitted by each bidder on the form provided herewith. The Contractor shall possess a Class A license at the time the contract is awarded.

In addition to the subcontractors required to be listed in conformance with Section 2-1.10, "Subcontractor List," of the Standard Specifications, each bid shall have listed therein the portion of work that will be done by each subcontractor listed. A sheet for listing the subcontractors is included in the bid. **NOTE:** Contractor shall signify if a Subcontractor will be performing only a portion of a contract bid item by placing the word "Partial" next to the Subcontractor's name.

The Contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26.5 in the award and administration of DOT assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

In conformance with Public Contract Code section 7106, a Noncollusion Affidavit is included in the bid. Signing the bid shall also constitute signature of the Noncollusion Affidavit.

Failure of the bidder to fulfill the requirements of the Special Provisions for submittals required to be furnished after the bid opening, including but not limited to escrowed bid documents, where applicable, may subject the bidder to a determination of the bidder's responsibility in the event it is the apparent low bidder on a future public works contract.

2-1.07 JOB SITE AND DOCUMENT EXAMINATION

The bidder shall examine carefully the site of the work contemplated, the plans and specifications, and the bid and contract forms. The submission of a bid shall be conclusive evidence that the bidder has investigated and is satisfied as to the general and local conditions to be encountered, as to the character, quality and scope of work to be performed, the quantities of materials to be furnished and as to the requirements of the bid, plans, specifications and the contract.

The submission of a bid shall also be conclusive evidence that the bidder is satisfied as to the

character, quality and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information was reasonably ascertainable from an inspection of the site and the records of exploratory work done by the County as shown in the bid documents, as well as from the plans and specifications made a part of the contract.

Where the County has made investigations of site conditions including subsurface conditions in areas where work is to be performed under the contract, or in other areas, some of which may constitute possible local material sources, bidders or contractors may, upon written request, inspect the records of the County as to those investigations subject to and upon the conditions hereinafter set forth.

Where there has been prior construction by the County or other public agencies within the project limits, records of the prior construction that are currently in the possession of the County and which have been used by, or are known to, the designers and administrators of the project will be made available for inspection by bidders or contractors, upon written request, subject to the conditions hereinafter set forth. The records may include, but are not limited to, as-built drawings, design calculations, foundation and site studies, project reports and other data assembled in connection with the investigation, design, construction and maintenance of the prior projects.

Inspection of the records of investigations and project records may be made at the office of the County.

When a log of test borings or other record of geotechnical data obtained by the County's investigation of surface and subsurface conditions is included with the contract plans, it is furnished for the bidders' or Contractor's information and its use shall be subject to the conditions and limitations set forth in this Section 2-1.03.

When cross sections are not included with the plans, but are available, bidders or contractors may inspect the cross sections and obtain copies for their use, at their expense.

When cross sections are included with the contract plans, it is expressly understood and agreed that the cross sections do not constitute part of the contract, do not necessarily represent actual site conditions or show location, character, dimensions and details of work to be performed, and are included in the plans only for the convenience of bidders and their use is subject to the conditions and limitations set forth in this Section 2-1.03.

The availability or use of information described in this Section 2-1.03 is not to be construed in any way as a waiver of the provisions of the first paragraph in this Section 2-1.03 and bidders and contractors are cautioned to make independent investigations and examinations as they deem necessary to be satisfied as to conditions to be encountered in the performance of the work and, with respect to possible local material sources, the quality and quantity of material available from the property and the type and extent of processing that may be required in order to produce material conforming to the requirements of the specifications.

The County assumes no responsibility for conclusions or interpretations made by a bidder or contractor based on the information or data made available by the County. The County does not assume responsibility for representation made by its officers or agents before the execution of the

contractor concerning surface or subsurface conditions, unless that representation is expressly stated in the contract.

No conclusions or interpretations made by a bidder or contractor from the information and data made available by the County will relieve a bidder or contractor from properly fulfilling the terms of the contract.

Construction surveys shall be furnished by the County in accordance with the California Department of Transportation Surveys Manual.

Attention is directed to Section 12.1-4, "Restaking," of the Survey Manual.

2-1.10 SUBCONTRACTOR LIST

Each bid shall have listed therein the name and address of each subcontractor to whom the bidder proposes to subcontract portions of the work in the amount of $\frac{1}{2}$ of one percent (%) of his total bid or \$10,000, whichever is greater, in accordance with the Subletting and Subcontracting Fair Practices Act, commencing with section 4100 of the Public Contract Code. The bidder's attention is directed to other provisions of said Act related to the imposition of penalties for a failure to observe its provisions by using unauthorized subcontractors or by making unauthorized substitutions.

The required form for listing of subcontractors is included in the bid book and is required to be completed and submitted with the bid unless stated otherwise.

The required forms for listing of subcontractors is included in the bid book; **Solano County Bidder's List of Subcontractors and Subcontractor List Form.**

2-1.34 BIDDER'S SECURITY

Bidder's security required under this article shall be made payable to the County of Solano.

3 CONTRACT AWARD AND EXECUTION

3-1.01 GENERAL

The award of the contract to the lowest responsible bidder whose bid complies with all the requirements prescribed.

The contract shall be executed by the successful bidder and shall be returned, together with the contract bonds, to the Agency so that it is received within 10 days, not including Saturdays, Sundays and legal holidays, after the bidder has received the contract for execution. Failure to do so shall be just cause for forfeiture of the bidder's security and bid submittal.

The executed contract documents shall be delivered to the following address:

Solano County Department of Resource Management
Attn: Matt Tuggle
675 Texas Street, Suite 5500
Fairfield, CA 94533

3-1.03 CONTRACTOR REGISTRATION

No contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

3-1.05 CONTRACT BONDS (CIVIL CODE §§ 9550-9554)

The Contractor shall provide, at the time of the execution of the agreement or contract for work, at his own expense, a surety bond in an amount equal to at least one hundred percent (100%) of the contract price as security for the faithful performance of said agreement. Contractor shall also provide, at the time of the execution of the agreement or contract for work, and at his own expense, a separate surety bond in the amount equal to at least one hundred percent (100%) of the contract price as security for the payment of all persons performing and furnishing materials in connection with said agreement. Sureties on each of said bonds shall be satisfactory to the County.

3-1.18 CONTRACT EXECUTION

Four (4) sets of the contract shall be signed by the successful bidder and returned along with four (4) sets of each of the bonds and insurance certificates, as provided within ten days, not including Saturdays, Sundays or legal holidays after the bidder has received notice from the Director of Resource Management that the contract has been awarded and is ready for signature. No bid shall be considered binding upon the County until such execution of the contract. Further, if the successful bidder is a corporation, a certified copy of the by-laws, Resolution, or Minute Order of the Board of Directors of the Corporation shall be attached to each of the four (4) sets of the contract specifying the authority of the person executing the contract to do so.

5 CONTROL OF WORK

5-1.02 CONTRACT COMPONENTS

The Caltrans Standard Specifications 2024 included with these special provisions are considered part of the contract following the governing ranking order as specified in the standard specifications. Subsequent revisions are not part of the contract.

Supplemental project information shall not be considered part of the contract but is provided for informational purposes only.

5-1.13 SUBCONTRACTING

5-1.13A General

The Contractor shall perform work equaling at least 50% of the value of the original total bid with the Contractor's own employees and equipment, owned or rented, with or without operators.

5-1.26 CONSTRUCTION SURVEYS

County will provide survey for Contractor requesting Survey Staking. Survey requests shall be made at least 48 hrs. prior use by the Contractor.

5-1.32 AREAS FOR USE

The highway right of way shall be used only for purposes that are necessary to perform the required work. The Contractor shall not occupy the right of way, or allow others to occupy the right of way, for purposes which are not necessary to perform the required work.

There are no County-owned parcels adjacent to the right of way for the exclusive use of the Contractor within the contract limits. The Contractor shall secure at his own expense any other area required for plant sites, storage of equipment or materials, or for other purposes.

5-1.43E Alternative Dispute Resolution

Section 5-1.43E in its entirety does not apply to this contract.

5-1.46 FINAL INSPECTION AND CONTRACT ACCEPTANCE

When you complete the work, request the Engineer's final inspection. If the Engineer determines that the work is complete, the Engineer will accept the work, and recommend Contract Acceptance by the Department. Immediately after recommendation of Contract Acceptance, you are relieved from:

1. Maintenance and protection duties
2. Responsibility for injury to persons or property or damage

Formal Contract Acceptance is by order of the Board of Supervisors of the County of Solano of an entire Contract which has been completed in all respects in accordance with the Plans and Specifications and any modifications thereof previously approved.

6 CONTROL OF MATERIALS

6-2 QUALITY ASSURANCE

6-2.01 GENERAL

6-2.01C Authorized Materials List

Contractor must also refer to Caltrans' *Authorized Materials List* at <https://dot.ca.gov/programs/engineering-services/authorized-materials-lists>.

The Department maintains the following list of Prequalified and Tested Signing and Delineation Materials. The Engineer shall not be precluded from sampling and testing products on the list of Prequalified and Tested Signing and Delineation Materials.

The manufacturer of products on the list of Prequalified and Tested Signing and Delineation Materials shall furnish the Engineer a Certificate of Compliance in conformance with the provisions in Section 6-3.05E, "Certificates of Compliance," of the Standard Specifications for each type of traffic product supplied.

For those categories of materials included on the list of Prequalified and Tested Signing and Delineation Materials, only those products shown within the listing may be used in the work. Other categories of products, not included on the list of Prequalified and Tested Signing and Delineation Materials, may be used in the work provided they conform to the requirements of the Standard Specifications.

Materials and products may be added to the list of Prequalified and Tested Signing and Delineation Materials if the manufacturer submits a New Product Information Form to the New Product Coordinator at the Transportation Laboratory. Upon a Departmental request for samples, sufficient samples shall be submitted to permit performance of required tests. Approval of materials or products will depend upon compliance with the specifications and tests the Department may elect to perform.

PAVEMENT MARKERS, PERMANENT TYPE

Retroreflective With Abrasion Resistant Surface (ARS)

(traffic direction x marker width)

1. Apex, Model 921AR (4" x 4") and 828AR (3.1x4.5)
2. Ennis-Flint, Models 911 (4" x 4") and C80FH (3.1" x 4.5")
3. Ray-O-Lite, Models "AA" ARC II (4" x 4") and ARC Round Shoulder (4" x 4")
4. 3M Series 290 (3.5" x 4")
5. 3M Series 290 PSA
6. Glowlite, Inc Model 988AR (4" x 4")

Retroreflective With Abrasion Resistant Surface (ARS)

(for recessed applications only)

1. Ray-O-Lite, Model 2002 (2" x 4.6")

2. Ray-O-Lite, Model 2004 (2" x 4")*
 3. Ennis-Flint, Model 201.C40
- *For use only in 4.5 inch wide (older) recessed slots

Non-Reflective, 4-inch Round

1. Apex Universal (Ceramic)
2. Apex Universal, Models 929 (ABS) and 929PP (Polypropylene)
3. Glowlite, Inc. (Ceramic) and PP (Polypropylene)
4. Hi-Way Safety, Inc., Models P20-2000W and 2001Y (ABS)
5. Interstate Sales, "Diamond Back" (Polypropylene)
6. Novabrite Models Cdot (White) Cdot-y (Yellow), Ceramic
7. Novabrite Models Pdot-w (White) Pdot-y (Yellow), Polypropylene
8. Three D Traffic Works TD10000 (ABS), TD10500 (Polypropylene)
9. Ray-O-Lite, Ray-O-Dot (Polypropylene)

PAVEMENT MARKERS, TEMPORARY TYPE

Temporary Markers For Long Term Day/Night Use (180 days or less)

1. Vega Molded Products "Temporary Road Marker" (3" x 4")
2. Pexco LLC, Halftrack model 25, 26 and 35

Temporary Markers For Short Term Day/Night Use (14 days or less)

(For seal coat or chip seal applications, clear protective covers are required)

1. Apex Universal, Model 932, 932HH
2. Pexco LLC, Models T.O.M., T.R.P.M., and "HH" (High Heat)
3. Hi-Way Safety, Inc., Model 1280/1281
4. Glowlite, Inc., Model 932

STRIPING AND PAVEMENT MARKING MATERIAL

Permanent Traffic Striping and Pavement Marking Tape

1. Advanced Traffic Marking, Series 300 and 400
2. Brite-Line, Series 1000
3. Brite-Line, "DeltaLine XRP"
4. Swarco Industries, "Director 60"
5. 3M, "Stamark" Series 380 and 270 ES

Temporary (Removable) Striping and Pavement Marking Tape (180 days or less)

1. Advanced Traffic Marking, Series 200
2. Brite-Line, "Series 100", "Deltaline TWR"
3. Garlock Rubber Technologies, Series 2000
4. Tape 4, Aztec, Grade 102
5. Swarco Industries, "Director-2", "Director 2-Wet Reflective"

6. Trelleborg Industries, R140 Series
7. 3M Series 710
8. Advanced Traffic Marking Black "Hide-A-Line"
(Black Tape: for use only on Hot mix asphalt surfaces)
9. Brite-Line "BTR" Black Removable Tape
(Black Tape: for use only on Hot mix asphalt surfaces)
10. Trelleborg Industries, RB-140
(Black Tape: for use only on Hot mix asphalt surfaces)

Preformed Thermoplastic (Heated in place)

1. Ennis-Flint "Hot Tape"
 2. Ennis-Flint "Premark"
 3. Ennis-Flint, "Flametape"
 4. Alta Traffic Solutions, "Alta All-Season", Series 100 (White Only)
 5. Swarco Preformed Thermoplastic, (White Only)
 6. Ozark Materials, Preformed Thermoplastic
 7. Potters Industries, "VisiTape"
 8. Geveko Markings, "Optamark"
- Ceramic Surfacing Laminate, 6" x 6"
1. Highway Ceramics, Inc.

CLASS 1 DELINEATORS

One Piece Drivable Flexible Type, 66 inch

1. Pexco LLC, "Flexi-Guide Models 400 and 566"
2. Carsonite, Curve-Flex CFRM-400
3. Carsonite, Roadmarker CRM-375
4. FlexStake, Model 654 TM
5. GreenLine Model CGD1-66
6. Ridan Composites LLC, Del-Mark Post

Special Use Type, 66 inch

1. Pexco LLC, Model FG 560 (with U-Channel base), FG 300 UR (with 2-inch square anchor)
2. Carsonite, "Survivor" (with 18-inch U-Channel base)
3. Carsonite, Roadmarker CRM-375 (with 18-inch U-Channel base)
4. FlexStake, Model 604
5. GreenLine Model CGD (with 18-inch U-Channel base)
6. Impact Recovery Model D36, with #105 Drivable Base
7. Safe-Hit with 8-inch pavement anchor (SH248-GP1)
8. Safe-Hit with 15-inch soil anchor (SH248-GP2) and with 18-inch soil anchor (SH248-GP3)
9. Safe-Hit RT 360 Post with Soil Mount Anchor (GPS)
10. Safe-Hit SQR-LOC, SH248SQR-12
11. Shur-Tite Products, Shur-Flex Drivable
12. Three D Traffic Works, Earthflex TD5500

Surface Mount Type, 48 inch

1. Bent Manufacturing Company, Masterflex Model MFEX 180-48
2. Carsonite, "Channelizer"
3. FlexStake, Models 704, 754 TM, and EB4
4. Impact Recovery Model D48, with #101 Fixed (Surface-Mount) Base
5. Three D Traffic Works "Channelflex" ID No. 522248W
6. Flexible Marker Support, Flexistiff Model C-9484
7. Safe-Hit, SH 248 SMR
8. New Direction Manufacturing, Model FTSM 48
9. Hi-way Safety, Inc, Model CFUR48
10. Shur-Tite Products, Shur-Flex
11. Pexco LLC, Flexi-Guide Models FG348PE, FG348UR and FG348EFX

CHANNELIZERS

Surface Mount Type, 36 inch

1. Bent Manufacturing Company, Masterflex Models MF-360-36 (Round) MF-180-36 (Flat) and MFEX 180—36
2. Pexco LLC, Flexi-Guide Models FG336PE, FG336UR and FG336EFX, City Post & City Post SM
3. Carsonite, "Super Duck" (Round SDR-336)
4. Carsonite, Model SDCF03601MB "Channelizer"
5. FlexStake, Models 703, 753 TM, and EB3
6. GreenLine, Model SMD-36
7. Hi-way Safety, Inc. "Channel Guide Channelizer" Model CGC36, CFUR36
8. Impact Recovery Model D36, with #101 Fixed (Surface-Mount) Base
9. Safe-Hit, Guide Post, Model SH236SMA and Dura-Post, Model SHL36SMA
10. Three D Traffic Works "Boomerang" 5200 Series
11. Flexible Marker Support, Flexistiff Model C-9484-36
12. Shur-Tite Products, Shur-Flex
13. New Direction Manufacturing, Model FTSM36

Lane Separation System

1. Pexco LLC, "Flexi-Guide (FG) 300 Curb System"
2. Qwick Kurb, "Klemmfix Guide System"
3. Dura-Curb System
4. Tuff Curb
5. FG 300 Turnpike Curb
6. Shur-Tite Products, SHUR-Curb, Model No. SF0200

CONICAL DELINEATORS, 42 inch

(For 28-inch Traffic Cones, see Standard Specifications)

1. Bent Manufacturing Company "T-Top", TDSC Series
2. Plastic Safety Systems "Navigator-42"

3. TrafFix Devices "Grabber"
4. Three D Traffic Works "Ringtop" TD7000, ID No. 742143
5. Three D Traffic Works, TD7500
6. Work Area Protection Corp. C-42
7. Custom-Pak 4600 (Part No. 93005-0001)
8. Plasticade, Navicade, 650 RI

OBJECT MARKERS

Type "K", 18-inch

1. Pexco LLC, Model FG318PE
2. Carsonite, Model SMD 615
3. FlexStake, Model 701 KM
4. Safe-Hit, Model SH718SMA
5. Impact Recovery Systems, Model 282-K
6. Hi-way Safety, Inc, Model CFURK
7. Shur-Tite Products, Shur-Flex Drivable

Type "Q" Object Markers, 24 inch

1. Bent Manufacturing "Masterflex" Model MF-360-24
2. Pexco LLC, Model FG324PE
3. Carsonite, "Channelizer"
4. FlexStake, Model 701KM
5. Safe-Hit, Models SH824SMA_WA and SH824GP3_WA
6. Three D Traffic Works ID No. 531702W and TD 5200
7. Three D Traffic Works ID No. 520896W
8. Safe-Hit, Dura-Post SHLQ-24"
9. Flexible Marker Support, IMC 9484-24
10. Impact Recovery Systems, Model 282 -Q
11. Hi-way Safety, Inc, Model CFURQ

CONCRETE BARRIER MARKERS AND TEMPORARY RAILING (TYPE K) REFLECTORS

Impactable Type

1. ARTUK, "FB"
2. Pexco LLC, Models PCBM-12 and PCBM-T12, PCBM 912, Hi Viz Flex Tab
3. Duraflex Corp., "Flexx 2020" and "Electriflexx"
4. Hi-Way Safety, Inc., Model GMKRM100
5. Plastic Safety Systems "BAM" Models OM-BARR and OM-BWAR
6. Three D Traffic Works "Roadguide" Model TD 9300
7. K-Cone Industries K-Cone and Klip Model 120T/K-Cone Model 1200T,
8. Retroflex, RF3N1

Non-Impactable Type

1. ARTUK, JD Series

2. Plastic Safety Systems "BAM" Models OM-BITARW and OM-BITARA
3. Vega Molded Products, Models GBM and JD
4. Plastic Vacuum Forming, "Cap-It C400"
5. Irwin Hodson Co., Barrier Traffic Reflector 5 and A Shape HTR

METAL BEAM GUARD RAIL POST MARKERS

(For use to the left of traffic)

1. Pexco LLC, "Mini" (3" x 10"), I-Flex
2. Creative Building Products, "Dura-Bull, Model 11201"
3. Duraflex Corp., "Railrider"
4. Plastic Vacuum Forming, "Cap-It C300"
5. Irwin Hodson Co., Barrier Traffic Reflector

CONCRETE BARRIER DELINEATORS, 16 inch

(For use to the right of traffic)

1. Pexco LLC, Model PCBM T-16
2. Safe-Hit, Model SH216RBM
3. Three D Traffic Works "Roadguide" Model 9400

CONCRETE BARRIER-MOUNTED MINI-DRUM (10" x 14" x 22")

1. Stinson Equipment Company "SaddleMarker"

GUARD RAILING DELINEATOR

(Place top of reflective element at 48 inches above plane of roadway)

Wood Post Type, 27 inch

1. Pexco LLC, FG 427 and FG 527
2. Carsonite, Model 427
3. FlexStake, Model 102 GR
4. GreenLine GRD 27
5. Safe-Hit, Model SH227GRD
6. Three D Traffic Works "Guardflex" TD9100
7. New Directions Mfg., NDM27
8. Shur-Tite Products, Shur-Tite Flat Mount
9. Glasforms, Hiway-Flex, GR-27-00
10. Impact Recovery Systems, 200-GRP

Barrier, Guardrail Visibility Enhancement

1. UltraGuard Safety System, Potters Industries, Inc.
2. Worldwide Safety and Irwin Hodson, Monarch Butterfly Reflective Device (MBG only)
3. 3M, Linear Delineation System, Series 340
4. Pexco LLC, Butterfly-Style Glue-on (MGB only)

Steel Post Type

1. Carsonite, Model CFGR-327

RETROREFLECTIVE SHEETING**Channelizers, Barrier Markers, and Delineators**

1. Avery Dennison T-6500 Series, (For rigid substrate devices only)
2. Avery Dennison WR-7100 Series and WR-6100 Series
3. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
5. Orafol, AC-1000 Acrylic
6. Orafol, AP-1000 Metalized Polyester
7. Orafol, Conformalight, AR-1000 Abrasion Resistant Coating
8. 3M, High Intensity, Series 3310, Series 3910 and 3914

Traffic Cones, 4-inch and 6-inch Sleeves

1. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
2. Orafol, Vinyl, "Conformalight", C85
3. 3M Series 3840, Series 3340
4. Avery Dennison S-9000C

Drums

1. Avery Dennison WR-6100 series
2. Nippon Carbide Industries, Flexible Ultralite Grade (ULG) II
3. Orafol, "Conformalight", "Super High Intensity" or "High Impact Drum Sheeting"
4. 3M Series 3810, Series 3310, Series 3910 and 3914

Barricade Sheeting:

ASTM D 4956 Type I,

1. Nippon Carbide Industries, CN8117
2. Avery Dennison, W 1100 series
3. 3M Series CW 44

Type II

4. Avery Dennison, W-2100 Series

Type III

5. Aura Optical Systems, Aura 150

Type IV

6. 3M Series 3334/3336

Vertical Clearance Signs: Structure Mounted

1. 3M Model 4081, Diamond Grade DG3, Fluorescent Yellow

Signs: Type II, Medium-High-Intensity (Typically Enclosed Lens, Glass-Bead Element)

1. Avery Dennison, T-2500 Series
2. Nippon Carbide Industries, Nikkalite 18000

Signs: Type III, High-Intensity (Typically Encapsulated Glass-Bead Element)

1. Avery Dennison, T-5500A and T-6500 Series
2. Nippon Carbide Industries, Nikkalite Brand Ultralite Grade II
3. 3M 3870 and 3930 Series
4. Changzhou Hua R Sheng, Series TM 1200
5. Orafol, Oralite Series 5800

Signs: Type IV, High-Intensity (Typically Unmetallized Microprismatic Element)

1. Avery Dennison, T-6500 Series
2. Nippon Carbide Industries, Crystal Grade, 94000 Series
3. Nippon Carbide Industries, Model No. 94847 Fluorescent Orange
4. 3M Series 3930 and Series 3924S
5. Orafol, Oralite Series 5900 and Series 5930 Fluorescent Orange

Signs: Type VI, Elastomeric (Roll-Up) High-Intensity, without Adhesive

1. Avery Dennison, WU-6014
2. Novabrite LLC, "Econobrite"
3. Orafol "Vinyl"
4. Orafol "SuperBright"
5. Orafol "Marathon"
6. 3M Series RS20, RS60, RS64I

Signs: Type VIII, Super-High-Intensity (Typically Unmetallized Microprismatic Element)

1. Avery Dennison, T-7500 Series
2. Avery Dennison, T-7511 Fluorescent Yellow
3. Avery Dennison, T-7513 Fluorescent Yellow Green
4. Avery Dennison, W-7514 Fluorescent Orange
5. Nippon Carbide Industries, Nikkalite Crystal Grade Series 92800
6. Nippon Carbide Industries, Nikkalite Crystal Grade Model 92847 Fluorescent Orange
7. Nippon Carbide Industries, Nikkalite Crystal Grade Model 92844 Fluorescent Yellow/Green
8. 3M Series 3940
9. 3M Series 3924S Fluorescent Orange
10. 3M Series 3921 Fluorescent Yellow
11. 3M Series 3923 Fluorescent Yellow Green

Signs: Type IX, Very-High-Intensity (Typically Unmetallized Microprismatic Element)

1. 3M VIP Series 3981 Diamond Grade Fluorescent Yellow
2. 3M VIP Series 3983 Diamond Grade Fluorescent Yellow/Green
3. 3M VIP Series 3990 Diamond Grade
4. Avery Dennison T-9500 Series
5. Avery Dennison, T9513, Fluorescent Yellow Green
6. Avery Dennison, W9514, Fluorescent Orange
7. Avery Dennison, T-9511 Fluorescent Yellow
8. Orafol, Oralite 5930, Fluorescent Orange

Signs: Type XI, Very High Intensity (Typically Unmetallized Microprismatic Element)

- 1 3M Diamond Grade, DG3, Series 4000
2. 3M Diamond Grade, DG3, Series 4081, Fluorescent Yellow
3. 3M Diamond Grade, DG3, Series 4083, Fluorescent Yellow/Green
4. 3M Diamond Grade, DG3, Series 4084, Fluorescent Orange
5. Avery Dennison, OmniCube, T-11500 Series
6. Avery Dennison, OmniCube, T-11511, Fluorescent Yellow
7. Avery Dennison, OmniCube, T-11513, Fluorescent Yellow Green
8. Avery Dennison, OmniCube, W-11514 Fluorescent Orange

SPECIALTY SIGNS

1. Orafol "Endurance" Work Zone Sign (with Semi-Rigid Plastic Substrate)

ALTERNATIVE SIGN SUBSTRATES

Fiberglass Reinforced Plastic (FRP) and Expanded Foam PVC

1. Fiber-Brite (FRP)
2. Sequentia, "Polyplate" (FRP)
3. Inteplast Group "InteCel" (0.5 inch for Post-Mounted CZ Signs, 48-inch or less)(PVC)
4. EcoStrate Sign, Model Traffic 025

Aluminum Composite, Temporary Construction Signs and Permanent Signs up to 4 foot, 7 Inches

1. Alcan Composites "Dibond Material, 80 mils"
2. Mitsubishi Chemical America, Alpolic 350
3. Bone Safety Signs, Bone Light ACM (temporary construction signs only)
4. Kommerling, USA, KomAlu 3 mm

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

7-1.01 GENERAL

You must notify the County of weekly safety meetings 48 hours in advance and allow for County inspectors to attend the meetings.

7-1.03 PUBLIC CONVENIENCE

Attention is directed to Sections 7-1.03, "Public Convenience," 7-1.04, "Public Safety," and 12, "Temporary Traffic Control," of the Standard Specifications and to the section entitled Public Safety elsewhere in these Special Provisions. Nothing in these Special Provisions shall be construed as relieving the Contractor from his responsibility as provided in said Sections 7-1.03, 7-1.04, and 12 Temporary Traffic Controls.

7-1.04 PUBLIC SAFETY

The Contractor shall install temporary railing (Type K) between a lane open to public traffic and an excavation, obstacle, or storage area when the following conditions exist:

1. Excavations—The near edge of the excavation is 12 feet or less from the edge of the lane, except:
 - a. Excavations covered with sheet steel or concrete covers of adequate thickness to prevent accidental entry by traffic or the public.
 - b. Excavations less than one foot deep.
 - c. Trenches less than one foot deep.
 - d. Excavations parallel to the lane for the purpose of pavement widening or reconstruction. Excavations which are limited to 2" vertical, outside of the existing traveled way may be left overnight, but must be filled to grade the following day.
 - e. Excavations in side slopes, where the slope is steeper than 4:1 (horizontal: vertical).
 - f. Excavations protected by existing barrier or railing.

All excavations within the traveled way must be made flush with the existing surface prior to opening a closure. Edgeline obliterated during widening must be replaced with temporary delineation and maintained until a new surface treatment is installed.

2. Temporarily Unprotected Permanent Obstacles—The work includes the installation of a fixed obstacle together with a protective system, such as sign structure together with protective railing, and the Contractor elects to install the obstacle prior to installing the protective system; or the Contractor, for the Contractor's convenience and with permission of the Engineer, removes a portion of an existing protective railing at an obstacle and does not replace such railing complete in place during the same day.
3. Storage Area—Material or equipment is stored within 12 feet of the lane and the storage is not otherwise prohibited by the provisions of the Standard Specifications and these Special Provisions.

The approach end of temporary railing (Type K), installed in conformance with the provisions in this Section, "Public Safety" and in Section 7-1.04, "Public Safety" of the Standard Specifications, shall be offset a minimum of 15 feet from the edge of the traffic lane open to public traffic. The temporary railing shall be installed on a skew toward the edge of the traffic lane of not more than one foot transversely to 10 feet longitudinally with respect to the edge of the traffic lane. If the 15 foot minimum offset cannot be achieved, the temporary railing shall be installed on the 10 to 1 skew to obtain the maximum available offset between the approach end of the railing and the edge of the traffic lane, and an array of temporary crash cushion modules shall be installed at the approach end of the temporary railing.

Except for installing, maintaining and removing traffic control devices, whenever work is performed, or equipment is operated in the following work areas, the Contractor shall close the adjacent traffic lane unless otherwise provided in the Standard Specifications and these Special

Provisions:

Approach Speed of Public Traffic (Posted Limit)	Work Areas
Over 45 Miles Per Hour	Within 6 feet of a traffic lane but not on a traffic lane
35 to 45 Miles Per Hour	Within 3 feet of a traffic lane but not on a traffic lane

The lane closure provisions of this section shall not apply if the work area is protected by a permanent or temporary railing or barrier.

When traffic cones or delineators are used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane, however, the Contractor shall not reduce the width of an existing lane to less than 10 feet without written approval from the Engineer.

When work is not in progress on a trench or other excavation that required closure of an adjacent lane, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not more than the spacing used for the lane closure.

Suspended loads or equipment shall not be moved nor positioned over public traffic or pedestrians.

Full compensation for conforming to the requirements in this section "Public Safety", including furnishing and installing temporary railing (Type K) and temporary crash cushion modules, shall be considered as included in the contract prices paid for the various items of work involved and no additional compensation will be allowed therefore.

The Contractor shall be aware that some areas in Solano County are subject to flooding from time to time. The project jobsite may be such an area. The Contractor shall perform all investigations it deems necessary to inform itself of the potential of the jobsite to flood. No additional compensation shall be provided to the Contractor for any delays or damages suffered by the Contractor as a result of flooding of the jobsite, or of any other areas in Solano County.

The Contractor shall be aware that from time to time individuals, private entities, and public agencies release water into, or impound water in, various ditches and creeks in Solano County. The project jobsite may contain such ditches and creeks. The Contractor shall perform all investigations it deems necessary to inform itself whether such water releases or impoundments may occur which could affect the jobsite. The Contractor shall take all necessary actions to protect the project work from such water releases or impoundments. No additional compensation shall be provided to the Contractor for any delays or damages suffered by the Contractor as a result of water releases or impoundments which affect the jobsite. Full compensation for protecting the project work from such water releases or impoundment shall be considered as included in the various contract items of work, and no additional compensation shall be made therefore.

7-1.06 INSURANCE

7-1.06A General

Without limiting the Contractor's obligation to indemnify the County of Solano, the Contractor shall maintain and keep in force during the term of this Agreement the following insurances:

1. Bodily Injury and Property Insurance for all activities of the Contractor (and its subcontractors) arising out of or in connection with this Agreement, written on a Commercial General Liability form including, but not limited to, premises and operations, independent contractors, products and completed operations, contractual liability and personal injury, in an amount no less than **Five Million Dollars (\$5,000,000)** combined single limit for each occurrence.
2. Automobile Liability Insurance covering bodily injury and property damage for all activities of the Contractor arising out of or in connection with this Agreement, including coverage for owned, hired, and non-owned vehicles, in an amount no less than **One Million Dollars (\$1,000,000)** combined single limit for each occurrence.
3. Each said commercial general liability and automobile liability insurance policy shall be endorsed with the following specific language:
 - a. The County of Solano, its officers, agents and employees, are named as additional insured for all liability arising out of the operations by or on behalf of the named insured in the performance of this Agreement.
 - b. The inclusion of more than one insured shall not operate to impair the rights of one insured against another insured, and the coverage's afforded shall apply as though separate policies had been issued to each insured.
 - c. The insurance provided is primary and no insurance held or owned by the County of Solano shall be called upon to contribute to a loss.
 - d. If Contractor maintains higher limits than the minimums shown above, County is entitled to coverage for the higher limits maintained by Contractor.
 - e. The coverage provided by this policy shall not be reduced or canceled without thirty (30) days written notice given to the County of Solano.
4. Prior to commencement of any work under this contract, the Contractor shall provide proof of required insurance to the Engineer.
5. Workers' Compensation insurance as required by the Labor Code of the State of California, for Contractor and employees of Contractor shall be provided by Contractor. All Workers' Compensation policies shall be endorsed with the following specific languages: "This policy shall not be canceled or materially changed without first giving thirty (30) days prior notice to Solano County in writing."

8 PROSECUTION AND PROGRESS

8-1.01 GENERAL

Time is of the essence in completing the work under this contract.

8-1.02 SCHEDULE

8-1.02B Level II Critical Path Method Schedule

8-1.02B(1) General

Prior to beginning work, a progress schedule will be provided to Solano County's Construction Engineer for the duration of the construction.

8-1.03 PRE-CONSTRUCTION CONFERENCE

Prior to the issuance of the Notice to Proceed, a Pre-Construction Conference will be held at the office of the Department of Resource Management for the purpose of discussing with the Contractor the scope of work, contract drawings, Specifications, existing conditions, materials to be ordered, equipment to be used, and all essential matters pertaining to the prosecution of and the satisfactory completion of the project as required. The Contractor's representative at this conference shall include all major superintendents for the work and may include major subcontractors.

8-1.04 START OF JOB SITE ACTIVITIES

8-1.04B Standard Start

Section 8-1.04B, "Standard Start", of the Standard Specifications is amended to read:

The County will issue a formal written "Notice to Proceed", after the Contract has been approved, within 60 calendar days after the bid has been awarded. The Contractor shall not begin work within the County right-of-way until they have received a County issued Notice to Proceed. Within ten working days after issuance of Notice to Proceed, the Contractor shall begin to prosecute the work. The work under this contract shall be completed within

40 WORKING DAYS

8-1.10 LIQUIDATED DAMAGES

8-1.10A General

The liquidated damages amount prescribed in the specifications, to be paid to the County of Solano or to be deducted from any payments due or to become due the Contractor for each day's delay in completing the whole or any specified portion of the work beyond the time allowed in the specifications.

Contractor shall pay to County of Solano the sum of \$4,200 per day, for each and every calendar

day's delay in finishing the work in excess of the number of working days prescribed above.

9 PAYMENT

9-1.01 GENERAL

Attention is directed to Section 9-1.16, "Progress Payments" and 9-1.17, "Payment After Contract Acceptance" of the Standard Specifications and these Special Provisions.

For the purpose of making partial payments pursuant to Section 9-1.16, "Progress Payments" of the Standard Specifications, the amount set forth for the contract items of work hereinafter listed shall be deemed to be the maximum value of said contract item of work which will be recognized for progress payment purposes: **NONE**.

After acceptance of the contract pursuant to Section 5-1.46, "Final Inspection and Contract Acceptance" of the Standard Specifications, the amount, if any, payable for a contract item of work in excess of the maximum value for progress payment purposes hereinabove listed for said item, will be included for payment in the first estimate made after acceptance of the contract.

No partial payment will be made for any materials on hand which are furnished but not incorporated in the work.

9-1.16 PROGRESS PAYMENTS

9-1.16A General

A prime contractor or subcontractor shall pay any subcontractor not later than 10 days of receipt of each progress payment in accordance with the provision in section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The 10 days is applicable unless a longer period is agreed to in writing. Any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of section 7108.5 shall subject the violating contractor or subcontractor to the penalties, sanctions and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative or judicial remedies otherwise available to the Contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor. This provision applies to both DBE and non-DBE subcontractors.

9-1.17 PAYMENT AFTER CONTRACT ACCEPTANCE

9-1.17A General

Section 9-1.17, "Payment After Contract Acceptance," of the Standard Specifications is amended to read:

After the work has been completed satisfactorily as determined by the Engineer and as provided in Section 5-1.46, "Final Inspection and Contract Acceptance", payments will be made to the Contractor subject to the provisions in this Section 9-1.17.

Section 9-1.17B, "Payment Before Final Estimate," of the Standard Specifications is amended to read:

After the work has been completed as determined by the Engineer, he will make an estimate of the total amount of work done under the contract and the County will make a final monthly payment pending issuance of the proposed final estimate. The County will pay the balance found to be due after deduction of all previous payments, all amounts to be kept or retained under the provisions of the contract, and such further amounts that the Engineer determines to be necessary pending issuance of the proposed final estimate and payment.

The following is added to Section 9-1.17(D)(2)(b) "Overhead Claims"

Overhead costs may not be claimed or recovered on the basis of any 'Eichleay' formula, or 'Total Cost' recovery formula.

Section 9-1.17D, "Final Payment and Claims," of the Standard Specifications is amended to read:

After acceptance of the work by the Director, the Engineer will make a proposed final estimate in writing of the total amount payable to the Contractor, including therein an itemization of said amount, segregated as to contract item quantities, extra work and any other basis for payment, and shall also show therein all deductions made or to be made for prior payments and amounts to be kept or retained under the provisions of the contract. All prior estimates and payments shall be subject to correction in the proposed final estimate. The Contractor shall submit written approval of the proposed final estimate, or a written statement of all claims arising under or by virtue of the contract, so that the Engineer receives such written approval or statement of claims no later than close of business 30 days after receiving the proposed final estimate. If the thirtieth day falls on a Saturday, Sunday or legal holiday, then receipt of such written approval or statement of claims by the Engineer shall not be later than close of business of the next business day. No claim will be considered that was not included in the written statement of claims, nor will any claim be allowed as to which a notice or protest is required under the provisions in Sections 4-1.05, "Changes and Extra Work"; 8-1.05, "Time"; 8-1.10, "Liquidated Damages"; 4-1.06, "Differing Site Conditions"; 5-1.36, "Property and Facility Preservation"; 5-1.36D, "Non-highway Facilities"; and 5-1.43, "Potential Claims and Dispute Resolution," unless the Contractor has complied with the notice or protest requirements in said sections.

On the Contractor's approval, or if the Contractor files no claim within the period of 30 days, the Engineer shall make and issue his final estimate in writing and will recommend to the Board of Supervisors that it formally accepts the contract. In no event shall final payment be made in less than thirty days after completion of work and the formal acceptance of the contract by the Board of Supervisors. Such final estimate and payment shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable, except as otherwise provided in Sections 5-1.27, "Records," and 9-1.21, "Clerical Errors."

If the Contractor within the specified period of 30 days files claims, the Engineer will issue a semifinal estimate in accordance with the proposed final estimate submitted to the Contractor and within 30 days thereafter the County will pay the sum so found to be due. The semifinal estimate and payment shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable therefore, except insofar as affected by the claims filed within the time and in the manner required hereunder and except as otherwise provided in Sections 5-1.27, "Records," and 9-1.21, "Clerical Errors."

Claims filed by the Contractor shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of said claims. If additional information or details are required by the Engineer to determine the basis and amount of said claims, the Contractor shall furnish such further information or details so that the information or details are received by the Engineer no later than the fifteenth day after receipt of the written request from the Engineer. If the fifteenth day falls on a Saturday, Sunday or legal holiday, then receipt of such information or details by the Engineer shall not be later than close of business of the next business day. Failure to submit such information and details to the Engineer within the time specified will be sufficient cause for denying the claim.

The Contractor shall keep full and complete records of the costs and additional time incurred for any work for which a claim for additional compensation is made. The Engineer or any designated claim investigator or auditor shall have access to those records and any other records as may be required by the Engineer to determine the facts or contentions involved in the claims. Failure to permit access to such records shall be sufficient cause for denying the claims.

Claims submitted by the Contractor shall be accompanied by a notarized certificate containing the following language:

Under the penalty of law for perjury or falsification and with specific reference to the California False Claims Act, Government Code section 12650 et. seq., the undersigned,

(name)

(title)

of

(company)

certifies that the claim for the additional compensation and time, if any, made for the work on this contract is a true statement of the actual costs incurred and time sought, and is fully documented and supported under the contract between parties.

State of California

County of _____

Subscribed and sworn to (or affirmed) before me on this _____ day

of _____, 20 __, by _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Seal _____

Signature _____

Failure to submit the notarized certificate will be sufficient cause for denying the claim.

Any claim for overhead type expenses or costs, in addition to being certified as stated above, shall be supported by an audit report of an independent Certified Public Accountant. Any such overhead claim shall also be subject to audit by the County at its discretion.

Any costs or expenses incurred by the County in reviewing or auditing any claims that are not supported by the Contractor's cost accounting or other records shall be deemed to be damages incurred by the County within the meaning of the California False Claims Act.

The Director of Resource Management will make the final determination of any claims which remain in dispute after completion of claim review by the Engineer. A board or person designated by said Director will review such claims and make a written recommendation thereon to the Director. The Contractor may meet with the review board or person to make a presentation in support of such claims.

Upon final determination of the claims, the Engineer shall then make and issue his final estimate in writing and will recommend to the Board of Supervisors that they formally accept the contract. In no event shall final payment be made in less than thirty days after completion of work and the formal acceptance of the contract by the Board of Supervisors. Such final estimate and payment thereon shall be conclusive and binding against both parties to the contract on all questions relating to the amount of work done and the compensation payable, except as otherwise provided in Sections 5-1.27, "Records," and 9-1.21, "Clerical Errors."

DIVISION II GENERAL CONSTRUCTION

10 CONSTRUCTION DETAILS

10-1 GENERAL

10-1.01 ORDER OF WORK

Order of work shall conform to the provisions in these Special Provisions.

Contractor shall have their Traffic Control Plan approved prior to the beginning of road construction work.

Contractor shall submit for Engineer's acceptance, a Stormwater Pollution Prevention Plan (SWPPP) prior to the start of any ground disturbing activities. The Contractor may commence ground disturbing activities after the Engineer has reviewed and accepted the SWPPP(s).

Attention is directed to Section 7-1.03, "Public Convenience"; Section 7-1.04, "Public Safety"; and Section 12-4, "Maintaining Traffic" of the Standard Specifications and these Special Provisions.

10-5 DUST CONTROL

Attention is directed in the prevention and alleviation of dust by applying water, a dust palliative under Section 18, "Dust Palliatives," of the Standard Specifications and these Special Provisions.

10-6 WATERING

The Contractor shall develop a water supply to furnish and apply water. Water maybe potable or non-potable. Non-potable water must be either recycled water or non-potable water developed from other sources.

Non-potable water supply, tanks, water trucks, and other conveyances of non-potable water must be labeled Non-potable Water / Do Not Drink. Each water storage tank or water truck must be equipped with positive shut-off valves.

For compacting material, base and surface material and for dust control, apply water with equipment that will apply it uniformly.

Full compensation for conforming to the requirements of this section shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed, therefore.

12 TEMPORARY TRAFFIC CONTROL

12-1 GENERAL

12-1.01 GENERAL

Attention is directed to Section 7-1.03 "Public Convenience," Section 7-1.04, "Public Safety," and Section 12 "Temporary Traffic Control," of the Standard Specifications and to the section entitled Public Safety elsewhere in these Special Provisions. Nothing in these Special Provisions shall be construed as relieving the Contractor from his responsibility as provided in said Sections 7-1.03 and 7-1.04.

The full width of the traveled way shall be open for use by public traffic on Saturdays, Sundays, and County holidays and when construction operations are not actively in progress.

Unless approved by the Engineer, not more than one stationary lane closure will be allowed at one time.

The lane closure provisions of this section shall not apply if the work area is protected by a permanent or temporary railing or barrier.

When traffic cones or delineators are used to delineate a temporary edge of a traffic lane, the line of cones or delineators shall be considered to be the edge of the traffic lane; however, the Contractor shall not reduce the width of an existing lane to less than 10 ft. without written approval from the Engineer.

When work is not in progress on a trench or other excavation that required closure of an adjacent lane, the traffic cones or portable delineators used for the lane closure shall be placed off of and adjacent to the edge of the traveled way. The spacing of the cones or delineators shall be not more than the spacing used for the lane closure.

Local authorities shall be notified at least 5 business days before work begins. The Contractor shall cooperate with local authorities to handle traffic through the work area and shall arrange to keep the work area clear of parked vehicles.

Personal vehicles of the Contractor's employees shall not be parked on the traveled way closed to public traffic.

When work vehicles or equipment is parked on the shoulder within 8 feet of a traffic lane, the shoulder area shall be closed in accordance with the Standard Plans.

A minimum of one paved traffic lane, not less than 10 feet wide, shall be open for use by public traffic.

12-1.04 PAYMENT

County has determined the cost of furnishing flaggers including transportation using Force Account Methods. County will pay the cost at the rate as shown in the bid schedule. Flagging is from the time that the roadway goes under control of the Contractor's flaggers, until the time that the roadway goes off of the control of the Contractor's flaggers. This does not include set-up or take-down, as those costs shall be included in Traffic Control System for Lane Closure.

Flagging shall be paid in accordance with the Special Provisions as shown above. The Contractor will be paid at the listed unit price for these items. The Estimated Quantity is for bid purposes only. Payment will be based upon actual hours used. Unit price adjustment resulting from a change of more than 25% does not apply to these items.

12-3 TEMPORARY TRAFFIC CONTROL DEVICES

12-3.11 CONSTRUCTION AREA SIGNS

Construction area signs for temporary traffic control shall be furnished, installed, maintained, and removed when no longer required in conformance with the provisions in Section 12, "Construction Area Traffic Control Devices," of the Standard Specifications and these special provisions.

Construction Area Signs must be installed prior to any groundbreaking activities including grinding, road excavation. Dates must be lettered on sign.

Attention is directed to the provisions in "Prequalified and Tested Signing and Delineation Materials" of these special provisions. Type II retroreflective sheeting shall not be used on construction area sign panels. Type III, IV, VII, VIII, or IX retroreflective sheeting shall be used for stationary mounted construction area sign panels.

Unless otherwise shown on the plans or specified in these special provisions, the color of construction warning and guide signs shall have black legend and border on orange background except W10-1 or W47(CA) (Highway-Rail Grade Crossing Advance Warning) sign shall have black legend and border on yellow background.

The Contractor shall notify the appropriate regional notification center for operators of subsurface installations at least three working days, but not more than 14 calendar days, prior to commencing excavation for construction area sign posts. The regional notification centers include, but are not limited to, Solano County Public Works Operations at (707) 421-6055.

Excavations required to install construction area signs shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there are no utility facilities in the area of the proposed post holes.

Construction area signs placed within 15 feet from the edge of the travel way shall be mounted on stationary mounted sign supports as specified in "Construction Area Traffic Control Devices" of these special provisions.

The term "Construction Area Signs" shall also include temporary object markers required for the direction of public traffic through or around the work during construction. Object markers listed or designed on the plans as construction area signs shall be considered to be signs and shall be furnished, erected, maintained, and removed by the Contractor in the same manners specified for construction area signs and the following:

Object markers shall be stationary mounted on wood or metal posts in accordance with the details shown on the plans and the requirements in Section 82, "Markers and Delineators," of the Standard Specifications.

Construction area signs include general information signs and all temporary signs and object markers required for the direction of traffic within the project limits.

12-3.11A(2) Definitions

background: Dominant sign color.

legend: Letters, numerals, tildes, bars, arrows, route shields, symbols, logos, borders, artwork, and miscellaneous characters that are intended to convey specific meanings on traffic signs.

12-3.11A(3) Submittals

Reserved

12-3.11A(4) Quality Assurance

Reserved

12-3.11B Materials

12-3.11B(1) General

Construction area sign must be the product of a commercial sign manufacturer.

The style, font, size, and spacing of the legend must comply with the Standard Alphabets published in the FHWA's Standard Highway Signs Book.

The sign must be visible from 500 feet and legible from 300 feet at noon on a cloudless day and during the hours of darkness under an illumination of legal low-beam headlights by persons with 20/20 vision or vision corrected to 20/20. A fabric sign panel on a portable sign is not subject to the visibility and legibility requirements for headlight illumination during the hours of darkness.

Construction area warning and guide signs must have a black legend on a retroreflective, fluorescent orange background. W10-1 advance warning sign for highway-rail grade crossings must have a black legend on a retroreflective fluorescent yellow background.

12-3.11B(2) Stationary-Mounted Signs

Stationary-mounted sign must comply with section 82-2.

A temporary sign support of any type placed within 15 feet from the edge of the traveled way must comply with the specifications for a Category 2 temporary traffic control device.

The signpost must be good, sound wood posts with the breakaway feature as shown for a roadside sign.

Fastening hardware and back braces must be commercial-quality materials.

12-3.11B(3) Portable Signs

Each portable sign must consist of a base, standard or framework, and a sign panel. Units delivered to the job site must be capable of being placed into immediate operation.

A sign panel for a portable sign must comply with the specifications for a stationary-mounted sign panel or be fabricated from one of the following materials:

1. Type VI, retroreflective, elastomeric roll-up fabric
2. Non-retroreflective, cotton, drill fabric
3. Non-retroreflective, flexible, industrial, nylon fabric
4. Another type of fabric if authorized

Do not use non-retroreflective portable signs during the hours of darkness.

The bottom of the portable sign panel must be at least 1 foot above the edge of the traveled way.

12-3.11B(4) Temporary Object Markers

A temporary object marker must be mounted on a stationary wood or metal post and must comply with section 82.

A marker panel for a Type N (CA), Type P (CA), or Type R (CA) object marker must comply with the specifications for a marker panel for a stationary sign panel in section 12-3.11B(2).

A target plate, post, and the hardware for a Type K (CA) and Type L (CA) temporary object marker must comply with the specifications for these items in section 82.

12-3.11B(5) General Information Signs

12-3.11B(5)(a) General

Not Used

12-3.11B(5)(b) Construction Project Funding Identification Signs

Construction project funding identification sign must:

1. Comply with:

- 1.1. Section 6F.109(CA) of the California MUTCD
- 1.2. Section 82-2.02E
- 1.3. Specifications on the Department's Safety Programs website
2. Be 48 by 30 inches for local roadways
3. Be 96 by 60 inches for conventional highways
4. Be 132 by 78 inches for freeways and expressways

12-3.11C Construction

12-3.11C(1) General

Place all construction area signs outside of the traveled way. Do not block a bicycle or pedestrian pathway with a construction area sign.

Place, install, maintain, and remove temporary object markers shown as construction area signs as specified for construction area signs.

Maintain accurate information on construction area signs. Immediately replace or correct signs that convey inaccurate information.

During the progress of work, immediately cover or remove unneeded signs.

Cover each unneeded sign such that the message cannot be seen. Securely fasten the cover to prevent movement from wind.

Check each covered sign daily for damage to the cover and immediately replace any cover if needed.

Clean each construction area sign panel at the time of installation and at least once every 4 months thereafter.

Be prepared to furnish additional construction area sign panels, posts, and mounting hardware or portable sign mounts on short notice due to changing traffic conditions or damage caused by traffic or other conditions. Maintain an inventory of commonly required items at the job site or make arrangements with a supplier who is able to furnish the items daily on short notice.

Replace any damaged construction area sign or repair the sign if authorized.

Remove any sign panel that exhibits irregular luminance, shadowing, or dark blotches at nighttime under vehicular headlight illumination.

12-3.11C(2) Stationary-Mounted Signs

Install stationary-mounted signs as described for the installation of roadside signs except:

1. Back braces and blocks for sign panels are not required for signs 48 inches or smaller in width and diamond-shaped signs 48 by 48 inches or smaller.

2. Bottom of the sign panel must be at least 7 feet above the edge of the traveled way.
3. You may install a construction area sign on an above-ground, temporary platform sign support or on an existing lighting standard or other support if authorized. Do not make holes in a standard to support the sign if it is installed on an existing lighting standard.
4. Post embedment must be at least 2.5 feet if the post hole is backfilled around the post with commercial-quality concrete. The concrete must contain at least 295 pounds of cementitious material per cubic yard.

The Engineer determines the post size and number of posts if the type of sign installation is not shown.

Excavate each post hole by hand methods without the use of power equipment. You may use power equipment where you determine that subsurface utilities are not present in the area of the proposed post hole if authorized. The post-hole diameter must be at least 4 inches greater than the longest cross sectional dimension of the post if it is backfilled with commercial-quality concrete.

Furnishing, installing, maintaining, moving, and removing any additional construction area signs if ordered is change order work.

12-3.11C(3) General Information Signs

12-3.11C(3)(a) General

Not Used

12-3.11C(3)(b) Construction Project Funding Identification Signs

Do not add information to a construction project funding identification sign unless authorized.

Install construction project funding identification signs before starting major work activities visible to highway users.

Mount construction project funding identification signs on a wood posts under section 82-3.

12-3.11D PAYMENT

The contract bid unit price paid per lump sum for Construction Area Signs shall include full compensation for furnishing signs with road name, construction limits and dates, installation, and maintenance during construction, and removal of signs as shown in the Contract Plans.

12-4 MAINTAINING TRAFFIC

12-4.02 TRAFFIC CONTROL SYSTEMS

12-4.02A General

A traffic control system shall consist of closing traffic lanes in conformance with the details shown on the plans, the provisions in Section 12, "Temporary Traffic Control," of the Standard Specifications, the provisions under Section 7-1.03, "Public Convenience," Section 7-1.04, "Public Safety," Section 12-3.11, "Construction Area Signs," and Section 12-4, "Maintaining Traffic," of the Standard Specifications and these Special Provisions.

The provisions in this section shall not relieve the Contractor from the responsibility to provide additional devices or take measures as may be necessary to comply with the provisions in Section 7-1.04, "Public Safety," of the Standard Specifications.

If components in the traffic control system are displaced or cease to operate or function as specified, from any cause, during the progress of the work, the Contractor shall immediately repair the components to the original condition or replace the components and shall restore the components to the original location.

12-4.02D Payment

The contract bid unit price paid per lump sum for Traffic Control System for Lane Closure shall include full compensation for maintenance of signage and barricades, gaining access to the site, and providing for public safety

13 WATER POLLUTION CONTROL

13-1 GENERAL

13-1.01 GENERAL

13-1.01A General

Water pollution control work shall conform to the provisions in Section 7-1.11, "Federal Laws for Federal-Aid Contracts"; Section 13, "Water Pollution Control"; and Section 14, "Environmental Stewardship" of the Standard Specifications and these Special Provisions.

Submit the local project to the CA Waterboard SMARTS system. Link the project to Solano County's LRP, Pejman Mehrfar, user ID: **pmehrfar**

13-3 STORMWATER POLLUTION PREVENTION PLAN

13-3.04 PAYMENT

For a project with 60 original working days or less, the County pays for prepare stormwater pollution control plan as follows:

1. Total of 75 percent of the item total upon authorization of the SWPPP
2. Total of 100 percent of the item total upon Contract acceptance

For a project with more than 60 original working days, the County pays for prepare stormwater pollution prevention plan as follows:

1. Total of 50 percent of the item total upon authorization of the SWPPP
2. Total of 90 percent of the item total upon work completion
3. Total of 100 percent of the item total upon Contract acceptance

The County does not pay for the preparation, collection, laboratory analysis, and reporting of stormwater samples for nonvisible pollutants if WPC practices are not implemented before precipitation or if you fail to correct a WPC practice before precipitation.

The County pays:

1. \$500 for each authorized rain event action plan
2. \$2,000 for each authorized stormwater annual report

The County does not adjust the unit price for an increase or decrease in the quantity of:

1. Rain event action plan
2. Storm water sampling and analysis day
3. Storm water annual report

14 ENVIRONMENTAL STEWARDSHIP

14-1 GENERAL

14-1.01 GENERAL

All materials resulting from Clearing and Grubbing must be disposed of in a Sanitary Landfill operated, permitted and licensed (in accordance with Title 27) by the State of California and /or County, which is a sub-division of the State of California. Landfill weight slip disposal receipts for proof of delivery of all materials originating from project site(s) and disposed in Sanitary Landfill shall be provided to the Engineer daily. Contractor shall provide to the Engineer daily, a written log which includes date, time. Location. Material classification, estimate of quantity of material, delivery truck company, delivery truck identification (truck number), truck operator's name, and recorder's name of such written log for all deliveries.

14-8 NOISE AND VIBRATION

14-8.02 NOISE CONTROL

Noise control shall conform to the provisions in Section 14-8.02, "Noise Control," of the Standard Specifications and these Special Provisions. This requirement in no way relieves the Contractor from responsibility for complying with local ordinances regulating noise level.

Said noise level requirement shall apply to all equipment on the job or related to the job, including but not limited to trucks, transit mixers or transient equipment that may or may not be owned by the Contractor. The use of loud sound signals shall be avoided in favor of light warnings except those required by safety laws for the protection of personnel.

Full compensation for conforming to the requirements of this section shall be considered as included in the prices paid for the various contract items of work involved and no additional compensation will be allowed therefore.

15 EXISTING FACILITIES

15-1.01 GENERAL

Protect existing manhole covers, valve covers and monument wells. Cover existing facilities with a 4" oversize cover during asphalt rubber chip seal placement. Remove cover after asphalt rubber chip placement and compaction.

Existing Monument wells are to receive an appropriate lifting ring if needed to match new grade upon completion of work.

15-1.04 PAYMENT

The contract bid unit price paid per each for Raise Iron includes full compensation for lifting rings, and/or utility box with covers, concrete to finished, concrete collar, and adding black dye to concrete surface to match pavement if requested by the Engineer.

DIVISION III EARTHWORK AND LANDSCAPE

18 DUST PALLIATIVES

18-1.04 PAYMENT

Full compensation for conforming to the provisions of this section is considered as included in the prices paid for the various contract items of work involved and no additional compensation will be made therefore.

19 EARTHWORK

19-2 ROADWAY EXCAVATION

19-2.01 GENERAL

19-2.03 SURPLUS MATERIAL

Surplus material becomes the property of the Contactor. Dispose of surplus material outside of the Right of Way, unless directed by the Resident Engineer. No additional compensation will be made of disposal of surplus material.

DIVISION V SURFACINGS AND PAVEMENTS

37 BITUMINOUS SEALS

37-2 CHIP SEALS

37-2.01 GENERAL

37-2.01A General

37-2.01A(1) Summary

Section 37-2.01 includes general specifications for applying chip seals.

37-2.01A(2) Definitions

Reserved

37-2.01A(3) Submittals

At least 15 days before starting placement of chip seal, submit:

1. Samples for:
 - 1.1. Asphaltic emulsion chip seal, two 1-quart wide mouth plastic containers with screw top lid of asphaltic emulsion
 - 1.2. Polymer modified asphaltic emulsion chip seal, two 1-quart wide mouth plastic containers with screw top lid of polymer modified asphaltic emulsion
 - 1.3. Asphalt rubber binder chip seal, two 1-quart cans of base asphalt binder
 - 1.4. Asphalt rubber binder chip seal, five 1-quart cans of asphalt rubber binder
2. Asphaltic emulsion, polymer modified asphaltic emulsion, asphalt binder or asphalt rubber binder data as follows:
 - 2.1. Supplier and Type/Grade of asphaltic emulsion or asphalt binder
 - 2.2. Type of modifier used including polymer or crumb rubber or both
 - 2.3. Percent of crumb rubber, if used as modifier
 - 2.4. Copy of the specified test results for asphaltic emulsion or asphalt binder
3. 50 lb. of uncoated aggregate
4. Aggregate test results for the following:
 - 4.1. Gradation
 - 4.2. Los Angeles Rattler
 - 4.3. Percent of crushed particles
 - 4.4. Flat and elongated particles
 - 4.5. Film stripping
 - 4.6. Cleanness value
 - 4.7. Durability

5. Vialit test results

Submit quality control test results for the quality characteristics within the reporting times allowance after sampling.

Within 3 days after taking asphaltic emulsion or asphalt binder quality control samples, submit the authorized laboratory's test results.

37-2.01A(4) Quality Assurance

37-2.01A(4)(a) General

Reserved

37-2.01A(4)(b) Quality Control**37-2.01A(4)(b)(i) General**

Reserved

37-2.01A(4)(b)(ii) Aggregate

All tests must be performed on uncoated aggregate except for film stripping which must be performed on precoated aggregate.

For aggregate, the authorized laboratory must perform sampling and testing at the specified frequency and location for the following quality characteristics:

Aggregate Quality Control Requirements

Quality characteristic	Test method	Minimum sampling and testing frequency	Location of sampling
Los Angeles Rattler loss (max, %) At 100 revolutions At 500 revolutions	California Test 211	1st day of production	See California Test 125
Percent of crushed particles Coarse aggregate (min, %) One-fractured face Two-fractured faces Fine aggregate (min, %) (Passing No. 4 sieve and retained on No. 8 sieve) One fractured face	AASHTO T 335	1st day of production	See California Test 125
Flat and elongated particles (max by weight at 3:1, %)	ASTM D4791	1st day of production	See California Test 125
Film stripping (max, %)	California Test 302	1st day of production	See California Test 125
Durability (min)	California Test 229	1st day of production	See California Test 125
Gradation (% passing)	California Test 202	2 per day	See California Test 125
Cleanness value (min)	California Test 227	2 per day	See California Test 125

37-2.01A(4)(b)(iii) Chip Seals

For a chip seal, the authorized laboratory must perform sampling and testing at the specified frequency and location for the following quality characteristics:

Chip Seal Quality Control Requirements

Quality characteristic	Test method	Minimum sampling and testing frequency	Location of sampling
Asphaltic emulsion binder spread rate (gal/sq yd)	California Test 339	1 per day per distributor truck	Pavement surface

37-2.01A(4)(c) Department Acceptance

Department Acceptance does not apply to identified areas where the existing surfacing before application of chip seal, contains defective areas as determined by the Engineer and Contractor. At least 7 days before starting placement of the chip seal, submit a written list of existing defective areas, identifying the lane direction, lane number, starting and ending highway post mile locations, and defect type. The Engineer must agree on which of the identified areas are defective.

Defective areas are defined as one of the following:

1. Areas with wheel path rutting in excess of 3/8 inch when measured by placing a straightedge 12 feet long on the finished surface perpendicular to the center line and measuring the vertical distance between the finished surface and the lower edge of the straightedge
2. Areas exhibiting flushing

For a chip seal, acceptance is based on visual inspection for the following:

1. Uniform surface texture
2. Raveling, which consists of the separation of the aggregate from the asphaltic emulsion or asphalt binder
3. Flushing, which consists of the occurrence of a film of asphaltic material on the surface of the chip seal.
4. Streaking, which consists of alternating longitudinal bands of asphaltic emulsion or asphalt binder without uniform aggregate retention, approximately parallel with the lane line.

Areas of raveling, flushing or streaking that are greater than 0.5 sq ft are considered defective and must be repaired.

Raveling and streaking must be repaired by placing an additional layer of chip seal over the defective area.

For asphaltic emulsion or asphalt binder, acceptance is based on the Department's sampling and testing for compliance with the requirements for the quality characteristics specified.

For aggregate, acceptance is based on the Department's sampling and testing for compliance with the requirements shown in the following table:

Chip Seal Aggregate Acceptance Criteria

Quality characteristic	Test method	Requirements
Los Angeles Rattler loss (max, %) At 100 revolutions At 500 revolutions	California Test 211	10 40
Percent of crushed particles: Coarse aggregate (min, %) One-fractured face Two-fractured faces Fine aggregate (min, %) (Passing No. 4 sieve and retained on No. 8 sieve) One fractured face	AASHTO T 335	95 90 70
Flat and elongated particles (max by weight at 3:1, %)	ASTM D4791	10
Film stripping (max, %)	California Test 302	25
Durability (min)	California Test 229	52
Gradation (% passing by weight)	California Test 202	Aggregate Gradation table shown under Materials for the chip seal type specified.
Cleanness value (min)	California Test 227	80

If test results for the aggregate gradation do not comply with specifications, you may remove the chip seal represented by these tests or request that it remain in place with a payment deduction. The deduction is \$1.75 per ton for the aggregate represented by the test results.

If test results for aggregate cleanness value do not comply with the specifications, you may remove the chip seal represented by these tests or you may request that the chip seal remain in place with a pay deduction corresponding to the cleanness value shown in the following table:

Chip Seal Cleanness Value Deductions

Cleanness value	Deduction
80 or over	None
79	\$2.00 /ton
77-78	\$4.00 /ton
75-76	\$6.00 /ton

If the aggregate cleanness value is less than 75, remove the chip seal.

37-2.01B Materials

37-2.01B(1) General

Reserved

37-2.01B(2) Asphaltic Emulsions and Asphalt Binders

Reserved

37-2.01B(3) Aggregate

37-2.01B(3)(a) General

Aggregate must be broken stone, crushed gravel, or both.

Aggregate must comply with the requirements shown in the following table:

Chip Seal Aggregate Requirements

Quality characteristic	Test method	Requirements
Los Angeles Rattler loss (max, %) At 100 revolutions At 500 revolutions	California Test 211	10 40
Percent of crushed particles Coarse aggregate (min, %) One-fractured face Two-fractured faces Fine aggregate (min, %) (Passing No. 4 sieve and retained on No. 8 sieve) One fractured face	AASHTO T 335	95 90 70
Flat and elongated particles (max by weight at 3:1, %)	ASTM D4791	10
Film stripping (max, %)	California Test 302	25
Durability (min)	California Test 229	52
Gradation (% passing by weight)	California Test 202	Aggregate Gradation table shown under Materials for the chip seal type specified.
Cleanness value (min)	California Test 227	80

The authorized laboratory must conduct the Vialit test using the proposed asphaltic emulsion or asphalt binder and aggregate for compliance with the requirements shown in the following table:

Chip Retention Requirements

Quality characteristic	Test method	Requirement
Chip retention (%)	Vialit test method for aggregate in chip seals, French chip (Modified) ^a	95

^aThe asphaltic emulsion or asphalt binder must be within the field placement temperature range and application rate during specimen preparation. For asphalt binder cure the specimen for first 2 hours at 100 °F.

37-2.01B(3)(b) Precoated Aggregate

Precoating of aggregate must be performed at a central mixing plant. The plant must be authorized under the Department's *MPQP*.

When precoating aggregate, do not recombine fine materials collected in dust control systems.

Precoated aggregate must be preheated from 260 to 325 degrees F. Coat with any of the asphalts specified in the table titled "Performance Graded Asphalt Binder" in section 92. The asphalt must be from 0.5 to 1.0 percent by weight of dry aggregate. You determine the exact asphalt rate for precoating of aggregate.

Do not stockpile precoated aggregate.

37-2.01C Construction

37-2.01C(1) General

For chip seals on 2-lane, 2-way roadways, place a W8-7 (LOOSE GRAVEL) sign and a W13-1 (35) plaque at 2,000-foot maximum intervals along each side of the traveled way where aggregate is spread on a traffic lane and at public roads or streets entering the chip seal area. Place the 1st W8-7 sign in each direction where traffic first encounters the loose aggregate, regardless of which lane the aggregate is spread on. A W13-1 (35) plaque is not required where the posted speed limit is less than 40 mph.

For chip seals on freeways, expressways, and multilane conventional highways, place a W8-7, (LOOSE GRAVEL) sign and a W13-1 (35) plaque at 2,000-foot maximum intervals along the outside edge of the traveled way nearest to the lane worked on, at on ramps, and at public roads or streets entering the chip seal area. Place the 1st W8-7 sign where the aggregate starts with respect to the direction of travel on that lane. A W13-1 (35) plaque is not required where the posted speed limit is less than 40 mph.

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 must be 15 mph on 2-lane, two-way highways and 25 mph on multilane divided and undivided highways. Pilot cars must only use traffic lanes open to traffic.

On the days that closures are not allowed, you may use a moving closure to maintain the seal coat surface. The moving closure is only allowed during daylight hours when traffic will be the least inconvenienced and delayed. The Engineer determines the hours for the moving closure.

Maintain signs in place at each location until the final sweeping of the chip seal surface for that location is complete. Signs may be set on temporary portable supports with the W13-1 sign below the W8-7 sign or on barricades with the W13-1 sign alternating with the W8-7 sign.

Schedule chip seal activities so that the chip seals are placed on both lanes of the traveled way each work shift.

If traffic is routed over a surface where a chip seal application is intended, the chip seal must not be applied to more than half the width of the traveled way at a time, and the remaining width must be kept free of obstructions and open to traffic until the previously applied width is ready for traffic use.

Wherever maintenance sweeping of the chip seal surface is complete, place permanent traffic stripes and pavement markings within 10 days.

If you fail to place the permanent traffic stripes and pavement markings within the specified time, the Department withholds 50 percent of the estimated value of the chip seal work completed that has not received permanent traffic stripes and pavement markings.

37-2.01C(2) Equipment

Equipment for chip seals must include and comply with the following:

1. Aggregate haul trucks must have:
 - 1.1. Tailgate that discharge aggregate
 - 1.2. Device to lock onto the rear aggregate spreader hitch
 - 1.3. Dump bed that will not push down on the spreader when fully raised
 - 1.4. Dump bed that will not spill aggregate on the roadway when transferred to the spreader hopper
 - 1.5. Tarpaulin to cover precoated aggregate when haul distance exceeds 30 minutes or ambient temperature is less than 65 degrees F
2. Self-propelled aggregate spreaders must have:
 - 2.1. Aggregate hopper in the rear
 - 2.2. Belt conveyor that carries the aggregate to the front
 - 2.3. Spreading hopper capable of providing a uniform aggregate spread rate over the entire width of the traffic lane in 1 application.
3. Self-propelled power brooms must:
 - 3.1. Not be steel-tined brooms on emulsion chip seals
 - 3.2. Be capable of removing loose aggregate adjacent to barriers that prevent aggregate from being swept off the roadway, including curbs, gutters, dikes, berms, and railings
4. Pneumatic or foam filled rubber tired rollers must:
 - 4.1. Be an oscillating type at least 4 feet wide
 - 4.2. Be self-propelled and reversible
 - 4.3. Have tires of equal size, diameter, type, and ply
 - 4.4. Carry at least 3,000 lbs. of load on each wheel
 - 4.5. Have tires with an air pressure of 100 ± 5 psi or be foam filled

37-2.01C(3) Surface Preparation

Before applying chip seals, cover manholes, valve and monument covers, grates, or other exposed facilities located within the area of application, using a plastic or oil resistant construction paper secured by tape or adhesive to the facility being covered per 15 Existing Facilities. Reference the covered facilities with enough control points to relocate the facilities after the application of the chip seal.

Immediately before applying chip seals, clean the surface to receive a chip seal by removing any extraneous material affecting adhesion of the chip seal with the existing surface and drying. Use self-propelled power brooms to clean the existing pavement.

Clean all cracks in the surface to a minimum depth of $\frac{3}{4}$ " where feasible, removing dirt, vegetation, and other contaminants by means of compressed air, a router, or other such methods as approved by the Engineer.

Seal all cracks greater than or equal to $\frac{1}{4}$ inch in width on the roads. Seal the cracks with a Type 3 Crack Treatment Material that conforms to Section 37-5.02 of the Standard Specifications.

Crack sealing in accordance with the manufacturer's recommendations, and where directed by the Engineer.

Removal of blue hydrant markers, and rumble strips including preparation, grinding, clean up, and disposal is included under Surface Preparation (Crack Sealing and Sweeping)

Traffic striping less than 6" in width need not be removed prior to installation of chip seal. Removal of markers on both painted traffic stripe and thermoplastic traffic stripe will be paid by the linear feet of the detail.

Removal of pavement markers are paid per Section 84-2.

37-2.01C(4) Placement

37-2.01C(4)(a) General

Schedule the operations so that chip seals are placed on both lanes of the traveled way each work shift. At the end of the work shift, the end of the chip seals on both lanes must generally match.

37-2.01C(4)(b) Applying Asphaltic Emulsions or Asphalt Binders

Prevent spraying on existing pavement not intended for chip seals or on previously applied chip seals using a material such as building paper. Remove the material after use.

Align longitudinal joints between chip seal applications with designated traffic lanes.

For asphaltic emulsion or asphalt binder, overlap longitudinal joints by not more than 4 inches. You may overlap longitudinal joints up to 8 inches if authorized.

For areas not accessible to a truck distributor bar apply:

1. Asphaltic emulsions by hand spraying
2. Asphalt binders with a squeegee or other authorized means

You may overlap the asphaltic emulsion or asphalt binder applications before the application of aggregate at longitudinal joints.

Do not apply the asphaltic emulsion or asphalt binder unless there is sufficient aggregate at the job site to cover the asphaltic emulsion or asphalt binder.

Discontinue application of asphaltic emulsion or asphalt binder early enough to comply with lane closure requirements. Apply to 1 lane at a time and cover the lane width entirely in 1 operation.

37-2.01C(4)(c) Spreading Aggregates

37-2.01C(4)(c)(i) General

Prevent vehicles from driving on asphaltic emulsion or asphalt binder before spreading aggregate.

Spread aggregate within 10 percent of your determined rate.

Spread aggregate at a uniform rate over the full lane width in 1 application. Apply to 1 lane at a time.

Sweep excess aggregate at joints before spreading adjacent aggregate.

Operate the spreader at speeds slow enough to prevent aggregate from rolling over after dropping.

If the spreader is not moving, aggregate must not drop. If you stop spreading and aggregate drops, remove the excess aggregate before resuming activities.

37-2.01C(4)(c)(ii) Precoated Aggregate Application

During transit, cover precoated aggregate with tarpaulins if the ambient air temperature is below 65 degrees F or the haul time exceeds 30 minutes.

When applied, precoated aggregate must be from 225 to 325 degrees F.

37-2.01C(4)(d) Finishing

37-2.01C(4)(d)(i) General

Remove piles, ridges, or unevenly distributed aggregate. Repair permanent ridges, bumps, streaks or depressions in the finished surface. Spread additional aggregate and roll if aggregate is picked up by rollers or vehicles.

Chip seal joints between adjacent applications of a chip seal must be smooth, straight, uniform, and completely covered.

A coverage is 1 roller movement over the entire width of lane. A pass is 1 roller movement parallel to the chip seal application in either direction. Overlapping passes are part of the coverage being

made and are not part of a subsequent coverage. Do not start a new coverage until completing the previous coverage.

Before opening to traffic, finish the chip seals in the following sequence:

1. Perform initial rolling consisting of 1 coverage with a pneumatic-tired roller
2. Perform final rolling consisting of 2 coverages with a pneumatic-tired roller
3. Sweep excess aggregate from the roadway and adjacent abutting areas
4. Apply a flush coat if specified
5. Remove covers from the facilities

37-2.01C(4)(d)(ii) Traffic Control With Pilot Car

For 2-lane 2-way roadways under 1-way traffic control, upon completion of final rolling, traffic must be controlled with pilot cars and routed over the new chip seal for a period of 2 to 4 hours before opening the lane to traffic not controlled with pilot cars.

For multilane roadways, when traffic is controlled with pilot cars, a maximum of 1 lane in the direction of travel must be open to traffic. Traffic must be controlled with pilot cars and be routed on the new chip seal surface of the lane for a minimum of 2 hours after completion of the initial sweeping and before opening the lane to traffic not controlled with pilot cars. Once traffic controlled with pilot cars is routed over the chip seal at a particular location, continuous control must be maintained at that location until the chip seal placement and sweeping on adjacent lanes to receive a chip seal is completed.

37-2.01C(4)(d)(iii) Sweeping

Sweeping must be performed after the chip seal has set and there is no damage or dislodging of aggregate from the chip seal surface. As a minimum, sweeping is required at the following times:

1. On 2-lane 2-way roadways, from 2 to 4 hours after traffic, controlled with pilot cars, has been routed on the chip seal
2. On multilane roadways, from 2 to 4 hours after aggregate have been placed
3. In addition to previous sweeping, perform final sweeping immediately before opening any lane to public traffic, not controlled with pilot cars

37-2.01C(4)(d)(iv) Excess Aggregate

Dispose of excess aggregate. If ordered, salvaging and stockpiling of excess aggregate is change order work.

37-2.01C(4)(e) Chip Seal Maintenance

Perform sweeping on the morning following the application of aggregate on any lane that has been open to traffic not controlled with pilot cars and before starting any other activities.

Chip seal surfaces must be maintained for 4 consecutive days from the day aggregate is applied. Maintenance must include sweeping to maintain a surface free of loose aggregate and to prevent formation of corrugations. Sweeping must not dislodge aggregate set in asphaltic emulsion or asphalt binder.

After 4 consecutive days, excess aggregate must be removed from the paved areas.

37-2.01D Payment

The contract bid unit price paid per square yard for Surface Preparation (Crack Sealing and Sweeping) includes full compensation for crack cleaning, crack sealing, preparatory sweeping, and removal of hydrant markers, and rumble strips.

If there is no bid item for traffic control system, furnishing and using a pilot car is included in the various items of the work involved in applying the chip seal.

The payment quantity for precoated aggregate is the weight measured after the aggregate is preheated and precoated with asphalt binder.

If recorded batch weights are printed automatically, the payment quantity for aggregate is the weight determined from the printed batch weights if:

1. Total weight for the precoated aggregate per batch is printed
2. Total asphalt binder weight per batch is printed
3. Zero tolerance weight is printed before weighing the first batch and after weighing the last batch for each truckload
4. Time, date, mix number, load number, and truck identification are correlated with a load slip
5. Copy of the recorded batch weights is certified by a licensed weighmaster

37-2.04 ASPHALT RUBBER BINDER CHIP SEALS

37-2.04A General

37-2.04A(1) Summary

Section 37-2.04 includes specifications for applying asphalt rubber binder chip seals.

An asphalt rubber binder chip seal consists of applying asphalt rubber binder followed by heated aggregate precoated with asphalt binder.

37-2.04A(2) Definitions

crumb rubber modifier: Combination of ground or granulated high natural scrap tire crumb rubber and scrap tire crumb rubber derived from waste tires described in Pub Res Code § 42703.

descending viscosity reading: Subsequent viscosity reading at least 5 percent lower than the previous viscosity reading.

high natural scrap tire crumb rubber: Material containing 40 to 48 percent natural rubber.

scrap tire crumb rubber: Any combination of vehicle tires or tire buffing.

37-2.04A(3) Submittals

At least 5 business days before use, submit the permit issued by the local air district for asphalt rubber binder field blending equipment and application equipment. If an air quality permit is not required by the local air district for producing asphalt rubber binder, submit verification from the local air district that an air quality permit is not required.

For each delivery of asphalt rubber binder ingredients to the job site, submit a certificate of compliance with a copy of the specified test results.

Submit a certified volume or weight slip for each delivery of asphalt rubber binder ingredients and asphalt rubber binder and Certificate of Compliance or Certificate of Origin for the crumb rubber modifier.

Submit a SDS for each asphalt rubber binder ingredient and the asphalt rubber binder.

At least 15 days before use, submit:

1. Samples of each asphalt rubber binder ingredient:
 - 1.1. 2 lbs of scrap tire crumb rubber
 - 1.2. 2 lbs of high natural scrap tire crumb rubber
 - 1.3. Two 1-quart cans of base asphalt binder
 - 1.4. Two 1-quart cans of asphalt modifier
2. Asphalt rubber binder formulation and data as follows:
 - 2.1. For asphalt modifier, include:
 - 2.1.1. Source of asphalt modifier
 - 2.1.2. Type of asphalt modifier
 - 2.1.3. Percentage of asphalt modifier by weight of asphalt binder
 - 2.1.4. Percentage of combined asphalt binder and asphalt modifier by weight of asphalt rubber binder
 - 2.1.5. Test results for the specified quality characteristics
 - 2.2. For crumb rubber modifier, include:
 - 2.2.1. Each source and type of scrap tire crumb rubber and high natural scrap tire crumb rubber
 - 2.2.2. Percentage of scrap tire crumb rubber and high natural scrap tire crumb rubber by total weight of asphalt rubber binder
 - 2.2.3. Test results for the specified quality characteristics
 - 2.3. For asphalt rubber binder, include minimum reaction time and temperature

Immediately after sampling, submit five 1-quart cans of asphalt rubber binder taken in the presence of the Engineer. Sample must be submitted in insulated shipping containers.

Submit notification 15 minutes before each viscosity test or submit a schedule of testing times.

Submit the log of asphalt rubber binder descending viscosity test results within 1 business day after sampling.

Submit asphalt rubber binder quality control viscosity test results within 1 business day after sampling.

37-2.04A(4) Quality Assurance

37-2.04A(4)(a) General

The equipment used in producing asphalt rubber binder and the equipment used in spreading asphalt rubber binder must be permitted for use or exempted by the local air district.

37-2.04A(4)(b) Quality Control

37-2.04A(4)(b)(i) General

Reserved

37-2.04A(4)(b)(ii) Asphalt Modifiers

For asphalt modifiers, the authorized laboratory must perform quality control sampling and testing at the specified frequency for the following quality characteristics:

Asphalt Modifier for Asphalt Rubber Binder		
Quality characteristic	Test method	Frequency
Viscosity	ASTM D445	1 per shipment
Flash point	ASTM D92	
Molecular Analysis:		
Asphaltenes	ASTM D2007	1 per shipment
Aromatics	ASTM D2007	

37-2.04A(4)(b)(iii) Crumb Rubber Modifiers

Sample and test scrap tire crumb rubber and high natural scrap tire crumb rubber separately.

Perform quality control sampling and testing at the specified frequency for the following quality characteristics:

Crumb Rubber Modifier

Quality characteristic	Test method	Frequency
Scrap tire crumb rubber gradation	California Test 385	1 per 10,000
High natural scrap tire crumb rubber gradation	California Test 385	1 per 3,400 lb
Wire in CRM	California Test 385	1 per 10,000 lb
Fabric in CRM	California Test 385	
CRM particle length	--	
CRM specific gravity	California Test 208	1 per 3,400 lb
Natural rubber content in high natural scrap tire crumb rubber	ASTM D297	

37-2.04A(4)(b)(iv) Asphalt Rubber Binders

For asphalt rubber binders, the authorized laboratory must perform quality control sampling and testing at the specified frequency and location for the following quality characteristics:

Asphalt Rubber Binder Quality Control Requirements

Quality characteristic	Test method	Sampling location	Frequency
Descending viscosity ^a at 375 °F (Pa•s x 10 ⁻³)	ASTM D7741	Reaction vessel	1 per lot ^b
Viscosity at 375 °F (Pa•s x 10 ⁻³)	ASTM D7741	Distribution truck	15 minutes before use per lot ^b
Cone penetration at 25 °C (0.10 mm)	ASTM D217	Distribution truck	1 per lot ^b
Resilience at 25 °C (% rebound)	ASTM D5329		
Softening point (°C)	ASTM D36		

^aStart taking viscosity readings at least 45 minutes after adding crumb rubber modifier and continue taking viscosity readings every 30 minutes until 2 consecutive descending viscosity readings have been obtained and the final viscosity complies with the specification requirement.

^bA lot is defined in the *MPQP*.

Retain samples from each lot. Test samples for cone penetration, resilience, and softening point for the first 3 lots and if all 3 lots pass, the testing frequency may be reduced to once for every 3 lots.

If QC test results indicate that the asphalt rubber binder does not comply with the specifications, take corrective action and notify the Engineer.

37-2.04A(4)(c) Department Acceptance

37-2.04A(4)(c)(i) General

Reserved

37-2.04A(4)(c)(ii) Asphalt Modifiers

The Department accepts asphalt modifier based on compliance with the requirements shown in the following table:

Asphalt Modifier for Asphalt Rubber Binder

Quality characteristic	Test method	Requirement
Viscosity at 100 °C ($\text{m}^2/\text{s} \times 10^{-6}$)	ASTM D445	$X \pm 3^a$
Flash point (min, °C)	ASTM D92	207
Molecular Analysis:		
Asphaltenes (max, % by mass)	ASTM D2007	0.1
Aromatics (min, % by mass)	ASTM D2007	55

^aThe symbol "X" is the asphalt modifier viscosity.

37-2.04A(4)(c)(iii) Crumb Rubber Modifiers

Scrap tire CRM and high natural CRM are sampled and tested separately.

The Department accepts scrap tire CRM and high natural CRM based on compliance with the requirements shown in the following table:

Crumb Rubber Modifier for Asphalt Rubber Binder

Quality characteristic	Test method	Requirement
Wire in CRM (max, %)	California Test 385	0.01
Fabric in CRM (max, %)	California Test 385	0.05
CRM particle length (max, in)	--	3/16
CRM specific gravity	California Test 208	1.1–1.2
Natural rubber content in high natural CRM (%)	ASTM D297	40.0–48.0

The Department accepts CRM gradation based on the requirements shown in the following table:

Material	Gradation test result ^a	Deduction
Scrap tire crumb rubber	Operating range < TR < Contract compliance	\$250
Scrap tire crumb rubber	TR > Contract compliance	\$1,100
High natural scrap tire crumb rubber	Operating range < TR < Contract compliance	\$250
High natural scrap tire crumb rubber	TR > Contract compliance	\$600

^aTest Result = TR

Each gradation test for scrap tire crumb rubber represents 10,000 lb or the quantity used in that day's production, whichever is less.

Each gradation test for high natural scrap tire crumb rubber represents 3,400 lb or the quantity used in that day's production, whichever is less.

37-2.04A(4)(c)(iv) Asphalt Rubber Binders

For Department acceptance testing, take a sample of asphalt rubber binder in the Engineer's presence every 5 lots or once a day, whichever is greater. Each sample must be in five 1-quart cans with an open top and friction lid.

For an asphalt rubber binder, acceptance is based on the Department's sampling and testing for compliance with the requirements shown in the following table:

Asphalt Rubber Binder		
Quality characteristic	Test method	Requirement
Cone penetration at 25 °C (0.10 mm)	ASTM D217	25–60
Resilience at 25 °C (% rebound)	ASTM D5329	18–50
Softening point (°C)	ASTM D36	55–88
Viscosity at 375 °F (Pa•s x 10 ⁻³) ^a	ASTM D7741	1,500–2,500

^aPrepare sample for viscosity test under California Test 388.

37-2.04A(4)(c)(v) Precoated Aggregate

The Department accepts precoated aggregate based on compliance with the requirements shown in the following table:

Precoated Aggregate Gradation Acceptance Criteria

Quality Characteristic	Test method	Requirement
1/2" gradation (% passing by weight) Sieve size: 3/4" 1/2" 3/8" No. 4 No. 8 No. 200	California Test 202	100 85–90 0–30 0–5 -- 0–1
3/8" gradation (% passing by weight) Sieve size: 3/4" 1/2" 3/8" No. 4 No. 8 No. 200	California Test 202	100 95–100 70–85 0–15 0–5 0–1

Add to the end of the table in section 37-2.04A(4)(c)(v) of the RSS for section 37:

Coarse 1/2" gradation (% passing by weight) Sieve size: 3/4" 1/2" 3/8" No. 4 No. 8 No. 200	California Test 202	100 75–90 0–20 0–2 -- 0–1
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37-2.04B Materials

37-2.04B(1) General

Reserved

37-2.04B(2) Asphalt Binders

Asphalt binder used as the base binder for asphalt rubber binder must comply with the specifications for asphalt binder. Do not modify asphalt binder with polymer.

Asphalt binder for asphalt rubber binder chip seal must be Grade PG 64-16.

37-2.04B(4) Crumb Rubber Modifiers

The CRM to be used must be on the Authorized Materials List for crumb rubber modifier.

The CRM must be ground or granulated at ambient temperature.

Scrap tire crumb rubber and high natural scrap tire crumb rubber must be delivered to the asphalt rubber binder production site in separate bags.

Only California-generated waste tires, processed in California, can be used in the crumb rubber portion of the project(s).

Steel and fiber must be separated. If steel and fiber are cryogenically separated, it must occur before grinding and granulating. Cryogenically-produced CRM particles must be large enough to be ground or granulated.

The CRM must be dry, free-flowing particles that do not stick together. A maximum of 3 percent calcium carbonate or talc by weight of CRM may be added. The CRM must not cause foaming when combined with the asphalt binder and asphalt modifier.

37-2.04B(5) Asphalt Rubber Binders

An asphalt rubber binder must be a combination of:

1. Asphalt binder
2. Asphalt modifier
3. Crumb rubber modifier

Asphalt rubber binder blending equipment must be authorized under the Caltrans Department's *MPQP*.

The blending equipment must allow the determination of weight percentages of each asphalt rubber binder ingredient.

An asphalt rubber binder must be 79 ± 1 percent by weight asphalt binder and 21 ± 1 percent by weight of CRM. The minimum percentage of CRM must be 20.0 percent and lower values must not be rounded up.

The minimum percentage by weight of scrap tire crumb rubber must be at least 15% of the asphalt rubber binder.

The CRM must be 75 ± 2 percent by weight scrap tire crumb rubber and 25 ± 2 percent by weight high natural scrap tire crumb rubber.

An asphalt modifier and asphalt binder must be blended at the production site. An asphalt modifier must be from 2.5 to 6.0 percent by weight of the asphalt binder in the asphalt rubber binder. The asphalt rubber binder supplier determines the exact percentage.

If blended before adding CRM, the asphalt binder must be from 375 to 440 degrees F when an asphalt modifier is added, and the mixture must circulate for at least 20 minutes. An asphalt binder, asphalt modifier, and CRM may be proportioned and combined simultaneously.

The blend of an asphalt binder and an asphalt modifier must be combined with the CRM at the asphalt rubber binder production site. The asphalt binder and asphalt modifier blend must be from 375 to 440 degrees F when the CRM is added. Combined ingredients must be allowed to react at least 45 minutes at temperatures from 375 to 425 degrees F except the temperature must be at least 10 degrees F below the flash point of the asphalt rubber binder.

After reacting, the asphalt rubber binder must comply with the requirements shown in the following table:

Asphalt Rubber Binder		
Quality characteristic	Test method	Requirement
Cone penetration at 25 °C (0.10 mm)	ASTM D217	25–60
Resilience at 25 °C (% rebound)	ASTM D5329	18–50
Softening point (°C)	ASTM D36	55–88
Viscosity at 375 °F (Pa•s x 10 ⁻³) ^a	ASTM D7741	1,500–2,500

^aPrepare sample for viscosity test under California Test 388.

Maintain asphalt rubber binder at a temperature from 375 to 415 degrees F.

Stop heating unused asphalt rubber binder 4 hours after the 45-minute reaction period. Reheating asphalt rubber binder that cools below 375 degrees F is a reheat cycle. Do not exceed 2 reheat cycles. If reheating, the asphalt rubber binder must be from 375 to 415 degrees F before use.

During reheating, you may add CRM. The CRM must not exceed 10 percent by weight of the asphalt rubber binder. Allow added CRM to react for at least 45 minutes. Reheated asphalt rubber binder must comply with the specifications for asphalt rubber binder.

37-2.04B(6) Precoated Aggregate

Aggregate for asphalt rubber chip seal must comply with the 3/8" gradation.

Before precoating with asphalt binder, aggregate for an asphalt rubber binder chip seal must comply with the gradation requirements shown in the following table:

37-2.04C(2) Equipment

Distributor trucks must be equipped with:

1. Mixing and heating unit
2. Observation platform on the rear of the truck for an observer on the platform to see the nozzles and unplug them if needed

37-2.04C(3) Asphalt Rubber Binder Application

Apply the asphalt rubber binder when the ambient temperature is from 60 to 105 degrees F and the pavement surface temperature is at least 55 degrees F.

Do not apply the asphalt rubber binder unless enough aggregate is available at the job site to cover the asphalt rubber binder within 2 minutes. Intersections, turn lanes, gore points, and irregular areas must be covered within 15 minutes.

Do not apply asphalt rubber binder when pavement is damp or during high wind conditions. If authorized, you may adjust the distributor bar height and distribution speed and use shielding equipment during high wind conditions.

When applied, the temperature of the asphalt rubber binder must be from 385 to 415 degrees F.

Apply the asphalt rubber binder at a rate from .6 gal/sq yd. You may reduce the application rate by 0.050 gal/sq yd in the wheel paths.

37-2.04C(4) Precoated Aggregate Spreading

Spread aggregate at a rate from 32-35 lb/sq yd. Do not spread aggregate more than 200 feet ahead of the completed initial rolling.

37-2.04C(5) Rolling and Sweeping

Perform initial rolling within 90 seconds of spreading aggregate. If authorized for final rolling, you may use a steel-wheeled roller weighing from 8 to 10 tons in static mode only.

Perform a final sweeping before Contract acceptance. The final sweeping must not dislodge aggregate.

37-2.04D Payment

The contract bid unit price paid per square yard for Asphalt Rubber Chip Seal (Placement) includes full compensation for the installation of the asphalt rubber chip seal, compacting, sweeping, protecting in place, and the miscellaneous work to install chip seal.

The contract bid unit price paid per ton for Screenings (Medium 3/8") includes full compensation for furnishing and delivery of the asphalt rubber chip rock as specified in the section above. The quantity of screenings will be determined based on the total square yardage of Asphalt Rubber Chip Seal (Placement) and the combined average of spread rates as determined in the field between the range specified in 37-2.04C(4). The County will not compensate for additional screenings placed beyond 10% of the specified range.

The contract bid unit price paid per ton for Asphalt Rubber Binder (Modified) includes full compensation for furnishing and delivery of the asphalt rubber binder material as specified in the section above. The amount of binder will be determined based on the total square yardage of Asphalt Rubber Chip Seal (Placement) and the combined average of spread rates as determined in

the field between the range specified in 37-2.04C(3) The County will not compensate for additional binder material placed beyond 10% of the specified range.

37-3 SLURRY SEALS AND MICRO-SURFACINGS

37-3.01A General

37-3.01A(1) Summary

Section 37-3.01 includes general specifications for applying slurry seals and micro-surfacings. Microsurface to be Type II.

37-3.01A(2) Definitions

Reserved

37-3.01A(3) Submittals

At least 15 days before starting placement of a slurry seal or micro-surfacing, submit:

1. Samples for:
 - 1.1. Asphaltic emulsion slurry seal, two 1-quart wide mouth plastic containers with screw top lid of asphaltic emulsion
 - 1.2. Polymer modified asphaltic emulsion slurry seal, two 1-quart wide mouth plastic containers with screw top lid of polymer modified asphaltic emulsion
 - 1.3. Micro-surfacing, two 1-quart wide mouth plastic containers with screw top lid of micro-surfacing emulsion
2. Asphaltic emulsion, polymer modified asphaltic emulsion, or micro-surfacing emulsion data as follows:
 - 2.1. Supplier and Type/Grade of asphaltic emulsion
 - 2.2. Type of modifier polymer for polymer modified asphaltic emulsion or micro-surfacing emulsion
 - 2.3. Copy of the specified test results for asphaltic emulsion, polymer modified asphaltic emulsion, or micro-surfacing emulsion
3. 50 lb. of aggregate
4. Aggregate test results for the followings:
 - 4.1. Gradation
 - 4.2. Los Angeles Rattler
 - 4.3. Percent of crushed particles
 - 4.4. Sand equivalent
 - 4.5. Durability

At least 10 days before starting placement of a slurry seal or micro-surfacing, submit a laboratory report of test results and the proposed mix design from an authorized laboratory. The authorized laboratory must sign the laboratory report and mix design.

The report must include:

1. Test results used in the mix design compared with specification requirements
2. Proportions based on the dry weight of aggregate, including ranges, for:
 - 2.1. Aggregate
 - 2.2. Water
 - 2.3. Additives
 - 2.4. Mineral filler
 - 2.5. Slurry seal emulsion or micro-surfacing emulsion residual asphalt content
3. Recommended changes to the proportions based on heating the mixture to 100 degrees F and mixing for 60 seconds, if atmospheric temperatures during application will be 90 degrees F or above, for:
 - 3.1. Water
 - 3.2. Additives
 - 3.3. Mineral filler
4. Quantitative moisture effects on the aggregate's unit weight determined under ASTM C29M

If the mix design consists of the same materials covered by a previous laboratory report, you may submit the previous laboratory report that must include material testing data performed within the previous 12 months for authorization.

If you change any of the materials in the mix design, submit a new mix design and laboratory report at least 10 days before starting slurry seal or micro-surfacing work.

Submit a certificate of compliance as specified for asphaltic emulsion in section 94-1.01C with each shipment of asphaltic emulsion, polymer modified asphaltic emulsion or micro-surfacing emulsion.

Submit quality control test results for the quality characteristics within the reporting times allowance after sampling shown in the following table:

Quality Control Test Reporting Requirements

Quality characteristic	Maximum reporting time allowance
Los Angeles Rattler loss (max, %)	2 business days

Percent of crushed particles (min, %)	2 business days
Durability (min)	2 business days
Resistance of fine aggregate to degradation by abrasion in the Micro-Deval Apparatus (% loss by weight)	2 business days
Gradation (% passing by weight)	48 hours
Sand equivalent (min)	48 hours
Moisture content (%)	48 hours

Within 3 days after taking asphaltic emulsion, polymer modified asphaltic emulsion or micro-surfacing emulsion quality control samples, submit the authorized laboratory's test results.

37-3.01A(4) Quality Assurance

37-3.01A(4)(a) General

Your authorized laboratory must be able to perform International Slurry Surfacing Association tests and mix design.

37-3.01A(4)(b) Quality Control

37-3.01A(4)(b)(i) General

Reserved

37-3.01A(4)(b)(ii) Aggregate

For aggregate, the authorized laboratory must perform sampling and testing at the specified frequency and location for the following quality characteristics:

Aggregate Quality Control

Quality characteristic	Test method	Minimum sampling and testing frequency	Location of sampling
Los Angeles Rattler loss (max, %) At 500 revolutions	California Test 211	1st day of production	See California Test 125
Percent of crushed particles (min, %)	AASHTO T 335	1st day of production	See California Test 125

Sand equivalent (min)	California Test 217	1 per working stockpile per day	See California Test 125
Resistance of fine aggregate to degradation by abrasion in the Micro-Deval Apparatus (% loss by weight)	ASTM D7428	1 per working stockpile per day	See California Test 125
Gradation (% passing by weight)	California Test 202	1 per working stockpile per day	See California Test 125
Moisture content, from field stockpile (%)	AASHTO T 255 ^a	1 per working stockpile per day	See California Test 125

^aTest aggregate moisture at field stockpile every 2 hours if you are unable to maintain the moisture content to within a maximum daily variation of ± 0.5 percent.

37-3.01A(4)(b)(iii) Slurry Seals and Micro-surfacings

Reserved

An aggregate gradation test represents 300 tons or 1 day's production, whichever is less.

If test results for aggregate gradation do not comply with the specifications, you may remove the slurry seal or micro-surfacing represented by the test results or request it remain in place with a payment deduction. If your request is authorized, the Department deducts:

1. \$1.75 per ton of slurry seal for each noncompliant aggregate gradation
2. \$2.00 per ton of micro-surfacing for each noncompliant aggregate gradation

37-3.01B Materials

37-3.01B(1) General

Additional water must not cause separation of the asphaltic emulsion, polymer modified asphaltic emulsion or micro-surfacing emulsion from the aggregate before placement.

You may use an additive that does not adversely affect the slurry seal or micro-surfacing.

37-3.01B(2) Aggregate

Aggregate for micro-surface must be Type II.

37-3.01C Construction

37-3.01C(1) General

Before applying slurry seals or micro-surfacings, cover manholes, valve and monument covers, grates, and other exposed facilities located within the area of application using plastic or oil resistant construction paper secured by tape or adhesive to the facility being covered. Reference the covered facilities with enough control points to relocate the facilities after application of the slurry seals or micro-surfacings.

37-3.01C(2) Proportioning

Proportion slurry seal and micro-surfacing ingredients in compliance with the authorized mix design.

37-3.01C(3) Mixing and Spreading Equipment

37-3.01C(3)(a) General

Use a continuous self-loading mixing machine except you may use truck mounted mixer spreaders on any of the following:

1. Radii
2. Side streets
3. Gore areas
4. Areas requiring hand work

Mixing and spreading equipment for slurry seals and micro-surfacings must proportion the asphaltic emulsions, water, aggregate, and any additives by volume and mix them in continuous pug mill mixers.

Introduce emulsions into the mixer with a positive displacement pump. If you use a variable-rate pump, the adjusting unit must be sealed in its calibrated position.

Introduce water into the mixer through a meter that measures gallons.

Choose a truck mounted mixer-spreader or continuous self-loading mixer spreader.

37-3.01C(3)(b) Truck Mounted Mixer Spreaders

Truck mounted mixer spreaders must comply with:

1. Rotating and reciprocating equipment must be covered with metal guards.
2. Proportion aggregate using a belt feeder with an adjustable cutoff gate. The Engineer verifies the height of the gate opening.
3. Belt feeder must have a depth monitor device. The depth monitor device must automatically shut down power to the belt feeder when the aggregate depth is less than 70 percent of the target depth.

4. Separate monitor device must detect the revolutions of the belt feeder. This device must automatically shut down power to the belt feeder if it detects no revolutions. If the belt feeder is an integral part of the equipment's drive chain, the monitor device is not required.
5. Aggregate belt feeder must be connected directly to the drive on the emulsion pump. The aggregate feeder drive shaft must have a revolution counter reading the nearest 0.10 revolution for micro-surfacing, and nearest 1 revolution for slurry seal.
6. Emulsion storage must be equipped with a device that automatically shuts down power to the emulsion pump and aggregate belt feeder when the level of stored emulsion is lowered. To allow for normal fluctuations, there may be a delay of 3 seconds between detection of low emulsion storage levels or low aggregate depths and automatic power shut down.
7. Emulsion storage must be located immediately before the emulsion pump.
8. Emulsion storage tank must have a temperature indicator at the pump suction level. The indicator must be accurate to ± 5 degrees F.
9. No-flow and revolution warning devices must be in working condition. Low-flow indicators must be visible while walking alongside the equipment.

37-3.01C(3)(c) Continuous Self-Loading Mixer Spreaders

Continuous self-loading mixer spreaders must be automatically sequenced and self-propelled. The mixing machine must deliver each material to a double shafted mixer and discharge the mixed material on a continuous flow basis. The mixing machines must have sufficient storage capacity to maintain a continuous supply of material to the proportioning controls. The mixing machine operators must have full control of forward and reverse speeds during placement.

37-3.01C(3)(d) Spreader Boxes

The spreader boxes used to spread slurry seals and micro-surfacings must be:

1. Capable of spreading the slurry seal or micro-surfacing a minimum of 12 feet wide and preventing the loss of slurry seal or micro-surfacing.
2. Equipped with flexible rubber belting on each side. The belting must contact the pavement to prevent the loss of slurry seal or micro-surfacing from the box.
3. Equipped to uniformly apply the slurry seal or micro-surfacing on superelevated sections and shoulder slopes. Micro-surfacing spreader box must be equipped with reversible motor driven augers.
4. Equipped with a series of strike-off devices at its rear.
 - 4.1. The leading strike off device must be:
 - 4.1.1. Fabricated of a suitable material such as steel or stiff rubber
 - 4.1.2. Designed to maintain close contact with the pavement during spreading
 - 4.1.3. Capable of obtaining the specified thickness

- 4.1.4. Capable of being adjusted to the various pavement cross sections
- 4.2. The final strike-off device must be:
 - 4.2.1. Fabricated of flexible material that produces a uniform texture in the finished surface
 - 4.2.2. Cleaned daily and changed if longitudinal scouring occurs in the slurry seal or micro-surfacing
- 5. Clean and free of slurry seal or micro-surfacing at the start of each work shift.

37-3.01C(3)(e) Shoulder Equipment

Spread the slurry seal or micro-surfacing on shoulders with a device such as an edge box that forms clean and straight joints and edges.

37-3.01C(3)(f) Equipment Calibration

Equipment calibration must comply with the *MPQP*. Notify the Engineer at least 5 business days before calibrating.

If the Department authorizes a truck or continuous mixer spreader, its calibration is valid for 6 months provided you:

- 1. Use the same truck or continuous mixer spreader verified with a unique identifying number
- 2. Use the same materials in compliance with the authorized mix design
- 3. Do not perform any repair or alteration to the proportioning systems

Calibrate the adjustable cut-off gate settings of each truck or continuous mixer spreader on the project to achieve the correct delivery rate of aggregate and emulsion per revolution of the aggregate feeder under the *MPQP*.

Checks must be performed for each aggregate source using an authorized vehicle scale.

Individual checks of the aggregate belt feeder's delivery rate to the pug mill mixer must not vary more than 2 percent from the average of 3 runs of at least 3 tons each.

Before using a variable-rate emulsion pump, the pump must be calibrated and sealed in the calibrated condition under the *MPQP*.

Individual checks of the emulsion pump's delivery rate to the pug mill mixer must not vary more than 2 percent from the average of 3 runs of at least 500 gal each.

37-3.01C(4) Surface Preparation

Immediately before applying slurry seals or micro-surfacings, clean the surface to receive slurry seals or micro-surfacings by removing any extraneous material affecting adhesion of the slurry

seal or micro-surfacing with the existing surface. Use self-propelled power brooms or other methods such as flushing to clean the existing pavement.

37-3.01C(5) Placement

37-3.01C(5)(a) General

If truck-mounted mixer-spreaders are used, keep at least 2 operational spreaders at the job site during placement.

Spread slurry seals and micro-surfacings uniformly and do not spot, re-handle, or shift the mixture. However, in areas inaccessible to spreading equipment, spread the slurry seal or micro-surfacing mixtures with hand tools or other authorized methods. If placing with hand tools, lightly dampen the area first.

You may fog the roadway surface with water ahead of the spreader box. The fog spray must be adjusted for pavement:

1. Temperature
2. Surface texture
3. Dryness

You determine the application rates for slurry seals or micro-surfacings and the Engineer authorizes the application rates. Spread within 10 percent of authorized rate.

The mixtures must be uniform and homogeneous after spreading, and there must not be separation of the emulsion and aggregate after setting.

37-3.01C(5)(b) Weather Conditions

Only place slurry seals or micro-surfacings if both the pavement and air temperatures are at least 50 degrees F and rising. The expected high temperature must be at least 65 degrees F within 24 hours after placement.

Do not place slurry seals or micro-surfacings if rain is imminent or the air temperature is expected to be below 36 degrees F within 24 hours after placement.

37-3.01C(5)(c) Joints

Transverse and longitudinal joints must be:

1. Uniform
2. Straight
3. Neat in appearance
4. Without material buildup
5. Without uncovered areas

Transverse joints must be butt-type joints.

Prevent double placement at transverse joints over previously placed slurry seals or micro-surfacings.

Place longitudinal joints:

1. On centerlines, lane lines, edge lines, or shoulder lines
2. With overlaps not more than 4 inches

You may request other longitudinal joint patterns if they do not adversely affect the slurry seals or micro-surfacings.

The maximum difference between the pavement surface and the bottom edge of a 12-foot straightedge placed perpendicular to the longitudinal joint must be 0.04 foot.

37-3.01C(5)(d) Finished Surfaces

Finished slurry seals or micro-surfacings must be smooth and free of irregularities such as scratch or tear marks. You may leave up to 4 marks that are up to 1 inch wide and 6 inches long per 75 linear feet of slurry seal or micro-surfacing placed. Do not leave any marks that are over 1 inch wide or 6 inches long.

37-3.01C(5)(e) Maintenance Sweeping

Sweep the slurry seals or micro-surfacings 24 hours after placement without damaging the slurry seals or micro-surfacings. For 4 days afterwards, sweep the slurry seals or micro-surfacings daily unless determined otherwise by the Engineer.

37-3.01C(5)(f) Repair of Early Distress

The slurry seals or micro-surfacings must not show bleeding, raveling, separation, or other distresses for 15 days after placing. If bleeding, raveling, delaminating, rutting, or wash-boarding occurs after placing the slurry seals or micro-surfacings, make repairs using an authorized method.

37-3.01D Payment

Not Used

37-3.03 MICRO-SURFACINGS

37-3.03A General

37-3.03A(1) Summary

Section 37-3.03 includes specifications for applying micro-surfacings.

Applying a micro-surfacing consists of spreading a mixture of a micro-surfacing emulsion, water, additives, mineral filler, and aggregate on the pavement.

37-3.03A(2) Definitions

Reserved

37-3.03A(3) Submittals

Immediately after sampling, submit two 1-quart wide mouth plastic containers of micro-surfacing emulsion taken in the presence of the Engineer. Samples must be submitted in insulated shipping container.

37-3.03A(4)(b)(ii) Micro-surfacing Emulsions

Take samples from the truck tank at mid load from a sampling tap or thief. Before taking samples, draw and dispose of 1 gallon. In the presence of the Engineer, take two 1-quart wide mouth plastic containers for acceptance testing.

For a micro-surfacing emulsion, the authorized laboratory must perform quality control sampling and testing at the specified frequency and location for the quality characteristics shown in the following table:

37-3.03B Materials

37-3.03B(1) General

Reserved

37-3.03B(2) Micro-surfacing Emulsions

A micro-surfacing emulsion must be a homogeneous mixture of asphalt, an elastomeric polymer and an emulsifier solution.

Add an elastomeric polymer modifier to asphalt or emulsifier solution before emulsification. An elastomeric polymer solid must be a minimum of 3 percent by weight of the micro-surfacing emulsion's residual asphalt.

A micro-surfacing emulsion must comply with the requirements shown in the following table:

Micro-surfacing Emulsion Requirements

Quality characteristic	Test method	Requirement
Tests on emulsion:		
Saybolt Furol Viscosity at 25 °C (Saybolt Furol seconds)	AASHTO T 59	15–90
Sieve test (%)	AASHTO T 59	0.30
Storage stability, 1 day (max, %)	AASHTO T 59	0–1

Settlement ^a , 5 days (max, %)	ASTM D244	5
Residue by evaporation (min, %)	California Test 331	62
Tests on residue by evaporation:		
Penetration at 25 °C	AASHTO T 49	40–90
Softening point (min, °C)	AASHTO T 53	57

^aSettlement test on emulsion is not required if used within 48 hours of shipment.

37-3.03B(4) Mineral Fillers

If a mineral filler is used, it must be type I or type II Portland cement. A mineral filler used during mix design must be used during production.

37-3.03B(5) Micro-Surfacing Mix Designs

The micro-surfacing mix design must have the material proportion limits shown in the following table:

The micro-surfacing mix design must comply with the requirements shown in the following table:

37-3.03B(6) Tack Coats

If there is a bid item for tack coat, you must coat the pavement surface with an asphaltic emulsion mixed with additional water before applying a micro-surfacing. The maximum ratio of water to asphaltic emulsion must be 2 to 1. Apply the tack coat at a rate from 0.08 to 0.15 gal/sq. yd. The exact rate must be authorized.

You determine the grade of slow-setting or quick setting asphaltic emulsion to be used.

37-3.03C Construction

37-3.03C(1) General

Reserved

37-3.03C(2) Proportioning

Field conditions may require adjustments to the proportions within the authorized mix design during construction.

37-3.03C(3) Mixing and Spreading Equipment

37-3.03C(3)(a) General

Reserved

37-3.03C(3)(b) Scratch Course Boxes

Spread the scratch courses with the same type of spreader box used to spread micro-surfacings except use an adjustable steel strike-off device instead of a final strike-off device.

37-3.03C(3)(c) Wheel Path Depression Boxes

Each wheel path depression box must have adjustable strike-off device between 5 and 6 feet wide to regulate depth. The wheel path depression box must also have devices such as hydraulic augers capable of:

1. Moving the mixed material from the rear to the front of the filling chamber
2. Guiding larger aggregate into the deeper section of the wheel path depression
3. Forcing the finer material towards the outer edges of the spreader box

37-3.03C(4) Test Strips

If micro-surfacing placement will require more than 1 day, you must construct a test strip. The test strip must be:

1. From 300 to 450 feet long
2. The same as the full production micro-surfacing
3. On 1 of the application courses specified at an authorized location
4. At the same time of day or night the full production micro-surfacing is to be applied

If multiple application courses are specified, you may construct test strips over 2 days or nights.

The Engineer evaluates the test strip after traffic has used it for 12 hours. If the Engineer determines the mix design or placement procedure is unacceptable, make modifications and construct a new test strip for the Engineer's evaluation.

37-3.03C(5) Placement

37-3.03C(5)(a) General

Take special care to clean the pavement before applying modified binder seal coat. Immediately prior to modified binder seal coat application, thoroughly clean the street surface of all foreign material such as, but not limited to, leaves, sand, gravel, and dirt. The method of street cleaning need be by power vacuum and hand broom, sufficient to provide for a bond between the existing pavement surface and seal coat.

Remove all vegetation from cracks in pavement and at the interface of pavement and gutter prior to sweeping.

All vegetation and debris removed from the roadway surface becomes the property of the Contractor and must be disposed of outside the road right-of-way in accordance with Section 5-1.20B(4), "Contractor-Property Owner Agreement", Section 14 "Environmental Stewardship" and Section 15 "Existing Facilities" of the Standard Specifications and these special provisions.

The Contractor will allow at least 7 calendar days for the Micro-Surface Leveling Course to cure before application of Asphalt Rubber Chip seal on the roads requiring the Asphalt Rubber Chip.

37-3.03C(5)(b) Repair Wheel Path Depressions

If repairing wheel path depressions is shown in plans, fill wheel path depressions and irregularities with micro-surfacing material before spreading micro-surfacing. If the depressions are less than 0.04 foot deep, fill with a scratch course. If the depressions are 0.04 foot deep or more, fill the depressions using a wheel path depression box.

Spread scratch courses by adjusting the steel strike-off of a scratch course box until it is directly in contact with the pavement surface.

Spread micro-surfacings with a wheel path depression box leaving a slight crown at the surface. Use multiple applications to fill depressions more than 0.12 foot deep. Do not apply more than 0.12 foot in a single application.

Allow traffic to compact each filled wheel path depression for a minimum of 12 hours before placing additional micro-surfacings.

37-3.03C(5)(c) Micro-surfacing Pavement Surfaces

The required application rate is **12 pounds per square yard**. The completed spread rate must be within 10 percent of the specified spread rate.

Within 2 hours after placement, micro-surfacings must be set enough to allow traffic without pilot cars. Protect the micro-surfacings from damage until it has set and will not adhere or be picked up by vehicle tires. Micro-surfacings must not exhibit distress from traffic such as bleeding, raveling, separation or other distresses.

37-3.03D Payment

The payment compliance quantity for Micro-Surface is the weight determined by combining the weights of the aggregate and micro-surfacing emulsion. The payment quantity for micro-surfacing does not include the weights of added water, mineral filler, and additives.

Micro-surfacing weight is measured by combining the weight of the dry aggregate and the micro-surfacing emulsion. The weight of added water and set-control additives are not measured for payment. If test results and weight tags for dry aggregate weight, grading or sand equivalent do not comply with the specifications, the contractor must remove and reinstall the installed micro-surfacing represented by the non-compliant test results and/or weight tags.

Prior to each day's micro-surfacing operation, determine the area to be micro-surfaced and the proper amount of aggregate required for the operation. The County inspector will verify from the truck weight tags that the proper amount of aggregate is on site or en-route to ensure the contract specified aggregate coverage can be installed. At the start of each shift, provide to the County inspector gauge calibrations of the application trucks to verify proper amounts, within proportion limits, will be installed. The County inspector has the authority to stop and reject work if the amount of aggregate, emulsion, or additives are not in compliance with the specifications.

All repairs, if any, will be done by the Contractor, at the Contractor's expense, and no separate payment will be made.

The contract price paid at the bid unit rate per square yard for Micro-Surface includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all the work involved in Micro-surfacing, complete in place, as shown on the plans, as specified in the Standard Specifications, these Special Provisions.

Add to section 37-6.02B of the RSS for section 37:

Crack treatment material must be Type 5.

Crack treatment must be hot-applied.

39 ASPHALT CONCRETE

39-1 GENERAL

39-1.01 GENERAL

39-1.01A Summary

The asphalt binder mixed with aggregate for HMA Type A shall be Grade PG64-16. The aggregate for HMA Type A shall comply with ½" and ¾" grading for overlay.

HMA mix design will not include Liquid Antistrip Treatment, Aggregate Lime Treatment, or Warm Mix Asphalt Technology. Pavement Smoothness will be evaluated by the 12-foot straightedge specification in 39-3.04C (2).

The Contractor will prepare a Quality Control Plan to be submitted at least 5 working day before pavement operations begin.

39-1.01A (4)(f) Certifications

The contractor will supply Certificates of Compliance for the following:

- HMA
- Asphalt binder
- Asphalt modifier
- Reclaimed asphalt pavement (RAP)

39-2 HOT MIX ASPHALT

39-2.01 GENERAL

39-2.01A General

39-2.01A (3) Submittals

39-2.01A (3)(a) General

The only required submittal for HMA is the Job Mix Formula.

39-2.01A (3)(b) Job Mix Formula

The JMF is only required to contain the mix design documentation and the Safety Data Sheets for asphalt binder and supplemental fine aggregate except fines from dust collectors.

39-2.01B(10) Tack Coat

Apply tack coat to existing asphalt surfaces to be surfaced with HMA and between layers of asphalt concrete in accordance with the Standard Specifications, except when eliminated by the Engineer.

39-2.01C (8) Hot Mix Asphalt Leveling

The work consists of placing a leveling course of Type A, 3/8" maximum medium graded Hot Mix Asphalt (HMA) at areas shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

All areas to receive HMA leveling will be located within the limits of work boundaries and outlined in paint on the pavement surface. Outline painting will be completed prior to start of construction by the Engineer.

HMA must comply with "HMA," elsewhere in these special provisions.

Apply a tack coat (paint binder) to the marked areas in advance of placing the leveling layer of the HMA. Place a layer of leveling HMA at all areas marked by the Engineer to fill irregularities, ruts, voids, and depressions. A minimum thickness of 0.04 feet of leveling HMA must be placed at all locations.

Place the HMA leveling course by any mechanical means that will produce a relatively uniform and smooth surface tapered onto the existing asphalt with end thickness of no greater than 0.05 feet. Compact the HMA with a steel drum roller weighing no less than 8 tons.

Main line paving will be allowed to be placed on the HMA leveling course once the surface temperature has decreased below 150 Degrees Fahrenheit.

39-2.01D Payment

The contract bid unit price paid per Lump Sum for Quality Control Plan includes full compensation for developing, sampling, testing, implementing, and reporting the tests required in Section 39-2.02A(4).

The contract bid unit price paid per square yard for HMA Leveling Course (Placement) includes full compensations for installation, spreading, hand work, compaction, and clean up.

The contract bid unit price paid per tons for HMA Leveling Course (3/8" Type A – materials) includes full compensation for furnishing the materials, preparation, and trucking.

39-3.05 REMOVE BASE AND SURFACING (BASE FAILURE REPAIRS – DIG OUTS)

39-3.05A General

39-3.05C Construction

Where base and surfacing are to be removed, sawcut or grind the area and remove surfacing and base to a depth of 6" below the grade of the existing surface. Backfill the excavated area with two (2) lifts of 1/2" HMA (Type A).

39-3.05D Payment

The contract bid unit price paid per square yard for Base Failure Repairs – Dig-Outs includes full compensation for sawcutting the area, removing the surface and base, disposing the excavated materials, and placing permanent surfacing of 3/4" HMA (Type A), tack oil and compaction.

DIVISION VIII MISCELLANEOUS CONSTRUCTION

78 INCIDENTAL CONSTRUCTION

78-2 SURVEY MONUMENTS

78-2.01 GENERAL

78-2.02 MATERIALS

Install Monument Wells in conformance with the provision in Section 78-2, "Survey Monuments" and these Special Provisions. New monuments are to be selected at a later date at the discretion of the County Surveyor. Do not disturb a survey monument without authorization.

Selected rebars and caps to receive a new G5 type box with cover. Lids will be marked with the appropriate utility type. Monument Well frame and cover are included in the bid item price.

Use two sack slurry or minor concrete below two inches from finished grade. Cement Slurry to conform to Section 90-2, "Minor Concrete" of the Standard Specifications.

Hot Mix Asphalt (1/2" Type A) shall be used for the top two inches.

78-2.04 PAYMENT

The contract bid unit price paid by Each for Monument Well includes auguring, furnishing and placement of concrete to finish grade, placement of approved rated box, placing HMA from top of concrete to finished grade, or adding black dye to concrete surface to match pavement color if requested by the Engineer, resetting and/or replacing approved box and/or concrete if monument wells were damaged by traffic.

DIVISION IX TRAFFIC CONTROL DEVICES

84 MARKINGS

84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS

84-2.04 PAYMENT

The contract unit price paid by linear foot for Thermoplastic Traffic Stripe include material and placement of stripe by each traffic stripe detail as shown on the plan, as specified in the Standard Specifications and these Special Provisions. The unit price paid for Thermoplastic Traffic Stripe includes all paint, tape, providing temporary pavement markings, removal of all temporary pavement markings, replacement of damaged markings, pavement surface preparation and any other work required to install pavement markings as shown on the plans, as specified in the Standard Specification and these Special Provisions. A double line stripe will be considered one (1) linear foot per detail.

The contract unit price paid by square foot for Thermoplastic Markings includes all paint, tape, providing temporary pavement markings, removal of all temporary pavement markings, replacement of damaged markings, pavement surface preparation and any other work required to install pavement markings as shown on the plans, as specified in the Standard Specification and these Special Provisions.

Painted traffic stripe and thermoplastic stripe (4") will not be removed. Painted traffic markings will not be removed. Marker Removal is paid according to Section 39-2.01D.

84-9 EXISTING MARKINGS

84-9.03B Remove Traffic Stripes and Pavement Markings

Removal of existing thermoplastic pavement markings will be paid per square foot. Area will be calculated by the rectangular area of the limits of the detail. Thermoplastic pavement markings are to be removed on micro surfacing treatment roads and asphalt rubberized chip seal with micro surfacing treatment roads. Painted pavement markings will not be removed.

DIVISION XI MATERIALS

92 ASPHALT BINDERS

92-1.01 GENERAL

92-1.01A Summary

Apply paint binder (tack coat) to existing surfaces to be surfaced and between layers of asphalt concrete, except when eliminated by the Engineer.

Full compensation for applying paint binder (tack coat) is considered as included in the contract unit price paid for per ton of HMA and no additional compensation will be allowed therefore.

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

2024 STANDARD PLAN T13

DATE	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	No. of SHEETS
REGISTERED CIVIL ENGINEER September 20, 2024 PLANS APPROVAL DATE THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ISSUED COPIES OF THIS PLAN SHEET.				

SIGN PANEL SIZE (Min)

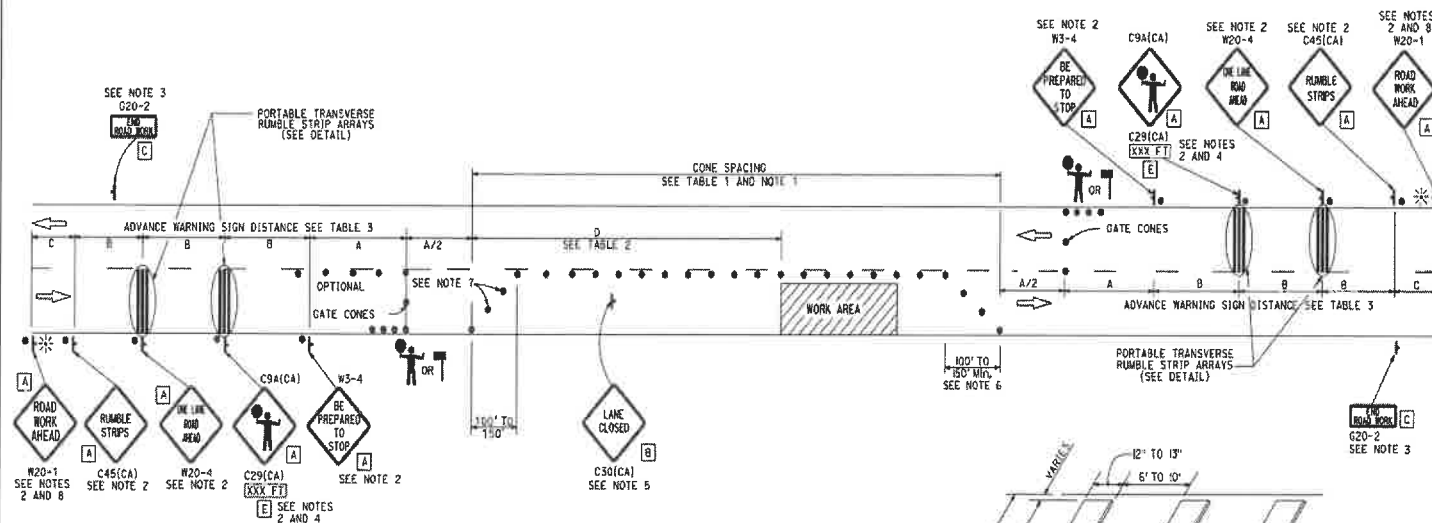
- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

NOTES:

See Standard Plan T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

Provide at least one person to continuously maintain traffic control devices for lane closures.

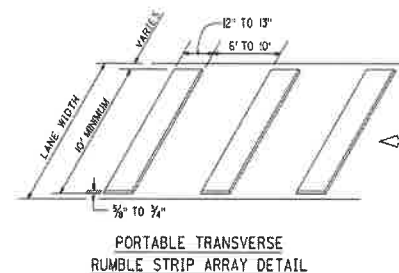


NOTES:

- Portable delineators placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- Sign must be equipped with at least two flags for daytime closures. Flags must be orange in color and at least 16 inches by 16 inches in size. Place flashing beacons as shown for closures during hours of darkness.
- A G20-2 "END ROAD WORK" sign, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within the larger project's limits.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work area. They are optional if the work area is visible from the flagger station.
- Length may be reduced by the Engineer to address site conditions.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- If C45(CA) is not used, measure distance C from W20-4.

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- ☼ PORTABLE FLASHING BEACON
- ⚓ FLAGGER
- ⚓ AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
WITH REVERSIBLE CONTROL ON
TWO LANE CONVENTIONAL HIGHWAYS**
NO SCALE

T13

Base Failure Repairs				
	Road	Distance from Intersection	Dimensions	SF
1	Shiloh Road	4680' south of HWY 12	60'x4'	240
2	Shiloh Road	7250' south of HWY 12	33'x4'	132
3	Shiloh Road	5300' south of Little Honker Bay	22'x8'	176
4	Shiloh Road	12,760' south of Little Honker Bay	20'x4'	80
5	Shiloh Road	12,780' south of Little Honker Bay	10'x4'	40
6	Shiloh Road	13,160' south of Little Honker Bay	15'x4'	60
7	Montezuma Hills Road	1850' south of Birds Landing	30'x8'	240
8	Montezuma Hills Road	17,000' south of Birds Landing	60'x4'	240
9	Montezuma Hills Road	26,700' south of Birds Landing	48'x4'	192
10	Montezuma Hills Road	27,500' south of Birds Landing	60'x4'	240
11	Montezuma Hills Road	29,000' south of Birds Landing	60'x4'	240
12	Nut Tree Airport	South Taxi Lane	10'x20'	200
13	Nut Tree Airport	South Taxi Lane	8'x20'	160
14	Nut Tree Airport	South Taxi Lane	4'x24'	96
15	Nut Tree Airport	South Taxi Lane	12'x24'	288
16	Nut Tree Airport	South Taxi Lane	8'x20'	160
17	Nut Tree Airport	South Taxi Lane	4'x36'	144
18	Nut Tree Airport	South Taxi Lane	4'x24'	96
19	Nut Tree Airport	South Taxi Lane	6'x20'	120
20	Nut Tree Airport	South Taxi Lane	8'x14'	112
21	Nut Tree Airport	South Taxi Lane	8'x8'	64
22	Nut Tree Airport	South Taxi Lane	4'x8'	32
23	Nut Tree Airport	South Taxi Lane	12'x24'	288
24	Nut Tree Airport	South Taxi Lane	4'x24'	96
25	Nut Tree Airport	South Taxi Lane	22'x12'	264
26	Nut Tree Airport	South Taxi Lane	6'x8'	48
27	Nut Tree Airport	South Taxi Lane	4'x37'	148
28	Nut Tree Airport	South Taxi Lane	7'x7'	49
29	Nut Tree Airport	South Taxi Lane	7'x7'	49
30	Nut Tree Airport	South Taxi Lane	8'x8'	64
31	Nut Tree Airport	South Taxi Lane	6'x20'	120
32	Nut Tree Airport	South Taxi Lane	7'x7'	49
33	Nut Tree Airport	South Taxi Lane	8'x6'	48
34	Nut Tree Airport	South Taxi Lane	20'x10'	200
35	Nut Tree Airport	South Taxi Lane	4'x4'	16
36	Nut Tree Airport	South Taxi Lane	4'x38'	152
			TOTAL	4943
NOTE: Totals are in square feet and must be converted to square yards.*				

BASE FAILURE REPAIRS SCHEDULE

Leveling Courses				
	Road	Distance from Intersection	Dimensions	SF
1	Shiloh Road	1500' south of HWY 12	55'x4'	220
2	Shiloh Road	2120' south of HWY 12	16'x4'	64
3	Shiloh Road	At Railroad Tracks	4'x4'	16
4	Montezuma Hills Road	22,000' south of Birds Landing	55'x4'	220
5	Montezuma Hills Road	22,100' south of Birds Landing	18'x4'	72
6	Montezuma Hills Road	27,200' south of Birds Landing	55'x8'	440
7	Nut Tree Airport	South Taxi Lane	500'x30'	15,000
TOTAL				16032
NOTE: Totals are in square feet and must be converted to square yards. *				
NOTE: Additional leveling may be needed as observed. **				

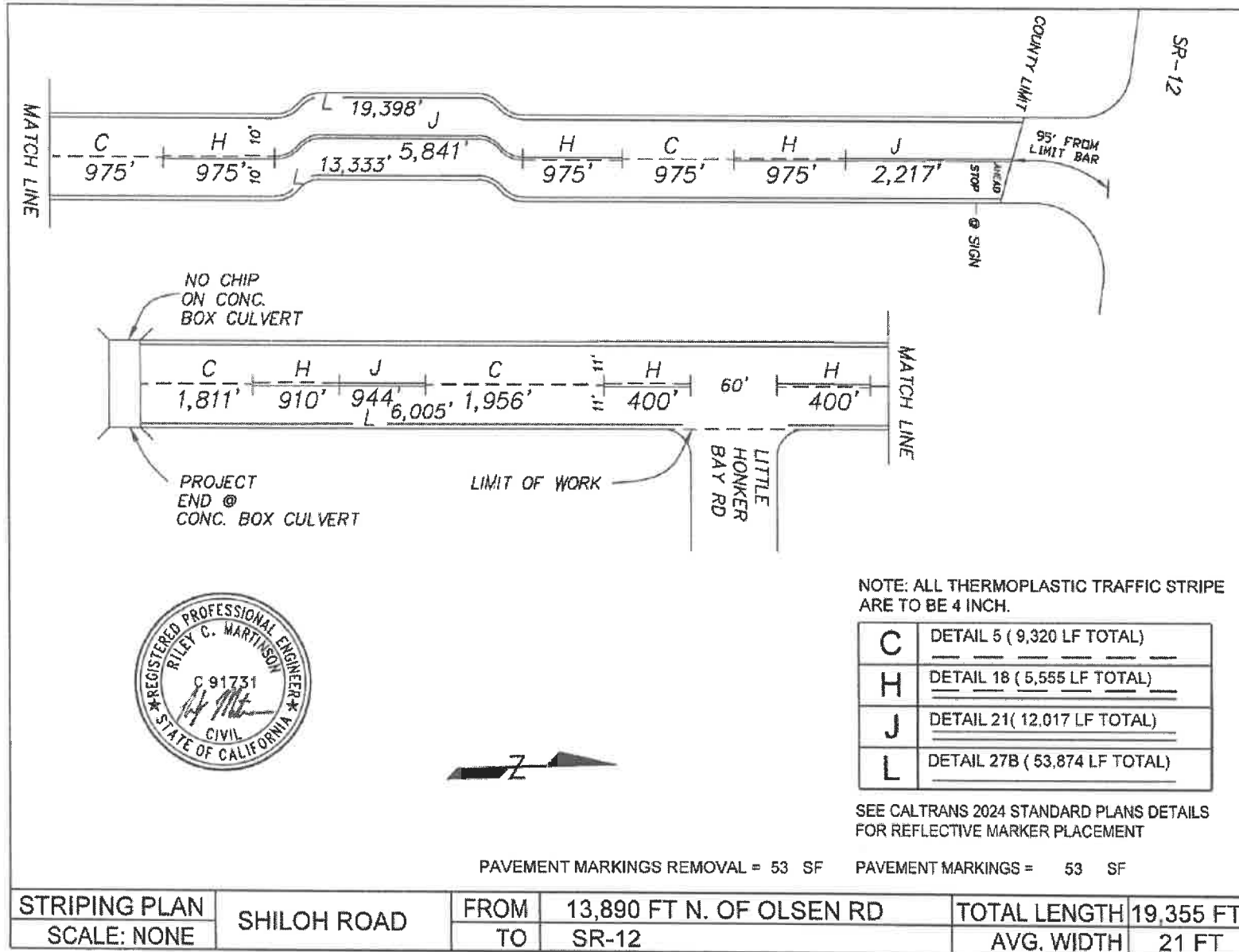
Montezuma Hills Pavement Maintenance Project 2025 - ITEM WORK LIST															
ROAD NAME		LIMITS	Length (LT)	Width (LT)	Roadway Areas		Surface Preparation (Crack Seal & Sweeping)	Asphalt Rubber Chip Seal (Placement)	Rubber Asphalt Binder (Modified)	Screenings (Medium) (3/8 x No. 6)	Microsurface Topcoat (Type II)	Monument Weir (New)	HMA Leveling (Placement)	HMA Leveling (Mat) (3/8")	Base Failure Repair
					Transitions & Intersections	Mainline Area									
					(SY) **	(SY) **									
Shiloh Road	From To	Railroad Crossing SR-12	19,355	21.0	153	45162	45,314	45,314	27,189	793	0	5	33	8.43	81
Montezuma Road	From To	Birds Landing Anderson Road	35,130	20.0	0	78067	78,067	78,067	46,840	1,365	0	0	81	20.58	128
Nut Tree Airport	From To	3a 3b	0	10.0	7469	0	7,469	0	0	0	7,469	0	1,667	50.00	341
GRAND TOTAL			54,485		7,622	123,228	221,479	123,382	74,029	2,160	7,469	5	1,782	80	550

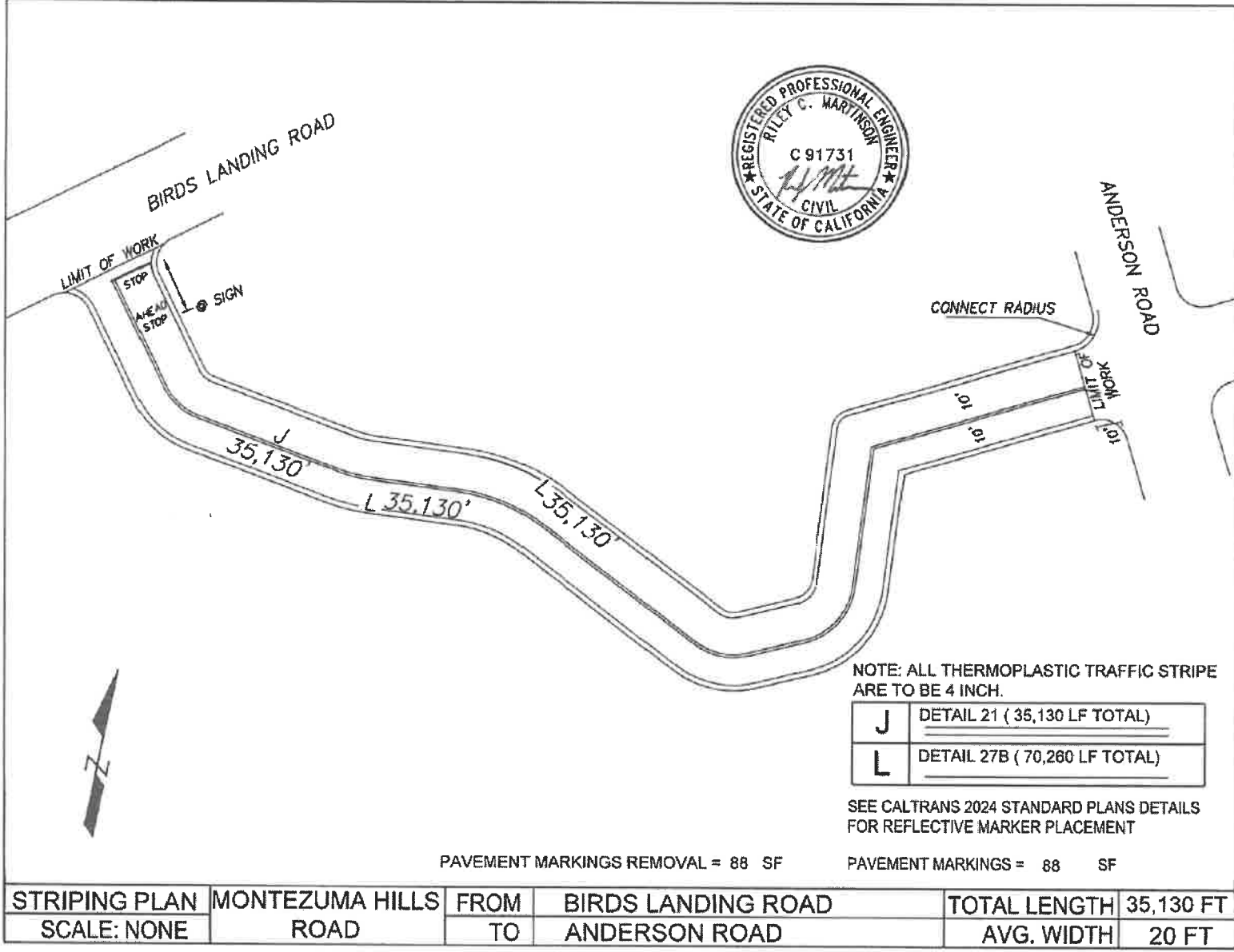
Notes:

** For Reference Only. Not Pay Items

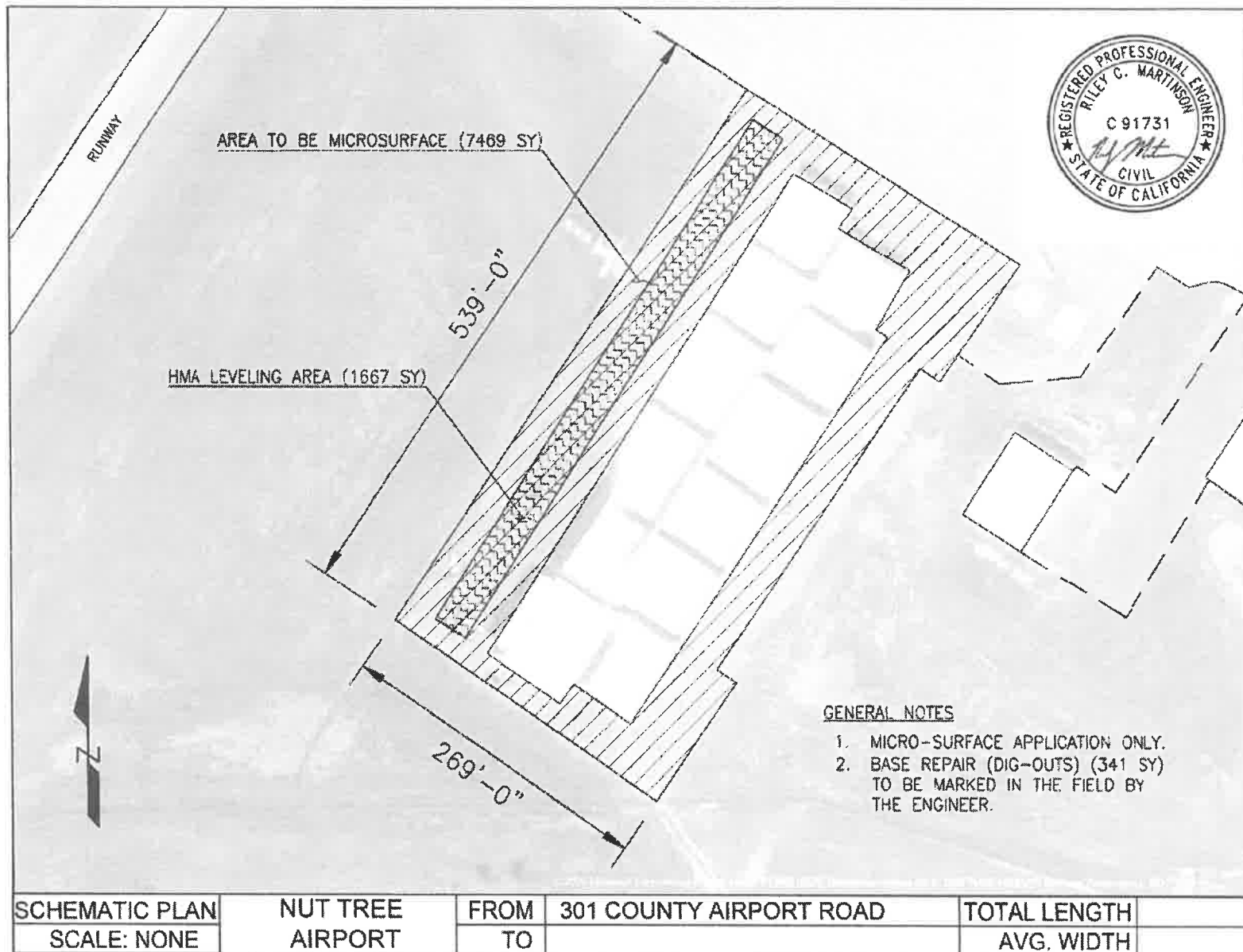
	C	F	J	K	L	M	N	O	P	AC
1	Montezuma Hills Pavement Maintenance Project 2025									
2	STRIPING SUMMARY									
3										
4										
5										Pavement
6		Detail 5	Detail 18	Detail 19	Detail 21	Detail 22	Detail 23	Detail 25A	Detail 27B	Markings
7	ROAD NAME	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(SF)
8										
9	Shiloh Road	5,717	4,635	0	9,002	0	0	0	38,736	53
10										
11	Montezuma Road	0	0	0	35,130	0	0	0	70,260	88
12										
56										
57	GRAND TOTAL	5,717	4,635	0	44,132	0	0	0	108,996	141
58										
59	Note: Refer to Caltrans Standard Plans for a description of the various details									
60	All Thermoplastic traffic stripe to be 4 inch in width									

STRIPING SUMMARY





MONTEZUMA HILLS ROAD



NUT TREE AIRPORT

END OF DOCUMENT

JAMES BEZEK
Director
(707) 784-6765

MATT TUGGLE
Public Works Manager
(707) 784-6765

CHRIS FERRUCCI
County Surveyor
(707) 784-6765

DEPARTMENT OF RESOURCE MANAGEMENT



**SOLANO
COUNTY**

675 Texas Street, Suite 5500
Fairfield, CA 94533-6347
(707) 784-6765
Fax (707) 784-4805

www.solanocounty.com

Public Works – Engineering Services Division

July 2nd, 2025

**COUNTY OF SOLANO
STATE OF CALIFORNIA**

**NOTICE TO BIDDERS, BID FORM, SPECIAL PROVISIONS, AGREEMENT AND
RELATED CONTRACT DOCUMENTS
FOR CONSTRUCTION OF**

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

ADDENDUM NO. 2

TO: ALL PROSPECTIVE BIDDERS

You are hereby notified of the following additions, changes and/or clarifications to the project plans and specifications:

1. Pg. 7 **Notice to Bidders** is amended to say:

“Install an asphalt rubber cape seal, associated surface preparation and striping on Shiloh Road and Montezuma Hills Road in Rio Vista, CA. Work also includes surface preparation, base failure repairs, and micro-surfacing at Nut Tree Airport in Vacaville, CA.”

2. Bid opening is rescheduled for **July 11th, 2025 at 2:00pm** at the Solano County Administration Center (CAC), 675 Texas Street, Fairfield, California, 94533.
3. Addendum No. 1, “Revised Bid Schedule” is replaced entirely with Attachment A, “Updated Revised Bid Schedule.”
4. Addendum No. 1, “Revised Item Worklist” is replaced entirely with Attachment B, “Updated Revised Item Worklist.”
5. The revised estimated cost of the project is \$1,680,000.

Sincerely,

A handwritten signature in blue ink, appearing to read "Matt Tuggle".

Matt Tuggle
Engineering Manager

JAMES BEZEK
Director
(707) 784-6765

MATT TUGGLE
Public Works Manager
(707) 784-6765

CHRIS FERRUCCI
County Surveyor
(707) 784-6765

DEPARTMENT OF RESOURCE MANAGEMENT



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COUNTY**

675 Texas Street, Suite 5500
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Public Works – Engineering Services Division

June 20th, 2025

**COUNTY OF SOLANO
STATE OF CALIFORNIA**

**NOTICE TO BIDDERS, BID FORM, SPECIAL PROVISIONS, AGREEMENT AND
RELATED CONTRACT DOCUMENTS
FOR CONSTRUCTION OF**

MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025

ADDENDUM NO. 1

TO: ALL PROSPECTIVE BIDDERS

You are hereby notified of the following additions, changes and/or clarifications to the project plans and specifications:

1. Page 11, "Bid Schedule" is replaced entirely with Attachment A, "Revised Bid Schedule."
2. Page 125, "Item Worklist" is replaced entirely with Attachment B, "Revised Item Worklist."
3. Page 126, "Striping Summary" is replaced entirely with Attachment C, "Revised Striping Summary."
4. Page 127, "Shiloh Road" is replaced entirely with Attachment D, "Revised Shiloh Road." The southern project limit on Shiloh road has been extended to the railroad tracks as shown on the revised plan.

Sincerely,

A handwritten signature in blue ink, appearing to read "Matt Tuggle".

Matt Tuggle
Engineering Manager

ATTACHMENT A
MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025
REVISED BID SCHEDULE

ITEM NO.	ITEM DESCRIPTION	UNIT S	ESTIMATED QUANTITY	UNIT PRICE IN FIGURES	TOTAL PRICE IN FIGURES
1	SWPPP	LS	1	\$	\$
2	CONTRACTOR QUALITY CONROL PLAN	LS	1	\$	\$
3	TRAFFIC CONTROL FOR LANE CLOSURE (S)	LS	1	\$	\$
4	FLAGGING STRAIGHT TIME (S)	HRS	480	\$ 108.00	\$ 51,840.00
5	FLAGGING OVERTIME (S) *	HRS	120	\$ 128.98	\$ 15,477.60
6	MONUMENT WELLS	EA	5	\$	\$
7	SURFACE PREPEARTION (CRACK SEALING AND SWEEPING)	SY	148,439	\$	\$
8	HMA LEVELING COURSE (PLACEMENT)	SY	1,782	\$	\$
9	HMA LEVELING COURSE (3/8" TYPE A)	TON	80	\$	\$
10	BASE FAILURE REPAIRS	SY	550	\$	\$
11	MICRO-SURFACE (TYPE II)	SY	7,469	\$	\$
12	ASPHALT RUBBER CHIP SEAL (PLACEMENT)	SY	140,970	\$	\$
13	ASPHALT RUBBER BINDER (MODIFIED)	GAL	84,582	\$	\$
14	SCREENINGS (MEDIUM 3/8")	TON	2,467	\$	\$
15	REMOVE THERMOPLASTIC MARKINGS	SF	269	\$	\$
16	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 5 (4 INCH-YELLOW) (S)	LF	9,320	\$	\$
17	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 18 (4 INCH-YELLOW) (S)	LF	5,555	\$	\$
18	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 21 (4 INCH-YELLOW) (S)	LF	47,147	\$	\$
19	THERMOPLASTIC TRAFFIC STRIPE – DETAIL 27B (4 INCH-WHITE) (S)	LF	124,134	\$	\$
20	THERMOPLASTIC PAVEMENT MARKINGS (S)	SF	141	\$	\$
				GRAND TOTAL	\$

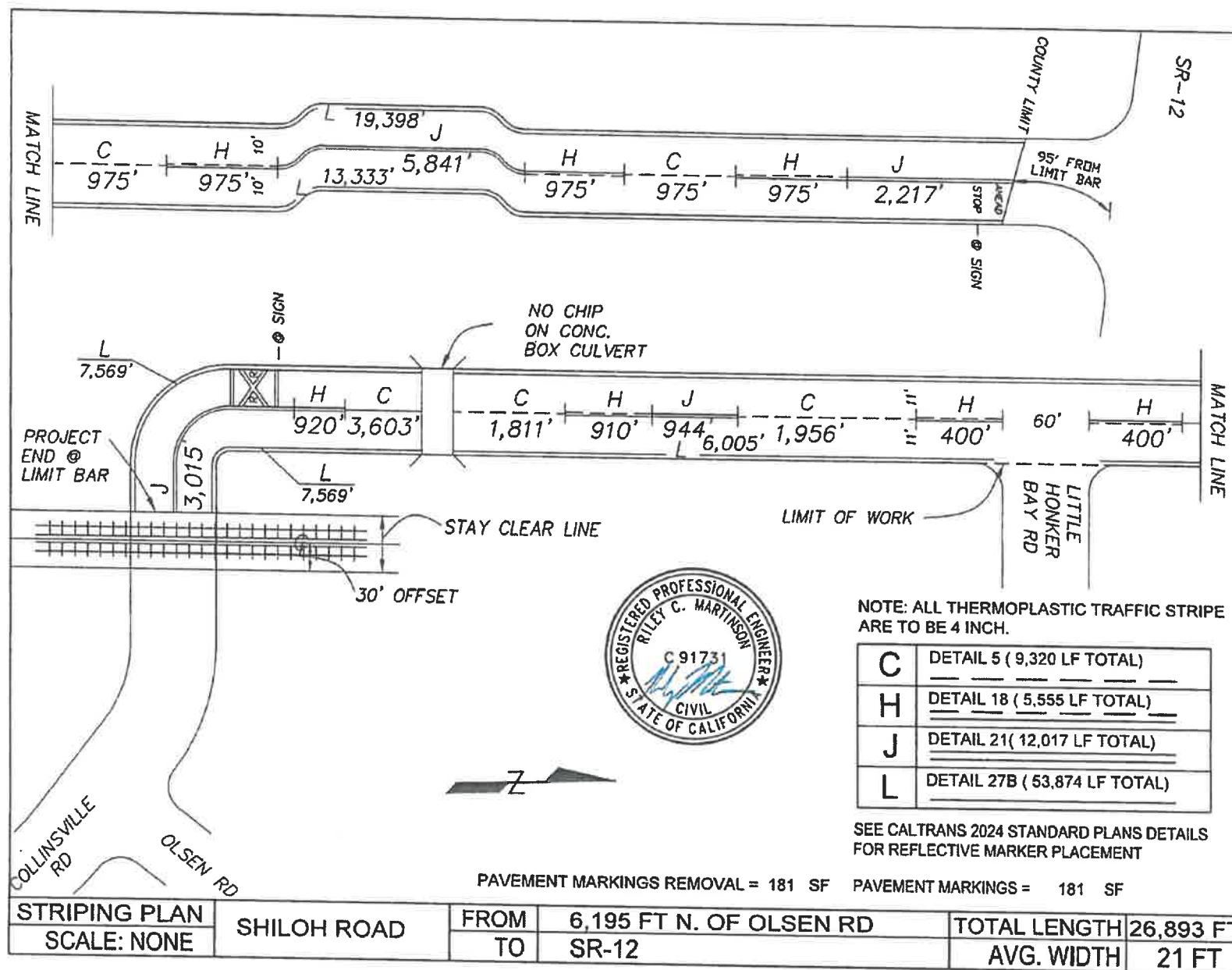
*NOTE: Flagging shall be paid in accordance with “TEMPORARY TRAFFIC CONTROL” in these Special Provisions. The Contractor will be paid at the listed unit price for these items. This rate includes all markups. Listed Quantity is for bid purposes only. Payment will be based upon actual hours used.

NOTE:** Section 9-1.06 “CHANGED QUANTITY PAYMENT ADJUSTMENTS”. Unit price adjustment resulting from a change of more than 25% does not apply.

	C	F	J	K	L	M	N	O	P	AC
1	Montezuma Hills Pavement Maintenance Project 2025									
2	REVISED STRIPING SUMMARY									
3										
4										
5										
6		Detail 5	Detail 18	Detail 19	Detail 21	Detail 22	Detail 23	Detail 25A	Detail 27B	Pavement
7	ROAD NAME	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	Markings
8										(SF)
9	Shiloh Road	9,320	5,555	0	12,017	0	0	0	53,874	181
10										
11	Montezuma Road	0	0	0	35,130	0	0	0	70,260	88
12										
56										
57	GRAND TOTAL	9,320	5,555	0	47,147	0	0	0	124,134	269
58										
59	Note: Refer to Caltrans Standard Plans for a description of the various details									
60	All Thermoplastic traffic stripe to be 4 inch in width									

ATTACHMENT C
REVISED STRIPING SUMMARY

ATTACHMENT D
REVISED SHILOH ROAD



ATTACHMENT A
MONTEZUMA HILLS PAVEMENT MAINTENANCE PROJECT 2025
UPDATED REVISED BID SCHEDULE

ITEM NO.	ITEM DESCRIPTION	UNIT S	ESTIMATED QUANTITY	UNIT PRICE IN FIGURES	TOTAL PRICE IN FIGURES
1	SWPPP	LS	1	\$	\$
2	CONTRACTOR QUALITY CONROL PLAN	LS	1	\$	\$
3	TRAFFIC CONTROL FOR LANE CLOSURE (S)	LS	1	\$	\$
4	FLAGGING STRAIGHT TIME (S)	HRS	480	\$ 108.00	\$ 51,840.00
5	FLAGGING OVERTIME (S) *	HRS	120	\$ 128.98	\$ 15,477.60
6	MONUMENT WELLS	EA	5	\$	\$
7	SURFACE PREPEARTION (CRACK SEALING AND SWEEPING)	SY	148,439	\$	\$
8	HMA LEVELING COURSE (PLACEMENT)	SY	1,782	\$	\$
9	HMA LEVELING COURSE (3/8" TYPE A)	TON	80	\$	\$
10	BASE FAILURE REPAIRS	SY	550	\$	\$
11	MICRO-SURFACE (TYPE II)	SY	148,439	\$	\$
12	ASPHALT RUBBER CHIP SEAL (PLACEMENT)	SY	140,970	\$	\$
13	ASPHALT RUBBER BINDER (MODIFIED)	GAL	84,582	\$	\$
14	SCREENINGS (MEDIUM 3/8")	TON	2,467	\$	\$
15	REMOVE THERMOPLASTIC MARKINGS	SF	269	\$	\$
16	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 5 (4 INCH-YELLOW) (S)	LF	9,320	\$	\$
17	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 18 (4 INCH-YELLOW) (S)	LF	5,555	\$	\$
18	THERMOPLASTIC TRAFFIC STRIPE - DETAIL 21 (4 INCH-YELLOW) (S)	LF	47,147	\$	\$
19	THERMOPLASTIC TRAFFIC STRIPE – DETAIL 27B (4 INCH-WHITE) (S)	LF	124,134	\$	\$
20	THERMOPLASTIC PAVEMENT MARKINGS (S)	SF	141	\$	\$
				GRAND TOTAL	\$

*NOTE: Flagging shall be paid in accordance with “TEMPORARY TRAFFIC CONTROL” in these Special Provisions. The Contractor will be paid at the listed unit price for these items. This rate includes all markups. Listed Quantity is for bid purposes only. Payment will be based upon actual hours used.

NOTE:** Section 9-1.06 “CHANGED QUANTITY PAYMENT ADJUSTMENTS”. Unit price adjustment resulting from a change of more than 25% does not apply.

8	C	D	E	F	G	H	K	L	O	P	Q	W	AD	AF	AG	AI
9	Montezuma Hills Pavement Maintenance Project 2025 - UPDATED REVISED ITEM WORK LIST															
10																
11	ROAD NAME		LIMITS	Length (LT)	Width (LT)	Roadway Areas		Surface Preparation (Crack Seal & Sweeping)	Asphalt Rubber Chip Seal (Placement)	Rubber Asphalt Binder (Modified)	Screenings (Medium) (3/8 x No. 6)	Microsurface Topcoat (Type II)	Monument Well (New)	HMA Leveling (Placement)	HMA Leveling (Matl)(3/8")	Base Failure Repair
12						Transitions & Intersections	Mainline Area									
13						(SY) **	(SY) **									
14																
15	Shiloh Road	From	Railroad Crossing	26,893	21.0	153	62750	62,903	62,903	37,742	1,101	62,903	5	33	8.43	81
16		To	SR-12													
17																
18	Montezuma Road	From	Birds Landing	35,130	20.0	0	78067	78,067	78,067	46,840	1,366	78,067	0	81	20.58	128
19		To	Anderson Road													
20																
21	Nut Tree Airport	From	3a	0	10.0	7469	0	7,469	0	0	0	7,469	0	1,667	50.00	341
22		To	3b													
23																
86	GRAND TOTAL			62,023		7,622	140,817	148,439	140,970	84,582	2,467	148,439	5	1,782	80	550
87																
88																
89	Notes:															
90	** For Reference Only. Not Pay Items															
91																

