

County of Santa Cruz

BOOK 2 OF 2

**SPECIAL PROVISIONS
AND NOTICE TO BIDDERS**

FOR CONSTRUCTION OF

2025 Pavement Management Project

**FOR USE IN CONNECTION WITH STATE OF CALIFORNIA,
DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS
DATED 2024 AND STANDARD PLANS DATED 2024**

BIDS OPEN: 3/6/2025

THIS IS A PREVAILING WAGE PROJECT

SPECIAL NOTICES

See section 7-1.02K(3) for the requirements for electronic submittal of certified payroll records using LCPtracker Pro.

PROJECT DIRECTORY/SIGNATURE PAGE

PROJECT: **2025 Pavement Management Project**

OWNER: **County of Santa Cruz, 701 Ocean Street, Room 410, Santa Cruz Ca, 95060**

CONTACT PERSON: **Dusty Osburn, (831) 454-2748**

CIVIL ENGINEERING STAFF IN RESPONSIBLE CHARGE: **Dusty Osburn**

Associate Civil Engineer
Registered Civil Engineer

Date



TABLE OF CONTENTS

STANDARD PLAN LIST.....	7
NOTICE TO BIDDERS.....	8
BID ITEM LIST.....	11
DIVISION I GENERAL PROVISIONS.....	12
1 GENERAL	12
1-1.07 DEFINITIONS	12
1-1.08 DISTRICTS	13
2 BIDDING.....	13
2-1.06 BID DOCUMENTS	13
2-1.26 LOCAL HIRE COMPLIANCE.....	14
2-1.34 BIDDER'S SECURITY	14
3 CONTRACT AWARD AND EXECUTION	14
3-1.02 CONSIDERATION OF BIDS.....	14
3-1.04 CONTRACT AWARD.....	14
3-1.05 CONTRACT BONDS (PUB CONT CODE §§ 10221 AND 10222).....	15
3-1.06 CONTRACTOR LICENSE	15
3-1.07 INSURANCE POLICIES	16
3-1.18 CONTRACT EXECUTION	16
3-1.19 BIDDERS' SECURITIES.....	16
4 SCOPE OF WORK.....	17
4-1.02 INTENT	17
4-1.08 AS-BUILT PLANS	17
5 CONTROL OF WORK.....	17
5-1.01 GENERAL	17
5-1.12 ASSIGNMENT	17
5-1.13 SUBCONTRACTING	17
5-1.16 REPRESENTATIVE.....	18
5-1.20 COORDINATION WITH OTHER ENTITIES	18
5-1.23 SUBMITTALS.....	18
5-1.24 CONSTRUCTION SURVEYS.....	19
5-1.30 NONCOMPLIANT AND UNAUTHORIZED WORK	19
5-1.31 JOB SITE APPEARANCE	19
5-1.32 AREAS FOR USE.....	19
5-1.33 EQUIPMENT	19
5-1.36 PROPERTY AND FACILITY PRESERVATION	19
5-1.43 POTENTIAL CLAIMS AND DISPUTE RESOLUTION.....	22
6 CONTROL OF MATERIALS.....	22
6-1 GENERAL.....	22
6-1.01 GENERAL	22
6-1.03 LOCAL MATERIALS	22
6-2 QUALITY ASSURANCE	23
6-2.01 GENERAL	23
7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC.....	23
7-1.01 GENERAL	23
7-1.02 LAWS	23
7-1.03 PUBLIC CONVENIENCE.....	25
7-1.04 PUBLIC SAFETY	25
7-1.06 INSURANCE	26

8 PROSECUTION AND PROGRESS	27
8-1.02 SCHEDULE	27
8-1.04 START OF JOB SITE ACTIVITIES	27
8-1.10 LIQUIDATED DAMAGES	28
8-1.13 CONTRACTOR'S CONTROL TERMINATION	28
9 PAYMENT	29
9-1.07 PAYMENT ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS	29
9-1.16 PROGRESS PAYMENTS	29
9-1.17 PAYMENT AFTER CONTRACT ACCEPTANCE	29
DIVISION II GENERAL CONSTRUCTION	29
12 TEMPORARY TRAFFIC CONTROL	29
12-1 GENERAL	29
12-1.03 CONSTRUCTION	29
12-1.04 PAYMENT	30
12-3 TEMPORARY TRAFFIC CONTROL DEVICES	30
12-3.11 CONSTRUCTION AREA SIGNS	30
12-4 MAINTAINING TRAFFIC	32
12-4.02 TRAFFIC CONTROL SYSTEMS	32
12-6 TEMPORARY PAVEMENT DELINEATION	34
12-6.04 PAYMENT	34
12-7 TEMPORARY PAVEMENT DELINEATION FOR SEAL COATS	34
12-7.04 PAYMENT	34
13 WATER POLLUTION CONTROL	35
13-1 GENERAL	35
13-1.01 GENERAL	35
13-1.04 PAYMENT	35
13-4 JOB SITE MANAGEMENT	36
13-4.03 CONSTRUCTION	36
14 ENVIRONMENTAL STEWARDSHIP	36
14-11 HAZARDOUS WASTE AND CONTAMINATION	36
14-11.12 REMOVAL OF YELLOW TRAFFIC STRIP AND PAVEMENT MARKING WITH HAZARDOUS WASTE RESIDUE	36
14-12 OTHER AGENCY REGULATORY REQUIREMENTS	36
14-12.04 COUNTY OF SANTA CRUZ AVOIDANCE AND MINIMIZATION MEASURES	36
14-12.05 CEQA DETERMINATION	37
15 EXISTING FACILITIES	37
15-1.03 CONSTRUCTION	37
15-1.04 Payment	39
DIVISION III EARTHWORK AND LANDSCAPE	40
17 GENERAL	40
17-1 GENERAL	40
17-2 CLEARING AND GRUBBING	40
17-2.01 GENERAL	40
17-2.03 CONSTRUCTION	40
17-2.04 PAYMENT	41
DIVISION IV SUBBASES AND BASES	41
26 AGGREGATE BASES	41
26-1 GENERAL	41
26-1.02 MATERIALS	41
30 RECYCLED PAVEMENT	41

30-4 FULL DEPTH RECYCLING–CEMENT	41
30-4.01 GENERAL	41
30-4.02 MATERIALS	42
30-4.03 CONSTRUCTION	42
30-4.04 PAYMENT	46
DIVISION V SURFACINGS AND PAVEMENTS	47
37 SEAL COATS	47
37-1 GENERAL	47
37-1.01 GENERAL	47
37-2 CHIP SEALS	47
37-2.04 ASPHALT RUBBER BINDER CHIP SEALS	47
37-2.05 STRESS ABSORBING MEMBRANE INTERLAYERS	48
37-3 SLURRY SEALS AND MICRO-SURFACINGS	48
37-3.01 GENERAL	48
37-3.02 SLURRY SEALS	49
37-3.03 MICRO-SURFACINGS	50
37-7 ASPHALT RUBBER CAPE SEALS	51
37-7.01 GENERAL	51
39 ASPHALT CONCRETE	52
39-2 HOT MIX ASPHALT	52
39-2.01 GENERAL	52
39-2.02 TYPE A HOT MIX ASPHALT	53
39-3 Existing Asphalt Concrete	54
39-3.06 Digouts	54
39-3.08 GRIND ASPHALT CONCRETE PAVEMENT	57
DIVISION IX TRAFFIC CONTROL DEVICES	58
84 MARKINGS	58
84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS	58
84-2.01 GENERAL	58
84-2.03 CONSTRUCTION	59
84-2.04 PAYMENT	59
84-9.03 CONSTRUCTION	60

STANDARD PLAN LIST

The Standard plan sheets applicable to this Contract include those listed below. The applicable revised standard plans (RSPs) listed below are available on the Department of Transportation website.

A20A	PAVEMENT MARKERS AND TRAFFIC LINES – TYPICAL DETAILS
A20B	PAVEMENT MARKERS AND TRAFFIC LINES – TYPICAL DETAILS
A20C	PAVEMENT MARKERS AND TRAFFIC LINES – TYPICAL DETAILS
A20D	PAVEMENT MARKERS AND TRAFFIC LINES – TYPICAL DETAILS
A24A	PAVEMENT MARKERS – ARROWS
A24B	PAVEMENT MARKERS – ARROWS AND SYMBOLS
A24C	PAVEMENT MARKERS – SYMBOLS AND NUMERALS
A24D	PAVEMENT MARKERS – WORDS
A24E	PAVEMENT MARKERS – WORDS
A24F	PAVEMENT MARKINGS – CROSSWALKS

NOTICE TO BIDDERS

The County of Santa Cruz is accepting electronic Proposal submissions for the
2025 Pavement Management Project

Bid opening will occur on 3/6/2025, no later than 2:15 p.m. and soon thereafter, will be publicly opened and read.

GENERAL WORK DESCRIPTION:

The project location in the County of Santa Cruz is as follows:

- various roads in unincorporated Santa Cruz County

Work includes pavement grinding, digouts, full depth recycling (cement), asphalt concrete leveling courses and overlays, rubberized cape seals, rubber chip SAMIs (stress absorbing membrane interlayers), microsurfacing seals, striping, pavement markings, and raising iron.

Complete the work within 75 working days.

The estimated cost of the project is \$6,375,621.00

The Contractor must have a Class A or a Class C-12 license.

The bidder must be licensed under the provisions of Chapter 9, Division 3, of the Business and Professions Code of the State of California to do the type of work contemplated in the “contract documents” and must be skilled and regularly engaged in the general class or type of work called for under this contract.

Contractor and all listed subcontractors must be registered with the Department of Industrial Relations pursuant to Section 1725.5 of the Labor Code.

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 Web site, <http://www.dir.ca.gov>, or from the Department’s Labor Compliance Office of the district in which the work is located.

CONTRACT DOCUMENTS:

A digital copy of the Contract documents is available **free of charge** via the online procurement portal, OpenGov Procurement, <https://procurement.opengov.com/portal/santacruzcounty>

BIDDING INSTRUCTIONS:

Only electronic Proposals will be accepted.

Bidders must create a free of charge account via the online procurement portal, OpenGov Procurement by signing up at <https://procurement.opengov.com/signup>.

Once account registration is completed, browse back to this page, <https://procurement.opengov.com/portal/santacruzcounty>, click on the "Project Name", "Submit Response", and follow the instructions to submit the electronic bid.

Present bidders' inquiries to the County and view the County's responses at: www.dpw.co.santa-cruz.ca.us/. Inquiries must be received a minimum of 5 days before bid opening.

Examine the job site and bid documents. Notify the Department of apparent errors and patent ambiguities in the plans, specifications, and Bid Item List by submitting a written request for clarification a minimum of 5 days before bid opening. Failure to do so may result in rejection of a bid or rescission of an award. The correction of the bid documents during the bidding period will be made by issuing an addendum. Any other interpretation or explanation will not be considered binding.

Proposal forms for this work must be uploaded via the online procurement portal, OpenGov Procurement. Copies are included in a separate book entitled:

BOOK 1 of 2
BID BOOK
FOR CONSTRUCTION OF
2025 Pavement Management Project

Cashier's check or certified check, payable to the order of the County of Santa Cruz, of not less ten percent (10%) of the bid submitted, signed by the bidder as well as a corporate surety, **must be received prior to bid opening**. Bidder's bonds shall be issued by a corporate surety duly admitted and authorized to issue bonds and undertakings by the State of California. Scan and upload a copy of your bid bond/cashier's check via the online procurement portal, OpenGov Procurement.

Mail or hand deliver the bid bond/cashier's or certified check to the Contract Analyst prior to bid opening:

Attn: Contract Analyst
County of Santa Cruz
Bid Proposal for 2025 Pavement Management Project
701 Ocean Street, Room 410
Santa Cruz, CA 95060

Any questions concerning the bid process, required submittals, evaluation criteria, bid schedule, and selection process should be sent through the online Procurement Portal.

BID OPENING:

The County of Santa Cruz will conduct bid openings through the videoconferencing platform, Zoom, in lieu of in person attendance.

Bid results will be posted to OpenGov Procurement after the bid opening.

To view the live bid opening please go to:

Topic: 2025 Pavement Management Project Bid Opening

Date and Time: 3/6/2025, at 2:15 p.m. Pacific Time

Zoom Meeting: <https://us02web.zoom.us/j/83681131771>

Meeting ID: 836 8113 1771

Phone Number: 1 669 900 6833

BID PROTESTS AND CONTRACT AWARD:

The County of Santa Cruz hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids and will not be discriminated against on the grounds of race, color, religion, gender, or national origin in consideration for an award.

Award shall be on the basis of the total base bid. The County of Santa Cruz and its Board of Supervisors reserve the right to waive minor irregularities and/ or reject any or all bids received as the public good may require.

Bid protests must be filed in writing with the Director of County of Santa Cruz, 701 Ocean Street, Rm. 410, Santa Cruz, California, 95060, by certified or registered mail, or by hand delivery during normal working hours not later than three (3) days after the bid opening or, if the protest is based on the selection of the apparent lowest responsible bidder, not later than three (3) days after selection of the apparent lowest responsible bidder. The protest must specify the reasons and facts upon which the protest is based.

County of Santa Cruz

Date: _____

Matt Machado

Deputy CAO/Director of Community Infrastructure and Development

BID ITEM LIST

Item No.	Item Description	Unit	Quantity
1	TRAFFIC CONTROL SYSTEM	LS	1
2	CLEARING AND GRUBBING	LS	1
3	GRIND AC PAVEMENT	SF	23,290
4	FULL DEPTH RECYCLING-CEMENT (PULVERIZE, RECOMPACT, AND CEMENT TREAT)	SF	79,440
5	4" DIGOUT	SF	56,610
6	ASPHALT CONCRETE (TYPE A - 1/2" MAXIMUM, MEDIUM)	TON	9,850
7	ASPHALT RUBBER CAPE SEAL	SY	55,260
8	ASPHALT RUBBER CHIP SEAL	SY	70,110
9	SLURRY SEAL, TYPE 2	SY	19,860
10	MICROSURFACING SEAL, TYPE 3	SY	41,150
11	SHOULDER BACKING	TONS	370
12	ADJUST EXISTING MONUMENT TO GRADE	EA	5
13	REPLACE DESTROYED MONUMENT	EA	5
14	ADJUST EXISTING MANHOLE TO GRADE	EA	32
15	(S) THERMOPLASTIC STRIPING 4 IN WHITE	LF	14,410
16	(S) THERMOPLASTIC STRIPING 6 IN WHITE	LF	200
17	(S) THERMOPLASTIC STRIPING 12 IN YELLOW	LF	150
18	(S) THERMOPLASTIC STRIPING 12 IN WHITE	LF	1,490
19	(S) THERMOPLASTIC STRIPING 24 IN YELLOW	LF	340
20	(S) THERMOPLASTIC STRIPING 24 IN WHITE	LF	350
21	(S) THERMOPLASTIC STRIPING-DETAIL 9 (DASHED LANELINE)	LF	440
22	(S) THERMOPLASTIC STRIPING-DETAIL 22 (DOUBLE YELLOW CENTERLINE)	LF	43,830
23	(S) THERMOPLASTIC STRIPING-DETAIL 32 (TWO-WAY LEFT TURN LANES)	LF	630
24	(S) THERMOPLASTIC STRIPING-DETAIL 39 (6 IN WHITE)	LF	5,750
25	(S) THERMOPLASTIC STRIPING-DETAIL 39A (6 IN WHITE DASHED)	LF	970
26	(S) THERMOPLASTIC STRIPING-PAVEMENT MARKINGS	SF	2,410
27	(S) THERMOPLASTIC STRIPING-ADA PARKING LEGEND	SF	69
28	(S) RETROREFLECTIVE PAVEMENT MARKER - BLUE TYPE BB	EA	70
29	CALTRANS ENCROACHMENT PERMIT	EA	1

SPECIAL PROVISIONS

ORGANIZATION

Special provisions are under headings that correspond with the main-section headings of the *Standard Specifications*. A main-section heading is a heading shown in the table of contents of the *Standard Specifications*.

Each special provision begins with a revision clause that describes or introduces a revision to the *Standard Specifications* as revised by any revised standard specification.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *Standard Specifications* for any other reference to a paragraph of the *Standard Specifications*.

DIVISION I GENERAL PROVISIONS

1 GENERAL

1-1.07 DEFINITIONS

1-1.07B Glossary

Replace the following definitions in section 1-1.07B:

Contract: Written and executed contract between the County and the Contractor. The contract includes all contract documents.

Department:

- 1) **Project/Facility Owner:** County of Santa Cruz, Santa Cruz, California.
- 2) **Links, websites, or manuals:** State of California Department of Transportation.

Director: Deputy CAO/Director of Community Infrastructure and Development of the County of Santa Cruz, Santa Cruz, California.

District Engineer: The Director of Community Development and Infrastructure of the County of Santa Cruz or the designated representative.

State: The County of Santa Cruz or County of Santa Cruz, California.

Add to section 1-1.07B:

Board of Directors: County of Santa Cruz Board of Supervisors, Santa Cruz, California.

Contract Sum: Total compensation specified in the contract. The Contract Sum may be adjusted by Change Order.

County: Santa Cruz, California its trustees, officers, and employees.

County Clerk: County Clerk of the County of Santa Cruz, California.

County Counsel: County Counsel of the County of Santa Cruz, California.

Department of Transportation: County of Santa Cruz of Santa Cruz, California.

District: County of Santa Cruz.

District Secretary: Secretary of said District.

Laboratory or Transportation Laboratory: Laboratory named in the QAP Plan

Office of Administrative Hearings: County of Santa Cruz Board of Supervisors of Santa Cruz, California.

Project: The total of the work and obligations agreed to be performed under the Contract.

Project Engineer: Director of Community Development and Infrastructure

Specifications: Standard specifications, revised standard specifications, and special provisions.

1. **standard specifications:** Specifications standard to construction projects. These specifications are in a book titled *Standard Specifications, State Of California, California State Transportation Agency Department Of Transportation, 2024*.
2. **revised standard specifications:** New or revised standard specifications. These specifications will be updated in the special provisions as necessary and will not be a separate document.
3. **special provisions:** Specifications specific to the project. These specifications are in a section titled County of Santa Cruz *Special Provisions* of a book titled *Notice to Bidders and Special Provisions*

1-1.08 DISTRICTS

Delete section 1-1.08.

2 BIDDING

2-1.06 BID DOCUMENTS

2-1.06A General

Replace the paragraphs 1 through 3 of section 2-1.06A with:

The *Bid* book (Book 1 of 2) includes bid forms and certifications, including forms not submitted through the electronic bidding service.

The *Notice to Bidders and Special Provisions* (Book 2 of 2) includes the *Notice to Bidders*, and special provisions. Revised Standard Specifications will be incorporated into Book 2 and will not be a separate book at bid time. Revised standard plans applicable to the project can be obtained on the Department of Transportations website.

The *Bid* book, including *Bid* book forms not available through the electronic bidding service, *Notice to Bidders and Special Provisions*, project plans, and any addenda to these documents may be accessed at the Procurement site, OpenGov Procurement.

2-1.06B Supplemental Project Information

Add after the first paragraph of section 2-1.06B:

The County makes the following supplemental project information available:

Supplemental Project Information	
Document	Description
<i>Information Handout</i>	Road list, vicinity maps, and project details
	CEQA Notice of Exemption (Categorical Exemption)
	Encroachment Permit for work within Caltrans ROW

Add to section 2-1.06B:

Where investigations of subsurface conditions have been made with respect to foundation or other structural design, and that information is made available to you, said information represents only the statement as to the character of materials which have been actually encountered by the County of Santa Cruz in its investigation, and is only made available or included for the convenience of bidders.

Investigations of subsurface conditions are made for the purpose of design, and the County of Santa Cruz assumes no responsibility whatsoever with respect to the sufficiency or accuracy of borings, the log of test borings, or other preliminary investigations, or of the interpretation, and there is no guaranty, either expressed or implied, that the conditions indicated are representative of those existing throughout the work, or any part of it, or that unanticipated conditions may not occur. When a log of test borings is made available to you or included in the Contract Documents, it is expressly understood and agreed that the log of test borings does not constitute a part of the Contract and is made available or included in the Contract Documents only for the convenience of the bidders.

Replace section 2-1.26 with:

2-1.26 LOCAL HIRE COMPLIANCE

Bidders, Contractors and subcontractors must make good faith efforts to hire Monterey Bay Area residents in sufficient numbers so that no less than 50 percent of the Contractor's total construction workforce, including any subcontractor's workforce, measured in labor work hours, is comprised of Monterey Bay Area residents. This County construction project is covered by Chapter 2.33 of the Santa Cruz County Code, and the entire chapter, as amended, is incorporated by reference into these special provisions. A copy of County Code Chapter 2.33 is available at <http://www.codepublishing.com/ca/santacruzcounty/>

Bidders, Contractors, and subcontractors must maintain and submit records necessary for monitoring their compliance with this Chapter.

The "County's Local Hire Compliance Statement" and "Local Hire Compliance Statement Attachment: Qualifying Employee List" must be submitted within one week of the contract approval.

Failure 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 County deems appropriate.

2-1.34 BIDDER'S SECURITY

Add to the first paragraph of section 2-1.34 with:

All payments must be made payable to the County of Santa Cruz.

3 CONTRACT AWARD AND EXECUTION

3-1.02 CONSIDERATION OF BIDS

3-1.02A General

Add to section 3-1.02A:

If you fail to include a unit price for a bid item, the unit price will be calculated dividing the total bid item amount by the quantity for that item and rounding to the nearest penny. Rounding may affect the bid item total.

3-1.04 CONTRACT AWARD

Replace the first paragraph of section 3-1.04 with:

Bid protests must be filed in writing with the Director of County of Santa Cruz, 701 Ocean Street, Rm. 410, Santa Cruz, California, 95060, by certified or registered mail, or by hand delivery during normal working hours not later than three (3) days after the bid opening or, if the protest is based on the selection

of the apparent lowest responsible bidder, not later than three (3) days after selection of the apparent lowest responsible bidder. The protest must specify the reasons and facts upon which the protest is based

Delete the fourth paragraph of section 3-1.04.

3-1.05 CONTRACT BONDS (PUB CONT CODE §§ 10221 AND 10222)

Replace section 3-1.05 with:

Within 8 business days of receiving the Notice of Award the successful bidder must submit (2 originals of each bond):

1. Payment bond to secure the claim payments of laborers, workers, mechanics, or materialmen providing goods, labor, or services under the Contract. This bond must be equal to at least 100 percent of the total bid. The bond must be in accordance with the provisions of Sections 8150-8154 and 9550-9566, inclusive, of the Civil Code of the State of California, and Section 13020 of the Unemployment Insurance Code of the State of California. Said bond must also contain a provision that the surety thereon waives the provisions of Sections 2819 and 2845 of the Civil Code of the State of California.
2. Performance bond to guarantee the faithful performance of the Contract. This bond must be equal to at least 100 percent of the total bid. The bond must contain a provision that the surety thereon waives the provisions of Sections 2819 and 2845 of the Civil Code of the State of California.

The County furnishes the successful bidder with bond forms.

The bonds must be issued by a surety insurer who is licensed in California.

The surety companies must familiarize themselves with all provisions and conditions of the Contract. It is understood and agreed that the surety or sureties waive the right of special notification of any modifications or alterations, omissions or reductions, extra or additional work, extensions of time, or any other act or acts by the County or its authorized agents under the terms of the Contract; and failure to so notify the surety companies of such changes will in no way relieve the surety or sureties of their obligations under this Contract.

3-1.06 CONTRACTOR LICENSE

Replace section 3-1.06 with:

For a Federal-aid contract, the Contractor must be properly licensed as a contractor from contract award through Contract acceptance (Pub Contract Code § 10164). For the purposes of this requirement, assume Contract Award will occur 14 days after bid opening.

For a non-Federal-aid contract:

1. Contractor must be properly licensed as a contractor from bid opening through Contract acceptance (Bus & Prof Code § 7028.15)
2. Joint venture bidders must obtain a joint venture license before contract award (Bus & Prof Code § 7029.1)

The Bidder must be licensed under the provisions of Chapter 9, Division 3, of the Business and Professions Code of the State of California to do the type of work contemplated in the Contract Documents and must be skilled and regularly engaged in the general class or type of work called for under this Contract. Complete the Contractor Qualifications and Contractor Qualification Questionnaire.

Only C-10 contractors may perform electrical work, which is defined as the placement, installation, erection, or connection of any electrical, wires, fixtures, appliances, apparatus, raceways, conduits, solar photovoltaic cells or any part thereof, which generates, transmits, transforms, or utilizes electrical energy in any form or for any purpose.

Proof of compliance must be provided to the County prior to commencement of any work.

3-1.07 INSURANCE POLICIES

Replace the first paragraph of section 3-1.07 with:

Within 8 business days of receiving the Notice of Award the successful bidder must submit:

1. Copy of its commercial general liability policy and its excess policy or binder until such time as a policy is available, including the declarations page, applicable endorsements, riders, and other modifications in effect at the time of contract execution. Standard ISO form no. CG 00 01 or similar exclusions are allowed if not inconsistent with section 7-1.06. The allowance of additional exclusions is at the discretion of the County.
2. Certificate of insurance showing all other required coverages. Certificates of insurance, as evidence of required insurance for the auto liability and any other required policy, must set forth deductible amounts applicable to each policy and all exclusions that are added by endorsement to each policy. The evidence of insurance must provide that no cancellation, lapse, or reduction of coverage will occur without 30 days prior written notice has been given to:
Matt Machado
Director of Community Development and Infrastructure
County of Santa Cruz
701 Ocean Street, Room 410
Santa Cruz, CA 95060
3. Declaration under the penalty of perjury by a CPA certifying the accountant has applied GAAP guidelines confirming the successful bidder has enough funds and resources to cover any self-insured retentions if the self-insured retention is over \$50,000.

3-1.18 CONTRACT EXECUTION

Replace the third and fifth paragraphs in section 3-1.18 with:

The Contract form will be provided by the County and is provided in Bid Book 1. The County must receive these documents before the 8th business day after the bidder receives the contract.

You will be furnished with a copy of the executed Contract Documents.

If the bidder to whom the award is made fails or refuses to enter into the Contract within eight (8) business days of receiving the Notice of Award, the County may then award the Contract to the next lowest responsible bidder. This will be done after the failure or refusal of the low bidder to enter into the Contract, as is convenient for the County. If the next lowest responsible bidder fails or refuses to enter into the Contract, then the County may then award the Contract to the next lowest responsible bidder.

If any one or more of the provisions contained in the Contract should be invalid, illegal, or unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions contained will not in any way be affected or impaired.

This Contract constitutes the full and complete understanding of the parties, and supersedes any previous agreements or understandings, oral or written, with respect to the subject matter hereof. The Contract may only be modified by a written instrument signed by both parties.

You hereby assign to County all your first-tier subcontracts now or hereafter entered into by you for performance of any part of the work. The assignment will be effective upon acceptance by County in writing, and only as to those subcontracts, which County designates in writing. Such assignment is part of the consideration to County for entering into the Contract with you and may not be withdrawn.

3-1.19 BIDDERS' SECURITIES

Add to section 3-1.19:

The Bidder must pay to the County such sums as necessary to reimburse the County for costs incurred for failure of the successful bidder to complete, sign and return these Contract Documents or enter into a contract. The County will not be precluded from recovering from the defaulting bidder damages in excess

of the amount of Bidder's Security, The amount must not be deemed to constitute a penalty or liquidated damages.

4 SCOPE OF WORK

4-1.02 INTENT

Add to section 4-1.02:

All work and materials must be in accordance with the latest adopted standards and regulations of the State Fire Marshal; the Uniform Building Code; the National Electrical Code; the Uniform Plumbing Code; Americans With Disabilities Act; and all other applicable codes, laws, or regulations. Immediately upon signing of the Contract, diligently review the Contract Documents and determine if any work described or inferred within the Contract Documents is not in conformance with these requirements. If you discover work within the Contract Documents not in conformance with these requirements, immediately notify the Engineer in writing.

Replace section 4-1.08:

4-1.08 AS-BUILT PLANS

Maintain one set of up to date 'As Built Plans' that accurately represent any changes to the original project or plan set. The 'As Built Plans' are in addition to any working or shop drawings required for the project's completion.

Before Contract acceptance, you and the Engineer will review the 'As Built Plans' and make revisions or changes as necessary and certify them as accurately representing the final project. Deliver a copy of the final 'As Built Plans' to the Engineer within 10 days of Contract Acceptance.

5 CONTROL OF WORK

5-1.01 GENERAL

Add to section 5-1.01:

Retain an approved set of Contract Documents on the job at all times.

5-1.12 ASSIGNMENT

Replace the second paragraph of section 5-1.12 with:

Do not assign the right to receive Contract payments to a third party. The County does not accept the assignment. This does not pertain to escrow accounts established for the sole purpose of depositing retained earnings in accordance with Section 10263 of the Public Contract Code.

5-1.13 SUBCONTRACTING

Add to section 5-1.13A:

The agency may hold retainage from the prime contractor and shall make prompt and regular incremental acceptances of portions, as determined by the agency, of the contract work, and pay retainage to the prime contractor based on these acceptances. The prime contractor, or subcontractor, shall return all monies withheld in retention from a subcontractor within seven (7) days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by the agency, unless as agreed to in writing by the prime contractor and subcontractor, pursuant to Section 7108.5 of the Business and Professions Code. Any violation of these provisions of Prompt Progress Payment and Prompt Payment of Withheld Funds to Subcontractors shall subject the violating prime contractor or subcontractor to the penalties, sanctions and other remedies specified in Section this

code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the prime 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.

When any portion of the work which has been subcontracted is not being prosecuted in a satisfactory manner, terminate the subcontractor immediately upon written notice from the Engineer or County, and do not employ the subcontractor again on the type of work in which its performance was unsatisfactory.

5-1.16 REPRESENTATIVE

Add to section 5-1.16:

All articles of communications will be submitted to the contact given in the proposal and may be mailed, transmitted electronically, or delivered. Provide written notice to the Engineer to change the contact information or assigned Representative named in the proposal. Electronic transmissions to this contact will be deemed sufficient notice.

Your representative must be available to respond to the job site within 1-2 hours at all times, including non-work hours, weekends and holidays.

5-1.20 COORDINATION WITH OTHER ENTITIES

5-1.20B Permits, Licenses, Agreements, and Certifications

5-1.20B(3) After Award

Add to section 5-1.20B(3)

To comply with the County’s Blanket Encroachment Permit for work within the Caltrans right of way, the following is required:

1. Contact Caltrans Encroachment Permit Inspector listed below at the following times before starting work in the State right of way:
 - A minimum of two (2) weeks prior to commencing work for a pre-job meeting to discuss permit provisions, notification requirements, and scheduling.
 - A minimum of two working days prior to commencing work.

State Permit Inspector: David Ontiveros	Phone: (831) 476-1337
Email: david.ontiveros@dot.ca.gov	Fax: (831) 476-1803

5-1.23 SUBMITTALS

5-1.23A General

Add to section 5-1.23A:

Each submittal must be dated and appropriately titled with the bid item number and project name.

You are responsible for verifying that all information and data contained and set forth in all of your and your subcontractor’s submittals that are required by the Contract Documents comply in all respects with the Contract Documents.

5-1.24 CONSTRUCTION SURVEYS

Replace section 5-1.24 with:

You must provide all surveying and grade stakes necessary to construct the project within the tolerances and locations noted in the plans and specifications.

5-1.30 NONCOMPLIANT AND UNAUTHORIZED WORK

Add to section 5-1.30:

Provide the Engineer with two working days prior written notice of any work, including location and scope, to be done on a Saturday or designated Holiday. Work that progressed without notification will be deemed unauthorized.

5-1.31 JOB SITE APPEARANCE

Add to section 5-1.31:

4. Construct and maintain the necessary sanitary conveniences for the use of the workers on the project, properly obscured from public observance.

The County will deduct \$1,000, plus the cost for this work per section 5-1.30, for each occurrence where requirements are not met. Deduction amounts will be deducted from the next progress payment.

5-1.32 AREAS FOR USE

Add to section 5-1.32:

You are responsible for a construction staging area. Staging areas must be in conformance with all County land use and zoning regulations. Staging in areas zoned as Residential is prohibited. Staging in areas zoned as Non-Residential requires a temporary use permit through the Santa Cruz County Planning Department. Provide the Engineer with the Construction Staging Area Notification Form within 10 business days of Contract Execution, for review and approval.

Staging areas must be included in the Water Pollution Control Program or Storm Water Pollution Prevention Plan and follow Water Pollution Control practices and comply with section 13-2.01C or 13-3.01C(2)(a).

You shall provide your own storage facility.

5-1.33 EQUIPMENT

Add to section 5-1.33:

If any particular type or piece of equipment has been banned, or if the Engineer has condemned for use on the work, any piece or pieces of equipment, promptly remove such equipment from the site of the work.

5-1.36 PROPERTY AND FACILITY PRESERVATION

5-1.36A General

Add to section 5-1.36A:

Document existing improvements and conditions (video, photos, etc.) prior to commencement of any construction activities. Where there are disputes regarding restoration of existing improvements, the County will side with the private property owner if no documentation to the contrary can be provided.

The County does not guarantee that all improvements are shown on the Drawings, and it shall be your responsibility to protect and restore all existing improvements whether or not each is provided for specifically on the Drawings.

5-1.36C Nonhighway Facilities

5-1.36C(2) Nonhighway Facility Protection

Any existing utilities shown on the accompanying plan set (if applicable) do not necessarily represent actual site conditions or show details of exact location, depth, or other construction features of each utility. It is your responsibility to verify this information with the affected utilities prior to starting work.

Notify the Engineer and the regional notification center, "Underground Service Alert" at 800-642-2444, and other affected utilities at least 2 working days, but not more than 14 calendar days, prior to performing any excavation or other work close to any underground pipeline, conduit, duct, wire, or other structure. You will be required to work around existing utilities.

In addition, if it is noted on the plans or in these special provisions that the shutting off of power lines or water facilities may be necessary to allow for the work, it is your responsibility to notify the utility of the required action a minimum of 14 days prior to the work at or around the utility.

Utilities to be contacted may include:

• Pacific Gas and Electric	Tel: (831) 479-3104
• AT&T	Tel: (831) 728-5032
• Verizon	Tel: (408) 358-6791
• Comcast	Tel: (831) 657-6042
• Charter Communications	Tel: (831) 477-3907
• San Lorenzo Valley Water District	Tel: (831) 338-2153
• Watsonville Water Department	Tel: (831) 728-6025
• Soquel Creek Water District	Tel: (831) 475-8500
• Santa Cruz Water Department	Tel: (831) 420-5210
• Scotts Valley Water District	Tel: (831) 438-2363
• Central Water District	Tel: (831) 688-2767
• Big Basin Water Company	Tel: (831) 338-2933
• Trout Gulch Mutual Water Company	Tel: (831) 662-3204
• Villa Del Monte Mutual Water Company	Tel: (650) 846-3820
• Summit West Mutual Water Company	Tel: (408) 353-8579
• Forest Lake Mutual Water Company	Tel: (831) 335-5774
• Pajaro Valley Water Management Agency	Tel: (831) 772-9292
• Santa Cruz County Sanitation District	Tel: (831) 477-3907

Minimize damage to underground utilities. In the event that water services are broken or damaged between the meter and the point of service, immediately repair such damage in a manner satisfactory to the Engineer, in order that the water supply will not be interrupted for a period greater than one (1) hour. Notify the occupants of the premises to which said services are connected and make necessary arrangements so that no damage will occur on said premises. Whenever sewer facilities are broken or damaged, take immediate steps to provide for the continuation of flow and make complete repairs as soon as practicable. The full cost of repairs to water or sewer services damaged by construction activities shall be borne by the Contractor.

Where existing underground utilities are undercut, particular care shall be exercised in selecting, placing and compacting the backfill material under and around such utility to assure a firm support. The backfilling operation shall conform to section 19-3.03E, section 19-3.03F, or section 19-3.03I (whichever is applicable) of the Standard Specifications.

In accordance with Section 4215 of the Government Code of the State of California, the County shall make provisions to compensate the Contractor for the costs of locating and repairing damage not due to

the failure of the Contractor to exercise reasonable care, removing or relocating such main and trunk line utility facilities not indicated in the plans and specifications with reasonable accuracy, and for equipment on the project necessarily idled during such work. Compensation will be in accordance with the requirements of "Potential Claims and Dispute Resolution," of these special provisions and the Standard Specifications. In the event you discover utilities not identified in the Contract Documents, immediately notify the Engineer and the utility owner by the most expeditious means available and later confirm in writing.

It is understood and agreed that the failure of the Contractor or its subcontractor to comply fully with these provisions constitutes failure of the Contractor to exercise reasonable care and precludes Contractor's recovery from County for any related costs or damages.

Coordination for Utility Work (For utility work included in this project):

For any utilities which have utility services within the limits of this project; The Engineer shall make contact with all involved utility companies upon award of contract and invite representatives to the Pre-Construction Meeting.

For utility work that is under the County Contract, the Engineer shall be the primary point of contact between the utility company and the Contractor. You are required to contact the utility company for coordination purposes. You will be given a list with contact information for all utilities involved in this project and shall notify the specified utility contacts at least 7 days prior to the expected start of work on said utilities and coordinate with the utility company's representative in the event they wish to observe or inspect construction operations. If any utility to be adjusted has a broken concrete base or a damaged lid, notify the utility contact and verify whether the utility wishes to provide a replacement unit prior to installation. Any communication from the utility companies regarding disagreements in the work shall be directed to the Engineer and not to the Contractor.

All manhole and utility covers shall be protected by covering or bagging the covers or by a suitable means approved by the Engineer. Following any road sealing operation all manholes, valves and utility covers shall be uncovered and cleaned as directed by the Engineer.

For utility work that is bid under the County project but contracted separately, the Contractor shall make contact with the utility company and the utility company shall be the primary contact for that work. The contractor shall keep the County Engineer informed of progress & scheduling of the utility work.

Full compensation for working around existing utilities shall be considered as included in the prices paid for the various items of work and no separate payment will be made therefor.

5-1.36E Landscape

Replace 1st paragraph of section 5-1.36E:

Existing facilities, trees, shrubs and other plants, that are not to be removed as shown on the plans and are injured or damaged by reason of your operations, must be disposed and replaced by you.

All areas of established grass must be replaced with turf as nearly as possible to their original condition.

Add section 5-1.36G Private Roads

5-1.36G Private Roads

Unless otherwise specified, roads or other paved surfaces located within private property in which the surface is removed, broken, or damaged, or in which the ground has caved or settled during the work under this contract, must be resurfaced and brought to the original grade, section, and appearance.

5-1.43 POTENTIAL CLAIMS AND DISPUTE RESOLUTION

5-1.43A General

For projects with a Contract price under \$5 million add to section 5-1.43A:

The potential claim process shall adhere to the process outlined in section 5-1.43 with additional requirements and deadlines for Claims of \$375,000.00 or less that arises between you and the County to be resolved per the provisions of Article 1.5 entitled "Resolution of Construction Claims" of the Public Contract Code. Contractors bidding on this project must be familiar with the provisions of this article. Article 1.5 outlines the process to be used depending on whether the amount of the claim in controversy exceeds \$50,000.00 or not.

The article identifies the time limits for you to submit adequate documentation of the claims (Section 20104.2) and establish the procedures for pursuing civil actions filed to resolve claims subject to this article (Section 20104.4). The provisions of this article shall remain in effect in the Contract even if the provision is repealed by the Legislature (Section 20104.8).

5-1.43E Alternative Dispute Resolution

Add to section 5-1.43E:

Section 5-1.43E only applies if there is a bid item for Alternative Dispute Resolution shown on the Bid Item List.

6 CONTROL OF MATERIALS

6-1 GENERAL

6-1.01 GENERAL

Add to section 6-1.01:

Nothing in this Contract must be construed as vesting in you any right of property in the materials used, after they have been installed, attached, or affixed to the work, but all such materials are the property of you and the County jointly, and cannot be removed from the work without the consent of the County.

6-1.03 LOCAL MATERIALS

6-1.03A General

Add to section 6-1.03A:

Any bid which proposes or calls for the use of any tropical hardwood or tropical hardwood product in performance of the Contract will be deemed non-responsive. Do not provide any items in performance of this Contract that are tropical hardwoods or tropical hardwood products. The County urges companies not to import, purchase, obtain, or use for any purpose, any tropical hardwood or tropical hardwood product. In the event you fail to comply in good faith with any of the provisions of County Code Section 2.37.107, you will be liable damages in an amount equal to your net profit under the Contract, or five percent (5%) of the total amount of the Contract Sum, whichever is greater. You acknowledge and agree that the damages assessed will be payable to the County upon demand and may be set off against any monies due to you from any contract with the County.

6-2 QUALITY ASSURANCE

6-2.01 GENERAL

6-2.01A General

Replace 5th paragraph section 6-2.01A:

The County uses a Quality Assurance Program (QAP) to ensure a material is produced to comply with the Contract. For a copy of the manual, contact the County.

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

7-1.01 GENERAL

Add to section 7-1.01:

The right of general supervision does not make you an agent of the County and the liability for you for all damages to persons or to public or private property arising from the performance of the work is not lessened because of such general supervision.

7-1.02 LAWS

7-1.02I Government Code

7-1.02I(2) Nondiscrimination

Add to section 7-1.02I(2):

COUNTY EQUAL OPPORTUNITY EMPLOYMENT CONTRACT COMPLIANCE DEFINITIONS AND PROVISIONS.

You shall not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, physical or mental disability, medical condition (cancer related), marital status, pregnancy, gender, sexual orientation, age (over 18), veteran status or any other non-merit factor unrelated to job duties. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection of training including apprenticeship. You agree to post in conspicuous places available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination clause.

In the event of non-compliance with the non-discrimination clauses of this Contract or with any of the said rules, regulations or orders, you may be declared ineligible for further contracts with the County.

For all contracts in excess of \$50,000.00 where you employ at least 15 employees, the County will require the inclusion of the following equal opportunity clauses as a condition of the Contract:

2. You shall state that you are an equal opportunity employer in all solicitations or advertisements for employees placed by or on behalf of you, and ensure that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, ancestry, physical or mental disability, medical condition (cancer related), pregnancy, marital status, gender, sexual orientation, age (over 18), veteran status or any other non-merit factor unrelated to job duties.
3. All County contracts must comply with the non-discrimination requirements of both the State and Federal governments. Certain specific projects conducted under State and/or Federal oversight may have additional definitions and requirements.
4. If applicable according to the contract-funding source, you will comply with all provisions of Executive Order 11246, as amended, and of the rules, regulations, and orders of the Secretary of Labor, which include furnishing required information and report.

During the performance of this contract, you, for yourself, your assignees, and successors in interest agree to comply with the following nondiscrimination statutes and authorities; including but not limited to:

Pertinent Nondiscrimination Authorities:

1. Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
2. The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
3. Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
4. Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
5. The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
6. Airport and Airway Improvement Act of 1982, (49 U.S.C. § 4 71, Section 4 7123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
7. The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, subrecipients and contractors, whether such programs or activities are Federally funded or not);
8. Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
9. The Federal Aviation Administration's Nondiscrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
10. Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-I income Populations, w which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
11. Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
12. Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

7-1.02K Labor Code

7-1.02K(2) Wages

Replace the second paragraph of section 7-1.02K(2) with:

The general prevailing wage rates and any applicable changes to these wage rates are available from the Department of Industrial Relations' website.

Add to section 7-1.02K(2):

Pay travel and subsistence payments to each worker needed to execute the work, as such travel and subsistence are defined in the applicable collective bargaining agreements. (Labor Code § 1773.8)

7-1.02K(3) Certified Payroll Records (Labor Code § 1776)

Add to section 7-1.02K(3):

Submit electronic certified payroll records required under California Labor Code Section 1776 to the Labor Commissioner pursuant to California Code of Regulations Chapter 8, Section 16404.

Prior to the first progress payment, submit Fringe Benefit Statement form provided in the Bid Book for all trades to be employed.

Replace the fifth paragraph in section 7-1.02K(3) with:

Submit certified payroll records electronically using the County/District's contracted certified payroll internet system LCPtracker Pro. For information on submittal of certified payroll records using LCPtracker Pro, go to the LCPtracker website: <https://www.lcptracker.com/solutions/lcptracker>. Request user account for your designated representative by submitting LCPtracker Vendor Access Request form to the Engineer.

7-1.02K(6) Occupational Safety and Health Standards

7-1.02K(6)(j) Lead Safety

7-1.02K(6)(j)(i) General

Replace Reserved in section 7-1.02K(6)(j)(i) with:

Section 7-1.02K(6)(j)(ii) applies if lead paint is encountered and a lead compliance plan is not specified.

7-1.03 PUBLIC CONVENIENCE

Add to section 7-1.03:

Normal working hours are 7:30 AM to 5:00 PM Monday through Friday. All work involving heavy equipment or traffic control must be done between 8:30 AM and 4:30 PM unless otherwise specified in section 12-4.

When any work will affect parking, access, or sanitary services you must:

1. Post "Temporary No Parking" signs along the streets scheduled for the work 48 hours prior to commencing the work.
2. Place a "doorknob hanger" notices on all residences and businesses within the area affected 48 hours prior to commencing work. Information must include:
 - 2.1. General work schedule with time and date that:
 - 2.1.1. No parking restrictions go into effect
 - 2.1.2. Access to driveways or residence may be impeded
 - 2.2. Statement that all vehicles must be removed from the posted area if applicable
 - 2.3. Phone number of a Contractor representative to answer questions regarding work

No road work shall be scheduled for streets which have garbage or recycled material pickups scheduled for the same day. You are responsible for scheduling road work outside of the days scheduled for removal of garbage and recycled materials. Contact Green Waste Recovery of Santa Cruz County at (800) 665-2209 to obtain current waste pick-up schedules.

7-1.04 PUBLIC SAFETY

Add to section 7-1.04:

Install and maintain adequate temporary traffic lane markers, pavement markings, and temporary traffic signs to replace existing traffic control devices removed by construction. Temporary centerline reflectors (floppies) shall be in place at the end of each workday when finished striping is not in place. In the event that a site is inactive for an extended period of time (one week or more), at the discretion of the Engineer, the contractor may be required to provide temporary striping. These items shall be provided at the contractor's expense.

7-1.06 INSURANCE

7-1.06B Casualty Insurance

Add to section 7-1.06B:

If you utilize one or more subcontractors in the performance of this Contract, obtain and maintain Independent Contractor's Insurance for each subcontractor or provide evidence of insurance coverage for each subcontractor equivalent to that required.

7-1.06D Liability Insurance

7-1.06D(2) Liability Limits/Additional Insureds

Replace section 7-1.06D(2) with:

The County of Santa Cruz requires Contractors to provide a copy of their insurance certificate with the information and limits outlined below:

1. Include Contractor/vendor name and current address.
2. General Liability (Comprehensive or Commercial Liability) Coverage
 - 2.1. \$2,000,000 combined single limit required
 - 2.2. \$2,000,000 Products – Comp./Op. Agg. required
 - 2.3. Damage to Rented Premises – required coverage
 - 2.4. Medical Expenses (bodily injury) – required coverage
 - 2.5. Personal & Adv. Injury – required coverage
 - 2.6. General Aggregate – required coverage
 - 2.7. The box for 'Occur' should be checked
3. Automobile Liability Coverage
 - 3.1. Required unless the Contractor does not drive a vehicle in conjunction with any part of the performance of the contract and certifies to this fact
 - 3.2. \$1,000,000 combined single limit (minimum requirement)
 - 3.3. 'Any Auto' selection preferred
4. Workers Compensation (see section 7-1.06C)
5. Professional Liability
 - 5.1. Required for professional services; recommended coverage for other services
 - 5.2. \$1,000,000 combined single limit (minimum requirement when required)
6. Umbrella Liability (optional coverage at the discretion of Contractor)
7. All policies of Comprehensive or Commercial General Liability shall be endorsed to contain the following clause:

"*District, its officials, employees, agents and volunteers as additional insureds with respect to liability arising out of the work or operations and activities performed by or on behalf of 'CONTRACTOR', including materials, parts or equipment furnished in connection with such work or operations".

Endorsements shall be at least as broad as ISO Form CG 20 10 11 85, or both CG 20 10 10 01 and CG 20 37 10 01, covering both ongoing operations and products and completed operations.

8. All required insurance policies shall be endorsed to contain the following clause:

"This insurance shall not be canceled until after thirty (30) days' prior written notice (10 days for nonpayment of premium) has been given to *District.

9. *District must be named as certificate holder. Correct address must also be entered, along with room number.

7-1.06D(3) Liability Limits/Additional Insureds

Remove section 7-1.06D(3)

7-1.06E Automobile Liability Insurance

Replace section 7-1.06E:

Coverage shall be per section 7-1.06D(2).

7-1.06F Policy Forms, Endorsements, and Certificates

Replace section 7-1.06F:

Coverage shall be provided per section 7-1.06D(2).

7-1.06G Deductibles

Remove section 7-1.06E:

Pay all deductibles and self-insured retentions (SIR) within 5 working days.

8 PROSECUTION AND PROGRESS

8-1.02 SCHEDULE

8-1.02C Level 2 Critical Path Method Schedule

8-1.02C(7) Update Schedule

Add to section 8-1.02C(7):

You are responsible for notifying the engineer of any scheduling changes. Provide the Engineer with an up to date 3-week look ahead schedule by 5:00 P.M. every Thursday. All notification of changes shall be in writing and must be submitted to the Engineer before 5:00 P.M. on the Thursday before the week the work is scheduled so the County can prepare a press release for each week.

8-1.04 START OF JOB SITE ACTIVITIES

8-1.04F Flexible Start

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

The 1st and 2nd paragraphs of section 8-1.04B do not apply.

Within 10 days after receiving notice that the Contract has been approved, submit a request for authorization to start job site activities. The request must include:

1. CPM baseline schedule
2. Date you plan to start job site activities, which must comply with:
 - 2.1 Jobsite activities must not start before May 29, 2025
 - 2.2 Jobsite activities must start before July 8, 2025.

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

1. CPM baseline schedule
2. WPCP or SWPPP, whichever applies
3. Construction Staging Area Notification Form
4. Role Designation & Proof of Certification(s)/Training(s)
5. Traffic Control Plans from section 5-1.20B(3), if applicable
6. Submittals from section 14-6.03, if applicable

Working days will begin on your requested start date. If you obtain authorization to start job site activities for the date you requested, start job site activities on the requested date. If you fail to submit a request for

authorization to start job site activities as specified, working days will begin being charged on July 8, 2025.

8-1.10 LIQUIDATED DAMAGES

8-1.10A General

Replace the 3rd paragraph of section 8-1.10A with:

Total Bid		Liquidated damages per day
From over	To	
\$0	\$200,000	\$700
\$200,00	\$500,000	\$900
\$500,000	\$1,000,000	\$1,100
\$1,000,000	\$2,000,000	\$1,300
\$2,000,000	\$5,000,000	\$2,600
\$5,000,000	\$10,000,000	\$3,500

8-1.13 CONTRACTOR'S CONTROL TERMINATION

Replace the last sentence of the 4th paragraph of section 8-1.13 with:

The County will take control of the work or require your Surety to complete it.

Add to section 8-1.13:

If you should be adjudged bankrupt or make an assignment for the benefit of your creditors, or if a receiver should be appointed on account of your insolvency, the County may declare your control over the work terminated, and so notify you and your Sureties.

Upon such termination, the County may take possession, and use all or any part, of your materials, tools, equipment, and appliances upon the premises to complete the work; the County assuming responsibility for the final relinquishment of such equipment at the conclusion of the work, or sooner, at its option, in as good condition as when it was taken over, reasonable wear and tear excepted; and the County agrees to pay for such materials and the use of said equipment at a reasonable compensation.

Upon such termination or the County's declaration that you are in default, the County may direct the Surety to complete, or cause to be completed, the Contract work, or the County may direct that all or any part of the work be completed by day labor, or by employment of other Contractors on informal Contracts, or both. If the County directs the Surety to complete or cause to be completed, the Contract work, your performance bond Surety agrees to immediately undertake to complete or cause to be completed, all Contract work.

If your control over the work is terminated and the County takes control of the work, you are not entitled to receive any portion of the amount to be paid under the Contract until it is fully completed. After completion, if the unpaid balance exceeds the sum of the amount expended by the County in finishing the work, plus all damages sustained, or to be sustained, by the County, plus any unpaid claims on account of labor, materials, tools, equipment, or supplies contracted for by you for the work herein contemplated, the excess not otherwise required by these Contract Documents to be retained will be paid by the you . If the sum so expended exceeds the unpaid balance, you and your surety are liable to the County for the amount of such excess.

If the County directs the Surety to complete or cause to be completed, the Contract work, your performance bond Surety agrees to immediately undertake to complete or cause to be completed, all Contract work. The Surety will be subrogated to money due under the Contract, and to money which will become due in the course of completion by the Surety. However, you and your Surety agree that any subrogation rights of Surety are subordinate to and inferior to the rights of the County.

9 PAYMENT

9-1.07 PAYMENT ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS

Delete section 9-1.07

9-1.16 PROGRESS PAYMENTS

9-1.16F Retentions

Replace section 9-1.16F with:

Retention will be 5% and conform to PCC 7201.

The County may hold retainage and shall make prompt and regular incremental acceptances of portions, as determined by the County, of the Contract work, and pay retainage to you based on these acceptances. You, or your subcontractor, shall return all monies withheld in retention from a subcontractor within seven (7) days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the Contract work by the County, unless as agreed to in writing by you and your subcontractor, pursuant to Section 7108.5 of the Business and Professions Code. Any violation of this provision shall subject the violating Contractor or subcontractor to the penalties, sanctions and other remedies specified in Section this code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to you or your subcontractors in the event of a dispute involving late payment or nonpayment by you, deficient subcontract performance, or noncompliance by a subcontractor.

Pursuant to Section 22300 of the Public Contract Code, the Contractor may substitute a deposit of securities in lieu of the County of Santa Cruz withholding any monies to ensure Contractor's performance under the Contract, or alternatively, request that the County of Santa Cruz make payment of retentions earned directly to an escrow agent at the expense of Contractor. The provisions of Public Contract Code Section 22300 are incorporated herein by reference as though set forth in full, and shall govern the substitution of securities and/or escrow account.

9-1.17 PAYMENT AFTER CONTRACT ACCEPTANCE

9-1.17D Final Payment and Claims

9-1.17D(1) General

Replace the 1st paragraph of section 9-1.17D(1):

If you accept the proposed final estimate or do not submit a claim statement within 30 days of receiving the estimate, the Engineer provides you with the final estimate and the County pays the amount due after Board of Supervisors' approval of the Notice of Completion. This final estimate and payment are conclusive except as specified in sections 5-1.27, 5-1.47, and 9-1.21.

DIVISION II GENERAL CONSTRUCTION

12 TEMPORARY TRAFFIC CONTROL

12-1 GENERAL

12-1.03 CONSTRUCTION

Add to section 12-1.03:

Provide full traffic control with lane closures for digout marking. The Engineer will mark digouts prior to construction. Coordinate with the Engineer regarding scheduling of traffic control for digout marking. Once digouts on a road segment are marked, the Engineer will tabulate total areas and may require a second walkthrough with traffic control in place to review marked digouts before digout marking is complete.

12-1.04 PAYMENT

Replace section 12-1.04 with:

Flagging, advance flagging, additional flagging, and Traffic Control Technicians are included in the payment for traffic control system.

12-3 TEMPORARY TRAFFIC CONTROL DEVICES

12-3.11 CONSTRUCTION AREA SIGNS

12-3.11B MATERIALS

12-3.11B(5) General Information Signs

12-3.11B(5)(a) General

Replace *Reserved* in section 12-3.11B(5)(a) with:

Construct **16** Project Notification Signs for use on the project, conforming to the Project Notification Sign detail in the Information Handout of these Special Provisions. Coordinate with the Engineer to determine appropriate locations for placement of Project Notification Signs. Project Notification Signs shall be in place 7 days prior to commencement of construction activities and shall remain in place until project completion unless otherwise directed by the Engineer.

12-3.11C CONSTRUCTION

12-3.11C(1) General

Add to section 12-3.11C(1):

Post "Temporary No Parking" signs along the streets with potential for on street parking that are scheduled for work a minimum of 2 working days prior to commencing with resurfacing. A minimum of 2 working days prior to commencing the resurfacing, place "doorknob hangers" on all residences and businesses that are within the area affected by the road work. The doorknob hangers shall contain the overlay and/or seal schedule and the time and date that the no parking restrictions will be enforced. The flier shall clearly specify that all vehicles shall be removed from the posted area. Provide a phone number on the doorknob hangar where a representative of the Contractor will be available to answer questions from the public regarding the resurfacing, between the hours of 8:00 AM and 5:00 PM, weekends and holidays excluded. If you are unable to complete the area of the resurfacing as listed in the press release and doorknob hangers, you must re-schedule the work for that area and comply with all noticing and signing provisions of this section.

All "Temporary No Parking" Signs shall contain the following information:

The Words: "TOW AWAY"

The Words: "NO PARKING"

The Times of day that No Parking will be in effect

The Date or Date Range that No Parking will be in effect

The Words: "C.V.C. 22651"

Signs shall be 12"x18" in size with red lettering on white background as shown in detail contained in the Information Handout of these specifications.

Temporary No Parking Signs shall be posted at least 2 working days prior to the start date referenced on the sign. Signs shall be posted at a visible and stable location adjacent to Temporary No Parking area. Signs shall be posted every 50 feet for on-street parallel parking, and

every 25 feet for on-street diagonal parking spaces. Signs shall also be posted at the beginning and end of a block or portion of a block. Signs in off-street parking lots will be posted on barricades at all lot entrances.

If necessary, you are responsible for notifying the California Highway Patrol at (831) 662-0511 for clearing the streets of parked cars. California Highway Patrol will not tow vehicles if signs are not properly in place or do not contain the information described above; in the event work is delayed due to improper signage, all costs related to said delays shall be borne by the Contractor.

“No Parking” signs or doorknob hangers shall not be posted until they have been reviewed as to form and approved by the Engineer. Submit “No Parking” signs and doorknob hangers for review by the County two weeks before starting the project.

Immediately prior to resurfacing operations, post “Construction Zone - 25 Miles per Hour” and “Loose Gravel” signs on all routes or as requested by the Engineer. If requested by the Engineer, also place “Wet Oil” signs. Maintain these signs until such time as no further hazard exists from loose gravel or wet oil.

Before a lane closure will take place, warning signs for road closure shall be installed at road intersections, with the specific locations determined by the Engineer. Coordination with the County Traffic Engineer is mandatory at least 72 hours in advance of all road closures.

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

1. Friday after 3:00 p.m.
2. Saturday
3. Sunday
4. Designated holidays
5. Special days

Lane or road closures shall not commence before 8:30 a.m. and shall cease at 4:30 p.m.

EARLY LANE CLOSURES

If a lane closure begins early to public traffic by the specified time, work shall be suspended in conformance with the provisions in Section 8-1.06, "SUSPENSIONS", of the Standard Specifications.

LATE REOPENING OF LANE CLOSURES

If a lane closure is not reopened to public traffic by the specified time, work shall be suspended in conformance with the provisions in Section 8-1.06, "SUSPENSIONS", of the Standard Specifications.

For each 10-minute interval, or fraction thereof early or past the time specified to start or reopen the closure, the County will deduct the amount shown in the table below. Damages are limited to 5 percent of project cost per occurrence and will not be assessed when the Engineer requests that the closure remain in place beyond the scheduled pickup time.

<u>Route or Segment</u>	<u>Damages/interval (\$)</u>
All Roads	\$500 /10 minutes

Permanent roadside signs that must be removed to facilitate project activities shall be removed and salvaged by the Contractor. Replace any permanent signs damaged by the Contractor's activities, unless otherwise shown on the plans.

All work in Rogge Ln shall be completed during the school shutdown (summer break) period for San Juan Unified School District, which is expected to be from June 6th, 2025, to August 14th, 2025.

All work on Paul Minnie Av shall be completed during the school shutdown (summer break) period for Live Oak School District, which is expected to be from May 30th, 2025, to August 7th, 2025.

All work on Main St and E. Walnut St shall be completed during the school shutdown (summer break) period for Soquel Union Elementary School District, which is expected to be from May 28th, 2025, to August 7th, 2025.

12-3.11D Payment

Add to section 12-3.11D

Construction area signs are included in the payment for Traffic Control System, including signs required per section 5-1.20B(3), section 12-3.11, Project Notification Signs, No Parking Signs, doorknob hangers, and any additional signs detailed in the plans or specs.

12-4 MAINTAINING TRAFFIC

12-4.02 TRAFFIC CONTROL SYSTEMS

12-4.02A General

12-4.02A(3) Submittals

12-4.02A(3)(b) Closure Schedules

Replace section 12-4.02A(3)(b) with:

Every Monday by noon, submit to the Engineer the lane closure schedule, in accordance with previously approved traffic control plans, for closures planned for the next week. The next week is defined as Sunday at noon through the following Sunday at noon. Lane closure requests are an informational submittal which must utilize form "Weekly Traffic Control Schedule". Late submittals or revisions will only be authorized at the discretion of the Engineer.

The Engineer notifies you of submitted closures which are not authorized and closures that require coordination with other parties as a condition for authorization.

Cancel closure requests by notifying the Engineer at least 48 hours before the start time of the closure.

12-4.02C Construction

12-4.02C(1) General

Add to section 12-4.02C(1):

A minimum of one lane must be maintained and open for traffic at all times unless otherwise specified.

12-4.02C(3) Closure Requirements and Charts

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

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

Lane Closure Restrictions For Designated Holidays And Special Days											
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun	Mon
	H										
x	xx	xx	xx								
	SD										
	xx										
		H									
x	xx	xx	xx								
		SD									
		xx									
			H								
	x	xx	xx	xx							
			SD								
			xx								
				H							
	x	xx	xx	xx	xxx						
				SD							
	x	xx	xx	xx	xxx						
					H						
				x	xx						
					SD						
				x	xx						
						H					
					x	xx					
						SD					
						xx					
							H				
						x	xx	xx	xx	xx	
							SD				
							xx				
Legend:											
x	The full width of the traveled way must be open for use by traffic after 1400.										
xx	The full width of the traveled way must be open for use by traffic.										
xxx	The full width of the traveled way must be open for use by traffic until 1000.										
H	Designated holiday										
SD	Special day										

12-4.02C(9) Flagging

12-4.02C(9)(a) General

12-4.02C(9)(a)(iii) Submittals

Add to Section 12-4.02C(9)(a)(iii)

Submit the designated Flagger & Traffic Control Technician on the *Role Designation & Proof of Certification(s)/Training(s)* provided in Bid Book 1, within 10 business days of Contract Approval.

12-4.02C(11) Traffic Control Technician

12-4.02C(11)(c) Construction

Add section 12-4.02C(11)(c)

The traffic control technician must coordinate with the Engineer the implementation of traffic control systems and traffic handling plans prior to construction, and before major changes in traffic control.

Add to the 2nd paragraph of Section 12-4.02C(11)(c):

A flagger can be named as the Traffic Control Technician when no more than two concurrent closures are being performed.

12-6 TEMPORARY PAVEMENT DELINEATION

12-6.04 PAYMENT

Add to section 12-6.04:

No traffic is allowed to resume on the roadway before temporary delineation is in place. For each failure to comply, the County will deduct the amount shown in the table below until temporary delineation is in place. The County may utilize its own resources at any time to place temporary delineation and deduct the cost of this work per Section 5-1.30 of the Standard Specifications.

<u>Route or Segment</u>	<u>Damages/interval (\$)</u>
All Roads	\$1000 + \$1000/24 hours

Temporary delineation shall be included in the price paid for Traffic Control System and no additional compensation will be allowed therefor.

12-7 TEMPORARY PAVEMENT DELINEATION FOR SEAL COATS

12-7.04 PAYMENT

Replace *Not Used* in section 12-7.04 with:

No traffic is allowed to resume on the roadway before temporary delineation is in place. For each failure to comply, the County will deduct the amount shown in the table below until temporary delineation is in place. The County may utilize its own resources at any time to place temporary delineation and deduct the cost of this work per Section 5-1.30 of the Standard Specifications.

<u>Route or Segment</u>	<u>Damages/interval (\$)</u>
All Roads	\$1000 + \$1000/24 hours

Temporary delineation shall be included in the price paid for Traffic Control System and no additional compensation will be allowed therefor.

13 WATER POLLUTION CONTROL

13-1 GENERAL

13-1.01 GENERAL

13-1.01A Summary

Add to section 13-1.01A:

All Department references in Section 13 refer to State of California Department of Transportation. Comply with all Department of Transportation templates, manuals, and permits, regardless of the project's regulatory requirements, unless otherwise specified in this section.

All minimum BMPs provided in Section 2.3 of the Construction Site Best Management Practices (BMPs) Manual listed under the CGP shall be used, regardless of the project's actual regulatory requirements.

13-1.01D Quality Assurance

13-1.01D(2) Regulatory Requirements

Replace section 13-1.01D(2) with:

Projects are regulated under the Phase II Regulated Small MS4s ORDER 2013-0001-DWQ NPDES NO. CAS000004 (and subsequent amendments) or the California Construction General Permit ORDER NO. 2009-0009-DWQ.

Regardless of the project's regulatory requirements, comply with all Department of Transportation specification, templates, and manuals as if work were regulated under the Department of Transportation's Construction General Permit Order No. 2012-0011 -DWQ, NPDES No. CAS000003.

13-1.01D(4) Water Pollution Control Manager

13-1.01D(4)(b) Qualifications

Replace section 13-1.01D(4)b with:

The WPC manager must:

1. Comply with the requirements provided in the Construction General Permit, regardless of project regulatory requirement, for:
 - 1.1. QSP if the project requires a WPCP
 - 1.2. QSD if the project requires a SWPPP

Submit the designated WPC manager information on the *Role Designation & Proof of Certification(s)/Training(s)* provided in Bid Book 1, within 10 business days of Contract Approval.

13-1.03C Inspections

Replace item 4 of paragraph 1 in section 13-1.03C:

4. On a predetermined schedule of at least once a week or as approved by the Engineer

13-1.04 PAYMENT

Add to section 13-1.04:

All BMPs identified in the Caltrans Construction Site BMP Manual Section 2.3 "Minimum Construction BMPs" CGP column must be implemented and are a part of the payment of "Prepare Water Pollution Control Program" or "Prepare Storm Water Pollution Prevention Plan" bid item(s). Any additional BMPs identified in the WPCP/SWPPP must be implemented at your expense.

Payment for the Water Pollution Control Program (WPCP) is included in the various contract bid items and no additional compensation will be allowed therefor.

The County does not pay for maintenance costs of any BMPs.

13-4 JOB SITE MANAGEMENT

13-4.03 CONSTRUCTION

13-4.03F Sweeping

Add to third paragraph section 13-4.03F:

3. 4 hours of being notified by the Engineer of a location which requires additional sweeping. If notified you must promptly comply.

Replace the 5th paragraph of section 13-4.03F with:

No dumping of swept debris will be allowed within the County right-of-way. You are responsible for proper disposal of sweepings and sediment.

Add to section 13-4.03F:

You are responsible for the sweeping and removal of loose gravel or sand for a period of two weeks following the road work on that route.

The County may correct each failure to adequately comply with sweeping requirements.

The County will deduct \$1,000, plus the cost for this work, for each occurrence where sweeping requirements are not met. Deduction amounts will be deducted from the next progress payment.

13-4.03G Dewatering

Add to section 13-4.03G:

Requests to discharge to the sanitary sewer system must be directed to the Sanitation District Environmental Programs Coordinator and are subject to Special Discharge permits, discharge fees, and measures to control total suspended solid requirements of the wastewater treatment facility.

14 ENVIRONMENTAL STEWARDSHIP

14-11 HAZARDOUS WASTE AND CONTAMINATION

14-11.12 REMOVAL OF YELLOW TRAFFIC STRIP AND PAVEMENT MARKING WITH HAZARDOUS WASTE RESIDUE

Add after the 2nd paragraph of section 14-11.12A:

This project includes removal of yellow thermoplastic traffic stripe that will produce hazardous waste residue.

14-12 OTHER AGENCY REGULATORY REQUIREMENTS

Add section 14-12.04:

14-12.04 COUNTY OF SANTA CRUZ AVOIDANCE AND MINIMIZATION MEASURES

Section 14-12.04 includes specifications for working in areas within the jurisdiction of the County of Santa Cruz.

14-12.04A Storage Areas Avoidance and Minimization Measures

Material and equipment storage is restricted to existing unvegetated pullouts and paved areas in the County right-of-way, and not within the drip-line of oak trees or within the riparian corridor.

14-12.04B Invasive Species Avoidance and Minimization Measures

To reduce the spread of invasive non-native plant species the County will implement the following protection measures to comply with Executive Order 13112:

1. Any invasive plant materials removed during construction will be contained and treated as trash and disposed of in a permitted landfill.
2. Contract specifications for permanent erosion control will require the use of California native forbs and grasses from the same elevation and geographic area as the project site.
3. Mulches used on the project will be from source materials that will not introduce exotic species.

Add section 14-12.05:

14-12.05 CEQA DETERMINATION

County of Santa Cruz has determined the project to be exempt from CEQA, under Statutory Exemption other than a Ministerial Project (CEQA Guidance Section 15260 to 15285).

A copy of the County of Santa Cruz CEQA determination (Notice of Exemption) shall be kept on-site at all times.

15 EXISTING FACILITIES

15-1.03 CONSTRUCTION

Replace section 15-1.03D with:

15-1.03D Replace Destroyed Monument

The Contractor's attention is directed to Part 2, Section K of the Santa Cruz County Design Criteria – "Survey Monument Boxes", County Standard Detail FIG ST-11a "Standard Street Monument", and Section 81 "Monuments" of the Standard Specifications and to these special provisions.

The intent of this bid item is to restore County monuments which will be destroyed by project activities, using record maps to re-establish monument locations, and to file a Corner Record or Record of Survey (whichever is appropriate) for each newly restored monument upon completion.

The contractor shall retain the services of a Licensed Land Surveyor for this bid item for the purpose of restoring destroyed monuments. The County will identify existing monuments in the work zone prior to construction. During the digout marking phase, the County will determine which monuments will be destroyed as a result of digout operations. A list of these monuments will be provided to the Contractor at that time.

The contractor's surveyor shall submit a pre-construction Corner Record for monuments designated to be destroyed, and a post-construction Corner Record for the resetting of destroyed monuments. Installation of the monuments and monument wells may be done by the contractor (or subcontractor) under the direction of the contractor's surveyor. The contractor's surveyor shall be responsible for ensuring that the monument is correctly placed.

Only the monuments designated by the County for destruction shall be considered part of this bid item. All other monuments shall be protected from damage. Any monuments not designated for destruction which are damaged as a result of construction activities shall be restored at the Contractor's expense.

Restored monuments and monument boxes shall conform to FIG ST-11a of the County of Santa Cruz Design Criteria in the Appendix of these special provisions.

Asphalt concrete removal shall be performed without damage to any portion that is to remain in place. All damage to existing asphalt concrete which is to remain in place shall be repaired to a condition equal to that which existed prior to the beginning of removal operations. The cost of repairing existing asphalt concrete damaged by the Contractor's operations shall be borne by the Contractor.

The Contractor's surveyor shall file pre-construction and post-construction Corner Records with the County Surveyor's Office for all destroyed and replaced survey monuments. The Corner Records must be prepared by a Licensed Land Surveyor and conform to Professional Land Surveyors Act. Full compensation for creating and filing pre and post-construction Corner Records shall be considered as included in the contract price paid for Replace Destroyed Monument.

Replace section 15-1.03F with:

15-1.03E Adjust Existing Monument to Grade

The Contractor's attention is directed to Part 2, Section K of the Santa Cruz County Design Criteria – "Survey Monument Boxes" and Section 78-2 "Survey Monuments" of the Standard Specifications and to these special provisions.

Adjustment of monument frames and covers shall be performed after paving and road sealing is complete. Quantity of monuments to be adjusted shall be limited to the amount which can be completed in that workday. The top of the monument cover shall be adequately protected from asphalt concrete and road seals during paving operations by means of a plywood cover, or by another method approved by the Engineer, and its location shall be carefully noted and referenced. All excess paving material shall be removed prior to rolling.

The existing monument pipe shall be left in place undisturbed and the monument box shall be raised to road grade around the monument, in no case shall the contractor move the existing monument.

Frames or covers of new or existing survey monuments shall be adjusted to grade with new materials approved by the Engineer. Such raising devices must be of one-piece construction equal to, or better than, standard survey monument concrete grade rings as used in major adjustment of survey monument grades.

After the existing cover or frame has been removed, the top of the structure to be raised shall be trimmed to provide a suitable foundation for the new material. **The concrete ring surrounding the monument shall extend to the finished roadway surface per FIG EP-9 of the County of Santa Cruz Design Criteria in the Appendix of these special provisions.**

Concrete removal shall be performed without damage to any portion that is to remain in place. All damage to existing concrete which is to remain in place shall be repaired to a condition equal to that which existing prior to the beginning of removal operations. The cost of repairing existing concrete damaged by the Contractor's operations shall be borne by the Contractor.

The shape and size of the raising devices shall match the existing frame and shall produce an installation which is equal to or better than the existing installation in stability, support, and non-rocking characteristics. Each section of the raising device shall be fastened securely to the existing frame without projections above the surface of the street, or into the clear opening.

Survey monuments to be adjusted by means of raising devices shall be measured sufficiently in advance of paving and sealing operations. For identification, matching numbers shall be painted on each structure and the raising device to be installed thereon.

Replace section 15-1.03F with:

15-1.03F Adjust Existing Manhole to Grade

Adjustment of manhole frames and covers shall be performed after paving and road sealing is complete. Quantity of manholes and cleanouts to be adjusted shall be limited to the amount which can be completed in that work day. The top of the manhole cover shall be adequately protected from asphalt concrete and road seals during paving operations by means of a plywood cover, or by another method approved by the Engineer, and its location shall be carefully noted and referenced. All excess paving material shall be removed prior to rolling.

Frames, covers, or grates of new or existing manholes, inlets, or other facilities shall be adjusted to grade with new materials approved by the Engineer. Such raising devices shall be of one piece construction equal to, or better than, standard manhole concrete grade rings as used in major adjustment of manhole grades.

After the existing cover or grate frame has been removed, the top of the structure to be raised shall be trimmed to provide a suitable foundation for the new material. The concrete ring surrounding the manhole shall extend to the finished roadway surface per the County of Santa Cruz Design Criteria. Relevant details are included in the of these special provisions.

Concrete removal shall be performed without damage to any portion that is to remain in place. All damage to existing concrete which is to remain in place shall be repaired to a condition equal to that which existed prior to the beginning of removal operations. The cost of repairing existing concrete damaged by the Contractor's operations shall be borne by the Contractor.

The shape and size of the raising devices shall match the existing frame and shall produce an installation which is equal to or better than the existing installation in stability, support, and non-rocking characteristics. Each section of the raising device shall be fastened securely to the existing frame without projections above the surface of the street, or into the clear opening.

Manholes and inlets to be adjusted by means of raising devices shall be measured sufficiently in advance of the paving operations. For identification, matching numbers shall be painted on each structure and the raising device to be installed thereon.

15-1.04 Payment

Replace section 15-1.04 with:

The contract unit price paid for each Installation of Replace Destroyed Monument shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work involved in re-establishing monument locations, installing monuments and monument boxes to grade, and filing Corner Records for restored monuments, and no additional compensation will be allowed therefor.

The contract unit price paid for each Adjust Existing Monument to Grade shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work involved in adjusting survey monuments to grade as identified in the field and as directed by the Engineer, and no additional compensation will be allowed therefor.

The contract unit price paid for each Adjust Existing Manhole to Grade shall include full compensation for furnishing all labor, material (excluding frames and covers to be provided by the County), tools, equipment, and incidentals, and for doing all the work involved in adjusting manholes to grade as identified in the field and as directed by the Engineer, and no additional compensation will be allowed therefor.

DIVISION III EARTHWORK AND LANDSCAPE

17 GENERAL

17-1 GENERAL

17-2 CLEARING AND GRUBBING

17-2.01 GENERAL

Add to section 17-2.01:

Clearing and Grubbing shall include the removal of dirt, debris, or other vegetation that may be needed to uncover any portions of existing roadway which may be buried or otherwise obscured or to provide equipment access for resurfacing operations. Clearing and grubbing shall be completed prior to digout marking. The roadway shall be swept after clearing and grubbing and before resurfacing operations to remove any remaining debris.

17-2.03 CONSTRUCTION

17-2.03A General

Replace the fourth and fifth paragraphs of section 17-2.03A with:

Clear to the edges of pavement along the entire length and full width of the roadway.

All existing vegetation outside the areas to be cleared and grubbed shall be protected from injury or damage resulting from the Contractor's operations. If decorative/ornamental landscaping will prevent equipment access for paving and sealing the full width of the roadway, notify the adjacent landowner prior to trimming. If the landowner is unavailable, bypass that portion of the work and contact the Engineer for further direction.

All activities controlled by the Contractor, except cleanup or other required work, shall be confined within the immediate areas of the project.

17-2.03B Clearing

Replace section 17-2.03B with:

Clear any overhanging trees or other vegetation that would interfere with equipment access.

Clear existing roadway of all dirt, debris, and vegetation such as trees, logs, upturned stumps, roots of down trees, brush, grass, and weeds, and other objectionable material including concrete, masonry, and debris. Expose the full width of the roadway from pavement edge to pavement edge prior to digout marking and any road resurfacing operations. Sweep to remove any remaining debris after clearing.

17-2.03C Grubbing

Replace section 17-2.03C with:

Reserved

17-2.03D Disposal of Materials

Replace section 17-2.03D with:

All removed vegetation, trees, stumps, slash, and debris shall become the property of the Contractor and shall be removed and disposed of at the Contractor's expense. No dumping of cleared and grubbed materials on County roadways or in the County right of way shall be allowed. The cleared areas shall be free of slash and debris and the ground surface regraded to a smooth surface and treated with erosion control measures per these special provisions.

17-2.04 PAYMENT

The contract lump sum price paid for Clearing and Grubbing shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for removal of dirt, debris, or other vegetation that may be needed to uncover any portions of existing roadway which may be buried or otherwise obscured or to provide equipment access for resurfacing operations, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor.

Any costs related to delays or remobilization caused by inadequate clearing and grubbing shall be borne by the contractor.

DIVISION IV SUBBASES AND BASES

26 AGGREGATE BASES

26-1 GENERAL

26-1.02 MATERIALS

26-1.02B Class 2 Aggregate Base

Replace 1st sentence in section 26-1.02B:

The aggregate gradations must be within the percentage passing limits for 3/4" maximum as shown in the following table:

30 RECYCLED PAVEMENT

30-4 FULL DEPTH RECYCLING-CEMENT

30-4.01 GENERAL

30-4.01A Summary

Add the following items to the second paragraph of section 30-4.01A:

9. Quality control plan and implementation
10. Performing mix design, including test pits

30-4.01C Submittals

30-4.01C(1) General

Add to section 30-4.01C(1):

The Contractor performing the FDR-cement shall conduct a Just-In-Time Training (JITT). The training shall consist of a formal joint training class on the process, required special equipment, placement, compaction methods, and quality control of FDR-cement. Construction operations for FDR-cement shall not begin until the Contractor's and the County's personnel have completed the JITT. The JITT training class shall be conducted at a location convenient for both the Contractor and the County. The JITT class shall be completed not more than 7 days prior to the start of the FDR-cement process and shall be held during normal working hours. The Contractor shall provide a JITT instructor experienced in the construction methods, materials, and test methods associated with construction of FDR-cement projects.

A copy of the course syllabus, handouts, and presentation material shall be submitted to the County at least 7 days before the day of the training. The Contractor and the County shall mutually agree upon the course instructor, course content, and training site.

Provide the following information, prior to commencement of FDR-cement:

1. Description of the proposed equipment and construction methods.
2. The Contractor (or Subcontractor) performing the FDR-cement work shall submit documentation demonstrating a minimum of 5 years experience performing similar stabilization work, including a list of a minimum of 5 successfully completed FDR-cement projects. Submit project name, agency/owner, project engineer, and construction dates.

30-4.01C(2) Quality Assurance Submittals

30-4.01C(2)(a) General

Replace Reserved in section 30-4.01C(2)(a) with:

Provide the following information, during FDR-cement operations:

1. Certified weight tickets for each load of cement delivered to the project location each day.
2. Certificates of compliance for each load of cement delivered to the project location each day.
3. A summary of quantity of FDR-cement constructed each day.

30-4.01D Quality Assurance

30-4.01D(1) General

Replace item 1 of paragraph 1 in section 30-4.01D(1) with:

1. The maximum compacted thickness of a single layer shall be limited to that thickness the contractor can demonstrate using their equipment and method of operation will provide the required compacted density throughout the treated layer to the satisfaction of the Engineer. No layer thickness shall exceed 18 inches.

30-4.02 MATERIALS

30-4.02B Cement

Replace Reserved in Section 30-4-02B with:

All cement to be used or furnished shall conform to ASTM C150. The cement shall be protected from moisture until used and be sufficiently dry to flow freely when handled. Cement shall be furnished in bulk and not exposed until applied to prepared grade. There are no substitutions for Portland cement.

30-4.02C Water

Replace Reserved in Section 30-4-02C with:

Water used for curing shall be clean and free of oil, salt, acid, alkali, sugar, organic matter or other substances deleterious to the cement treatment of materials. The water shall not contain more than 1000 parts per million of chlorides, nor more than 1000 parts per million of sulfates as SO₄.

30-4.03 CONSTRUCTION

30-4.03A General

Add to section 30-4.03A:

It is likely that the proposed FDR-cement process could conflict with existing utilities. The Contractor shall verify, by potholing or other means acceptable to and approved by the County, that there is sufficient cover over the utilities to provide clearance for the FDR-cement mixing process without damage to the existing utility facilities. This verification shall be carried out where each utility crosses the boundary of the FDR-cement section, and at a minimum of one location in between. This paragraph shall not relieve the

Contractor of conforming with all utility protection requirements. The Contractor shall be responsible for the protection of existing pipelines, manholes, catch basins, valve boxes and other utility structures that are to remain within the FDR-cement work area. Any such utility facilities that are damaged from roadway excavation work performed by the Contractor shall be either repaired or replaced to the satisfaction of the County at no cost to the County.

30-4.03B Equipment

Add to section 30-4.03B:

Cement shall be distributed with a non-pressurized mechanical vane-feed spreader equipped with on-board scales and controls capable of spreading the cement at a prescribed weight per unit area. The spreader shall demonstrate the ability to maintain a consistent spread rate over variable travel speeds.

All cement spreaders used to apply cement to FDR grade shall be equipped with a "Dust Recovery" Vacuum System controlled by the spreader operator. Vacuum System shall be powerful enough to capture fugitive dust without removing cement from grade.

Mixing of the pulverized material, cement, and water shall be done with a four-wheel drive rotary mixer (CMI RS-650, CAT 500 or equivalent). The mixing machine shall have equipment provisions for introducing water at the time of mixing through a metering device.

Compact using a sheepsfoot or segmented wheel roller followed by steel drum or pneumatic-tired rollers.

30-4.03C Pulverizing

Add to section 30-4.03C:

The existing asphalt concrete (AC) surfacing and the underlying base or subgrade material shall be initially pulverized to the depth specified for the given project roadway. If the existing AC is greater than the specified depth, the material shall be pulverized slightly below the depth of the existing AC.

The pulverized material shall be initially graded to conform to the grading tolerances outlined in these special provisions prior to application of the cement.

Trimming and disposal of excess material, if required, will be performed on the initial mixture of FDR materials prior to cement treatment. Excess material is the surplus that results after trimming and grading of the pulverized section. The rough FDR top-grade should be trimmed sufficiently to allow for bulking from added cement volume and proper material compaction.

The Contractor shall not pulverize or remove any existing roadway sections unless they can be relayed in the same working day. In the event material has been pulverized and the FDR-cement process cannot be completed that working day, the pulverized material shall be temporarily compacted at the end of the working day with a smooth drum roller, such that the road may be fully reopened to traffic.

30-4.03D Spreading Materials

Add to section 30-4.03D:

The Engineer reserves the right to increase the rate of application of cement from the specified rate during the progress of construction as necessary to maintain the desired characteristic of the FDR-cement stabilized section.

The consistency of the spread rate should be demonstrated by conducting multiple pan tests. The pan test consists of placing a 3 square foot pan on the grade in front of the spreader truck. After cement spreader truck has passed over the pan, the cement captured in the pan is weighed to determine the rate of spread in pounds per square foot. Truck tags will be used to verify amount of cement delivered to project. No traffic other than the mixing equipment shall be allowed to pass over the spread cement until the mixing operation is completed. Cement shall be added in a dry state and every precaution shall be taken to prevent fugitive cement from leaving the work zone. Cement shall not be spread or mixed/hydrated while the atmospheric temperature is below 35°F. At the Engineers discretion, processing will be allowed if temperature is rising.

The contractor is responsible for dust control on the project as specified. Treat vulnerable areas of the project as necessary to control dust from construction equipment and public traffic.

30-4.03E Mixing

Add to section 30-4.03E:

In any areas where mixing equipment cannot access, such as around manholes, utility risers, valves, and adjacent to curbs/gutters or in corners, FDR material shall be pulled out by the contractor to the depth of treatment, and relocated such that it is accessible to mixing equipment. After the material is mixed with the reagent, it shall be placed back and compacted by the Contractor.

The full depth of the treated FDR section shall be mixed a minimum of two times with the approved mixing machine. At least one of the two mixes shall be done while introducing water into the pulverized material through the metering device on the mixer. Water shall be added to the FDR section during mixing to provide a moisture content not less than 1 percentage point below nor more than two percentage points above (-1 to +2 of OMC) the optimum moisture of the soil-cement mixture (ASTM D 558) to ensure chemical action of the cement and soil.

Mixed material shall be tested to demonstrate adequate mixing has been achieved. When mixed material, exclusive of one inch or larger clods, is sprayed with phenolphthalein alcohol indicator solution, areas showing no color reaction will be considered evidence of inadequate mixing. The Contractor shall provide indicator solution and test random areas of mixed FDR as directed by the Engineer.

30-4.03F Compacting and Grading

Add to section 30-4.03F:

Unless otherwise indicated in these special provisions, or directed by the Engineer, the following guidelines shall be used in re-grading project roadways. Level the FDR-cement Section such that any depressions, humps, or other irregularities found in the existing roadway are eliminated in the final FDR-cement surface. The general longitudinal alignment of the roadway shall be maintained, though any unnecessary rises or depressions shall be eliminated such that the road is left at an even grade with grade breaks as needed. Any existing longitudinal depressions which are required for drainage purposes shall be maintained. Cross section of the roadway shall generally follow existing drainage patterns, maintaining crown or superelevation to one side as existing. It is the intent of this project to provide sufficient cross slope for drainage in all locations. Minimum cross slope of the finished surface shall be 2%; if the existing slope is greater the existing slope shall be maintained. If the existing roadway is flat or depressed, the final grade shall correct this to provide the minimum 2% cross slope. The finished roadway shall assume a straight angled crown at centerline for conditions where gutters, ditches, or other drainage collection points exist on both sides of the street and shall assume superelevation for roads with drainage collection on one side only, or where superelevation was the original configuration of the roadway. Connections to existing driveways or cross streets shall be maintained such that the finished road grade after construction of pavement or other resurfacing shall provide a smooth contiguous connection to the driveways or cross street without grade differences or other irregularities. Surface utilities shall be at grade upon completion of paving or other resurfacing. If field conditions exist which cause a conflict with achieving these grade tolerances, notify the Engineer for further direction.

Wherever the thickness of the FDR-cement section is 12-inches or less, compact in one layer. Wherever the thickness of the FDR-cement section is greater than 12-inches, compact in two or more layers of approximately equal thickness. The maximum compacted thickness of any one layer shall not exceed 12-inches, unless you first construct a test strip to demonstrate that your equipment and methods achieve the specified compaction. The test strip must contain at least 500 cubic yards of material and no more material than one day's production. Construct test strips with materials, tools, equipment, and methods you will use in the work.

30-4.03G Finishing

Add to section 30-4.03G:

Maintain the moisture content of the cement stabilized soil above the optimum moisture content, but within allowable moisture range as determined by the moisture/density relationship of the compaction curve, throughout the entire finish grading operation.

Finish rolling of trimmed surfaces must be performed within two hours of compaction. If finish rolling cannot be completed within two hours of trimming, defer trimming. Finish rolling of trimmed surfaces must be performed with a least one complete coverage with steel drum or pneumatic-tired rollers.

Prior to microcracking operations, the finished FDR-cement section shall be tested by the Contractor to determine the stiffness of the layer. The stiffness measurement of the FDR section shall be determined using an approved device such as the Humboldt Stiffness Gauge (HSG), or equivalent. One test will be made along each 100 ft section of street. The test locations shall be marked with paint for later retesting. If the initial HSG readings are in the range of 50 to 60 (MN/m), then microcracking of the section course shall begin. If the readings are below the stated range, the section course shall be allowed to cure until stiffness readings are within the required range to commence microcracking activities.

Microcracking shall cover 100% of the FDR-cement section exclusive of the outside 1 foot, or as directed by the engineer. Microcracking operations may be terminated when a minimum 40% reduction in the stiffness of the section is achieved as compared to the initial (pre-cracked) readings. After each pass of the vibratory roller, the stiffness of the section shall be determined. Based on the target total stiffness minimum reduction of 40%, the Engineer will decide if additional passes are required. The FDR section shall be tested for stiffness after each additional rolling. It is anticipated that the roller will have to make between 1 to 4 passes to achieve the required reduction in stiffness. All testing required for the microcracking process shall be provided by the Contractor.

If the FDR-cement section is damaged, it shall be repaired by removing and replacing the entire depth of affected layers in the damaged area. Feathering will not be permitted for repair of low areas.

Upon completion of the FDR-cement Section, paving operations may commence provided that the following criteria are met:

- The FDR-cement section is stable and non-yielding under a minimum 10-ton proof-roll.
- The FDR-cement section has no evidence of cracking, other than those achieved during microcracking.
- The design criteria of the FDR-cement section has been met, including FDR thickness, percentage of cement applied, compaction, and the square footage of the treated area has been confirmed.

30-4.03H Curing

Add new section 30-4.03H Curing:

After placement and compaction of the FDR—cement section is completed, it shall be protected against drying by curing until covered with the initial layer of pavement surfacing. Curing shall be a bituminous seal, or other method approved by the Engineer. If water/moist curing is selected and approved, a curing plan shall be submitted to the Engineer detailing: a watering schedule, a plan for handling hot, arid, and/or windy weather conditions, and the length of time the material will be cured. If moist curing is used, exposed surfaces of the FDR—cement section shall be kept continuously moist with a fog spray and shall not be allowed to dry out. If bituminous curing is used, it shall consist of liquid asphalt or emulsified asphalt and shall be sufficient to penetrate the FDR—cement surface for proper bonding.

If required, the bituminous curing seal shall be applied in sufficient quantity to provide a continuous membrane over the exposed FDR-cement section at a rate of between 0.10 and 0.25 gallons per square yard of surface with the exact rate determined by the Engineer. It shall be applied as soon as possible after the completion of the final rolling. The surface shall be kept moist until the seal is applied. At the time the bituminous material is applied, the soil surface shall be dense, shall be free of all loose and

extraneous material, and shall contain sufficient moisture to prevent excessive penetration of the bituminous material.

Spread sand cover after asphaltic emulsion is applied. Remove excess sand from the surface by sweeping before opening to traffic.

30-4.04 PAYMENT

The pulverization and cement treatment of the existing pavement shall be paid for at the contract unit price per square foot for FDR-cement and shall include costs for all pulverizing, and mixing of the existing pavement and underlying materials; for all water and cement; for all spreading, compacting and trimming to the proper grade as shown on the plans and as specified; for all haul away of excess pulverized material; for all microcracking, curing, protection and sealing of the FDR-cement section; for all quality control testing to be performed by the Contractor as specified; and for performing mix design, including test pits. Additional cement and work required above and beyond the specified amount will be paid on a change order basis.

DIVISION V SURFACINGS AND PAVEMENTS

37 SEAL COATS

37-1 GENERAL

37-1.01 GENERAL

37-1.01B Definitions

Replace *Reserved* in section 37-1.01B with:

Asphalt Rubber Cape Seal: Asphalt Rubber Cape Seal is a multiple layer surface treatment that consists of the application of a base layer of Asphalt Rubber Binder Chip Seal and a top layer of Slurry Seal or Micro-surfacing. Refer to Section 37-7 for specific Asphalt Rubber Cape Seal requirements.

37-1.01D Quality Assurance

37-1.01D(1) General

Add to section 37-1.01D(1):

Construct a test strip for evaluation by the Engineer. The test strip shall at minimum cover an area equivalent to 1000 feet in length by 12 feet in width and shall consist of the application courses specified. The location of the test strip shall be chosen by the Engineer and may be located on non-project streets. The test strip shall be constructed at the same time of day or night that the full production of seal will be placed and may be constructed in multiple days or nights when multiple course applications are specified.

The Engineer will evaluate the completed test strip after 12 hours of traffic on the completed test strip to determine if the mix design and placement procedure are acceptable. If the mix design or the placement procedure is determined by the Engineer to be unacceptable, the test strip will be rejected, the Contractor shall make modifications, and a new test strip shall be constructed and evaluated by the Engineer. The cost of materials and placement of the test strips, which have been rejected, shall be borne by the Contractor and will not be considered as part of the contract work. If ordered by the Engineer, rejected test strips shall be removed at the Contractors expense. If approved by the Engineer, the Contractor may continue with production work after placement of the test strip at his own risk. If the test strip is rejected, all production work shall be stopped and evaluated by the Engineer. The production work will be evaluated in the same manner as the placement of the test strip and shall conform to the same requirements for the test strip material.

Test strips are not included in the bid quantities. Full compensation for test strips shall be considered as included in the prices paid for the contract items for which the test strips apply.

Test strips shall apply for slurry seal, micro-surfacing, chip seal, and cape seal.

37-2 CHIP SEALS

37-2.04 ASPHALT RUBBER BINDER CHIP SEALS

37-2.04A General

37-2.04A(4) Quality Assurance

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

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

Replace *Reserved* in section 37-2.04A(4)(b)(i) with:

The County will collect a sample of screenings for testing on the first day of asphalt rubber chip seal work. The County may collect additional screenings samples for testing on subsequent asphalt rubber chip seal work days as directed by the engineer.

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

Add to section 37-2.04A(4)(b)(iv):

Terminal blend binder shall not be considered as a substitute or an "approved equal" to asphalt rubber binder. Any bid submitted with a request to use terminal blend binder as an alternative or "approved equal" to asphalt rubber binder will be rejected as non-responsive.

37-2.04B Materials

37-2.04B(6) Precoated Aggregate

Add to section 37-2.04B(6):

Aggregate for asphalt rubber binder chip seal shall conform to the **3/8-inch gradation** per this section of the standard specifications.

37-2.04D Payment

Replace section 37-2.04D with:

If Asphalt Rubber Binder Chip Seal is a component of a multi-layer seal which is listed as the primary bid item, then payment will be made per the unit price for the multi-layer seal and no separate payment will be made for the Asphalt Rubber Binder Chip Seal.

37-2.05 STRESS ABSORBING MEMBRANE INTERLAYERS

37-2.05A General

Delete the 3rd paragraph in section 37-2.05A.

37-2.05C Construction

Delete the 1st paragraph in section 37-2.05C.

37-2.05D Payment

Replace *Not Used* in section 37-2.05D with:

The price paid for stress absorbing membrane interlayers (SAMI) is included in the price per square yard of asphalt rubber binder chip seal.

37-3 SLURRY SEALS AND MICRO-SURFACINGS GENERAL

37-3.01B Materials

37-3.01B(1) General

Add to section 37-3.01B(1):

Slurry Seal shall consist of mixing a polymer modified cationic quickest emulsion, aggregate, and mineral filler, set-control additives, and water, in conformance with these special provisions and the standard specifications.

37-3.01B(2) Aggregate

Add to section 37-3.01B(2):

Aggregate for Slurry Seal or Micro-Surfacing to be used as the top layer of an Asphalt Rubber Cape Seal shall conform to the Type II gradation per this section of the standard specifications.

Aggregate for Micro-Surfacing that is used as the bottom layer of a 3-layer system shall conform to the Type III gradation per this section of the standard specifications.

37-3.01C Construction

37-3.01C(5) Placement

37-3.01C(5)(a) General

Add to section 37-3.01C(5)(a):

Edge limits of the slurry on both sides of the street shall be maintained in a neat, straight, uniform line. Slurry shall extend to the lip of gutter, and not overlap into the gutter. In the event the slurry extends into the gutter pan more than 1", or a straight uniform line is not maintained, it will be the responsibility of the Contractor to remove excess slurry from gutters using an appropriate method approved by the Engineer. Any drips or runs that spill onto a concrete surface shall be removed the same day the spill occurs; at the completion of removal operations concrete shall be restored to original condition and coloring. For multi-layer seals adjacent to gutters, where the existing pavement is flush with the gutter, only the topmost seal layer shall extend to the gutter lip, all lower seal layers shall stop short of the gutter by 1 foot or as directed by the engineer. For multi-layer seals adjacent to gutters where the existing pavement is lower than the gutter lip, lower layer seals may be extended to the gutter lip as needed to achieve a flush condition with the topmost seal. The Engineer shall provide direction in the field as needed regarding edge grinding locations and seal edge overlaps.

For areas without gutters, slurry shall extend to the edge of pavement, and shall not spill over to side roads, driveways, or landscaped areas; any slurry spilled in this fashion shall be removed as described above. All work associated with removal of slurry as outlined above shall be conducted at the Contractor's expense and no additional payment will be made therefor.

The paver shall travel no faster than a brisk walk.

Micro surface and slurry seals that do not receive regular traffic will require rolling, including (but not limited to) parking lots, street side parking, bike lanes, and cul-de-sacs. The Engineer will provide locations that will require rolling. Rolling shall take place after the mat has cured and shall begin at the lower elevation edge and work its way upslope. The roller shall be a smooth rubber tire roller that travels at a maximum rate of 5 miles an hour for micro-surfacing and maximum rate of 8 to 9 miles an hour for slurry seals. Complete rolling in one to two passes, unless otherwise specified by the Engineer.

37-3.01D Payment

Replace *Not Used* in section 37-3.01D with:

If Slurry Seal or Micro-Surfacing is a component of a multi-layer seal which is listed as the primary bid item, then payment will be made per the unit price for the multi-layer seal and no separate payment will be made for the Slurry Seal or Micro-Surfacing.

37-3.02 SLURRY SEALS

37-3.02B Materials

37-3.02B(2) Asphaltic Emulsions

Add to section 37-3.02B(2):

The asphalt emulsion shall be a quick-setting polymer modified cationic emulsion (PMCQS-1h) conforming to the requirements of Section 94, "Asphalt Emulsions", of the Standard Specification and these Special Provisions. Latex emulsified asphalt shall be an accelerated curing, quick traffic, quick cure (QT-QC) type, shall be homogenous and show no separation after thorough mixing, and shall break and set on the aggregate within 5 minutes and be ready for cross traffic within 15 to 45 minutes. The polymer shall be milled or blended into the asphalt or blended into the emulsifier solution prior to the emulsification process. Polymer solids must be a minimum of 3.5% by weight of the emulsion's residual asphalt. Provide a certificate of compliance certifying the amount of polymer.

37-3.02C Construction

37-3.02C(4) Placement

Add to section 37-3.02C(4):

Type II Slurry Seal that is used as the top layer of an asphalt rubber cape seal shall be spread at a rate within the range of 14 to 18 lbs of dry aggregate per square yard. Type II Slurry Seal must fully cover the chip rocks in the underlying asphalt rubber chip seal to provide a smooth and uniform finished surface texture.

37-3.02D Payment

Replace section 37-3.02D with:

The contract price paid per square yard for slurry seal shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in placing slurry seal, complete in place, including testing for and furnishing mix design, cleaning the surface, furnishing added water and set-control additives, tack coat (if necessary), and protecting the slurry seal until it has set, as shown on the plans, as specified in these special provisions, and as directed by the Engineer. If slurry seal is a component of a multi-layer seal which is listed as the primary bid item, then this item is to be used for construction purposes only and payment will be made per the unit price for the multi-layer seal and no separate payment will be made for this pay item.

37-3.03 MICRO-SURFACINGS

37-3.03C Construction

37-3.03C(5) Placement

37-3.03C(5)(a) General

Replace *Reserved* in section 37-3.03C(5)(a) with:

Type II Micro-Surfacing that is used as the top layer of an asphalt rubber cape seal shall be spread at a rate within the range of 14 to 20 lbs of dry aggregate per square yard. Type II Micro-Surfacing must fully cover the chip rocks in the underlying asphalt rubber chip seal to provide a smooth and uniform finished surface texture.

Type III Micro-Surfacing that is used as the bottom later in a 3-layer system shall be spread at a rate within the range of 30 to 35 lbs of dry aggregate per square yard.

When used as the bottom layer in a 3-layer system, after the initial break of the micro-surfacing and within a minimum of 2 hours after placement, **the micro-surfacing shall be rolled (as soon as possible following placement without causing damage to material) with two pneumatic tire rollers meeting the following requirements:**

- 9.3 tons minimum weight
- Each roller shall be equipped with a minimum of 7 wheels.
- Each roller shall make a minimum of three passes on the surface.
- Rollers shall be used in unison in a staggered formation such that the lane being rolled has full coverage.

37-3.03D Payment

Replace section 37-3.03D with:

The contract price paid per square yard, for Microsurfacing Seal shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in placing Microsurfacing Seal, complete in place, including testing for and furnishing mix design, cleaning the surface, furnishing added water and set-control additives, tack coat (if necessary), and protecting the

Microsurfacing Seal until it has set, as shown on the plans, as specified in these special provisions, and as directed by the Engineer.

37-7 ASPHALT RUBBER CAPE SEALS

Replace section 37-7

37-7.01 GENERAL

37-7.01A General

37-7.01A(1) Summary

Section 37-7.01 includes general specifications for application of asphalt rubber cape seals.

37-7.01A(2) Definitions

Asphalt Rubber Cape Seal is a multiple layer surface treatment that consists of the application of a base layer of Asphalt Rubber Binder Chip Seal and a top layer of Slurry Seal or Micro-surfacing.

37-7.01B Materials

Asphalt Rubber Cape Seal shall consist of a base layer of Asphalt Rubber Binder Chip Seal, conforming to Section 37-2.04B of these special provisions and the standard specifications, and a top layer of Slurry Seal (Type 2), conforming to Section 37-3.02B of these special provisions and the standard specifications.

37-7.01C Construction

Construct asphalt rubber chip seal in accordance with Section 37-2.04C of these special provisions and the standard specifications. Construct Slurry Seal (Type 2) in accordance with Section 37-3.02C of these special provisions and the standard specifications.

Asphalt Rubber Cape Seal shall be constructed in a good workmanship type manner such that the finished surface has a smooth and uniform texture throughout the work limits. Rutting, wash-boarding, delamination of seals, bleeding, or excessive raveling or marking of the surface shall all be considered cause for rejection. The finished surface of Asphalt Rubber Cape Seal shall be flush such that chip rocks from the Asphalt Rubber Chip Seal are fully covered after the Slurry Seal is completed. If, in the opinion of the Engineer, there is excessive protrusion of chip rocks through the Slurry Seal, additional layer(s) of Slurry Seal shall be placed on top of the Asphalt Rubber Cape Seal at the Contractor's expense until a flush condition is achieved.

37-7.01D Payment

The contract unit price paid per square yard for Asphalt Rubber Cape Seal shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all the work involved in the furnishing and placing all elements of the seal complete in place and maintaining the surface as specified in the Standard Specifications and these special provisions, and as directed by the Engineer and no additional compensation will be allowed therefor. The contract unit price for this item shall override any unit prices of the individual components of the seal which may be noted in the specifications for those components, the bid unit price for this item shall be the only payment made and shall encompass all elements which comprise the seal.

39 ASPHALT CONCRETE

39-2 HOT MIX ASPHALT

39-2.01 GENERAL

39-2.01A(1) Summary

Replace the third paragraph in section 39-2.01A(1) with:

No WMA technology (including WMA additives) will be allowed on this project. Only HMA mixes will be accepted.

39-2.01A(2) Definitions

Add to Section 39-2.01A(2):

Department: County of Santa Cruz

Digout: Digouts consist of grinding the roadway to a depth specified by the engineer, removing and disposing of the grindings and any underlying unsuitable material as determined by the Engineer, compacting the exposed surface and replacing it with the specified thickness of asphalt concrete in accordance with Section 39-3 in these special provisions

Reclaimed Asphalt Pavement (RAP): Removed and/or reprocessed pavement materials containing asphalt and aggregates.

Warm Mix Asphalt (WMA): HMA produced using a warm mix asphalt technology produced at a temperature from 240 to 325 degrees F.

39-2.01A(4) Quality Assurance

39-2.01A(4)(i) Department Acceptance

39-2.01A(4)(i)(iii) Pavement Smoothness

Replace section 39-2.01A(4)(i)(iii) with:

Measure smoothness of new pavement with a straightedge. The HMA pavement top layer must not vary from the lower edge of a 12-foot long straightedge:

1. More than 0.01 foot when the straight edge is laid parallel with the centerline
2. More than 0.02 foot when the straightedge is laid perpendicular to the centerline and extends from edge to edge of a traffic lane
3. More than 0.02 foot when the straightedge is laid within 24 feet of a pavement conform

39-2.01C Construction

39-2.01C(8) Leveling

Replace Section 39-2.01C(8) with:

Section 39-2.01C(8) applies to HMA used for asphalt concrete leveling courses.

The Engineer will mark locations to receive asphalt concrete leveling courses during the digout marking phase. Provide traffic control for marking asphalt concrete leveling courses as described in sections 12-1.03 and 39-3.06A of the Standard Specifications and these special provisions. Traffic control for marking asphalt concrete leveling courses is included in the payment for Traffic Control System.

Fill and level irregularities and ruts with HMA before spreading HMA over the base, existing surfaces, or bridge decks. You may use mechanical equipment other than a paver for these areas. The equipment must produce uniform smoothness and texture. Compact using the method process unless otherwise specified in the special provisions.

Grind conforms at the end of each leveling course, at intersections, and at driveways to ensure a smooth transition between the leveling course and adjacent pavement. Grinding width for intersections and end conforms shall be 20'. Provide tapered asphalt conforms at driveways per County Design Criteria, Fig. St-10, included in the Information Handout of these special provisions. If directed by the Engineer, conform grinding may be required at some driveways to achieve a smooth transition.

The price paid for asphalt concrete leveling courses is included in the price per ton of HMA.

39-2.01C(16) Smoothness Correction

Add to Section 39-2.01C(16):

Pavement found not to meet the standards of section 39-2.01A(4)(i)(iii) shall be ground using a highway diamond profile bump grinder to within the specified tolerances; under no circumstance should asphalt be heated and reworked. If an area of straight edged pavement cannot be corrected to within specified tolerances, remove and replace the pavement or place an overlay of HMA.

Grinding pavement for smoothness corrections will only be allowed for HMA overlays that are a minimum of 2.0-inches thick; thinner overlays must be removed and replaced or overlaid with HMA, unless otherwise specified by the Engineer.

Any work required to repair pavement due to non-conformance with section 39-2.01A(4)(i)(iii) shall be done at the contractor's expense.

39-2.01D Payment

Replace the 2nd and 3rd paragraphs in section 39-2.01D with:

Payment for tack coat is included in the payment for hot mix asphalt.

Add to section 39-2.01D:

The Engineer does not adjust the unit price for an increase or decrease in the prepaving grinding day quantity.

39-2.02 TYPE A HOT MIX ASPHALT

39-2.02A General

39-2.02A(1) Summary

Replace the 2nd sentence in section 39-2.02A(1) with:

You may **not** produce Type A HMA using an authorized WMA technology.

39-2.02B Materials

39-2.02B(3) Asphalt Binder

Replace *Reserved* in section 39-2.02B(3):

The grade of asphalt binder for Type A HMA must be PG 64-10.

39-2.02B(4) Aggregates

39-2.02B(4)(b) Aggregate Gradations

Replace 1st paragraph in section 39-2.02B(4)(b):

The aggregate gradations requirements for Type A HMA must comply with 1/2-inch gradation as shown in the following table:

39-2.02D Payment

Replace *Not Used* in Section 39-2.02D with:

Compensation adjustment for asphalt binder price fluctuations shall not apply to this item of work. Contractor shall make adjustment on the bid price accordingly.

The contract unit price paid per ton of Hot Mix Asphalt Type A (including asphalt concrete leveling courses and edge conform grinding) shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work of constructing asphalt concrete paving complete in place as shown on the plans and as directed by the Engineer, including spreading, compacting, prime coat, paint binder, and sand cover, and no additional compensation will be allowed therefor.

39-3 Existing Asphalt Concrete

Replace Section 39-3.06

39-3.06 Digouts

39-3.06A General

Section 39-3.06 includes specifications for replacing asphalt concrete surfacing (digouts).

Prior to the start of digout operations, locate all utility lines, manholes, valves, and all similar surface utilities and obstructions so that proper precautions may be taken not to damage such improvements. You are responsible for any failure to follow this procedure and for making any and all repairs for damage resulting from work. You are responsible for all damage to grinding machines caused by hitting any hidden objects during grinding operations. You are also responsible for the cost of repairing any facility that is damaged by the grinding machine and no extension of time or additional compensation will be granted due to delays caused by damaged grinding machines.

Digout marking shall be done by the Engineer a minimum of 7 days prior to construction and after clearing and grubbing operations have been completed per Section 17-2 of these special provisions. Provide full traffic control for digout marking per Section 12 of these special provisions. No construction work shall take place during digout marking.

39-3.06B Materials

HMA to be used for digouts shall conform to the ¾ inch gradation as shown in the following table:

**¾-inch Aggregate Gradation
(Percentage Passing)**

Sieve size	Target value limit	Allowable tolerance
1"	100	--
¾"	90-98	TV ± 5
½"	70-90	TV ± 6
No.4	42-58	TV ± 5
No.8	29-43	TV ± 5
No.30	10-23	TV ± 4
No.200	2.0-7.0	TV ± 2.0

HMA to be used for digouts must comply with HMA Type A as specified in section 39-2.02, unless otherwise specified by the Engineer.

The grade of asphalt binder must be PG 64-10 or PG 64-16.

Tack coat must comply with section 39-2.01B(10).

39-3.06C Construction

39-3.06C(1) General

Where digouts are shown, remove the existing asphalt concrete surfacing to the depth specified in the contract and replace with HMA. Existing asphalt concrete to be removed for digouts may be removed by milling (cold planing), per section 39-3.04. The Engineer determines the exact limits of asphalt concrete surfacing to be replaced.

Digouts shall be a minimum of 4 feet wide and will vary in width and length. If you choose to increase the excavated area due to the size of equipment in use without prior approval from the Engineer, you will only be paid for the area originally marked.

Replace asphalt concrete in a lane before the lane is specified to be opened to traffic.

Before removing asphalt concrete, outline the replacement area and cut neat lines with a saw or grind to full depth of the existing asphalt concrete. Do not damage asphalt concrete and base remaining in place.

If you excavate the base beyond the specified plane, replace it with HMA.

Do not use a material transfer vehicle for digouts.

Before placing HMA, apply a tack coat as specified in section 39-2.01C(3)(f).

Place HMA using method compaction as specified in sections 39-2.01C(2)(c) and 39-2.01C(15)(b).

After the pavement and underlying material is removed, the exposed surface shall be compacted to a stable condition. All digout subbase shall be mechanically compacted without exceptions.

2" and 4" digouts may be placed in one lift; 6" digouts shall be placed in two lifts of 3" each.

Digouts shall be constructed in a good workmanship type manner such that the finished digout matches adjacent roadway grade at all conforms and is free of rises or depressions. Ensure that digouts conform to the following dimensional requirements: as measured using a 12' straight edge the digout shall have no edge rises or depressions greater than 0.01 ft in 12 ft in the parallel direction or 0.02 ft in 12 ft in the perpendicular direction; if any dimension of the digout is less than 12 ft the digout shall match adjacent grade on either side of the digout with no rises or depressions greater than 0.01 ft for 0'-6' width, or 0.02 for 6'-12' width. Exceptions to these dimensional standards may be granted in the field by the Engineer for roads with curved or tapering sections. The intent of these dimensional requirements is to produce a finished digout which blends into the roadway to create a smooth transition and does not introduce new ride quality issues. **Refer to the Digout Checking Procedures detail in the Information Handout for examples of correct and incorrect digouts.**

When a digout is adjacent to an existing edge barrier (curb, gutter, dike, swale, wall, etc.) the digout should extend completely to the edge of the barrier, leaving no gap between it and the existing asphalt and should match existing grade at the barrier. The Engineer may provide field direction to alter the grade at the digout interface with the existing barrier to correct existing drainage or slope issues.

Digouts found not to meet the standards outlined in this section due to excessive digout height shall be ground using a highway diamond profile bump grinder such that they meet the standards outlined in this section; under no circumstance should asphalt be heated and reworked. Any digouts found not to meet the standards outlined in this section due to digout height being below adjacent roadway level shall require removal & replacement of the digout. Final determination of the limits of the failed pavement areas to be dug out shall be made by the Engineer in the field. Any work required to repair digouts due to non-conformance with these standards shall be done at the Contractor's expense. If unsuitable material is encountered after removal of the failed pavement area, the payment for removal of unsuitable material in excess of the existing pavement depth shall be paid for as force account and backfilling shall be paid in accordance with the material used.

A coat of fog seal, per Section 37-4 of the standard specifications, shall be placed after digout pavement has cured. Fog seal shall be allowed to dry a minimum of 4 days prior to the placement of any surfacing layer. Fog seal shall only be required if the surface course directly above the digout is a standard (non-rubberized) chip seal. Fog seal shall not be required if the surface course directly above a digout is an asphalt concrete overlay, rubberized chip seal, microsurfacing seal, or slurry seal. Full compensation for furnishing and applying fog seal shall be considered as included in the contract price paid per square foot of Digouts and no separate payment will be made therefor.

All ground pavement material shall be removed from the site of the work and properly disposed of as provided in Section 5-1.20B(4) of the Standard Specifications. No ground pavement material shall

be re-laid as pavement base material unless directed by the Engineer or otherwise directed by the project specifications. All costs related to grindings transport shall be considered as part of the contract unit price for this item and no additional compensation will be allowed therefor.

39-3.06C(2) Grade Control and Surface Smoothness

Digouts shall be constructed in a good workmanship type manner such that the finished digout matches adjacent roadway grade at all conforms and is free of rises or depressions.

The contractor shall ensure that digouts conform to the following dimensional requirements:

1. As measured using a 12' straight edge the digout shall have no edge rises or depressions greater than 0.01 ft in 12 ft in the parallel direction or 0.02 ft in 12 ft in the perpendicular direction,
2. If any dimension of the digout is less than 12 ft the digout shall match adjacent grade on either side of the digout with no rises or depressions greater than:
 - a. 0.01 ft for 0'-6' width, or
 - b. 0.02 for 6'-12' width.

Exceptions to these dimensional standards may be granted in the field by the Resident Engineer for roads with curved or tapering sections, the intent of these dimensional requirements is to produce a finished digout which blends into the roadway to create a smooth transition and does not introduce new ride quality issues into the roadway. Refer to the Digout Checking Procedures detail in the Information Handout for examples of correct and incorrect digouts.

When a digout is adjacent to an existing edge barrier (curb, gutter, dike, swale, wall, etc.) the digout should extend completely to the edge of the barrier leaving no gap between it and the existing asphalt, and should match existing grade at the barrier. In some cases, the Engineer may choose to alter the grade at the digout interface with the existing barrier to correct existing drainage or slope issues, in this instance field direction will be provided to the Contractor by the Engineer.

Any digouts found not to meet the standards outlined in this section due to excessive digout height shall be ground using a highway diamond profile bump grinder such that they meet the standards outlined in this section; under no circumstance should asphalt be heated and reworked. Any digouts found not to meet the standards outlined in this section due to digout height being below adjacent roadway level shall require removal & replacement of the digout. Any work required to repair digouts due to non-conformance with these standards shall be done at the contractor's expense.

Final determination of the limits of the failed pavement areas to be dug out shall be made by the Engineer in the field. If unsuitable material is encountered after removal of the failed pavement area, the payment for removal of unsuitable material in excess of the existing pavement depth shall be paid for as force account and backfilling shall be paid in accordance with the material used.

39-3.06D Payment

The Engineer shall direct the contractor in the field if a depth other than the depth specified in the bid is required. If a different digout depth is required due to field conditions, the unit cost for the digout shall be adjusted as a linear ratio of the digout unit bid price based on depth (example – cost adjustment to increase from a 4" digout to a 6" digout would be 6/4 or 1.5 times the unit cost for a 4" digout).

Full compensation for furnishing traffic control for digout marking shall be considered as included in the contract price paid for Traffic Control System and no separate payment will be made therefor.

The contract unit price paid per square foot for Digouts shall include full compensation for furnishing all labor, material (including asphalt concrete), tools, equipment, fog sealing, and incidentals and for doing all the work involved in digouts (including removal of existing asphalt concrete by cold planing or other approved method), complete in place as shown in the detail in these special provisions, as specified herein, and as directed by the Engineer, and no additional compensation will be allowed therefor.

39-3.08 GRIND ASPHALT CONCRETE PAVEMENT

39-3.08A General

Existing asphalt concrete shall be ground at the locations and dimensions described in these special provisions and as directed by the Engineer. Grinding asphalt concrete pavement shall be performed by cold planing, using a fine tooth drum, and the machine shall be operated so as not to produce fumes or smoke. Edge grinding at gutter lips and utilities may be done using a concrete planer. Grinding existing asphalt concrete pavement shall conform to Fig. ST-10 of the Santa Cruz County Design Criteria and these special provisions.

Edge grinding shall only apply in situations where existing roadway is bound by a concrete gutter and existing pavement surface is higher than adjacent gutter lip, if existing pavement is flush with gutter lip or lower than gutter lip, grinding shall not apply. For multi-layer seals adjacent to gutters where the existing pavement is flush with the gutter, only the topmost seal layer shall extend to the gutter lip, all lower seal layers shall stop short of the gutter by 6 inches or as directed by the engineer. For multi-layer seals adjacent to gutters where the existing pavement is lower than the gutter lip, lower layer seals may be extended to the gutter lip as needed to achieve a flush condition with the topmost seal. This item shall include grinding around existing utility and valve boxes located along or near the lip of gutter and grinding around existing isolated catch basins not located along the lip of gutter. The Engineer shall provide direction in the field as needed regarding edge grinding locations and seal edge overlaps.

Conform grinding shall apply at ends of asphalt concrete leveling courses and overlays and at driveways that slope downward away from the roadway unless otherwise directed by the Engineer. Refer to Fig. ST-10 of the Santa Cruz County Design Criteria in the Appendix of these special provisions for conform grind dimensions.

39-3.08B Materials

Not Used

39-3.08C Construction

The depth, width, and shape of the cut shall be as indicated on Fig. ST-10 of the County of Santa Cruz Design Criteria in the Appendix of these special provisions, and as directed by the Engineer. The outside lines of the ground area shall be neat and uniform. The road surfacing to remain in place shall not be damaged in any way. Ground widths of pavement shall be continuous except for intersections at cross streets where the grinding shall be carried around the corners and through the conform lines.

Where transverse joints are ground in the pavement at conform lines, no drop off shall remain between the existing pavement and the ground area when the pavement is opened to public traffic. If asphalt concrete has not been placed to the level of existing pavement before the pavement is to be opened to public traffic, a temporary asphalt concrete taper shall be constructed. The asphalt concrete shall be placed to the level of the existing pavement and tapered on a slope of 30:1 or flatter to the level of the ground area. Temporary tapers shall not remain in place longer than 7 days and shall be completely removed, including removing all loose material from the underlying surface, before placing permanent surfacing.

All ground pavement material shall be removed from the site of the work and disposed of as provided in Section 5-1.20B(4) of the Standard Specifications. No ground pavement material shall be re-laid as pavement base material unless directed by the Engineer or otherwise directed by the project specifications.

If any traffic loop conductor, including the portion leading to the adjacent pull box, is damaged by grinding asphalt pavement at the conform area, the entire detector loop shall be replaced by force account as directed by the Engineer. If any adjacent loop is damaged during such replacement, that loop shall be replaced also. Loop detectors shall be replaced after the overlay and the lead wire shall be spliced at the pull box or splice box only.

If any AC dike, berm, or curb is damaged during grinding asphalt pavement at the conform area, the entire AC dike, berms, or curb shall be replaced as directed by the Engineer and will be done at the expense of the Contractor.

If after grinding subgrades are found to be in poor condition, they will require digouts as directed by the Engineer; such digouts performed will be paid per the contract unit price for digouts.

If Contractor is unable to achieve a smooth edge grind that will result in a flush finished condition when sealing operations are completed, a concrete planer shall be required for edge grinding at gutter lips and utilities as directed by the Engineer.

39-3.08D Payment

The contract unit price paid per square foot for Grind Asphalt Concrete Pavement shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work involved in grinding asphalt concrete pavement as indicated in these special provisions and as directed by the Engineer, including disposal of grindings, and no additional compensation will be allowed therefor.

The quantity to be paid for will be the actual area ground irrespective of the number of passes required to obtain the desired finish grades.

All costs related to grindings transport shall be considered as part of the contract unit price for this item and no additional compensation will be allowed therefor.

DIVISION IX TRAFFIC CONTROL DEVICES

84 MARKINGS

84-2 TRAFFIC STRIPES AND PAVEMENT MARKINGS

84-2.01 GENERAL

84-2.01A Summary

Add to section 84-2.01A:

Striping shall match types, patterns, and locations which were in place prior to resurfacing operations unless otherwise directed by the Engineer.

84-2.01C Submittals

Add to section 84-2.01C:

You are responsible for performing a **striping survey for each project roadway** to record existing striping types, patterns, and locations sufficient to perform cat tracking and final striping operations. Submit the striping survey to the Engineer for review and approval at least 5 working days prior to removal of existing striping.

84-2.01D Quality Assurance

84-2.01D(1) General

Replace *Reserved* in section 84-2.01D(1) with:

Prior to the placement of all thermoplastic stripes and markings, cat track all pavement striping and markings. Notify the Engineer regarding the cat tracking schedule for each project roadway at least one working day prior to the commencement of cat tracking operations. Final striping shall be scheduled a minimum of five (5) days after cat tracking is completed to provide time for review. Completed cat tracking

shall be reviewed by the Engineer and final striping shall not commence until the Engineer has confirmed review and approval of cat tracking. Cat tracking shall be completed within five (5) working days of the placement of the final surfacing coat, and finish striping shall be completed within ten (10) working days of cat tracking unless otherwise directed by the Engineer. In the event that changes to original striping or marking patterns are directed by the Engineer or by the County Traffic Engineering Division, cat tracking for these changes shall be approved by the Engineer prior to placement of final striping or marking.

Unless otherwise directed by the Engineer, you are responsible for ensuring that finished traffic striping and marking patterns conform to pre-project patterns, County review of cat tracking shall not relieve you of this responsibility. In the event that the County elects to make changes to existing striping or marking patterns, such changes will be directed by the Engineer, and cat tracking for changed striping or marking patterns shall be reviewed and approved by the County Traffic Engineering Division prior to placement of final striping. If the Engineer determines that final striping and marking patterns do not match the pre-project patterns (or approved layout in the event that changes to existing striping or marking patterns have been directed), you are responsible for all costs necessary to make corrections to return striping patterns to their original layout (or approved layout in the case of directed changes), as directed by the Engineer. If such corrections include removal of new traffic striping or markings, you are responsible for the full cost to repair any resurfacing that is damaged by striping or marking removal operations, including replacement of damaged seals in kind, as directed by the Engineer.

84-2.03 CONSTRUCTION

84-2.03B Applications of Stripes and Pavement Markings

84-2.03B(1) General

Add to section 84-2.03B(1):

Unless otherwise directed by the Engineer, all thermoplastic traffic stripes and pavement markings shall be applied with the extrusion method only, not sprayed.

84-2.04 PAYMENT

Replace the second paragraph of section 84-2.04 with:

The payment quantity for pavement markings will be measured by the square foot for the actual area covered.

Replace the third through sixth paragraphs of section 84-2.04 with:

A double traffic stripe consisting of two 6-inch-wide or 8-inch-wide stripes are measured as a single traffic stripe.

Add to section 84-2.04:

Unless otherwise directed by the County Traffic Engineering Division, the intent of striping is to replace existing striping in kind. You are responsible for making an initial inspection to review and record existing striping in order to replace striping to original layout once resurfacing work is complete. If a discrepancy exists between the engineer's estimate and field measurements, bid unit pricing shall be used to determine the adjustment. If the discrepancy involves an item not included in the bid, the engineer and contractor shall determine a new unit cost based on similar bid items. Any work or costs that would normally be included in the bid price shall be considered as included in the new negotiated unit cost. Extra cost for traffic control related to changes in striping would only be considered if the change is significant enough to require an additional mobilization or significantly lengthen the time of the current mobilization.

The contract unit prices paid for Thermoplastic Traffic Stripes and Pavement Markings shall include full compensation for furnishing all labor, material, tools, equipment, and incidentals, and for doing all the work involved in applying thermoplastic traffic stripes and thermoplastic pavement markings, including retroreflective pavement markers that are included in the details for that item of work, complete in place,

as specified in these special provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor.

84-9 EXISTING MARKINGS

84-9.03 CONSTRUCTION

84-9.03A General

Add to section 84-9.03A:

Traffic Stripes and Pavement Markings to be removed shall be obliterated until blemishes caused by the stripe/marketing removal conform to the color of the adjacent pavement leaving a 'roughened' texture. The Engineer reserves the right to require additional removal grinding at the Contractor's expense if stripes are not sufficiently removed to meet these standards. If in the opinion of the Engineer the pavement is materially damaged by the striping/marketing removal process, such damage shall be repaired at the Contractor's expense.

Remove sand or debris left by the striping/marketing removal process prior to any digouts or resurfacing operations.

84-9.03B Remove Traffic Stripes and Pavement Markings Containing Lead

Replaced *Reserved* in section 84-9.03B with:

This project includes removal of yellow thermoplastic traffic stripe that will produce hazardous waste residue. Yellow thermoplastic striping shall be removed in accordance with Section 14-11.12 of the standard specifications.

84-9.04 PAYMENT

Replace section 84-9.04 with:

Full compensation for Remove Traffic Stripes and Pavement Markings shall be considered as included in the prices paid for the various contract items of work and no separate payment will be made therefor.