

SPECIAL PROVISIONS

NOTICE TO BIDDERS,
PROPOSAL AND CONTRACT

FOR

**STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST
MILE 0.08**

**PROJECT NO.: Cal OES CDAA 2024-03
CONTRACT NO.: 224113**

30 WORKING DAYS

FOR USE WITH Standard Specifications dated 2023,
Standard Plans dated 2023, Prevailing Wage Rates,
Labor Surcharge and Equipment Rental Rates

BIDS OPEN: SEPTEMBER 10, 2024 AT 2:00 PM

County of Humboldt
Department of Public Works
1106 Second Street
Eureka, CA 95501



Note: To register as a plan-holder, prospective bidders must email a request to the Department of Public Works Contact Person. Failure to register as a plan-holder with the Department of Public Works may result in a nonresponsive bid.

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**PROJECT NO.: Cal OES CDAA 2024-03
CONTRACT NO.: 224113**

Prepared by

**County of Humboldt
Department of Public Works
1106 Second Street
Eureka, CA 95501**

Recommended:

Jeffrey A. Ball

Jeffrey A. Ball
RCE 70631, Expires 6/30/2025

7-31-2024

Date



Approved:

Tony R. Seghetti
RCE 63174, Expires 09/30/2024

Date



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STANDARD PLANS LIST

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

ABBREVIATIONS, LINES, SYMBOLS, AND LEGEND

A3A	Abbreviations (Sheet 1 of 3)
A3B	Abbreviations (Sheet 2 of 3)
A3C	Abbreviations (Sheet 3 of 3)
A10A	Legend - Lines and Symbols (Sheet 1 of 5)
A10B	Legend - Lines and Symbols (Sheet 2 of 5)
A10C	Legend - Lines and Symbols (Sheet 3 of 5)
A10D	Legend - Lines and Symbols (Sheet 4 of 5)
A10E	Legend - Lines and Symbols (Sheet 5 of 5)

TEMPORARY TRAFFIC CONTROL SYSTEMS

T13	Traffic Control System with Reversible Control on Two Lane Conventional Highways
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TEMPORARY WATER POLLUTION CONTROL

T61	Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection)
T62	Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection)
T63	Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection)
T64	Temporary Water Pollution Control Details (Temporary Drainage Inlet Protection)



COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

NOTICE TO BIDDERS

Sealed proposals will be received by (and all bids should be mailed or delivered to) the

Department of Public Works
SEALED BID for (Project Name)
County of Humboldt
1106 Second Street
Eureka, California, 95501

until 2:00 PM, **TUESDAY, SEPTEMBER 10, 2024**, at which time they will be publicly opened by the Department of Public Works of the County of Humboldt at a public meeting located at the parking lot of the building on 1106 Second Street, Eureka CA, for performing work as follows:

**STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST MILE
0.08
PROJECT NO.: Cal OES CDAA 2024-03
CONTRACT NO.: 224113**

Bids are required for the entire work as described herein:

The base bid work to be done consists of traffic control, constructing rock buttress, repairing a sink hole extending a 12" corrugated steel pipe and then following one of two options: Option A: install 140ft of plastic pipe, abandon existing 18" culvert, and repair the culvert trench with aggregate base and hot mix asphalt; Option B: install 30 feet of corrugated steel pipe and install a plastic liner or cured-in-place-liner. f Bidders are advised that the work must be completed within **30 working days**. The Engineer's Estimate for Base Bid and Option A work is: \$74,840 and for Base Bid and Option B work is \$121,840.

Plans, Special Provisions and Proposal Forms may be viewed at the Humboldt County Department of Public Works, 1106 Second Street, Eureka, California, 95501, at area plan centers and on the County's website at: <http://humboldt.gov/Bids.aspx>.

To receive electronic bid documents and to **register as a plan-holder**, prospective bidders must email a request to the Department of Public Works at PWEngineering@co.humboldt.ca.us or call the Department of Public Works at (707) 445-7377. Failure to register as a plan-holder with the Department of Public Works may result in a nonresponsive bid.

Printed copies of the contract documents may be obtained by prospective Bidders upon ADVANCE payment of a non-refundable printing and service charge in the amount of \$17.00. All checks shall be

made payable to COUNTY OF HUMBOLDT and should be mailed along with the request for Plans to the Humboldt County Department of Public Works, 1106 Second Street, Eureka, California, 95501.

To submit questions regarding the plans and special provisions or request a copy of the latest plan holders list, email the request to PWEngineering@co.humboldt.ca.us or contact the Department of Public Works at (707) 445-7377.

Plans and Special Provisions reference the Caltrans Standard Specifications and Standard Plans dated 2023.

The successful Bidder shall furnish a Payment Bond and a Performance Bond.

The Contractor shall possess a **CLASS "A"** Contractors License at the time this contract is awarded.

No pre-bid meeting is scheduled for this project.

This contract is subject to state contract nondiscrimination and compliance requirements pursuant to Government Code, Section 12990. The County of Humboldt affirms that in any contract entered into pursuant to this advertisement, Disadvantaged Business Enterprises, as defined in 49 CFR Part 26, will be afforded full opportunity to submit bids in response to this invitation.

Inquiries or questions based on alleged patent ambiguity of the plans, specifications or estimate must be communicated as a bidder inquiry prior to bid opening. Any such inquiries or questions, submitted after bid opening, will not be treated as a bid protest.

Pursuant to Section 1773 of the Labor Code, the general prevailing wage rates in the county, or counties, in which the work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, available at County of Humboldt, 1106 2nd Street, Eureka, CA. 95501 and available from the California Department of Industrial Relations' Internet web site at <http://www.dir.ca.gov/DLSR/PWD>. Addenda to modify the minimum wage rates, if necessary, will be issued to planholders that have purchased bid documents from the Department of Public Works at 1106 Second Street, Eureka, California, 95501. Future effective general prevailing wage rates which have been predetermined and are on file with the California Department of Industrial Relations are referenced but not printed in the general prevailing wage rates.

The U.S. Department of Transportation (DOT) provides a toll-free hotline to report bid rigging activities. Use the hotline to report bid rigging, bidder collusion, and other fraudulent activities. The hotline number is (800) 424-9071. The service is available 24 hours 7 days a week and is confidential and anonymous. The hotline is part of the DOT's effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General.

TRACY DAMICO

Clerk of the Board of Supervisors

County of Humboldt, State of California

DATED: _____



COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

SPECIAL PROVISIONS
FOR

STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST MILE 0.08
PROJECT NO.: Cal OES CDAA 2024-03
CONTRACT NO.: 224113

DIVISION I GENERAL PROVISIONS

1 GENERAL

Add to section 1-1.01:

The work embraced herein shall be done in accordance with the **STANDARD SPECIFICATIONS dated 2023**, and the **STANDARD PLANS dated 2023**, and revisions thereto, of the State of California, Department of Transportation insofar as the same may apply and in accordance with the following special provisions. In case of conflict between the Standard Specifications and these special provisions, the special provisions shall take precedence over and be used in lieu of such conflicting portions.

Replace the following definitions in section 1-1.07B with:

DEPARTMENT, DIRECTOR: Humboldt County Department of Public Works.

ENGINEER: The Director of Public Works of Humboldt County or his authorized agent working within the scope of his authority.

STATE: County of Humboldt, a political subdivision of the State of California.

Add to section 1-1.07B:

LABORATORY: Materials and Testing Laboratory of the Humboldt County Department of Public Works.

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2 BIDDING

Add to section 2-1.06A:

Plans, Special Provisions (not including documents included by reference) and Proposal Forms may be viewed by prospective Bidders at the Humboldt County Department of Public Works, 1106 Second Street, Eureka, California.

Plans, Special Provisions and Supplemental Project Information may be viewed on the County of Humboldt web site: <http://humboldtgov.org/Bids.aspx>. Current Standard Specifications are available for review at the Department of Public Works, 1106 Second Street, Eureka, California or on Caltrans web page of the Office Engineer/ Engineering. (<https://dot.ca.gov/programs/design/ccs-standard-plans-and-standard-specifications>)

Note that Plans, Special Provisions, and Proposal Forms posted on the County's web site may be used to submit a bid, however prospective bidders must register as a plan-holder. Failure to register as a plan-holder with the Department of Public Works may result in a nonresponsive bid.

To **register as a plan-holder**, prospective bidder may email a request to the following project contact: Department of Public Works Office Assistant, PWEngineering@co.humboldt.ca.us or (707) 445-7652 or the engineering division (707) 445-7377.

Add between the 1st and 2nd paragraphs of section 2-1.06B:

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Available for inspection at the Public Works Office: 1106 2 nd Street Eureka, CA 95501 Telephone No.: (707)445-7377 And available for inspection at: http://humboldtgov.org/Bids.aspx	<ul style="list-style-type: none">• MSI Nancy Court Culvert Report, dated 4-2-2024• MSI Nancy Court Culvert Video, dated 4-2-2024

Add to section 2-1.06C:

All bid proposals and materials submitted in response to this Notice to Bidders shall become the County's property and are subject to disclosure under the Public Records Act, California Government Code Sections 6250, et seq. All bid proposals submitted in response hereto, are considered public information, except for specifically identified trade secrets, which will be handled according to any and all applicable local, state and federal laws and regulations. Any portion of a bid proposal that is deemed to be a trade secret by the bidder shall be clearly marked "PROPRIETARY INFORMATION" at the top of the page in at least one-half inch (1/2") letters. Specifically identified proprietary information will not be released, if the bidder agrees to indemnify and defend the County in any action brought to disclose such information.

By submitting a bid proposal in response to this Notice to Bidders, the bidder agrees that the County's failure to contact the bidder prior to the release of any proprietary information contained therein will not be a basis for liability by the County or any employee thereof. Items considered public information will be available for review after the bid opening.

Replace section 2-1.11 with:

2-1.11 In-Use Off-Road Diesel-Fueled Vehicle List

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

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

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

Add to section 2-1.33A:

The following table lists the forms that are included in the Proposal Section of these special provisions:

Table of Forms

Form	Description
List of Subcontractors	Bidder's List of Subcontractors
DOT DES-OE-0102.14	In-Use Off-Road Diesel-Fueled Vehicle List

Add to section 2-1.33B:

The Proposal includes forms specific to the Contract. The deadlines for the submittal of the forms vary depending on the requirements of each Contract. Determine the requirements of the Contract and submit the forms based on the applicable schedule specified in section 2-1.33B.

Bid forms and information on the form that are due after the time of bid may be submitted at the time of bid.

2-1.33B(3)(c) Contracts without a DVBE Goal

2-1.33B(3)(c)(i) General

Section 2-1.33B(3)(c) applies if a DVBE goal is not shown on the *Notice to Bidders*.

2-1.33B(3)(c)(ii) Bid Form Submittal

Submit the bid forms according to the schedule shown in the following table:

Bid Form Submittal Schedule for a Non-Federal-Aid Contract without a DVBE Goal

Form	Submittal deadline
Bid to the Department of Transportation	Time of bid except for the public works contractor registration number for a joint-venture contract
For a joint-venture contract, copy of the Bid to the Department of Transportation as submitted at the time of bid with the public works contractor registration number	10 days after bid opening
Subcontractor List	Time of bid
In-Use Off-Road Diesel-Fueled Vehicle List	10 days after bid opening
Opt Out of Payment Adjustments for Price Index Fluctuations ^a	Time of bid
California Company Preference	Time of bid
Certified DVBE Summary ^b	No later than 4 p.m. on the 4th business day after bid opening
Request for Small Business Preference or Non-Small Business Preference ^a	Time of bid
Certified Small Business Listing for the Non-Small Business Preference ^a	No later than 4 p.m. on the 2nd business day after bid opening

^aSubmit only if you choose the option or preference.

^bSubmit only if you obtain DVBE participation or you are the apparent low bidder, 2nd low bidder, or 3rd low bidder and you choose to receive the specified incentive.

2-1.33B(3)(c)(iii) Reserved

2-1.33B(3)(d)–2-1.33B(3)(h) Reserved

2-1.33B(4)–2-1.33B(9) Reserved

Add to section 2-1.34:

The form "Bidder's Bond" can be found following the signature page of the Proposal.

Add to section 2-1.43:

BID OPENING

The County publicly opens and reads bids at the time and place shown on the Notice to Bidders.

Add to section 2-1.50:

BID RIGGING

The U.S. Department of Transportation (DOT) provides a toll-free hotline to report bid rigging activities. Use the hotline to report bid rigging, bidder collusion, and other fraudulent activities. The hotline number is (800) 424-9071. The service is available 24 hours 7 days a week and is confidential and anonymous. The hotline is part of the DOT's effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General.

3 CONTRACT AWARD AND EXECUTION

Replace the 1st paragraph in section 3-1.04 with:

Bid Protest. Any bid protest must be in writing and must be received by the Department Director at 1106 Second Street, Eureka, CA, 95501 (Fax: (707) 445-7409), before 5:00 p.m. no later than three (3) working days following bid opening (the “Bid Protest Deadline”) and must comply with the following requirements:

1. Only a bidder who has actually submitted a Bid Proposal is eligible to submit a bid protest against another bidder. Subcontractors are not eligible to submit bid protests. A bidder may not rely on the bid protest submitted by another bidder, but must timely pursue its own protest.
2. The bid protest must contain a complete statement of the basis for the protest and all supporting documentation. Material submitted after the Bid Protest Deadline will not be considered. The protest must refer to the specific portion or portions of the Contract Documents upon which the protest is based. The protest must include the name, address and telephone number of the person representing the protesting bidder if different from the protesting bidder.
3. A copy of the protest and all supporting documents must also be transmitted by fax or by e-mail, by or before the Bid Protest Deadline, to the protested bidder and any other bidder who has a reasonable prospect of receiving an award depending upon the outcome of the protest.
4. The protested bidder may submit a written response to the protest, provided the response is received by the Department Director before 5:00 p.m., within two (2) working days after the Bid Protest Deadline or after receipt of the bid protest, whichever is sooner (the “Response Deadline”). The response must include all supporting documentation. Material submitted after the Response Deadline will not be considered. The response must include the name, address and telephone number of the person representing the protested bidder if different from the protested bidder.
5. The procedure and time limits set forth in this section are mandatory and are the bidder’s sole and exclusive remedy in the event of bid protest. The bidder’s failure to comply with these procedures shall constitute a waiver of any right to further pursue a bid protest, including filing a Government Code Claim or initiation of legal proceedings. Any addenda or bulletins issued during the time of bidding, or forming a part of the documents issued to the Bidder for the preparation of his bid, shall be covered in the bid, and shall become a part of the Agreement.

Any addenda or bulletins issued during the time of bidding, or forming a part of the documents issued to the Bidder for the preparation of his bid, shall be covered in the bid, and shall become a part of the Agreement.

No person, firm or corporation shall be allowed to make or file, or be interested in, more than one bid for the same work, unless alternate bids are called for. A person, firm, or corporation who has submitted a subproposal to a Bidder, or who has quoted prices on materials to a Bidder, is not thereby disqualified from submitting a subproposal or quoting prices to other Bidders.

Replace the 2nd paragraph in section 3-1.04 with:

CONTRACT AWARD

If the County awards the contract, the award is made to the lowest responsible and responsive bidder.

Replace section 3-1.05:

The successful Bidder, simultaneously with the execution of the Agreement, will be required to furnish a **Payment Bond** in an amount equal to **one hundred (100%) percent** of the contract price, and a faithful **Performance Bond** in an amount equal to **one hundred (100%)** of the contract price; said Bonds shall be secured from a surety company satisfactory to the Humboldt County Board of Supervisors. The Payment Bond shall comply with Section 3248 of the Civil Code of the State of California. The Payment Bond and the faithful Performance Bond shall each be in a form which is satisfactory to the County Counsel of the County of Humboldt. A copy of an acceptable format is attached to the Agreement forms included in the proposal section of these specifications.

Replace section 3-1.06 with:

CONTRACTOR LICENSE

The Contractor must be properly licensed as a contractor from contract award through Contract acceptance (Public Contract Code § 10164).

Replace section 3-1.07 with:

- I. THIS CONTRACT/AGREEMENT SHALL NOT BE EXECUTED BY COUNTY and the CONTRACTOR is not entitled to any rights, unless certificates of insurance, or other sufficient proof that the following provisions have been complied with, and such certificate(s) are filed with the Clerk of the Humboldt County Board of Supervisors.
- II. Without limiting Contractor's indemnification provided herein, Contractor shall and shall require any of its subcontractors to take out and maintain, throughout the period of this Agreement, the following policies of insurance placed with insurers with a current A.M. Bests rating of no less than A:VII or its equivalent against injury/death to persons or damage to property which may arise from or in connection with the activities hereunder of Contractor, its agents, employees or subcontractors:
 - A. Comprehensive or Commercial General Liability Insurance at least as broad as Insurance Services Office Commercial General Liability coverage (occurrence from CG 0001), in an amount of \$2,000,000 per occurrence. If work involves explosive, underground or collapse risks, XCU must be included. If a general aggregate limit is used, either the general aggregate limit shall apply separately to this project or the general aggregate shall be twice the required occurrence limit. Said policy shall contain, or be endorsed with, the following provisions:
 - (1) The County, its officers, employees and agents, are covered as additional insured for liability arising out of the operations performed by or on behalf of Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the County, its officers, agents, and employees.
 - (2) The policy shall not be canceled or materially reduced in coverage without thirty (30) days prior written notice (10 days for non-payment of the premium) to County by certified mail.

- (3) The inclusion of more than one insured shall not operate to impair the rights of one insured against another insured, and the coverage afforded shall apply as though separate policies had been issued to each insured, but the inclusion of more than one insured shall not operate to increase the limits of the insurer's liability.
 - (4) For claims related to this project, the Contractor's insurance is primary coverage to the County, and any insurance or self-insurance programs maintained by the County are excess to Contractor's insurance and will not be called upon to contribute with it.
 - (5) Any failure to comply with reporting or other provisions of the parties, including breach of warranties, shall not affect coverage provided to County, its officers, employees, and agents.
- B. Automobile liability insurance with coverage at least as broad as Insurance Services Office form CA 0001 06092, Code 1 (any auto), for vehicles used in the performance of this Agreement with minimum coverage of not less than \$1,000,000 per accident combined single limit (CSL). Such policy shall contain or be endorsed with the provision that coverage shall not be canceled or materially reduced in coverage without thirty (30) days prior written notice (10 days for non-payment of premium) to County by certified mail.
 - C. Workers' Compensation insurance meeting statutory limits of the California Labor Code which policy shall contain or be endorsed to contain a waiver of subrogation against County, its officers, agents, and employees and provide for thirty (30) days prior written notice in the event of cancellation.
 - D. Contractor shall furnish County with certificates and original endorsements effecting the required coverage prior to execution of this Agreement by County. The endorsements shall be on forms as approved by the County's Risk Manager or County Counsel. Any deductible or self-insured retention over \$100,000 shall be disclosed to and approved by County. If Contractor does not keep all required policies in full force and effect, County may, in addition to other remedies under this Agreement, take out the necessary insurance, and Contractor agrees to pay the cost of said insurance.

The County may elect to treat a failure to maintain the requisite insurances as a breach of contract/agreement and terminate the contract/agreement as provided herein.

- III. Contractor shall indemnify and hold harmless County and its Board, officers, officials, employees, and volunteers from and against all claims, damages, losses, and expenses including attorney fees arising out of the performance of the work described herein, caused in whole or in part by any negligent act or omission by the contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, except where caused by the active negligence, sole negligence, or willful misconduct of the County.

Replace the 2nd and 3rd paragraph in section 3-1.18 with:

The form of Agreement which the successful Bidder, as Contractor, will be required to execute, is included in the contract documents and should be carefully examined by the bidder. The agreement and bonds will be executed in duplicate. The signed agreements and bonds together with the required insurance

certificates are to be returned by the successful bidder within 7 days, not including Sundays and legal holidays, after the bidder has received the contract for execution.

^^

4 SCOPE OF WORK

Add to section 4-1.06:

CHANGED CONDITIONS

A. Differing Site Conditions

1. During the progress of the work, if subsurface or latent physical conditions are encountered at the site differing materially from those indicated in the contract or if unknown physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the contract, are encountered at the site, the party discovering such conditions shall promptly notify the other party in writing of the specific differing conditions before the site is disturbed and before the affected work is performed.
2. Upon written notification, the engineer will investigate the conditions, and if it is determined that the conditions materially differ and cause an increase or decrease in the cost or time required for the performance of any work under the contract, an adjustment, excluding anticipated profits, will be made and the contract modified in writing accordingly. The engineer will notify the contractor of the determination whether or not an adjustment of the contract is warranted.
3. No contract adjustment which results in a benefit to the contractor will be allowed unless the contractor has provided the required written notice.
4. No contract adjustment will be allowed under this clause for any effects caused on unchanged work.

B. Suspensions of Work Ordered by the Engineer

1. If the performance of all or any portion of the work is suspended or delayed by the engineer in writing for an unreasonable period of time (not originally anticipated, customary, or inherent to the construction industry) and the contractor believes that additional compensation and/or contract time is due as a result of such suspension or delay, the contractor shall submit to the engineer in writing a request for adjustment within 7 calendar days of receipt of the notice to resume work. The request shall set forth the reasons and support for such adjustment.
2. Upon receipt, the engineer will evaluate the contractor's request. If the engineer agrees that the cost and/or time required for the performance of the contract has increased as a result of such suspension and the suspension was caused by conditions beyond the control of and not the fault of the contractor, its suppliers, or subcontractors at any approved tier, and not caused by weather, the engineer will make an adjustment (excluding profit) and modify the contract in writing accordingly. The contractor will be notified of the engineer's determination whether or not an adjustment of the contract is warranted.

3. No contract adjustment will be allowed unless the contractor has submitted the request for adjustment within the time prescribed.
4. No contract adjustment will be allowed under this clause to the extent that performance would have been suspended or delayed by any other cause, or for which an adjustment is provided or excluded under any other term or condition of this contract.

C. Significant Changes in the Character of Work

1. The engineer reserves the right to make, in writing, at any time during the work, such changes in quantities and such alterations in the work as are necessary to satisfactorily complete the project. Such changes in quantities and alterations shall not invalidate the contract nor release the surety, and the contractor agrees to perform the work as altered.
2. If the alterations or changes in quantities significantly change the character of the work under the contract, whether such alterations or changes are in themselves significant changes to the character of the work or by affecting other work cause such other work to become significantly different in character, an adjustment, excluding anticipated profit, will be made to the contract. The basis for the adjustment shall be agreed upon prior to the performance of the work. If a basis cannot be agreed upon, then an adjustment will be made either for or against the contractor in such amount as the engineer may determine to be fair and equitable.
3. If the alterations or changes in quantities do not significantly change the character of the work to be performed under the contract, the altered work will be paid for as provided elsewhere in the contract.
4. The term “significant change” shall be construed to apply only to the following circumstances:
 - When the character of the work as altered differs materially in kind or nature from that involved or included in the original proposed construction; or
 - When a major item of work, as defined elsewhere in the contract, is increased in excess of 125 percent or decreased below 75 percent of the original contract quantity. Any allowance for an increase in quantity shall apply only to that portion in excess of 125 percent of original contract item quantity, or in case of a decrease below 75 percent, to the actual amount of work performed.

[illegible]

5 CONTROL OF WORK

Add to section 5-1.13A:

The subcontractors listed on the "Subcontractor List," shall perform the work and supply the materials for which they are listed, unless the Contractor has received prior written authorization to perform the work with other forces or to obtain the materials from other sources.

The Contractor should notify the Engineer in writing of any changes to its anticipated subcontractor participation. This notice should be provided prior to the commencement of that portion of the work.

Replace section 5-1.13E with:

5-1.13E Prompt Payment

Section 5-1.13E applies to all contracts.

Pay your subcontractors within 7 days of receipt of each progress payment under Pub Cont Code §§ 10262 and 10262.5. Pay duly authorized motor carriers of property in dump trucks for transportation charges under Bus & Prof Code § 7108.6. Pay other entities, such as material suppliers, within 30 days of receipt of each progress payment.

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

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

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

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

1. Value of the disputed work
2. Amount of the withhold being taken
3. Bid item numbers or change order numbers associated with the disputed work
4. Explanation of the deficiencies of the disputed work and how the corresponding value was calculated
5. Corrective actions to be taken for release of withheld amount

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

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

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

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

Add to section 5-1.36C:

The Contractor's attention is directed to the existence of certain underground facilities that may require special precautions be taken by the Contractor to protect the health, safety and welfare of workmen and of the public. Facilities requiring special precautions include, but are not limited to: conductors of petroleum products, oxygen, chlorine, and toxic or flammable gases; natural gas in pipelines greater than 150 mm (6 inches) in diameter or pipelines operating at pressures greater than 415 kPa (60 psi) gauge; underground electric supply system conductors or cables, with potential to ground of more than 300 volts, either directly buried or in duct or conduit which do not have concentric grounded conductors or other effectively grounded metal shields or sheaths.

Per Govt Code § 4216 et seq., the Contractor shall notify the Engineer and the appropriate regional notification center for operators of subsurface installations at least 3 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. Regional notification centers include but are not limited to the following:

Notification Center	Telephone Number
Underground Service Alert-Northern California (USA)	1-800-642-2444 1-800-227-2600
Underground Service Alert-Southern California (USA)	1-800-422-4133 1-800-227-2600

^^

6 CONTROL OF MATERIALS

Add to section 6-1.03:

6-1.03B Submittals

6-1.03B(1) General

Not Used

6-1.03B(2) Work Plan

For local material, such as rock, gravel, earth, structure backfill, pervious backfill, imported borrow, and culvert bedding, obtained from a (1) noncommercial source, or (2) source not regulated under California jurisdiction, submit a local material plan for each material at least 60 days before placing the material. The local material plan must include:

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

I am aware local material from a noncommercial source or a source not regulated under CA jurisdiction must be sampled and analyzed for pH and lead and may require sampling and analysis under section 6-1.03B(3) for other constituents of concern based on the land use history. I am aware that local material sources must not contain ADL at concentrations greater than 80 mg/kg

total lead or equal to or greater than 5 mg/L soluble lead as determined by the Waste Extraction Test (WET) Procedures, 22 CA Code of Regs § 66261.24(a)(2) App II. I am aware that a maximum quantity of material may be excavated at the site based on the minimum number of samples taken before excavating at the site under section 6-1.03B(3).

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

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

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

6-1.03B(3) Analytical Test Results

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

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

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

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

6-1.03B(4) Sample and Analysis

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

1. Before bringing the local material to the job site
2. As described in the local material plan
3. Under US EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)

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

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

Minimum Number of Samples and Analytical Tests for Local Material

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

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

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

The analytical test results must demonstrate that the local material:

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

6-1.03C Local Material Management

Do not place local material until authorized.

If the Engineer determines the appearance, odor, or texture of any delivered local material suggests possible contamination, sample and analyze the material. The sampling and analysis is change order work

unless (1) hazardous waste is discovered or (2) the analytical test results indicate the material does not comply with section 6-1.03B(3).

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

Replace the 4th paragraph in section 6-2.01 with:

QUALITY ASSURANCE

The County uses a Quality Assurance Program (QAP) to ensure a material is produced to comply with the Contract.

The County may examine the records and reports of tests the prime contractor performs if they are available at the job site. Schedule work to allow time for QAP.

^^

7 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

Add to section 7-1.02K(1):

7-1.02K(1) Labor Code 1725.5

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

Add to section 7-1.02K(2) paragraph 2:

The general prevailing wage rates determined by the Director of Industrial Relations, for the county or counties in which the work is to be done, are available at the Humboldt County Department of Public Works, 1106 Second Street, Eureka CA 95501. These wage rates are not included in the Special Provision, Notice to Bidder's, Proposal and Contract Book for the project. Changes, if any, to the general prevailing wage rates will be available at the same location.

Add to section 7-1.02L(1):

Public Contract Code, Sec. 7106 (Noncollusion)

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

[illegible]

20

PROMPT PAYMENT FROM THE COUNTY TO THE CONTRACTORS

The County shall make any progress payment within 30 days after receipt of an undisputed and properly submitted payment request from a contractor on a construction contract. If the County fails to pay promptly, the County shall pay interest to the contractor, which accrues at the rate of 10 percent per annum on the principal amount of a money judgment remaining unsatisfied. Upon receipt of a payment request, the County shall act in accordance with both of the following:

1. Each payment request shall be reviewed by the County as soon as practicable after receipt for the purpose of determining that it is a proper payment request.
2. Any payment request determined not to be a proper payment request suitable for payment shall be returned to the contractor as soon as practicable, but not later than seven (7) days, after receipt. A request returned pursuant to this paragraph shall be accompanied by a document setting forth in writing the reasons why the payment request is not proper.

Replace sections 9-1.17(D) through 9-1.22, with the following:

FINAL PAYMENT AND CLAIMS

9-1.17D Final Payment and Claims

9-1.17D(1)

Sections 9-1.17D through 9-1.22 of the Standard Specifications shall be replaced with the following provisions as required by California Public Contract Code Section 9204 .

9-1.17D(2)

For purposes of this section:

1. “Claim” means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:
 - 1.1 A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.
 - 1.2 Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.
 - 1.3 Payment of an amount that is disputed by the public entity.
2. “Contractor” means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the California Business and Professions Code who has entered into a direct contract with a public entity for a public works project.
3. “Public entity” means, without limitation, except as provided herein, a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed

to carry out the purposes of the public agency. However, the term “public entity” shall not include any of the following:

- 3.1 The Department of Water Resources as to any project under the jurisdiction of that department.
 - 3.2 The Department of Transportation as to any project under the jurisdiction of that department.
 - 3.3 The Department of Parks and Recreation as to any project under the jurisdiction of that department.
 - 3.4 The Department of Correction and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with section 7000) of Title 7 of Part 3 of the California Penal Code.
 - 3.5 The Military Department as to any project under the jurisdiction of that department.
 - 3.6 The Department of General Services as to all other projects.
 - 3.7 The High-Speed Rail Authority.
4. “Public works project” means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.
 5. “subcontractor” means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the California Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

9-1.17D(3)(a)

Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

9-1.17D(3)(b)

The claimant shall furnish reasonable documentation to support the claim.

9-1.17D(3)(c)

If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

9-1.17D(3)(d)

Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

9-1.17D(4)(a)

If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

9-1.17D(4)(b)

Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

9-1.17D(4)(c)

For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

9-1.17D(4)(d)

Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

9-1.17D(4)(e)

This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

9-1.17D(5)

Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

9-1.17D(6)

Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

9-1.17D(7)

If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

9-1.17D(8)

A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable, and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the time frames and procedures set forth in this section.

9-1.18-9-1.22 RESERVED

[illegible]

DIVISION II GENERAL CONSTRUCTION

12 TEMPORARY TRAFFIC CONTROL

Replace the section 12-1.04 with:

Contractor is responsible for the flagging costs.

Replace the last paragraph of section 12-4.01 with:

Notify the local authorities in writing of your intent to begin work at least 5 days before work is to start. Submit a copy of the notice and send it to the local authorities before commencement of construction. Cooperate with local authorities to handle traffic through the area and make arrangements to keep the working area clear of parked vehicles. The local authorities must consist of:

1. Humboldt County Sheriff Department - (707) 445-7251

If work vehicles or equipment are parked on the shoulder within 6 feet of a traffic lane, close the shoulder area with fluorescent-orange traffic cones or portable delineators. Place the cones or delineators on a taper

in advance of the parked vehicles or equipment and along the edge of the traveled way at 25-foot intervals to a point not less than 25 feet past the last vehicle or piece of equipment. Use at least 9 cones or delineators for the taper. Place advance warning signs as specified in section 12-4.02C(8).

Keep a minimum of 1 traffic lane at least 10 feet wide open for traffic, except the full width of the traveled way must be open when construction operations are not active or an approved traffic control plan is in place.

Replace section 12-5 with:

12-5 TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE

12-5.01 GENERAL

Section 12-5 includes specifications for closing traffic lanes with stationary lane closures on 2-lane, 2-way highways. The traffic control system for a lane closure must comply with the details in Section 12-5.

Traffic control system does include signage.

12-5.03 CONSTRUCTION

12-5.03A General

During traffic striping and pavement marker placement using bituminous adhesive, control traffic with a stationary or a moving lane closure. During other activities, control traffic with stationary lane closures.

Whenever components of the traffic control system are displaced or cease to operate or function as specified from any cause, immediately repair the components to the original condition or replace the components and restore the components to the original location.

The Contractor shall notify the appropriate regional notification center for operators of subsurface installations at least 2 business days, but not more than 14 days, prior to commencing excavation for construction area sign posts. The regional notification centers include, but are not limited to, the following:

Notification Center	Telephone Number
Underground Service Alert	811 1-800-227-2600

12-5.03B Stationary Lane Closures

For a stationary lane closure made only for the work period, remove the components of the traffic control system from the traveled way, pedestrian pathway and shoulder, except for portable delineators placed along open trenches or excavation adjacent to the traveled way at the end of each work period. You may store the components at selected central locations designated by the Engineer within the limits of the highway.

Flagging shall conform to the provisions in Section 12-1, "General," of the Standard Specifications, except that the provision in Section 12-1.04, "Payment," providing for flagging costs to be borne equally by the State and the Contractor will not apply. All flagging costs will be borne totally by the Contractor. If it is determined by the Engineer that the amount of flagging is insufficient for the traffic conditions, all work involving public traffic shall be halted until the Contractor provides the necessary flagging.

12-5.04 PAYMENT

The contract lump sum price paid for Traffic Control System includes full compensation for furnishing all labor (including all flagging costs), materials, tools, equipment and incidentals, and for doing all the work involved in placing, removing, storing, maintaining, moving to new locations, replacing, and disposing of the components of the traffic control system, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The adjustment provisions in Section 4-1.05, "Changes and Extra Work," of the Standard Specifications, shall not apply to the item of traffic control system. Adjustments in compensation for traffic control system will be made only for increased or decreased traffic control system required by changes ordered by the Engineer and will be made on the basis of the cost of the increased or decreased traffic control necessary. Such adjustment will be made on a force account basis as provided in Section 9-1.04, "Force Account," of the Standard Specifications for increased work, and estimated on the same basis in the case of decreased work.

Traffic control system required by work classified as extra work, as provided in Section 4-1.05 of the Standard Specifications, will be paid for as Extra Work.

^^

13 WATER POLLUTION CONTROL

Insert into section 13-1.01:

Preliminary calculations by the Engineer indicate that the project's disturbed soil area is 0.2 acres including stockpile and/or Contractor's staging area.

Manage work activities in a way that reduces the discharge of pollutants to surface waters, groundwater and separate municipal storm sewer systems.

^^

DIVISION III EARTHWORK AND LANDSCAPE

19 EARTHWORK

^^

DIVISION V SURFACINGS AND PAVEMENTS

39 ASPHALT CONCRETE

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

The grade of asphalt binder for Type A HMA must be PG 64-16.

The aggregate gradation for Type A HMA must be 1/2 inch.

For Type A HMA using RAP substitution of greater than 15 percent of the aggregate blend, the virgin binder grade must comply with the PG binder grade specified above with 6 degrees C reduction in the upper and lower temperature classification.

For Type A HMA using RAP substitution of 15 percent or less of the aggregate blend, the grade of the virgin binder must comply with the PG binder grade specified above.

Add to the beginning of section 39-2.02C:

Use a material transfer vehicle when placing Type A HMA if:

1. Quantity of HMA to be paved is greater than 1,000 tons.
2. Any of the following exists:
 - 2.1. Paving is allowed and the ambient air temperature is below 70 degrees F.
 - 2.2. Time from discharge to truck at the HMA plant until transfer to the paver's hopper is 90 minutes or greater.

Replace Table in Section 39-2.02B(2) with:

Type A HMA Mix Design Requirements

Quality characteristic	Test method	Requirement
Air voids content (%)	AASHTO T 269 ^a	$N_{\text{initial}} > 8.0$ $N_{\text{design}} = 4.0 (\pm 2.0\%)$ $(N_{\text{design}} = 5.0 \text{ for 1-inch aggregate})$ $N_{\text{max}} > 2.0$
Gyrations compaction (no. of gyrations)	AASHTO T 312	$N_{\text{initial}} = 8$ $N_{\text{design}} = 85.0$ $N_{\text{max}} = 130$
Voids in mineral aggregate (min, %) ^b Gradation: No. 4 3/8-inch 1/2-inch 3/4-inch 1-inch with NMAS = 1-inch with NMAS = 3/4-inch	MS-2 Asphalt Mixture Volumetrics	16.5–19.5 15.5–18.5 14.5–17.5 13.5–16.5 13.5–16.5 14.5–17.5
Dust proportion	MS-2 Asphalt Mixture Volumetrics	0.6–1.3
Hamburg wheel track (min number of passes at 0.55-inch rut depth) Binder grade: PG 58 PG 64 PG 70 PG 76 or higher	AASHTO T 324 (Modified) ^c	10,000 15,000 20,000 25,000

^aCalculate the air voids content of each specimen using AASHTO T 275, Method A, to determine bulk specific gravity. Use AASHTO T 209, Method A, to determine theoretical maximum specific gravity. Use a digital manometer and pycnometer when performing AASHTO T 209.

^bMeasure bulk specific gravity using AASHTO T 275, Method A.

^cTest plant-produced Type A HMA.

Replace Table in Section 39-2.02B(4)(a) with:

Aggregate Quality

Quality characteristic	Test method	Requirement
Percent of crushed particles:	AASHTO T 335	
Coarse aggregate (min, %)		
One-fractured face		90
Two-fractured faces		85
Fine aggregate (min, %)		
(Passing No. 4 sieve and retained on No. 8 sieve.)		
One-fractured face		70
Los Angeles Rattler (max, %)	AASHTO T 96	
Loss at 100 Rev.		12
Loss at 500 Rev.		40
Sand equivalent (min) ^a	AASHTO T 176	47
Flat and elongated particles (max, % by weight at 5:1)	ASTM D4791	10
Fine aggregate angularity (min, %) ^b	AASHTO T 304, Method A	45

^aThe reported value must be the average of 3 tests from a single sample. Use of a sand reading indicator is required as shown in AASHTO T 176, Figure 1. Sections 4.7, "Manual Shaker," 7.1.2, "Alternate Method No. 2," and 8.4.3, "Hand Method," do not apply. Prepare the stock solution as specified in section 4.8.1, "Stock solution with formaldehyde," except omit the addition of formaldehyde.

^bThe Engineer waives this specification if the Type A HMA contains 10 percent or less of nonmanufactured sand by weight of total aggregate, except if your JMF fails verification. Manufactured sand is fine aggregate produced by crushing rock or gravel.

[illegible]

DIVISION VII DRAINAGE FACILITIES

64 PLASTIC PIPE

Add to section 66-1.04 Payment with the following:

Option A bid item for 18" Plastic Pipe includes excavation, backfill and embankment necessary to install new culvert, all work required to connect into existing drainage inlet, and all work necessary to fill void under sidewalk at drainage inlet.

66 CORRUGATED METAL PIPE

Add to section 66-1.04 Payment with the following:

Base bid item for 12" Corrugated Steel Pipe and Option B bid item 18" Corrugated Steel Pipe include excavation, backfill and embankment necessary to repair and/or replace culvert, all work required to connect existing pipe to new pipe including hardware and couplers/bands, all work necessary to connect 18" CSP into existing drainage inlet, and all work necessary to fill void under sidewalk at drainage inlet.

[illegible]

71 EXISTING DRAINAGE FACILITIES

Replace section 71-3.01A(3) with:

71-3.01A(3) Submittals

71-3.01A(3)(a) General

For each culvert, submit a work plan in a 3-ring binder that has labeled dividers for each type of plan. The work plan must include:

1. Cleaning plan
2. Inspection plan
3. Contact grouting plan when this work is described
4. Annular-space grouting plan when this work is described
5. Inspection and evaluation report
6. Post-rehabilitation inspection report

For each portion of the work plan, obtain the Department's authorization before you perform work based on that portion.

At the pre-rehabilitation meeting, submit the work plan. Include work plans for contact grouting and annular grouting when this work is described. Allow 7 days for the Department's review. If multiple binders are submitted simultaneously or a binder is submitted before the review of a previously submitted binder is complete, designate the sequence that the binders are to be reviewed. Allow review time specified plus 3 days for each additional binder.

Within 7 days of the inspection of a culvert, submit an inspection and evaluation report. Allow 7 days for the Department's review. If multiple reports are submitted simultaneously or a report is submitted before the review of a previously submitted report is complete, designate the sequence that the reports are to be reviewed. Allow the review time specified plus 3 days for each additional report.

Within 7 days of the completion of all culvert or work, submit a post-rehabilitation inspection report as an action submittal. Allow 5 days for the Department's review. If multiple reports are submitted simultaneously or an additional report is submitted before the review of a previously submitted report is

complete, designate the sequence that the reports are to be reviewed. Allow the specified review time plus 3 days for each additional reinspection report. Obtain written approval of the reinspection report.

To make a change to an authorized plan or report, submit it as specified for a new submittal. Note the changes.

Retain a copy of the culvert inspection videos and records until the post-rehabilitation inspection report is authorized.

Within 5 days of completing annular space grouting at a culvert, submit the grouting records.

71-3.01A(3)(b) Cleaning Plan

The cleaning plan must include methods for:

1. Cleaning.
2. Controlling sediments dislodged during the cleaning.
3. Controlling and diverting the existing stream or groundwater flow. The bypass system must have adequate capacity and size. Include:
 - 3.1. Your calculations for the existing flows and the capacity of the bypass system.
 - 3.2. Your schedule for the required use of the bypass system.

71-3.01A(3)(c) Inspection Plan

The inspection plan must include:

1. Sample of the printed CCTV video log. The printed log must include digital photographs of material not dislodged during cleaning operations, locations where invert repairs were necessary, culvert joints, lateral connection joints, protrusions, and other portions of the culvert drain.
2. Sample CCTV video recording from previous culvert drain inspection work. The video must have audio commentary stating operational and structural defects in pipes that are the same size as those for this Contract. Sample video recording must be taken with the same camera and lighting equipment proposed for this work. Describe the camera type, model and transporter.

If human entry is possible, the plan must also include samples obtained from handheld video and still photographs. Include the following:

1. Sample of the printed video log. The printed log must include digital photographs of material not dislodged during cleaning operations, locations where invert repairs were necessary, culvert joints, lateral connection joints, protrusions, etc.
2. Sample video recording from previous culvert inspection work. The video must have audio commentary showing operational and structural defects in pipes that are the same size as those for this Contract. Sample video recording must be taken with the same camera and lighting equipment proposed for this work. Describe the camera type, model, and transporter.

71-3.01A(3)(d) Contact Grouting Plan

If contact grouting is described, ordered, or proposed as a repair method, submit a contact grouting plan. The grouting plan must include:

1. Order of work.
2. Maximum injection pressures.

3. Details and data for drilling and grouting equipment.
4. Plans for controlling groundwater and existing culvert stream flows.
5. Pressure gauge, recorder, and field equipment certifications, including calibrations by an independent testing agency.
6. Sample printout of the form for recording grouting operations.

Form must show the following tabulated information for each grout port:

- 6.1. Port location.
- 6.2. Pressure.
- 6.3. Volume.
- 6.4. Start and end time.
7. Schedule of grout port installations and method for obtaining probe-depth dimensions at grout ports; tabulation of locations and dimensions.
8. Culvert strut details as necessary.
9. Method for monitoring deformation of culvert or concrete lining.
10. Grout mix design, including:
 - 10.1. Densities and viscosity.
 - 10.2. Initial set time.
 - 10.3. Materials and the independent testing agency's test data as specified in section 41-2.
 - 10.4. Grout working time before 15 percent change in density or viscosity occurs.

71-3.01A(3)(e) Annular Space Grouting Plan

If a pipeliner with annular space grouting is described, submit an annular space grouting plan. Submit a separate plan for each kind of grout or variation in grouting procedure or pipeliner installation. For each plan, state the corresponding culvert location and applicable installation conditions. With authorization, you may change the grout mix or grouting procedure before starting grouting at the given culvert location. The grout plan must show grouting methods and procedures and include:

1. Grout mix design. Include details of and test results from an independent testing agency for the following:
 - 1.1. Components and proportions.
 - 1.2. Densities and viscosity.
 - 1.3. Initial set time of the grout.
 - 1.4. 28-day minimum grout compressive strength.
 - 1.5. Grout working time before a 15 percent change in density or viscosity occurs.
2. Maximum injection pressures, including those for the stage at the crown of the culvert.
3. Proposed grout lift heights and volumes (e.g., stage 1 to spring line; stage 2 is fully grouted).
4. Bulkhead designs and locations.
5. Calculations of the buoyant forces during grouting and details for holding the pipeliner on the invert of the culvert for a period of time long enough to allow the first lift of grout to set before proceeding to the second lift.
6. Details for re-establishing lateral connections and openings.
7. Pressure gauge, recorder, and field equipment calibration records from an independent testing agency.
8. Proposed number and location of vents relative to the pipeliner diameter, pipeliner stiffness, and depth of flow of grout in the pipe.
9. Culvert strut details as necessary.
10. Written confirmation that you have coordinated grouting procedures with the grout installer and pipeliner manufacturer.

11. Calculations or other documentation verifying that pipeliner joints will not leak, separate, or deform under the proposed grouting pressure.

71-3.01A(3)(f) Inspection and Evaluation Report

Report the inspection findings and recommended repairs. CCTV or video recording and photography must comply with section 71-3.01A(4).

The inspection and evaluation report must include:

1. 2 copies of the CCTV or video recording. On the outside of each copy include:
 - 1.1. Recording number.
 - 1.2. Inspection date.
 - 1.3. Current distance along the culvert measured by a count meter.
 - 1.4. Encoded text description of location, culvert size, type and length.
 - 1.5. Printed labels with location and date on a hard copy of the video recording.
 - 1.6. Audio portion stating:
 - 1.6.1. Inspection date.
 - 1.6.2. Confirmation of the orientation and origin of the tape counter meter.
 - 1.6.3. Description of culvert size, type and length.
 - 1.6.4. Description and location of each defect.
 - 1.6.5. Description and location of each lateral pipe opening.
 - 1.6.6. Description of flow direction.
2. 1 set of the digital photographs.
3. Documentation of the condition of the culvert, including:
 - 3.1. Any condition that might prevent proper installation of pipeliner or invert paving.
 - 3.2. Protrusions.
 - 3.3. Collapsed or crushed areas.
 - 3.4. Reduced cross-sectional areas.
 - 3.5. Each lateral pipe opening, including:
 - 3.5.1. Drainage system identification.
 - 3.5.2. Distance into culvert.
 - 3.5.3. Exact position and orientation within culvert wall.
 - 3.5.4. Size or dimensions of opening.
 - 3.5.5. Connecting joint.
 - 3.5.6. Flow direction.
 - 3.6. Each culvert joint.
4. Recommendation for repairs or statement that no repairs are needed.
5. If repairs are recommended, describe the location and conditions, including any sharp or protruding appurtenances that might snag or tear the pipeliner. If possible, include a detailed evaluation by human entry of the areas where repairs are needed. Describe any corrective action proposed to re-establish lateral pipe and service openings.

If the Engineer determines that the inspection documentation is not adequate, your inspection and evaluation report will be rejected and you must reinspect and resubmit your report. Inadequate documentation may include poor camera head position, poor camera focus, poor illumination, rapid rate of progression, and incomplete records and logs. No payment is made for recleaning and reinspecting.

71-3.01A(3)(g) Postrehabilitation Inspection Report

After the completion of the postrehabilitation inspection, submit a postrehabilitation inspection report. The written logs, videos, and photographs must comply with section 71-3.01A(4).

The report must document the repairs, rehabilitation, and any subsequent deficiencies including:

1. Defects
2. Discoloration
3. Irregularities
4. Surface discontinuities
5. Anomalies
6. Constrictions
7. Deformities

If there are deficiencies and human entry is possible, the report must include more detailed documentation of human-entry inspection, concentrating on the areas with deficiencies.

If there are deficiencies, the inspection report must include recommendations to correct the deficiencies.

If the Engineer determines that the inspection report is not adequate, your report will be rejected and you must reinspect and resubmit your report. Inadequate documentation may include poor camera head position, lack of focus, poor illumination, rapid rate of progression, and incomplete records and logs. No payment is made for recleaning and reinspecting.

If there are deficiencies, do not start corrections until you have obtained authorization of the report.

Replace the 1st and 2nd paragraphs in section 71-3.01C(1) with:

Comply with the following work sequence and notify the Engineer before you start each of the following steps:

1. Control and divert _____
2. Clean and prepare culvert
3. Inspect and evaluate culvert
4. Repair culvert
5. Rehabilitate culvert
6. Restore openings
7. Perform post-rehabilitation inspection

Before starting culvert work, control and divert _____. Maintain control and diversion until the post-rehabilitation inspection report is authorized.

Keep the culvert clean and free of debris until the post-rehabilitation report is authorized.

Replace section 71-3.02 with:

71-3.02 FILL CULVERT VOIDS

71-3.02A General

Section 71-3.02 includes specifications for filling voids below and around a culvert that have been found during cleaning and inspection.

Wherever pipeliners are shown, fill voids before installing pipeliners.

Wherever there are voids in the materials below the invert of the culvert and these voids are greater than 3 inches deep, fill the voids with slurry cement backfill.

Filling the voids below the invert of the culvert with slurry cement backfill is paid for as change order work.

Wherever there are voids in the materials below the invert of the culvert and these voids are greater than 6 inches deep, fill the voids with slurry cement backfill.

Filling the voids below the invert of the culvert with slurry cement backfill is paid for as change order work.

Wherever there are voids in the materials around the culvert and these voids are greater than 6 inches deep, fill the voids with contact grout.

If grout is used to fill voids:

1. Submit a contact grouting plan under section 71-3.01A(3)(d)
2. Schedule and conduct a pregrouting meeting under section 71-3.01A(4)(b)(iii)

Filling the voids around the culvert with grout is paid for as change order work.

71-3.02B Materials

Not Used

71-3.02C Construction

After receipt of the inspection and evaluation report, the Engineer may order additional void-detection work including probing and hammer sounding. Additional void-detection work is change order work. Prevent the flow of cementitious material and water from construction activities into waterways and drainage facilities.

If voids are found, install grout ports as ordered. Install valves or removable plugs at grout ports. Probe at each grout port location. The probe must be at least 4 feet long, fit through the grout ports, and be rigid enough to sense probe refusal. Extend grout ports through the invert paving using steel pipes or suitable packers. Grout ports must be watertight. If authorized, you may screw grout ports in place or attach them by other methods. Do not weld grout ports to galvanized surfaces.

Pump grout into voids until it appears that all water and air has been ejected. Plug grout ports or close port valves as soon as you stop pumping the grout.

The maximum injection pressure at the nozzle must not exceed 5 psi for fluid, unsanded grout mix.

Monitor the culvert for deformation and cracks. If cracking occurs in a concrete culvert or lining, reduce the grout injection pressure. If deformation of the existing structure exceeds 1/2 inch at any location, reduce the injection pressure.

Repair any permanent deformations or cracks resulting from your grouting work. The Department does not pay for these repairs.

71-3.02D Payment

Record the quantity of slurry cement backfill that is installed and submit this quantity. The Department does not pay for slurry cement backfill that leaks through to the inside of the culvert. The Department does not pay for slurry cement backfill that is wasted, disposed of, or remaining on hand after completion of the work.

Record the quantity of grout that is installed and submit this quantity. The Department does not pay for grout that leaks through to the inside of the culvert. The Department does not pay for grout material that is wasted, disposed of, or remaining on hand after completion of the work.

Replace section 71-3.07 with:

71-3.07 PLASTIC PIPELINERS

71-3.07A General

71-3.07A(1) Summary

Section 71-3.07 includes specifications for installing plastic pipeliners in an existing culvert.

71-3.07A(2) Definitions

Not Used

71-3.07A(3) Submittals

Submit a certificate of compliance for the plastic pipeliner, joint system, joint, and coupler. The annular space grouting plan must include:

1. Manufacturer's recommendation for the maximum internal pressure
2. Maximum differential pipeliner pressures

71-3.07A(4) Quality Assurance

Not Used

71-3.07B Materials

71-3.07B(1) General

The nominal diameter and thickness of the pipeliner must comply with the dimensions shown. Plastic pipeliner must be any one of the following:

1. Type S corrugated polyethylene pipe that complies with section 64.
2. PVC closed-profile wall pipe that complies with ASTM F1803.
3. PVC corrugated pipe that complies with ASTM F794 (Series 46) and ASTM F949.

4. PVC solid wall pipe that complies with ASTM D3034, ASTM F679, AWWA C900, AWWA C905, or ASTM D2241 and cell class 12454 defined by ASTM D1784.
5. SDR32.5 or SDR26 HDPE solid wall pipe that complies with AASHTO M 326 and ASTM F714.
6. Polyethylene large-diameter-profile wall sewer and drain pipe that complies with ASTM F894.
7. Polypropylene dual wall pipe that complies with section 64.

71-3.07B(2) Plastic Pipeliner Joint Systems, Joints, and Couplers

Plastic pipeliner joint systems, joints, and couplers must comply with manufacturer's instructions and be compatible with the installation method for the corresponding plastic pipeliner.

Joint systems must comply with either ASTM F949, ASTM F1803, or ASTM F894. Joint systems must be field connected with molded or fabricated couplings that do not increase the outside diameter or reduce the inside diameter when assembled.

Procedures for making heat fusion joints for plastic solid wall pipe must comply with:

1. For HDPE solid wall pipe:
 - 1.1. AASHTO M 326
 - 1.2. ASTM F714
 - 1.3. ASTM F2620, practice for heat fusion joining of polyethylene pipe and fittings
2. For PVC solid wall pipe:
 - 2.1. Pipe suppliers procedures at all times during fusing operations.
 - 2.2. Technicians performing the work must hold current qualification credentials for the pipe size being fused, as documented by the supplier.

Joint systems, joints, and couplers must comply with specifications for standard shear strength in section 61-2.01D(2)(c).

71-3.07C Construction

Grout the annular space between the pipeliner and the culvert.

71-3.07D Payment

Not Used

Replace section 71-3.08 with:

71-3.08 CURED-IN-PLACE PIPELINERS

71-3.08A General

71-3.08A(1) Summary

Section 71-3.08 includes specifications for lining an existing culvert by either pulling or inverting a resin-impregnated fabric tube and curing the tube in place.

For all types of resin and installation methods, capture and dispose of any process water, condensate, and wastewater resulting from the installation of the cured-in-place pipeliner (CIPP). Comply with section 13-4.03D(5).

Do not install CIPP:

1. During a rain event
2. In the 48 hours following a rain event
3. When a runoff producing event is predicted within the 4 days after curing the CIPP unless a water diversion or temporary creek diversion system is in place

The CIPP must be kept dry for a minimum of 4 days after curing.

No CIPP work is allowed from _____ to _____.

71-3.08A(2) Definitions

segment: Continuous run of CIPP installed from one end of a culvert to the other end.

71-3.08A(3) Submittals

Submit a work plan for installing the CIPP. The work plan must include:

1. Description of how and when you will submit resin samples and any fillers used for the CIPP resin system.
2. Summary sheet for each culvert. Identify the summary sheet by the drainage system number shown for the corresponding culvert. Summary sheets must include:
 - 2.1. Calculated minimum thickness of liner.
 - 2.2. Manufacturer's instructions for:
 - 2.2.1. Minimum pressure to hold the tube tight against the culvert.
 - 2.2.2. Maximum allowable pressures to ensure no damage to the tube nor to the culvert.
 - 2.2.3. Cure pressures including the minimum cold, maximum heated, and maximum cold pressures.
 - 2.2.4. Method of liner insertion such as air inversion, water inversion, or pulled-in-place.
 - 2.2.5. Resin trade name.
 - 2.2.6. Proposed cure method such as hot water, UV light or steam.
 - 2.2.7. Heat Cure:
 - 2.2.7.1. Post-cure temperature.
 - 2.2.7.2. Cure time including accommodations for the effects of the anticipated heat sink conditions and variation over the length of the culvert.
 - 2.2.7.3. Expected maximum exothermic temperature.
 - 2.2.8. UV light curing include a full protocol for cure time, rate of travel of the UV assembly, pressures, light wattage, equipment used and quantity of lamps in operation for the correct curing of the fabric tube recommended by the manufacturer for the resins used for the project.
 - 2.3. Proposed length, access and termination points for each segment.
3. Manufacturer's information for:
 - 3.1. Resin, resin enhancer, and bond enhancer identification and typical properties including:
 - 3.1.1. Identification of supplier.
 - 3.1.2. Resin test results including infrared scans of both the reacted and unreacted resin.
 - 3.1.3. Pipeliner and resin manufacturer's certification that the resin and catalyst system meets requirements of each location where CIPP will be placed and is compatible with the intended installation method, service conditions and existing culvert material including bituminous coatings.
 - 3.1.4. Certificates of compliance for CIPP in compliance with ASTM F2019, ASTM D5813, ASTM F1216, or ASTM F1743.

- 3.2. Resin enhancer data including:
 - 3.2.1. Size range in microns.
 - 3.2.2. Quantity used in the formulated resin.
 - 3.2.3. Bond-enhancing coating material.
 - 3.2.4. Certification from the resin manufacturer or formulator that bond enhancer is compatible with the resin system.
 - 3.2.5. Certification from the bond enhancer manufacturer that the material is suitable for use in aqueous environments.
- 3.3. Fabric tube description including:
 - 3.3.1. Identification of supplier.
 - 3.3.2. Types of impermeable membranes and relative juxtaposition such as inner layer, outer layer, or both.
 - 3.3.3. Maximum pulling force that will not damage fabric tube for pulled-in-place installations.
- 3.4. Installation procedure for both insertion and resin curing.
- 3.5. Sealing materials such as quick-set epoxy mortar, high viscosity epoxy, or hydrophilic vulcanized expansive rubber strip.
- 3.6. Preliner description, preliner splicing recommendations, and identification of the supplier.
- 3.7. Description of nontoxic lubricant for inversion installation. Lubricant must not:
 - 3.7.1. Have any detrimental effects on the fabric tube, resin, or boiler and pump system.
 - 3.7.2. Support the growth of bacteria.
 - 3.7.3. Adversely affect the fluid to be transported.
4. Record of annual calibration for pressure and temperature equipment performed by an independent testing agency including:
 - 4.1. Standards traceable to the National Institute of Standards and Technology.
 - 4.2. Formal reporting procedure, including published test forms.
 - 4.3. Sample of a temperature and pressure log to be used for monitoring the resin curing process. Logs must have temperatures for resin, water, or steam and pressure noted at 5-minute intervals. Logs must identify the date, fabric tube thickness, and drainage system number shown for the corresponding culvert.
5. Test results from an independent testing agency for 10,000-hour, 50-year flexural creep modulus test under ASTM D2990. If authorized 10,000-hour tests are not available, use a minimum 75 percent reduction of the flexural modulus of elasticity for all formula calculations. Determine the flexural modulus of elasticity under ASTM D790, Procedure A, and comply with the requirements of ASTM D5813, and Table 1 within ASTM F2019, ASTM F1216, or ASTM F1743.
6. Certification on manufacturer's letterhead indicating you are approved by the fabric tube and resin manufacturer to perform CIPP installation work.
7. Material safety data sheets for all hazardous chemicals that will be used on the job site including resin, catalyst, cleaners, and repair agents. Identify the proposed use for each hazardous chemical and where it will be used in the work.
8. CIPP design calculations for each culvert location. Include the drainage system number shown for the corresponding culvert and the liner thickness. Design parameters include:
 - 8.1. CIPP classification. Unless otherwise shown, classification must be Type II (partially deteriorated) under ASTM D5813 and ASTM F1216, Appendix X1.1.1.
 - 8.2. CIPP must be designed under ASTM F1216, Appendix X1.2.1.
 - 8.3. Ovality must be assumed at 5 percent.
 - 8.4. If not described otherwise, assume the groundwater level is at 1/2 the culvert depth.
 - 8.5. Assume no bonding to the culvert wall.

Submit a minimum of 4 ounces of unreacted liquid resin test sample to METS, Attention: Chemical Laboratory. You must include any necessary co-reactants, proposed cure method, and infrared scans of both the reacted and unreacted resin with the sample.

Within 21 days of completing the resin curing at a culvert location, submit the test results from an independent testing agency. Allow 3 business days for the Department's review. The report must be signed by an engineer who represents the independent testing agency and is registered as a civil engineer in the State. The report must include:

1. Infrared spectrographic chemical fingerprint. Run and compare the infrared spectrographic chemical fingerprint of the field sample with the accepted fingerprint from the pre-installation informational submittal. Verify that the field-sample resin system is the same as the authorized resin system.
2. Flexural strength and flexural modulus test results for field samples.
3. Thickness measurements for the liner using prepared core samples.
4. Description of the defects in the tested samples in terms of the effect on CIPP performance.

Submit the tape and log of recorded temperatures within 48 hours after completing the resin-curing process.

Submit the recorded pressure within 48 hours after completing the resin-curing process.

71-3.08A(4) Quality Assurance

71-3.08A(4)(a) General

Use an authorized laboratory. The laboratory must have facilities and staff capable of performing tests including (1) tests under ASTM D790 and (2) the infrared spectrographic chemical fingerprint. Obtain the specified samples and transport them to the authorized laboratory or have the laboratory staff sample and transport the samples.

71-3.08A(4)(b) Quality Control

Mark each sample with the date, contract number, drainage system number of the corresponding culvert, and location where the sample was taken.

For each CIPP segment, test one 4-ounce sample of catalyzed resin.

Submit additional 4-ounce catalyzed resin test samples to METS, Attention: Chemical Laboratory. You must take:

1. Sample from the first segment.
2. One sample randomly selected by the Engineer from the next 5 segments. If less than 5 segments remain, sample from one of the remaining segments.

Make cured samples from the identical materials such as the tube, resin and catalyst to be used for the CIPP. Identify each sample by date, contract number, drainage system number of the corresponding culvert, thickness, name of resin, and name of catalyst.

The samples must be 6 by 16 inches in size. For heat cured CIPP, create the samples by:

1. Placing 3 aluminum-plate clamped molds, each containing a flat plate sample, inside the downtube when heated circulated water is used, and in the silencer when steam is used during the resin curing period
2. Sealing each flat plate sample in heavy-duty plastic envelope inside the mold
3. Removing the 3 cured flat plate samples after draining all of the moisture from the cured CIPP

If UV cured, comply with field sampling procedures under ASTM F2019, Section 7: Recommended Inspection Practices.

Test the samples for flexural properties under ASTM D790, ASTM D5813, ASTM F1216, ASTM F1743, or ASTM F2019. Verify that physical properties of the field samples comply with the minimum initial test values under:

1. ASTM F1216, Table 1, and as supplemented in Table 1 for heat cured polyester, vinyl ester, and epoxy resins. The flexural strength must be at least 4,500 psi. The flexural modulus must be at least 250,000 psi.
2. ASTM F2019, Table 1, and as supplemented in Table 1 for UV cured CIPP. The flexural strength must be at least 6,500 psi. The flexural modulus must be at least 725,000 psi. Comply with sampling and testing procedures under ASTM F2019, Section 7: Recommended Inspection Practices.

Take core samples in the presence of the Engineer. Comply with the following requirements:

1. Take 2 samples. Take the samples at least 10 feet from each end of the culvert or termination point and at a location near the top of the culvert. Samples must be at least 2 inches in diameter. Take the samples from the top of the culvert unless a minimum wall thickness is specified in section 71-3.08B(1). If a minimum wall thickness is specified in section 71-3.08B(1), take the samples as near as possible to the bottom of the culvert.
2. If human entry is used, samples may be cored internally. Repair cored holes under section 71-3.08C(5). Patch cored holes in the culvert with cement mortar under section 65-2.02F.
3. As an alternative, you may core samples from the top section of a CIPP that has been inverted using the same type of preliner through a pipe temporarily connected to the culvert. Take the cores 12 inches from the temporary joint. The pipe temporarily jointed to the culvert must be:
 - 3.1. Same diameter as the culvert.
 - 3.2. Made of the same material as the culvert.
 - 3.3. At least 10 feet long.
 - 3.4. Placed at the end of the culvert and held in place by a suitable heat sink, such as sandbags or earth, that is at least 6 inches thick.
4. If culvert material is corrugated metal, obtain samples at the corrugation crests.

Prepare the core samples by separating the CIPP material from the culvert material. If heat cured, remove the film from the inner lining or preliner.

If UV cured, remove the film from the inner and outer surfaces of the sample.

Measure the thickness of the liner at 3 spots on each sample. If the culvert material is corrugated metal, measure the thickness at 3 spots that are along a line corresponding to the corrugation crests. Calculate the thickness as an average of at least 6 measurements.

If UV cured, comply with the above core sample requirements and with the testing procedures under ASTM F2019, Section 7. If the culvert material is corrugated metal, measure the thickness at 3 spots that are along a line corresponding to the corrugation crests. Calculate the thickness as an average of at least 6 measurements.

CIPP will be rejected if:

1. Actual temperature, curing time, and schedule do not comply with the authorized work plan
2. Pressure deviates more than 1 psi from the required pressure
3. At any time during installation you violate the manufacturer's required minimum cool-down time or cool-down rate
4. There are defects including:
 - 4.1. Concentrated ridges, including folds and wrinkles exceeding 8 percent of the CIPP diameter
 - 4.2. Dry spots
 - 4.3. Lifts
 - 4.4. Holes
 - 4.5. Tears
 - 4.6. Soft spots
 - 4.7. Blisters or bubbles
 - 4.8. Delaminations
 - 4.9. Gaps in the length of the CIPP
 - 4.10. Gaps or a loose fit between the exterior of the CIPP and the culvert
5. Test results indicate one of the following:
 - 5.1. If heat cured, 2 of the 3 flat plate samples do not have any of the following:
 - 5.1.1. the specified modulus of elasticity
 - 5.1.2. the specified flexural strength
 - 5.1.3. either the specified modulus of elasticity or the specified flexural strength
 - 5.2. If UV cured, 2 of the 3 cured samples do not have any of the following:
 - 5.2.1. the specified modulus of elasticity
 - 5.2.2. the specified flexural strength
 - 5.2.3. either the specified modulus of elasticity or the specified flexural strength
6. The liner thickness is less than the greater of either one of the following:
 - 6.1. Specified thickness
 - 6.2. Calculated minimum thickness shown in your authorized work plan
7. Materials and installation methods are not those shown in your authorized installation plan
8. Defects are excessive or unrepairable
9. CIPP is not continuous or does not fit tightly for the full length of the culvert

71-3.08B Materials

71-3.08B(1) General

At location ____, the minimum wall thickness for the CIPP is ____ or the minimum thickness shown in the authorized installation plan, whichever is greater.

CIPP must comply with ASTM D5813 or ASTM F2019.

The fabric tube must consist of 1 or more layers of flexible, needled, polyester-fiber felt, an equivalent nonwoven material, or a combination of nonwoven and woven materials including reinforcing fibers and

fabrics capable of carrying the resin, or at least 2 separate tubes made of corrosion resistant E-CR or equivalent glass fibers that comply with ASTM D578. The fabric tube must:

1. Withstand installation pressures and curing temperatures.
2. Be compatible with the resin system used and be capable of stretching to fit irregular pipe sections and negotiate bends.
3. Have staggered longitudinal and circumferential joints between multiple layers of fabric so as not to overlap.
4. Be fabricated to a size so that when installed it fits tightly in the internal circumference and length of the culvert.
5. Have an impermeable plastic inner liner or outer liner film, or both for resin control. The liner must remain a permanent part of the system and an integral part of the fabric tube by bonding or fusing to the fabric tube.
6. Have a plastic coating with opacity that does not interfere with visual inspection.
7. Have outer plastic coating that is impermeable to all wave lengths of light relevant to curing if CIPP is to be UV cured.

71-3.08B(2) Inversion Fabric Tube and Preliner Tube

Upon delivery, the outside layer of the fabric tube must be plastic coated with a material that is compatible with the resin system. Make allowance for circumferential stretching during inversion. Use a preliner tube sized to fit the culvert. The preliner tube must be composed of 3-ply laminate sheet combining two layers of polyethylene film and high-strength-nylon cord grid formed into a tube. The tube must be (1) sized to fit the culvert and (2) continuous for the entire length of the culvert.

71-3.08B(3) Pulled-In-Place Fabric Tube

The outside layer of fabric tube must have an impermeable plastic coating to contain the resin during and after fabric tube impregnation. Make allowance for circumferential and longitudinal stretching during installation. The minimum tensile strength of the fabric tube or reinforced fiber material in the longitudinal and transverse directions must be 750 psi when tested under ASTM D5034 and ASTM D5035.

71-3.08B(4) Resin System

Resin must be compatible with the installation process and comply with ASTM D5813 and one of the following:

1. ASTM F1216
2. ASTM F1743
3. ASTM F2019

Resin must be one of the following:

1. Chemically resistant isophthalic-based polyester resin
2. Vinyl ester resin and catalyst system
3. Epoxy resin and hardener

Thixotropic agents that do not interfere with visual inspection may be added for viscosity control. Resins may contain pigments, dyes, or colors that do not interfere with visual inspection of the resin-impregnated liner or its required properties. For UV-light cured systems a photo-initiator system must be added to the

resin before the impregnation. The photo-initiator system must be tuned to the UV-curing equipment used or vice-versa.

Resin enhancer may be used. The maximum quantity of enhancer allowed is 15 percent by volume. Submit data to certify that the resin enhancer does not exceed the maximum quantity.

If using aluminum trihydride or fiberglass-reinforced felt, use a suitable bond-enhancing compound, such as silane or an equivalent, to increase the bond between the resin and other material.

71-3.08C Construction

71-3.08C(1) General

For each culvert location and for each drainage system, notify the Engineer 2 business days before starting resin impregnation.

Obtain authorization before starting the installation of any pipeliner segment. The Engineer may require the submittal of all test results for 1 segment before allowing installation of another segment.

Before starting resin impregnation, inspect the entire fabric tube for defects. The fabric tube must be wet-out by either (1) vacuum-impregnated with resin under controlled conditions or (2) impregnated with resin and run through a set of rollers separated by a space and calibrated under controlled conditions to ensure proper distribution of resin. The volume of resin must be enough to fully saturate the voids in the fabric tube material, including all resin-absorbing material of the calibration hose if applicable. Attach the following certification to the impregnated fabric tube:

1. Date
2. Type of resin
3. Resin manufacturer, trade name, and lot number
4. Resin calculation
5. Volume of resin used

The impregnated fabric tube must be stored in an area where the temperature is controlled to 70 degrees F or less for heat cured resins, or from 45 to 95 degrees F for UV cured resins.

Before installing the liner, place an impermeable plastic sheet 20 linear feet in length immediately upstream and downstream of the culvert. The impermeable plastic sheet must be either (1) at least 10 mil thick or (2) the same material as required for the preliner tube.

Capture any spillage of raw resin during installation.

If using pulled-in-place installation, install a semi-rigid, plastic slip sheet over the interior portions of the culvert that (1) could tear the outer film or (2) have a significant void.

Promptly repair all pinholes and tears in the plastic film or preliner. If these defective areas cannot be repaired, promptly replace the impermeable plastic film or preliner before proceeding with liner installation.

Remove and properly dispose of all waste materials.

71-3.08C(2) Inversion Installation

CIPP installation by inversion must comply with ASTM F1216.

Install each preliner tube in the presence of the Engineer. The preliner tube must control resin loss and liner thickness and prevent blocked laterals. For long segments, several sections of preliner tube may be spliced together in compliance with the preliner manufacturer's instructions for forming a tube of adequate length.

If you fail to install the required preliner tube over the entire segment, you must remove the CIPP from the culvert.

Turn the fabric tube's end inside out and attach it to a platform ring or standpipe. Adjust the pressure of water or steam to cause the impregnated fabric tube to invert end to end and to hold tight against the culvert wall.

During inversion, maintain a pressure between the required minimum and maximum pressures. If at any time during the installation you violate the manufacturer's required minimum and maximum pressures, you must remove the tube from the culvert.

Use a lubricant during inversion to reduce friction. Lubricant must be poured into the inversion water in the down tube or applied directly to the tube. Lubricant must:

1. Be nontoxic
2. Not have any detrimental effect on tube, resin, and boiler and pump system
3. Not support the growth of bacteria
4. Not adversely affect the fluid to be transported

71-3.08C(3) Pulled-in-Place Installation

CIPP installation by pulling-in-place must comply with ASTM F1743 or ASTM F2019.

Winch the fabric tube into position using the manufacturer's instructions. Adjust the pressure of water, air, or steam to cause the calibration hose to invert the tube end to end and hold tight against the culvert wall.

71-3.08C(4) Resin Curing

71-3.08C(4)(a) General

Cure the resin using either heat or UV light.

Curing the resin using heat consists of a heat cure and a cool-down period.

71-3.08C(4)(b) Pressure

Start the resin-curing process after you complete dimpling of the culvert openings. Maintain the required pressure until the resin-curing process is complete. Monitor the pressure throughout the curing process and record the pressure every 5 minutes.

71-3.08C(4)(c) Heat Cure

After installing the CIPP, use a suitable heat source that is either hot water, steam, or steam with air. The delivery system must be capable of providing the required heat uniformly throughout the section to completely cure the resin. Monitor the temperature throughout the curing process by:

1. Installing gauges to measure the temperature of the incoming and outgoing heat source.
2. Placing remote sensing devices at both ends between the impregnated tube and the culvert invert to monitor the outside temperature of the CIPP.
3. Recording the temperature from each remote sensing device on a continuous tape from a strip-chart recorder. The tape readings must represent the temperature from start to completion of the resin-curing process and draining the CIPP.
4. Recording temperature every 5 minutes.

Initial curing is complete when the remote sensing devices achieve the manufacturer's required curing temperatures for either resin, catalyst, or both. The curing temperature and schedule must comply with the submitted data and cool-down period.

71-3.08C(4)(d) Cool Down for Heat Cured Resins

Before relieving pressure, cool the hardened CIPP to below 100 degrees F. Cool per the manufacturer's instructions. The cool-down rate must not exceed 15 to 20 degrees F/hour.

You may add cool water to the water column while maintaining circulation as the water is drained from a small hole at the opposite end of the CIPP. Maintain constant water-column height until cool-down is completed. Do not let a vacuum develop during the release of the water column.

71-3.08C(4)(e) UV Cure

UV curing must comply with ASTM F2019, Section 6.7 Curing Methods-Ultraviolet Light Curing.

Prevent loss of resin by taping the cut ends of the liner before starting the curing process.

Optimize the UV lights before starting the curing process.

71-3.08C(5) Repairs

As an alternative to replacing a rejected CIPP, you may request authorization to repair the CIPP. Submit a work plan for repairs and include adequate information to describe the repair work such as specified for an installation plan. If the repair plan is not authorized, replace the CIPP.

Authorization may be given for the defects and corresponding repair methods shown in the following table:

CIPP Repairs

Defect	Repair method
CIPP thickness is less than the specified thickness or the calculated minimum thickness	Remove and replace the CIPP. If groundwater conditions allow, you may install a second CIPP within the first CIPP that produces a similar dimension ratio to the first CIPP or use procedures in the authorized repair plan.
Concentrated ridges in the CIPP	If concentrated ridges fall outside the 120-degree invert arc and you demonstrate that grinding does not compromise the CIPP's structural integrity or reduce its thickness below the submitted calculated minimum thickness, you may grind the concentrated ridges to the required tolerance. After grinding to the required tolerance, coat the ground area with the manufacturer's approved resin. At the end of each work day, dispose of any residue generated from grinding.
CIPP does not fit tightly against the culvert at the termination point	Fill the space between the CIPP and culvert with either of the following: Quick-set epoxy mortar High viscosity epoxy Hydrophilic vulcanized expansive rubber strip
Wrinkles or ridges exceeding 5% and up to 8% of pipe diameter outside of the 120-degree invert arc	Grind to the required tolerance
Wrinkles or ridges exceeding 2% and up to 8% of pipe diameter inside of the 120-degree invert arc except corrugations in CMP	Grind to the required tolerance within the lower 120 degrees of pipe to remove wrinkles or ridges and point repair where needed to maintain the minimum thickness or use procedures in the authorized repair plan
Wrinkles or ridges exceed 8% of the pipe diameter	Remove and replace the CIPP
Holes, tears, soft spots, and lifts up to 6 inches in major dimension	Make point repairs under the manufacturer's instructions
Delaminated areas up to 12 inches in major dimension; blistering or bubbling of the coating exceeding 5% of the CIPP's surface area	Make point repairs under the manufacturer's instructions
Annular space at the lateral connection or at the end of the CIPP or infiltration at the lateral opening	Seal with quick-set epoxy mortar, high-viscosity epoxy or a hydrophilic vulcanized expansive rubber strip
Liner not fully cured	Cure the liner again following all procedures.

Restore openings. Comply with

- ### 71-3.08D Payment

Replace section 71-6.03 with:

71-6.03A General

Notify the Engineer before abandoning a culvert or pipeline.

Openings into existing structures that are to remain in place may be plugged with minor concrete under section 90 or the existing pipe may be crushed in place.

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

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

71-6.03D Payment

If backfilling inside the culvert or pipeline is required, payment for backfilling inside the culvert or pipeline is paid for as extra work.

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PROPOSAL
TO
THE COUNTY OF HUMBOLDT
FOR
STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST
MILE 0.08
PROJECT NO.: Cal OES CDAA 2024-03
CONTRACT NO.: 224113

Name of Bidder: _____
(Name must be exactly as it appears [or will appear] on Contractor's license)

Business Address: _____

Telephone No.: _____

Place of Residence: _____

The work for which this proposal is submitted is for construction in accordance with the special provisions (including the payment of not less than the State general prevailing wage rates or Federal minimum wage rates), the project plans described above, including any addenda thereto, the contract annexed hereto and also in accordance with the California Department of Transportation Standard Plans dated 2023, the Standard Specifications dated 2023, and the Labor Surcharge and Equipment Rental Rates in effect at the time the work is performed.

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

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

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

- (a) If the amount set forth as a unit price is unreadable or otherwise unclear, or is omitted, or is the same as the amount as the entry in the item total column, then the amount set forth in the item total column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price;

- (b) (Decimal Errors) If the product of the entered unit price and the estimated quantity is exactly off by a factor of ten, one hundred, etc., or one-tenth, or one-hundredth, etc. from the entered total, the discrepancy will be resolved by using the entered unit price or item total, whichever most closely approximates percentagewise the unit price or item total in the County of Humboldt's Final Estimate of cost.

If both the unit price and the item total are unreadable or otherwise unclear, or are omitted, the bid may be deemed irregular. Likewise if the item total for a lump sum item is unreadable or otherwise unclear, or is omitted, the bid may be deemed irregular unless the project being bid has only a single item and a clear, readable total bid is provided.

Symbols such as commas and dollar signs will be ignored and have no mathematical significance in establishing any unit price or item total or lump sums. Written unit prices, item totals and lump sums will be interpreted according to the number of digits and, if applicable, decimal placement. Cents symbols also have no significance in establishing any unit price or item total since all figures are assumed to be expressed in dollars and/or decimal fractions of a dollar. Bids on lump sum items shall be item totals only; if any unit price for a lump sum item is included in a bid and it differs from the item total, the items total shall prevail.

The foregoing provisions for the resolution of specific irregularities cannot be so comprehensive as to cover every omission, inconsistency, error or other irregularity which may occur in a bid. Any situation not specifically provided for will be determined in the discretion of the County of Humboldt, and that discretion will be exercised in the manner deemed by the County of Humboldt to best protect the public interest in the prompt and economical completion of the work. The decision of the County of Humboldt respecting the amount of a bid, or the existence or treatment of an irregularity in a bid, shall be final.

All bid proposals and materials submitted in response to this Notice to Bidders shall become the County of Humboldt's property and are subject to disclosure under the Public Records Act, California Government Code Sections 6250, et seq. All bid proposals submitted in response hereto, are considered public information, except for specifically identified trade secrets, which will be handled according to any and all applicable local, state and federal laws and regulations. Any portion of a bid proposal that is deemed to be a trade secret by the bidder shall be clearly marked "PROPRIETARY INFORMATION" at the top of the page in at least one-half inch (1/2") letters. Specifically identified proprietary information will not be released, if the bidder agrees to indemnify and defend the County of Humboldt in any action brought to disclose such information. By submitting a bid proposal in response to this Notice to Bidders, the bidder agrees that the County of Humboldt's failure to contact the bidder prior to the release of any proprietary information contained therein will not be a basis for liability by the County of Humboldt or any employee thereof. Items considered public information will be available for review after the bid opening.

If this proposal shall be accepted and the undersigned shall fail to enter into the contract and furnish the 2 bonds in the sums required by the State Contract Act, with surety satisfactory to the County of Humboldt, within 8 days, not including Saturdays, Sundays and legal holidays, after the bidder has received notice from the County of Humboldt that the contract has been awarded, the County of Humboldt may, at its option, determine that the bidder has abandoned the contract, and thereupon this proposal and the acceptance thereof shall be null and void and the forfeiture of the security accompanying this proposal shall operate and the same shall be the property of the County of Humboldt.

The undersigned, as bidder, declares that the only persons or parties interested in this proposal as principals are those named herein; that this proposal is made without collusion with any other person, firm, or corporation; that he has carefully examined the location of the proposed work, the annexed proposed form of contract, and the plans therein referred to; and he proposes, and agrees if this proposal is accepted, that he will contract with the County of Humboldt, in the form of the copy of the contract annexed hereto, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefor the following prices, to wit:

BID FORM (EXHIBIT A)
STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST MILE 0.08
PROJECT NO.: Cal OES CDAA 2024-03
CONTRACT NO.: 224113

Base Bid

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	120100	Traffic Control System	LS	1		
2	130100	Job Site Management	LS	1		
3	132000	Prepare Water Pollution Control Program	LS	1		
4	160102	Clearing and Grubbing (LS)	LS	1		
5	192032	Structure Excavation (Rock Slope Protection)	CY	20		
6	210212	Dry Seed & Straw	SF	1,000		
7	665010	12" Corrugated Steel Pipe	LF	10		
8	720114	Rock Slope Protection (1/4 Ton, Method B)	CY	15		
9	723035	Rock Slope Protection (1/2 Ton, Method B)	CY	72		
10	999990	Mobilization	LS	1		
Base Bid Total						

Additive Option A

A1	260203	Class 2 Aggregate Base	CY	10		
A2	390132	Hot Mix Asphalt	TON	10		
A3	641107	18" Plastic Pipe	LF	140		
A4	710100	Abandon Culvert	EA	1		
Additive Option A Total						

Additive Option B

B1	665018	18" Corrugated Steel Pipe (.109" Thick)	LF	30		
B2	710298	18" Alternate Pipeliner	LF	140		
B3	710360	Cleaning, Inspecting and Preparing Culvert	LF	140		
Additive Option B Total						

Base Bid + Additive Option A Total

Base Bid + Additive Option B Total

ACKNOWLEDGEMENT OF ADDENDA

ADDENDUM NO.

INITIAL

 (Bidder's Signature)

 (Title)

PROPOSAL SIGNATURE PAGE

Accompanying this proposal is _____

*(NOTICE: INSERT THE WORDS "CASH (\$___)", "CASHIER'S CHECK",
"CERTIFIED CHECK", OR "BIDDERS'S BOND", AS THE CASE MAY BE.)*

in the amount of at least **TEN PERCENT (10%)** of the total bid.

The names of all persons interested in the foregoing proposal as Principals are as follows:

(NOTE: If a Bidder or other interested person is a Corporation, state the legal name of the corporation, also names of the president, secretary, treasurer, and manager thereof; if a Co-partnership, state the true name of the firm, also state the names of all individual copartners composing the firm; if the Bidder or other interested person is an Individual, state the first and last names in full.)

Licensed in accordance with an act providing for the registration of Contractors,

LICENSE NO. _____ **Classification(s)** _____

Note: It is optional to provide your contractor's license number at this time. You are not required to provide your contractor's license number until the time that the contract is to be awarded.

By my signature on this proposal I certify, under penalty of perjury under the laws of the State of California, that the foregoing questionnaire and statements of Public Contract Code Sections 10162, 10232 and 10285.1 are true and correct and that the bidder has complied with the requirements of Section 8103 of the Fair Employment and Housing Commission Regulations (Chapter 5, Title 2 of the California Administrative Code). By my signature on this proposal I further certify, under penalty of perjury under the laws of the State of California and the United States of America, that the Noncollusion Affidavit required by Title 23 United States Code, Section 112, and Public Contract Code Section 7106; and the Title 49 Code of Federal Regulations, Part 29 Debarment and Suspension Certification are true and correct.

Date: _____



Signature and Title of Bidder

Bidder's Business Address _____

Place of Residence

BIDDER'S BOND
COUNTY OF HUMBOLDT, DEPARTMENT OF PUBLIC WORKS

STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST MILE 0.08
PROJECT NO.: Cal OES CDA 2024-03
CONTRACT NO.: 224113

for which bids are to be opened on **TUESDAY, SEPTEMBER 10, 2024**, at 2:00 PM, at the Department of Public Works, 1106 Second Street, Eureka 95501, California.

Know all men by these presents: That we _____, as

PRINCIPAL, and _____,

as **SURETY**, are held and firmly bound unto the County of Humboldt in the penal sum of **TEN PERCENT (10%) OF THE TOTAL AMOUNT OF THE BID** of the **PRINCIPAL** named above, submitted by said **PRINCIPAL** to the County of Humboldt for the work described above, for the payment of which sum is lawful money of the United States, well and truly to be made, to the Director of the Department to which said bid was submitted, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents. In no case shall the liability of the **SURETY** hereunder exceed the sum of:

\$ _____

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the **PRINCIPAL** has submitted the above mentioned bid to the County of Humboldt, as aforesaid, for the construction as specifically described above,

NOW, THEREFORE, if the aforesaid **PRINCIPAL** is awarded the contract, and within the time and manner required under the Specifications, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files two bonds with the Department, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise, it shall be and remain in full force and virtue.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this

_____ day of _____, 20____.

_____(seal)

_____(seal)

PRINCIPAL

_____(seal)

_____(seal)

SURETY

Address: _____

Note: Signatures of those executing for **SURETY** must be properly acknowledged.

CONTRACTOR'S CERTIFICATE REGARDING WORKER'S COMPENSATION

Labor Code Section 3700.

"Every employer except the State and all political subdivisions or institutions thereof, shall secure the payment of compensation in one or more of the foregoing ways:

- A. By being insured against liability to pay compensation by one or more insurers duly authorized to write compensation insurance in this State.
- B. By securing from the Director of Industrial Relations a certificate of consent of self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to his employees."

I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and that I will comply with such provisions before commencing the performance of the work of this contract.

Sign

Here

(In accordance with Article 5 [commencing at Section 1860], Chapter 1 , Part 7 , Division 2 , of the Labor Code, the above certificate must be signed and filed with the awarding body prior to commencing any work under this contract.)

PUBLIC CONTRACT CODE SECTION 10285.1 STATEMENT

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

Note: The bidder must place a check mark after "has" or "has not" in one of the blank spaces provided. The above Statement is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

PUBLIC CONTRACT CODE SECTION 10162 QUESTIONNAIRE

In conformance with Public Contract Code Section 10162, the Bidder shall complete, under penalty of perjury, the following questionnaire:

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

YES ☐ NO ☐

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

PUBLIC CONTRACT CODE SECTION 10232 STATEMENT

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

Note: The above Statement and Questionnaire are part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Statement and Questionnaire. Bidders are cautioned that making a false certification may subject the certifier to criminal prosecution.

DEBARMENT AND SUSPENSION CERTIFICATION

TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29

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

- is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgement rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

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

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

Notes: Providing false information may result in criminal prosecution or administrative sanctions. The above certification is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Certification.

(THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS PROPOSAL SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS PROPOSAL)

EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

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

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

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

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

NONCOLLUSION AFFIDAVIT
(Title 23 United States Code Section 112 and
Public Contract Code Section 7106)

To the COUNTY OF HUMBOLDT, DEPARTMENT OF PUBLIC WORKS:

In conformance with Title 23 United States Code Section 112 and Public Contract Code 7106 the bidder declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Noncollusion Affidavit is part of the Proposal. Signing this Proposal on the signature portion thereof shall also constitute signature of this Noncollusion Affidavit.

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

LIST OF SUBCONTRACTORS
STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST MILE 0.08
PROJECT NO.: Cal OES CDAA 2024-03
CONTRACT NO.: 224113

The Bidder shall list the name and address; Contractor license number; Public Works Contractor registration number; and description of portion of work subcontracted to each subcontractor to whom the Bidder proposes to subcontract portions of the work, as required by the provisions of the Section 2-1.10 of the Standard Specifications and the Special Provisions. **Photocopy this form for additional firms.**

Business Name and Location	California Contractor License Number	Description of Portion of Work	Bid Items Numbers	Percentage of Bid Item Subcontracted
	PWC Reg. Number			

(THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS PROPOSAL SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS PROPOSAL)

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
IN-USE OFF-ROAD DIESEL-FUELED VEHICLE LIST
 DOT DES-OE-0102.14 (NEW 09/2023)

CONTRACT NO.	BIDDING FIRM
--------------	--------------

Under 13 CCR § 2449 et seq., list the fleet name and Off-Road Diesel Fleet Identification (DOORS ID) number for every fleet used by you or your subcontractor to perform the work below.

☐ Check here if all fleets used to perform work are not subject to 13 CCR § 2449 *et seq.* Submit the blank form as part of the bid.

[illegible]

AGREEMENT

This is an AGREEMENT made and entered into this _____ day
of _____, 20_____, by and between the County of Humboldt, a
political subdivision of the State of California (hereinafter referred to as COUNTY)
and _____,
a corporation organized and existing under the laws of the State of _____;
a partnership consisting of _____
_____;
an individual doing business as _____
_____ in the State of California,
hereinafter referred to as "CONTRACTOR".

Section 1 - SCOPE OF WORK

Contractor shall furnish all Labor, Tools and Materials and perform all the work for the:

STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST MILE 0.08
PROJECT NO.: Cal OES CDAA 2024-03
CONTRACT NO.: 224113

in accordance with the contract documents referred to in Section 3 of this Agreement.

Section 2 - CONTRACT PRICE

County shall pay, and Contractor shall accept Contractor's Bid Prices, as shown on EXHIBIT "A" attached hereto and made a part hereof, as full compensation for furnishing all materials and for doing all the work contemplated and embraced in this Agreement; also for all loss or damage, arising out of the work aforesaid, or from the actions of the elements, or from any unforeseen difficulties or obstructions which may arise or be encountered in the prosecution of the work until its acceptance by County, and for all risks of every description connected with the work; also for all expenses incurred by or in consequence of the suspension or discontinuance of the work and for well and faithfully completing the work, and the whole thereof, in the manner and according to the Plans and Specifications, and the requirements of the Engineer.

Section 3 - CONTRACT DOCUMENTS

The complete contract between the parties hereto shall consist of the following, hereinafter referred to as the CONTRACT DOCUMENTS:

- Notice to Bidders
- Plans and Drawings
- Bid Form
- Bidder's Bond
- Supplemental Project Information
- Performance Bond
- Payment Bond
- This Agreement
- Special Provisions
- Supplemental Project Information

And, as published by the Department of Transportation, State of California, except as modified by the Special Provisions:

- Standard Plans - dated 2023
- Standard Specifications - dated 2023
- Equipment Rental Rates in effect at the time the work is performed

And, as published by the California Department of Industrial Relations, and the California Business, Transportation and Housing Agency:

- General Prevailing Wage Rates
- Labor and Surcharge Rates

And any addenda to any of the above documents, all of which are on file in the office of the Director of Public Works of the County of Humboldt. Each of said CONTRACT DOCUMENTS is incorporated and made a part of this Agreement by the reference contained in this Section.

All rights and obligations of the County and the Contractor are fully set forth and described in the Contract Documents. All of the above named documents are intended to be complimentary, so that any work called for in one, and mentioned in the other is to be performed and executed the same as if mentioned in all said documents.

Section 4 - BEGINNING OF WORK

Following receipt and full execution and approval of the Contract Documents, and posting of the requisite Bonds as called for therein, the COUNTY will issue a "Notice to Proceed". Under no circumstances shall the CONTRACTOR enter upon the site of work until receipt of the "Notice to Proceed", or unless so authorized in writing by the COUNTY.

Section 5 - TIME OF COMPLETION

The work called for in this Agreement shall be commenced within fifteen (15) days of receipt of Notice to Proceed by COUNTY and shall be fully completed within a period of 30 working days beginning on the fifteenth calendar day after the date of said approval of contract.

Section 6 - PREVAILING WAGE

Copies of the prevailing wage rates of per diem wages are on file in the Humboldt County Public Works office at 1106 Second Street, Eureka, California and are available to any interested person on request.

Section 7 - WORKERS' COMPENSATION

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

Section 8 - COMPLIANCE WITH LAWS

The Contractor agrees to comply with all local, state, and federal laws and regulations, including but not limited to the Americans With Disabilities Act. The Contractor further agrees to comply with any applicable federal, state or local licensing standards, any applicable accrediting standards, and any other applicable standards or criteria established locally or by the state or federal governments.

This agreement shall be governed by and construed in accordance with the laws of the State of California.

Section 9 - NOTICES

All notices shall be in writing and delivered in person or transmitted by mail. Notices required to be given to the COUNTY shall be addressed as follows:

Humboldt County Department of Public Works
1106 Second Street, Eureka, California, 95501

Notices required to be given to CONTRACTOR shall be addressed as follows:

IN WITNESS WHEREOF, The parties hereto have entered into this Agreement as of the date first above set forth.

COUNTY OF HUMBOLDT

BY _____
Director of Public Works

INSURANCE CERTIFICATES REVIEWED AND APPROVED

BY _____
Risk Manager

CONTRACTOR

BY _____

TITLE _____

BY _____

TITLE _____
(Two Signatures Required For Corporation)

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

THAT WHEREAS, the County of Humboldt, by its order made _____, 20____, has awarded to _____ hereinafter designated as the "Principal," a contract for the work described as follows:

STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST MILE 0.08

NOW, THEREFORE, we the Principal and _____, Surety, are held and firmly bound unto the County of Humboldt in the penal sum of _____ Dollars (\$ _____), lawful money of the United States of America for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if said Principal, his or its subcontractors, heirs, executors, administrators, successors, or assigns, shall fail to pay any of the persons named in Section 3181 of the Civil Code, or amounts due under the Unemployment Insurance Code, with respect to work or labor performed by claimant, or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of employees of the Contractor and his subcontractors pursuant to Section 18806 of the Revenue and Taxation Code with respect to such work and labor as required by Sections 3247 et seq. of the Civil Code of California, then said Surety will pay for the same, in or to an amount not exceeding the amount hereinafter set forth, and also will pay in case suit is brought upon this bond, such reasonable attorney's fees, as shall be fixed by the court, awarded and taxed as in the above-mentioned statutes provided.

AND, the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract, or to the work, or to the specifications.

IN WITNESS WHEREOF, this instrument has been duly executed by Principal and Surety above named, on the _____ day of _____, 20____.

PRINCIPAL

BY _____

SURETY

BY _____

Attorney-in-fact

PERFORMANCE BOND

COUNTY OF HUMBOLDT, DEPARTMENT OF PUBLIC WORKS

Bond No. _____

WHEREAS, the County of Humboldt, acting by and through the Department of Public Works, has awarded to Contractor _____, hereafter designated as the “Contractor”, a contract for the work described as follows:

STORM DAMAGE REPAIR ON NANCY COURT (3J428) AT POST MILE 0.08

AND WHEREAS, the Contractor is required to furnish a bond in connection with said contract, guaranteeing the faithful performance thereof:

NOW, THEREFORE, we the undersigned Contractor and Surety are held firmly bound to the County of Humboldt in the sum of \$ _____ dollars (\$ _____), to be paid to said County or its certain attorney, its successors and assigns: for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH,

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

IN WITNESS WHEREOF, We have hereunto set our hands and seals on this _____ day of _____, 20____.

Correspondence or claim relating to this bond should be sent to the surety at the following address:

Contractor

Name of Surety (SEAL)

By: Attorney-in-Fact

NOTE: Signatures of those executing for the surety must be properly acknowledged.

CERTIFICATE OF ACKNOWLEDGEMENT

State of California, City / County of _____ SS

On this _____ day of _____ in the year 20____ before me _____, a
Notary public in and for the City / County of _____, personally appeared
_____, known to me to be the person whose name is subscribed to this
Attorney-in-fact
instrument and known to me to be the attorney-in-fact of _____ and acknowledge to
me that he/she subscribed the name of the said company thereto as surety, and his/her own name as attorney-in-
fact.

(SEAL)

NOTARY PUBLIC