



**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOLULU, HAWAII
SPECIAL PROVISIONS
PROPOSAL
CONTRACT AND BOND**

FOR

**ASPHALT PAVEMENT PRESERVATION, RESURFACING,
AND RECONSTRUCTION AT VARIOUS LOCATIONS**

FEDERAL-AID PROJECT NO. STP-0700(089)

ISLAND OF KAUAI

FY 2023

TABLE OF CONTENTS

Notice To Bidders

Instructions for Contractor's Licensing

Notice of Requirement for Affirmative Action to Ensure
Equal Employment Opportunity (Executive Order 11246)

Disadvantaged Business Enterprise (DBE) Requirements

Required Federal-Aid Contract Provisions

Special Provisions Title Page

Special Provisions:

DIVISION 100 - GENERAL PROVISIONS		
Section	Description	Pages
101	Terms, Abbreviations, and Definitions	101-1a – 101-13a
102	Bidding Requirements and Conditions	102-1a – 102-8a
103	Award And Execution of Contract	103-1a – 103-5a
104	Scope of Work	104-1a – 104-3a
105	Control of Work	105-1a – 105-3a
106	Material Restrictions and Requirements	106-1a
107	Legal Relations and Responsibility To Public	107-1a – 107-3a
108	Prosecution And Progress	108-1a – 108-25a
109	Measurement and Payment	109-1a – 109-2a
110	Installation of Asphalt Pavement Preservation, Resurfacing, and Reconstruction at Various Locations	110-1a – 110-6a

DIVISION 200 - EARTHWORK		
Section	Description	Pages
201	Clearing and Grubbing	201-1a
209	Temporary Water Pollution, Dust, and Erosion Control	209-1a – 209-28a

DIVISION 300 - BASES		
Section	Description	Pages
301	Hot Mix Asphalt Base Course	301-1a – 301-2a

DIVISION 400 - PAVEMENTS		
Section	Description	Pages
401	Hot Mix Asphalt Pavement	401-1a – 401-38a
404	Slurry Seal	404-1a – 404-6a
408	Crack Seal	408-1a – 408-2a
414	Reconstruction of Weakened Pavement Areas	414-1a
415	Cold Planing of Existing Pavement	415-1a – 415-6a

DIVISION 600 - INCIDENTAL CONSTRUCTION		
Section	Description	Pages
613	Centerline and Reference Survey Monuments	613-1a
615	Milled Rumble Strip	615-1a – 615-2a
627	Enhanced Vehicle Classification Traffic Counting System	627-1a – 627-14a
629	Pavement Markings	629-1a – 629-4a
632	Markers	632-1a
636	E-Construction	636-1a – 636-3a
645	Work Zone Traffic Control	645-1a – 645-2a
671	Protection of Threatened and Endangered Species	671-1a – 671-5a
697	Surveying	697-1a – 697-3a

DIVISION 700 - MATERIALS		
Section	Description	Pages
702	Bituminous Materials	702-1a
717	Cullet and Cullet-Made Materials	717-1a – 717-2a
750	Traffic Control Sign and Marker Materials	750-1a – 750-2a
755	Pavement Marking Materials	755-1a

Reconstruction Section.....Figure 1
Map of the Island of KauaiFigure 2

Work Order FormFigure 3

Requirement of Chapter 104, HRS
Wages and Hours of Employees on Public Works Law

Federal Wage Rates

Proposal Title Page

ProposalP-1 – P-13

Proposal ScheduleP-14 – P- 35

Disadvantaged Business Enterprise (DBE) Contract Goal Verification and Good Faith
Efforts (GFE) Documentation For Construction

Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement
– Trucking Company

Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement
– Subcontractor, Manufacturer, or Supplier

Surety Bid Bond

Sample Forms

Contract

Performance Bond (Surety)

Performance Bond

Labor and Material Payment Bond (Surety)

Labor and Material Payment Bond

Disclosure of Lobbying Activities
Standard Form - LLL and LLL-A

Statement of Compliance
Form WH-348

Chapter 104, HRS Compliance Certificate

END OF TABLE OF CONTENTS

NOTICE TO BIDDERS
(Chapter 103D, HRS)

The receiving of SEALED BIDS for Asphalt Paving Preservation, Resurfacing, and Reconstruction at Various Locations, Federal-Aid Project No. STP-0700(089), will begin as advertised on November 3, 2022 in HIEPRO. Bidders are to register and submit bids through HIEPro only. See the following HIEPRO link for important information on registering: <https://hiepro.ehawaii.gov/welcome.html>.

Deadline to submit bids is Bid Opening Day, Thursday, December 1, 2022, at 2:00 P.M., Hawaii Standard Time (HST). Bids received after said due date and time shall not be considered.

The contract includes pavement preservation, resurfacing, and/or pavement reconstruction, cold planing, and removing and installing pavement markers on the island of Kauai on an “as-needed” basis.

To be eligible for award, bidders must possess a valid State of Hawaii General Engineering Contractor’s “A” license or Specialty Contractor’s “C-3” or “C-3a” license prior to the award of contract.

A pre-bid conference is scheduled for **November 10, 2022 at 9:30 A.M. HST on Microsoft Teams**. All prospective bidders or their representatives (employees) are encouraged to attend, but attendance is not mandatory. Due to the impacts of COVID 19, the pre-bid meeting will be conducted virtually. Please call Microsoft Teams to join the Pre-bid meeting at (808) 829-4853, Phone Conference ID: I.D. 945 837 616#.

Contact Eric Fujikawa Project Manager, by phone, at (808) 241-3015, by facsimile at (808) 241-3011 or email at eric.i.fujikawa@hawaii.gov to obtain the venue for the pre-bid meeting.

ALL requests for information (RFI) shall be received in writing via HiePRO no less than 14 calendar days before bid opening. Questions received after the deadline will not be addressed. Verbal requests for information will not receive a response. Anything said at the conference is for clarification purposes and any changes to the bid documents will be made by addendum and posted in HiePRO.

Any protest of this solicitation shall be submitted in writing to the Director of Transportation, in accordance with §103D-701, HRS and §3-126, HAR.

Campaign contributions by State and County Contractors. Contractors are hereby notified of the applicability of Section 11-355, HRS, which states that campaign contributions are prohibited from specified State or county government contractors during the term of the contract if the contractors are paid with funds appropriated by the legislative body. For more information, contact the Campaign Spending Commission at (808) 586-0285.

The U.S. Department of Transportation Regulation entitled “Nondiscrimination in Federally-Assisted Programs of the U.S. Department of Transportation,” Title 49, Code of Federal Regulations (CFR), Part 21 is applicable to this project. Bidders are hereby notified that the Department of Transportation will affirmatively ensure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the grounds of race, color, national origin or sex (as directed by 23 CFR Part 200).

The Equal Employment Opportunity Regulations of the Secretary of Labor implementing Executive Order 11246, as amended shall be complied with on this project.

The U.S. Department of Transportation Regulations entitled "Participation by

Disadvantaged Business Enterprise in Department of Transportation Programs", Title 49, Code of Federal Regulations, Part 26 is applicable to this project. Bidders are hereby notified that the Department of Transportation will strictly enforce full compliance with all of the requirements of the Disadvantaged Business Enterprise (DBE) program with respect to this project.

Bidders are directed to read and be familiar with the Disadvantaged Business Enterprise (DBE) Requirements, which establishes the program requirements pursuant to Title 49 Code of Federal Regulations Part 26 and, particularly, the requirements of certification, method of award, and evidence of good faith. All Bidders must e-mail the Engineer at eric.i.fujikawa@hawaii.gov, the Disadvantaged Business Enterprise (DBE) Contract Goal Verification and Good Faith Efforts (GFE) Documentation for Construction, Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement – Trucking Company and Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement – Subcontractor, Manufacturer, or Supplier by December 6, 2022, at 4:30 P.M. HST. Failure to provide these documents shall be cause for bid/proposal rejection.

Driving While Impaired (DWI) Education. HDOT encourages all organizations contracted with the DOT to have an employee education program preventing DWI. DWI is defined as operating a motor vehicle while impaired by alcohol or other legal or illegal substances. HDOT promotes this type of program to accomplish our mission to provide a safe environment for motorists, bicyclists and pedestrians utilizing our State highways, and expects its contractors to do so as well.

For additional information, contact Eric Fujikawa, Project Manager, by phone at

(808) 241-3015, by fax at (808) 241-3011 or email at eric.i.fujikawa@hawaii.gov.

The State reserves the right to reject any or all proposals and to waive any defects in said proposals for the best interest of the public.



JADE T. BUTAY
Director of Transportation

Posted:

INSTRUCTIONS FOR CONTRACTOR'S LICENSING

"A" general engineering contractors and "B" general building contractors are reminded that due to the Hawaii Supreme Court's January 28, 2002 decision in Okada Trucking Co., Ltd. v. Board of Water Supply, et al., 97 Haw. 450 (2002), they are prohibited from undertaking any work, solely or as part of a larger project, which would require the general contractor to act as a specialty contractor in any area where the general contractor has no license. Although the "A" and "B" contractor may still bid on and act as the "prime" contractor on an "A" or "B" project (*See, HRS § 444-7 for the definitions of an "A" and "B" project.*), respectively, the "A" and "B" contractor may only perform work in the areas in which they have the appropriate contractor's license (*An "A" or "B" contractor obtains "C" specialty contractor's licenses either on its own, or automatically under HAR § 16-77-32.*). The remaining work must be performed by appropriately licensed entities. It is the sole responsibility of the contractor to review the requirements of this project and determine the appropriate licenses that are required to complete the project.

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL
EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Bidder's attention is called to the "Equal Opportunity" and the "Specific Equal Employment Opportunity Responsibilities" set forth in the "Required Federal Aid Construction Contract Provisions."

2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work on this project are as follows:

CATEGORY	TIMETABLE	GOAL
Female participation in each trade	Indefinite	6.9%
Minority participation in each	None	69.1% (Oahu)
Trade (female included)	None	70.4% (Hawaii, Maui, Kauai)

These goals are applicable to all the Contractor's aggregate on-site construction workforce whether or not part of that workforce is performing work on a Federal or Federally assisted construction contract or subcontract.

The Contractor's compliance with the Executive Order shall be based on its implementation of the Equal Opportunity Clause, and its efforts to meet the goals established for the contract resulting from this solicitation. The hours of female and minority employment and training must be substantially uniform throughout the length of the contract, and in trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract and Executive Order. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Area Director, Hawaii Area Office, Office of Federal Contract Compliance Programs, U.S. Department of Labor, 300 Ala Moana Blvd., P.O. Box 50149, Honolulu, Hawaii 96850, within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address, and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; and estimated starting and completion dates of the subcontract. The Contractor shall indicate which are minority group subcontractors and the ethnic identity and sex of the owner(s) and policy-making official(s).

DISADVANTAGED BUSINESS ENTERPRISE REQUIREMENTS

I. GENERAL

This project is subject to Title 49, Code of Federal Regulations, Part 26, entitled "Participation by Disadvantaged Business Enterprise in Department of Transportation Financial Assistance Programs," hereinafter referred to as the ("DBE Regulations") and is incorporated and made a part of this contract herein by this reference. The following shall be incorporated as part of the contract documents for compliance. If any requirements herein are in conflict with the general provisions or special provisions applicable to this project, the requirements herein shall prevail unless specifically superseded or amended in the special provisions or by addendum.

II. POLICY

It is the policy of the U.S. Department of Transportation ("USDOT") and the State of Hawaii, Department of Transportation and its political subdivisions ("Department") that Disadvantaged Business Enterprises ("DBE"), as defined in the DBE Regulations, have an equal opportunity to receive and participate in federally assisted contracts.

III. DBE ASSURANCES

Each contract signed with a prime contractor (and each subcontract the prime contractor signs with a subcontractor) shall include the following assurance:

"The contractor, sub-recipient, or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of USDOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate which may include, but is not limited to; 1) withholding monthly progress payments; 2) assessing sanctions; 3) liquidated damages; and/or 4) disqualifying the contractor from future bidding as non-responsible."

The prime contractor agrees to include the above statements in any subsequent contracts that it enters into with other contractors and shall require those contractors to include similar statements in further agreements.

IV. BIDDER/OFFEROR RESPONSIBILITIES

All bidders/offerors are required to register with the Department's OCR, DBE Section, using the Bidder Registration Form, which can be downloaded from the Department's website at <http://hidot.hawaii.gov/administration/ocr/dbe/dbe-program-forms/>. Certified DBEs are considered registered with the Department and are not required to submit a

Bidder Registration Form. All other bidders/offerors are required to complete this form which may be faxed to (808) 831-7944, e-mailed to HDOT-DBE@hawaii.gov, or mailed to the HDOT DBE Section at 200 Rodgers Boulevard, Honolulu, Hawaii, 96819. Registered bidders/offerors are posted on the website listed above.

Bidders/offerors, subcontractors, manufacturers, vendors or suppliers, and trucking companies shall fully inform themselves with respect to the requirements of the DBE Regulations. Particular attention is directed to the following matters:

- A. Bidders/offerors shall take all necessary steps to ensure that DBEs have an opportunity to participate in this contract.
- B. DBEs may participate as a consultant, prime contractor, subcontractor, trucking company, or vendor of materials or supplies. DBEs may also team with other DBEs or non-DBE firms as part of a joint venture or partnership.
- C. Agreements between a bidder/offeror and a DBE in which an DBE promises not to provide subcontracting quotations to other bidders/offerors are strictly prohibited.
- D. A DBE shall be certified by the Department under the appropriate North American Industry Classification System (NAICS) code and work in their registered field of work in order for credit to be allowed.
- E. Information regarding the current certification status of DBEs is available on the internet at <https://hdot.dbesystem.com/>.
- F. Commercially Useful Function (“CUF”). An DBE must perform a CUF. This means that an DBE must be responsible for the execution of a distinct element of the work, must carry out its responsibility by actually performing, managing, and supervising at least 30% of the work involved by using its own employees and equipment, must negotiate price, determine quality and quantity, order and install material (when applicable), and must pay for the material itself.¹

To determine whether an DBE is performing a CUF, the Department must evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing, the DBE credit claimed for performance of the work, and other relevant factors. The prime contractor is responsible to ensure that the DBE performs a CUF.

V. PROPOSAL REQUIREMENTS

- A. DBEs must be certified by the bid opening date.

¹ The use of joint checks payable to an DBE subcontractor and supplier may be allowed to purchase materials and supplies under limited circumstances. See VII USE OF JOINT CHECKS UNDER THE DBE PROGRAM

- B. DBE subcontractors, manufacturers, suppliers, trucking companies, and any second tier subcontractors shall be listed on the respective DBE forms as specified below in order to receive credit.
- C. The following forms are due to the Department's Project Manager or designee **by the close of business, 4:30 P.M. Hawaii Standard Time (HST), five (5) days after bid opening:**²
1. DBE Confirmation and Commitment Agreement. This form must be signed by the bidder/offeror and each DBE subcontractor, manufacturer, supplier, or trucking company. Information to be provided on the form shall include, among other things, the project number, the DBE's NAICS codes, description of work, bid items with corresponding price information, prime contractor name and contact information DBE name and contact information and subcontractor name and contact information if the DBE is a second tier subcontractor.
 2. DBE Contract Goal Verification and Good Faith Efforts (GFE) Documentation for Construction. List the dollar amount of all subcontractors, manufacturers, suppliers, and trucking companies (both DBE and non-DBE firms). Bidder/offeror must also list the DBE project goal on this form (See paragraph D below regarding goal calculation). The bidder/offeror must submit documentation demonstrating how the DBE goal was met or how the bidder/offeror attempted to meet the goal if the goal was not met. This documentation shall include quotations for both DBE and non-DBE subcontractors when a non-DBE is selected over a DBE for the project. **Documentation of good faith efforts is required irrespective of whether the bidder/offeror met the DBE project goal.**
- The above forms must be complete and provide the necessary information to properly evaluate bids/proposals. Failure to provide any of the above shall be cause for bid/proposal rejection.**
- D. Calculation of the DBE contract goal for this project is the proportionate contract dollar value of work performed, materials, and goods to be supplied by DBEs. DBE credit shall not be given for mobilization, force account items and allowance items. This DBE contract goal is applicable to all the contract work performed for this project and is calculated as follows:
1. DBE contract goal percentage = Contract Dollar Value of the work to be performed by DBE subcontractors and manufacturers, plus 60% of the contract dollar value of DBE suppliers, divided by the sum of all contract items (sum of all contract items is the total amount for comparison of bids less mobilization, force account items, and allowance items).

² In computing calendar days, the day from which the period begins to run is not counted, and when the last day of the period is a Saturday, Sunday, or Federal or State holiday, the period extends to the next day that is not a Saturday, Sunday, or holiday.

2. The Department shall adjust the bidder's/offeror's DBE contract goal to the amount of the project goal if it finds that the bidder/offeror met the goal but erroneously calculated a lower percentage. If the amount the bidder/offeror submits as its contract goal exceeds the project goal, the bidder/offeror shall be held to the higher goal.

VI. COUNTING DBE PARTICIPATION TOWARDS CONTRACT GOAL

- A. Count the entire amount of the portion of a contract (or other contract not covered by paragraph B below) that is performed by the DBE's own forces. Include the cost of supplies and materials obtained by the DBE for the work on the contract, including supplies purchased or equipment leased by the DBE (except supplies and equipment the DBE subcontractor purchases or leases from the prime contractor or its affiliate).
- B. Count the entire amount of fees or commissions charged by an DBE firm for providing a bona fide service, such as professional, technical, consultant, or managerial services, or for providing bonds or insurance specifically required for the performance of a USDOT-assisted contract, toward DBE goals, provided the Department determines the fee to be reasonable and not excessive as compared with fees customarily allowed for similar services.
- C. When an DBE subcontracts part of the work of its contract to another firm, the value of the subcontracted work may be counted toward DBE goals only if the DBE's subcontractor is itself an DBE. Work that an DBE subcontracts to a non-DBE firm does not count toward DBE goals.
- D. When an DBE performs as a participant in a joint venture, count a portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work of the contract that the DBE performs with its own forces toward DBE goals.
- E. Count expenditures to an DBE contractor toward DBE goals only if the DBE is performing a CUF on that contract.
- F. The following is a list of appropriate DBE credit to be allowed for work to be performed by an DBE subcontractor. Count expenditures with DBEs for materials or supplies toward DBE goals as provided in the following:
 1. If the materials or supplies are obtained from an DBE manufacturer, count 100 percent of the cost of the materials or supplies toward DBE goals;
 2. For purposes of determining DBE goal credit, a manufacturer is a firm that operates or maintains a factory or establishment that produces (on the premises) the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications;

3. If the materials or supplies are purchased from an DBE regular dealer, count 60 percent of the cost of the materials or supplies toward DBE goals;
4. For purposes of determining DBE goal credit, a regular dealer is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business;
5. To be a regular dealer, the firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question;
6. A person may be a regular dealer in such bulk items as petroleum products, steel, cement, gravel, stone, or asphalt without owning, operating, or maintaining a place of business as provided in the DBE Regulations, if the person both owns and operates distribution equipment for the products. Any supplementing of a regular dealers' own distribution equipment shall be by a long-term lease agreement and not on an ad hoc or contract-by-contract basis;
7. Packagers, brokers, manufacturers' representatives, or other persons who arrange or expedite transactions are not regular dealers;
8. With respect to materials or supplies purchased from an DBE, which is neither a manufacturer nor a regular dealer, count the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, toward DBE goals, provided that the Department determines the fees to be reasonable and not excessive as compared with fees customarily allowed for similar services. Do not count any portion of the cost of the materials and supplies themselves toward DBE goals; however,
9. If a firm is not currently certified as an DBE in accordance with standards of this part at the time of the execution of the contract, do not count the firm's participation toward any DBE goals, except as provided for in §26.87(i);
10. Do not count the dollar value of work performed under a contract with a firm after it has ceased to be certified toward the Department's overall goal; and
11. Do not count the participation of an DBE subcontractor toward a contractor's final compliance with its DBE obligations on a contract until the amount being counted has actually been paid to the DBE.

G. The following factors are used in counting DBE participation for trucking companies:

1. The DBE must be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular

contract, and there cannot be a contrived arrangement for the purpose of meeting DBE goals;

2. The DBE must itself own and operate at least one (1) fully licensed, insured, and operational truck used on the contract;
3. The DBE receives credit for the total value of the transportation services it provides on the contract using trucks it owns, insures, and operates using drivers it employs;
4. The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as an DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract;
5. The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE that leases trucks equipped with drivers from a non-DBE is entitled to credit for the total value of transportation services provided by non-DBE leased trucks equipped with drivers not to exceed the value of transportation services on the contract provided by DBE-owned trucks or leased trucks with DBE employee drivers. Additional participation by non-DBE owned trucks equipped with drivers receives credit only for the fee or commission it receives as a result of the lease arrangement. If a recipient chooses this approach, it must obtain written consent from the appropriate Department operating administration.
EXAMPLE: DBE firm X uses two (2) of its own trucks on a contract, leases two (2) trucks from DBE Firm Y and six (6) trucks from non-DBE Firm Z. DBE credit would be awarded for the total value of transportation services provided by Firm X and Firm Y, and may also be awarded for the total value of transportation services provided by four (4) of the six (6) trucks provided by Firm Z. In all, full credit would be allowed for the participation of eight (8) trucks. With respect to the other two (2) trucks provided by Firm Z, DBE credit could be awarded only for the fees or commissions pertaining to those trucks Firm X receives as a result of the lease with Firm Z;
6. The DBE may lease trucks without drivers from a non-DBE truck leasing company. If the DBE leases trucks from a non-DBE truck leasing company and uses its own employees as drivers, it is entitled to credit for the total value of these hauling services.
EXAMPLE: DBE Firm X uses two (2) of its own trucks on a contract. It leases two (2) additional trucks from non-DBE Firm Z. Firm X uses its own employees to drive the trucks leased from Firm Z. DBE credit would be awarded for the total value of the transportation services provided by all four (4) trucks; and
7. For purposes of determining whether a trucking firm performs a CUF, a lease must indicate that the DBE has exclusive use of and control over the truck. This does not preclude the leased truck from working for others during the term of the lease with the consent of the DBE, so long as the lease gives the DBE absolute priority for use of the leased truck. Leased trucks must display the name and identification number of the DBE.

- H. The bidder/offeror may be a joint venture or partnership that has a certified DBE as a partner. A “Joint Venture” means an association between an DBE firm and one (1) or more other firms to carry out a single, for-profit, business enterprise for which the parties combine their property, capital, efforts, skills and knowledge, and in which the DBE is responsible for a distinct, clearly defined portion of the work of the contract, and whose share in the capital contribution, control, management, risks and profits are commensurate with its ownership interest.
- I. Effects of a Summary Suspension of an DBE. When an DBE’s certification is suspended, the DBE may not be considered to meet a contract goal on a new contract and any work it does on a contract received during the suspension shall not be counted towards the overall goal. The DBE may continue to perform work under an existing contract executed before the DBE received a Notice of Suspension and may be counted towards the contract goal during the period of suspension as long as the DBE is performing a CUF under the existing contract.
- J. Effects of Decertification of an DBE. Should an DBE become decertified during the term of the subcontract for reasons beyond the control of and with no fault or negligence on the part of the contractor, the work remaining under the subcontract may be credited towards the contract goal, but are not included in the overall accomplishments.

Should the DBE be decertified after contract award and before notice to proceed, the contractor must still meet the DBE goal by either: a) withdrawing the subcontract from the DBE and expending good faith efforts to replace it with an DBE that is currently certified for that same work; or b) continuing with the subcontract with the decertified firm and expending good faith efforts to find other work not already subcontracted out to DBEs in an amount to meet the DBE goal either by; 1) increasing the participation of other DBEs on the project; 2) documenting good faith efforts; or 3) by a combination of the above.

VII. USE OF JOINT CHECKS UNDER THE DBE PROGRAM

- A. The following guidelines apply to the use of joint checks:
1. The second party (typically the prime contractor) acts solely as a guarantor;
 2. The DBE must release the check to the supplier;
 3. The use of joint checks is a commonly recognized business practice;
 4. The Department must approve the use of joint checks prior to use by contractors and/or DBEs. As part of this approval process the Department will analyze industry practice to confirm that the use of joint checks is commonly employed outside of the DBE program for non-DBE subcontractors on both federal and state funded contracts. Using joint checks shall not be approved if it conflicts with other aspects of the DBE Regulations regarding CUF; and
 5. The Department will monitor the use of joint checks closely to avoid abuse.

- B. Contractors and DBEs should review the following general guidelines when determining whether to use joint checks closely to avoid abuse:
1. That standard industry practice applies to all contractors (federal and state contracts);
 2. Use of joint checks must be available to all subcontractors;
 3. Material industry sets the standard industry practice, not prime contractors;
 4. Short term, not to exceed reasonable time (i.e., one (1) year, two (2) years) to establish/increase a credit line with the material supplier;
 5. No exclusive arrangement between one (1) prime and one (1) DBE in the use of joint checks that might bring the independence of the DBE into question;
 6. Non-proportionate ratio of DBE's normal capacity to size of contract and quantity of material to be provided under the contract;
 7. The DBE is normally responsible to install and furnish the work item; and
 8. The DBE must be more than an extra participant in releasing the check to the material supplier.
- C. The Department shall allow the use of joint checks if the following general conditions are met:
1. DBE submits request to the Department for action;
 2. There is a formalized agreement between all parties that specify the conditions under which the arrangement shall be permitted;
 3. There is a full and prompt disclosure of the expected use of joint checks;
 4. The Department will provide prior approval;
 5. DBE remains responsible for all other elements of 49 CFR 26.55(c)(1);
 6. The agreement states clearly and determines that independence is not threatened because the DBE retains final decision making responsibility;
 7. The Department will determine that the request is not an attempt to artificially inflate DBE participation;
 8. Standard industry practice is only one (1) factor;
 9. The Department will monitor and maintain oversight of the arrangement by reviewing cancelled checks and/or certification statement of payment; and
 10. The Department will verify there is no requirement by prime contractor that the DBE is to use a specific supplier nor the prime contractor's negotiated unit price.

VIII. DEMONSTRATION OF GOOD FAITH EFFORTS FOR CONTRACT AWARD

- A. When a project goal is not met, the Department shall conduct the initial review of GFE submitted by the bidder/offeror and shall determine whether the bidder/offeror has performed the quality, quantity, and intensity of efforts that demonstrate a reasonably active and aggressive attempt to meet the contract goal in accordance with 49 CFR Part 26, Appendix A.

- B. The bidder/offeror bears the responsibility of demonstrating that it met the contract goal, or if the contract goal was not met, by documenting the GFE it made in an attempt to meet the goal. It is the sole responsibility of the bidder/offeror to submit any and all documents, logs, correspondence, and any other records or information to the Department that will demonstrate that the bidder/offeror made good faith efforts to meet the DBE goal.
- C. In its good faith evaluation, the Department shall perform the following as part of its evaluation: a) compare the bidder's/offeror's bid against the bids/offers of other bidders/offerors, and compare the DBEs and DBE work areas utilized by the bidder/offeror with the DBEs listed in other bids/offers submitted for this contract (If other bidders obtained DBEs in a particular work area in which the low bidder did not, the Department shall take this into consideration in its evaluation); b) verify contacts by bidders/offerors with DBEs; and c) compare the DBE and the categories of DBE work targeted by the bidder/offeror for participation in the contract, with the total pool of available DBEs ready, willing and able to perform work on each particular subcontract targeted by the bidder/offeror.
- D. Actions on the part of the bidder/offeror that will be considered demonstrative of good faith efforts include, but are not limited to, the following:
1. Whether the bidder/offeror submitted the required information (i.e., DBE name, address, NAICS code, description of work, project name, and number), and dollar amounts for all subcontractors, within five (5) days of bid opening;
 2. Whether the bidder/offeror solicited through all reasonable and available means (e.g., attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform part or all of the work to be included under the contract. The Department will also consider whether the bidder/offeror solicited the participation of potential DBEs as early in the procurement process as practicable, and allowed sufficient time for the DBEs to properly inquire about the project and respond to the solicitation. The Department will also review whether the bidder/offeror took appropriate steps to follow up with interested DBEs in a timely manner to facilitate participation by DBEs in this project;
 3. Whether the bidder/offeror identified and broke up portions of work that can be performed by DBEs in order to increase the likelihood that an DBE will be able to participate, and that the DBE goal could be achieved (e.g., breaking out contract items into economically feasible units to facilitate DBE participation even when the bidder/offeror might otherwise prefer to self-perform these work items with its own forces);
 4. Whether the bidder/offeror made available or provided interested DBEs with adequate information about the plans, specifications, and requirements of the project in a timely manner, and assisted them in responding to the bidder's/offeror's solicitation;

5. Whether the bidder/offeror negotiated in good faith with interested DBEs. Evidence of such negotiations includes documenting: a) the names, addresses and telephone numbers of DBEs that were contacted; b) a description of the information that was provided to DBEs regarding the plans and specifications; and c) detailed explanation for not utilizing individual DBEs on the project;
6. Whether the bidder/offeror solely relied on price in determining whether to use an DBE. The fact that there may be additional or higher costs associated with finding and utilizing DBEs are not, by itself, sufficient reasons for a bidder's/offeror's refusal to utilize an DBE, or the failure to meet the DBE goal, provided that such additional costs are not unreasonable. Also, the ability or desire of a bidder/offeror to perform a portion of the work with its own forces, that could have been undertaken by an available DBE, does not relieve the bidder/offeror of the responsibility to make good faith efforts to meet the DBE goal, and to make available and solicit DBE participation in other areas of the project to meet the DBE goal;
7. Whether the bidder/offeror rejected DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The DBEs standing within the industry, membership in specific groups, organizations or associations, and political or social affiliation are not legitimate basis for the rejection or non-solicitation of bids from particular DBEs;
8. Whether the bidder/offeror made efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance;
9. Whether the bidder/offeror made efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials or related assistance or services;
10. Whether the bidder/offeror effectively used the services of available minority/women community organizations, minority/women business groups, contractors' groups, and local, state and federal minority/women business assistance offices or other organizations to provide assistance in recruitment and placement of DBEs;
11. Whether the bidder/offeror, who selects a non-DBE over an DBE subcontractor, has quotes of each DBE and non-DBE subcontractor submitted to the bidder for work on the contract; and for each DBE that was contacted but not utilized by the bidder/offeror for a contract, the bidder/offeror has a detailed written explanation for each DBE detailing the reasons for the bidder's/offeror's failure or inability to utilize, or to allow the DBE to participate in the contract; and
12. Whether other bidders/offerors met the goal and whether the apparent successful bidder/offeror could have met the goal with additional efforts. The Department may determine that an apparent successful bidder/offeror who fell short of meeting the goal, made good faith efforts when it met or exceeded the average DBE participation obtained by other bidders/offerors.

IX. ADMINISTRATIVE RECONSIDERATION.

If it is determined by the Department that the apparent successful bidder/offeror has failed to meet the provisions of 49 CFR Section 26.53(a), the bidder/offeror may submit a request for administrative reconsideration. If under the provisions of 49 CFR, Section 26.53(d), it is determined by the Department that the apparent successful bidder/offeror has failed to meet the provisions of this subsection, the bidder/offeror may submit a written request for administrative reconsideration.

- A. Within five (5) working days of being informed in writing by the Department that the bidder/offeror has not documented sufficient GFE, a bidder/offeror may request administrative reconsideration. Bidders/offerors should make this request in writing to the following official:

Director of Transportation
Hawaii Department of Transportation
869 Punchbowl Street, Room 509
Honolulu, Hawaii 96813

- B. The reconsideration official, or his or her designee (referred to as “reconsideration official”), shall not have played any role in the original determination that the bidder/offeror failed to meet the goal or make adequate good faith efforts to do so.
- C. As part of this reconsideration, the bidder/offeror will have the opportunity to provide written documentation or argument concerning the issue of whether it met the goal or made adequate GFE to do so. The bidder/offeror will have the opportunity to meet in person with the reconsideration official to discuss the issue of whether it met the goal or made adequate GFE to do so.
- D. In an administrative reconsideration, the reconsideration official will review all previously submitted documents, oral and written arguments, and other evidence presented in the reconsideration, in making the decision.
- E. The Department shall inform the bidder/offeror of the decision within thirty (30) days of the proceeding. The decision will state the Department’s findings, and explain the basis of those findings, with respect to whether or not the bidder/offeror met the contract goal, or whether or not the bidder/offeror made adequate GFE to achieve the contract goal.
- F. The reconsideration decision is not administratively appealable to USDOT but is appealable under HRS 103D-709.

X. AWARD OF CONTRACT

- A. In a sealed bid procurement, the Department reserves the right to reject any or all bids. The award of contract, if it is awarded, will be to the lowest responsive and responsible bidder who meets or exceeds the DBE project goal, or who makes

good faith efforts to meet or exceed the DBE project goal, as determined by the Department.

- B. If the lowest responsible bidder does not meet the DBE project goal and does not demonstrate to the satisfaction of the Department that it made good faith efforts to meet the DBE project goal, such bid shall be rejected as non-responsive. The Department will then consider the next lowest responsive and responsible bidder for award in accordance with paragraph A above.

XI. REPLACEMENT OF AN DBE ON A PROJECT WITH A CONTRACT GOAL

Under this contract, the prime contractor shall utilize the specific DBE listed to perform the work and supply the materials for which each is listed unless the contractor obtains written consent from the Department to replace an DBE. If the Department's consent is not provided, the contractor shall not be entitled to any payment for work or material unless it is performed or supplied by the listed DBE. The Department reserves the right to request copies of all DBE subcontracts.

The Department will require a contractor to make good faith efforts to replace an DBE that is terminated or has otherwise failed to complete its work on a contract with another certified DBE, to the extent needed to meet the contract goal. A prime contractor's inability to find a replacement DBE at the original price is not sufficient to demonstrate that good faith efforts have been made to replace the original DBE. The fact that the contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.

The Department will require the prime contractor to promptly provide written notice to the project manager of the DBE's inability or unwillingness to perform and provide reasonable documentation.

The written notice by the contractor must include the following:

1. The date the contractor determined the certified DBE to be unwilling, unable or ineligible to perform work on the contract;
2. The projected date that the contractor shall require a substitution or replacement DBE to commence work if consent is granted by the Department;
3. Documentation of facts that describe and cite specific actions or inactions on the part of the affected DBE that led to the contractor's conclusion that the DBE is unwilling, unable, or ineligible to perform work on the contract;
4. A brief statement of the affected DBE's capacity and ability or inability to perform the work as determined by the contractor;
5. Documentation of contractor's good faith efforts to enable affected DBE to perform the work;
6. The current percentage of work completed on each bid item by the affected DBE;

7. The total dollar amount currently paid per bid item for work performed by the affected DBE;
8. The total dollar amount per bid item remaining to be paid to the DBE for work completed but for which the DBE has not received payment, and with which the contractor has no dispute; and
9. The total dollar amount per bid item remaining to be paid to the DBE for work completed, for which the DBE has not received payment, and with which the contractor and DBE have a dispute.

The prime contractor shall send a copy of the written notice to replace a certified DBE on a contract to the affected DBE. The affected DBE may submit a written response within five (5) calendar days to the Department to explain its position on its performance on the committed work. The Department shall consider both the prime contractor's request and DBE's stated position before approving the termination or substitution request, or determining if any action shall be taken against the contractor.

There shall be no substitution or termination of an DBE subcontractor at any time without the prior written consent of the Department. The Department will provide written consent only if the contractor has good cause, as determined by the Department, to terminate the DBE. Good cause may include, but is not limited to the following circumstances:

1. The DBE subcontractor fails or refuses to execute a written contract;
2. The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards;
3. The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements;
4. The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
5. The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to 2 CFR Parts 180, 215 and 1200 or applicable state law;
6. The Department has determined that the listed DBE subcontractor is not a responsible contractor;
7. The listed DBE subcontractor voluntarily withdraws from the project and provides to the Department written notice of its withdrawal;
8. The listed DBE is ineligible to receive DBE credit for the type of work required; and
9. An DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract.

Upon approval from the Department to replace an DBE, the contractor's good faith efforts shall be documented and submitted to the Department within seven (7) calendar days. This time period may be extended for another seven (7) calendar days upon request by the prime contractor.

If an DBE subcontractor is unable to perform work under the contract, and is to be

replaced, the contractor's failure to obtain a substitute certified DBE or to make good faith efforts to obtain such a substitute DBE subcontractor to perform said work, may constitute a breach of this contract for which the Department may terminate the contract or pursue such remedy as deemed appropriate by the Department.

XII. CONTRACT COMPLIANCE

This contract is subject to contract compliance tracking, and the prime contractor and all subcontractors are required to report payments electronically in the HDOT online Certification and Contract Compliance Management System (hereafter referred to as "online tracking system"). The prime contractor shall report the date payment was made by the Department and shall report payment to all subcontractors for the audit period. The prime contractor and all subcontractors are responsible for responding by any noted response date or due date to any instructions or request for information, and to check the online tracking system on a regular basis to manage contact information and contract records.

The prime contractor is responsible for ensuring all subcontractors have completed all requested items and that their contact information is accurate and up-to-date. HDOT may require additional information related to the contract to be provided electronically through the online tracking system at any time before, during, or after contract award. Information related to contractor access of the online tracking system will be provided to designated point of contact with each contractor upon award of the contract. The online tracking system is web-based and can be accessed at the following Internet address: <https://hdot.dbesystem.com/>.

XIII. PAYMENT

- A. The Department will make an estimate in writing each month based on the items of work performed and materials incorporated in the work and the value therefore at the unit prices or lump sum prices set forth in the contract. All progress estimates and payments will be approximate only and shall be subject to correction at any time prior to or in the final estimate and payment. The Department will not withhold any amount from any payment to the contractor, including retainage.
- B. The contractor shall pay all subcontractors within ten (10) calendar days after receipt of any progress payments from the Department. This clause applies to both DBE and non-DBE subcontractors, and all tiers of subcontracts.
- C. The contractor will verify that payment or retainage has been released to the subcontractors or its suppliers within the specified time through entries in the Department's online tracking system during the corresponding monthly audits. Prompt payment will be monitored and enforced through the contractor's reporting of payments to its subcontractors and suppliers in the online tracking system.

Subcontractors, including lower tier subcontractors and/or suppliers will confirm the timeliness and the payment amounts received utilizing the online tracking system. Discrepancies will be investigated by the DBE Program Office and the project engineer. Payments to the subcontractors, including lower tier subcontractors, and including retainage released after the subcontractor or lower tier subcontractor's work has been completed to the Department's satisfaction, will be reported by the Contractor or the subcontractor.

- D. When any subcontractor has satisfactorily completed its work as specified in the subcontract, and there are no bona fide disputes, the contractor shall make prompt and full payment to the subcontractor of all monies due, including retainage, within ten (10) calendar days after the subcontractor's work is satisfactorily completed. A subcontractor's work is satisfactorily completed when all the tasks called for in the subcontract have been accomplished and documented, as required by the Department. The contractor must obtain the prior written approval from the Department before it can continue to withhold retainage from any subcontractor who has completed its portion of the work. This clause applies to both DBE and non-DBE subcontractors, and all tiers of subcontracts.

XIV. RECORDS

The contractor shall maintain and keep all records necessary for the Department to determine compliance with the contractor's DBE obligations. The records shall be available at reasonable times and places for inspection by the Department and appropriate Federal agencies. The records to be kept by the contractor shall include:

1. The names, race/ethnicity, gender, address, phone number, and contact person of all DBE and non-DBE consultants, subcontractors, manufacturers, suppliers, truckers and vendors identified as DBEs;
2. The nature of work of each DBE and non-DBE consultant, subcontractor, manufacturer, supplier, trucker and vendor;
3. The dollar amount contracted with each DBE and non-DBE consultant, subcontractor, manufacturer, supplier, trucker and vendor; and
4. Cumulative dollar amount of all change orders to the subcontract.

XV. FAILURE TO COMPLY WITH DBE REQUIREMENTS

The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of USDOT assisted contracts. All contractors, subcontractors, manufacturers and suppliers are hereby advised that failure to carry out all DBE requirements specified herein shall constitute a material breach of contract that may result in termination of the contract or such other remedy as deemed appropriate by the Department including but not limited to: 1) withholding monthly progress payments; 2) assessing sanctions; 3) liquidated damages; and/or 4) disqualifying the contractor from future bidding as non-responsible.

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Non-segregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- XI. Certification Regarding Use of Contract Funds for Lobbying
- XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work

performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide

sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding (29 CFR 5.5)

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics,

including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records (29 CFR 5.5)

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency.

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or

subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees (29 CFR 5.5)

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State

Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the

corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor

set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility (29 CFR 5.5)

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1 of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph 1 of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1 of this section. 29 CFR 5.5.

* \$27 as of January 23, 2019 (See 84 FR 213-01, 218) as may be adjusted annually by the Department of Labor; pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990).

3. Withholding for unpaid wages and liquidated damages.

The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 2 of this section. 29 CFR 5.5.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs 1 through 4 of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1 through 4 of this section. 29 CFR 5.5.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or

equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on longstanding interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance

with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.326.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders

or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.326.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant

who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

3. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is

submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contractor). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(a) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(b) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(c) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier

subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.
2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B)**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOLULU, HAWAII

SPECIAL PROVISIONS

These Special Provisions shall supplement and/or amend the applicable provisions of the Hawaii Standard Specifications for Road and Bridge Construction, 2005, hereinafter referred to as the "Standard Specifications".

1 Amend **Section 101 - TERMS, ABBREVIATIONS, AND DEFINITIONS** to read as
 2 follows:

3
 4 **“DIVISION 100 - GENERAL PROVISIONS**

5
 6
 7 **SECTION 101 - TERMS, ABBREVIATIONS, AND DEFINITIONS**

8
 9 **101.01 Meaning of Terms.** The specifications are generally written in the
 10 imperative mood. In sentences using the imperative mood, the subject, “the
 11 Contractor shall”, is implied. In the material specifications, the subject may also
 12 be the supplier, fabricator, or manufacturer supplying material, products, or
 13 equipment for use on the project. The word “will” generally pertains to decisions
 14 or actions of the State.

15
 16 When a publication is specified, it refers to the most recent date of issue,
 17 including interim publications, before the bid opening date for the project, unless a
 18 specific date or year of issue is provided.

19
 20 **101.02 Abbreviations.** Meanings of abbreviations used in the specifications,
 21 on the plans, or in other contract documents are as follows:

22

23	AAN	American Association of Nurserymen
24		
25	AASHTO	American Association of State Highway and
26		Transportation Officials
27		
28	ACI	American Concrete Institute
29		
30	ADA	Americans with Disabilities Act
31		
32	ADAAG	Americans with Disabilities Act Accessibility Guidelines
33		
34	AGC	Associated General Contractors of America
35		
36	AIA	American Institute of Architects
37		
38	AISC	American Institute of Steel Construction
39		
40	AISI	American Iron and Steel Institute
41		
42	ANSI	American National Standards Institute
43		
44	APA	American Plywood Association
45		

46	ARA	American Railway Association
47		
48	AREA	American Railway Engineering Association
49		
50	ASA	American Standards Association
51		
52	ASCE	American Society of Civil Engineers
53		
54	ASLA	American Society of Landscape Architects
55		
56	ASTM	American Society for Testing and Materials
57		
58	AWG	American Wire Gauge
59		
60	AWPA	American Wood Preserver's Association
61		
62	AWS	American Welding Society
63		
64	AWWA	American Water Works Association
65		
66	BMP	Best Management Practice
67		
68	CCO	Contract Change Order
69		
70	CFR	Code of Federal Regulations
71		
72	CRSI	Concrete Reinforcing Steel Institute
73		
74	DCAB	Disability and Communication Access Board, Department of Health, State of Hawaii
75		
76		
77	DOTAX	Department of Taxation, State of Hawaii
78		
79	EPA	U.S. Environmental Protection Agency
80		
81	FHWA	Federal Highway Administration, U.S. Department of Transportation
82		
83		
84	FSS	Federal Specifications and Standards, General Services Administration, U.S. Department of Defense
85		
86		
87	HAR	Hawaii Administrative Rules
88		
89	HDOT	Department of Transportation, State of Hawaii
90		

91	HIOSH	Occupational Safety and Health, Department of Labor and Industrial Relations, State of Hawaii
92		
93		
94	HMA	Hot Mix Asphalt
95		
96	HRS	Hawaii Revised Statutes
97		
98	ICEA	Insulated Cable Engineers Association (formerly IPCEA)
99		
100	IMSA	International Municipal Signal Association
101		
102	IRS	Internal Revenue Service
103		
104	ITE	Institute of Transportation Engineers
105		
106	MUTCD	Manual on Uniform Traffic Control Devices for Streets and Highways, FHWA, U.S. Department of Transportation
107		
108		
109	NCHRP	National Cooperative Highway Research Program
110		
111	NEC	National Electric Code
112		
113	NEMA	National Electrical Manufacturers Association
114		
115	NFPA	National Forest Products Association
116		
117	NPDES	National Pollutant Discharge Elimination System
118		
119	OSHA	Occupational Safety and Health Administration/Act, U.S. Department of Labor
120		
121		
122	SAE	Society of Automotive Engineers
123		
124	SI	International Systems of Units
125		
126	UFAS	Uniform Federal Accessibility Standards
127		
128	UL	Underwriter's Laboratory
129		
130	USGS	U.S. Geological Survey
131		
132	VECP	Value Engineering Cost Proposal
133		
134		

135 **101.03 Definitions.** Whenever the following words, terms, or pronouns are
136 used in the contract documents, unless otherwise prescribed therein and without
137 regards to the use or omission of uppercase letters, the intent and meaning shall
138 be interpreted as follows:

139
140 **Addendum (plural - Addenda)** - A written or graphic document, including
141 drawings and specifications, issued by the Director during the bidding period. This
142 document modifies or interprets the bidding documents by additions, deletions,
143 clarifications or corrections.

144
145 **Addition** (to the contract sum) - Amount added to the contract sum by change
146 order.

147
148 **Advertisement** - A public announcement inviting bids for work to be performed or
149 materials to be furnished.

150
151 **Amendment** - A written document issued to amend the existing contract between
152 the State and Contractor and properly executed by the Contractor and Director.

153
154 **Award** - Written notification to the bidder that the bidder has been awarded a
155 contract.

156
157 **Bad Weather Day (or Unworkable Day)** - A day when weather or other conditions
158 prevent a minimum of four hours of work with the Contractor's normal work force
159 on critical path activities at the site.

160
161 **Bag** - 94 pounds of cement.

162
163 **Barrel** - 376 pounds of cement.

164
165 **Base Course** - The layer or layers of specified material or selected material of a
166 designed thickness placed on a subbase or subgrade to support a surface course.

167
168 **Basement Material** - The material in excavation or embankments underlying the
169 lowest layer of subbase, base, pavement, surfacing or other specified layer.

170
171 **Bid** - See Proposal.

172
173 **Bidder** - An individual, partnership, corporation, joint venture or other legal entity
174 submitting, directly or through a duly authorized representative or agent, a
175 proposal for the work or construction contemplated.

176
177 **Bidding Documents (or Solicitation Documents)** - The published solicitation
178 notice, bid requirements, bid forms and the proposed contract documents including
179 all addenda and clarifications issued prior to receipt of the bid.

180

181 **Bid Security** - The security furnished by the bidder from which the State may
182 recover its damages in the event the bidder breaches its promise to enter into a
183 contract with the State, or fails to execute the required bonds covering the work
184 contemplated, if its proposal is accepted.

185

186 **Blue Book** - EquipmentWatch Cost Recovery (formerly known as
187 EquipmentWatch Rental Rate Blue Book), available from EquipmentWatch, a
188 division of Penton, Inc.

189

190 **Calendar Day** - See Day.

191

192 **Change Order (or Contract Change Order)** - A written order signed by the
193 Engineer issued with or without the consent of the Contractor directing changes in
194 the work, contract time or contract price. The purposes of a change order include,
195 but are not limited to (1) establishing a price or time adjustment for changes in the
196 work; (2) establishing full payment for direct, indirect, and consequential costs,
197 including costs of delay; (3) establishing price adjustment or time adjustment for
198 work covered and affected by one or more field orders; or (4) settling Contractor's
199 claims for direct, indirect, and consequential costs, or for additional contract time,
200 in whole or in part.

201

202 **Completion** - See Substantial Completion and Final Completion.

203

204 **Completion Date** - The date specified by the contract for the completion of all
205 work on the project or of a designated portion of the project.

206

207 **Comptroller** - the Comptroller of the State of Hawaii, Department of Accounting
208 and General Services.

209

210 **Contract** - The written agreement between the Contractor and the State, by which
211 the Contractor shall provide all labor, equipment, and materials and perform the
212 specified work within the contract time stipulated, and by which the State of Hawaii
213 is obligated to compensate the Contractor at the prices set forth in the contract
214 documents.

215

216 **Contract Certification Date** - The Date on which the Deputy Comptroller for the
217 State of Hawaii (or authorized representative) signs the Contract Certification.

218

219 **Contract Completion Date** - The calendar day on which all work on the project,
220 required by the contract, must be completed. See CONTRACT TIME.

221

222 **Contract Documents** - The contract, solicitation, addenda, notice to bidders,
223 Contractor's bid proposal (including wage schedule, list of subcontractors and
224 other documentations accompanying the bid), notice to proceed, bonds, general
225 provisions, special provisions, specifications, drawings, all modifications, all written
226 amendments, change orders, field orders, orders for minor changes in the work,
227 the Engineer's written interpretations and clarifications issued on or after the
228 effective date of the contract.

229
230 **Contract Item (Pay Item)** - A specific unit of work for which there is a price in the
231 contract.

232
233 **Contract Modification (Modification)** - A change order that is mutually agreed to
234 and signed by the parties to the contract.

235
236 **Contract Price** - The amount designated on the face of the contract for the
237 performance of work.

238
239 **Contract Time (or Contract Duration)** - The number of calendar or working days
240 provided for completion of the contract, inclusive of authorized time extensions.
241 Contract time shall commence on the Start Work Date and end on the Substantial
242 Completion Date. If in lieu of providing a number of calendar or working days, the
243 contract requires completion by a certain date, the work shall be completed by that
244 date.

245
246 **Contracting Officer** - See Engineer.

247
248 **Contractor** - Any individual, partnership, firm, corporation, joint venture, or other
249 legal entity undertaking the execution of the work under the terms of the contract
250 with the State.

251
252 **Critical Path** - Longest logical sequence of activities that must be completed on
253 schedule for the entire project to be completed on schedule.

254
255 **Day** - Any day shown on the calendar, beginning at midnight and proceeding up
256 to, but not including, midnight the following day. If no designation of calendar or
257 working day is made, "day" shall mean calendar day.

258
259 **Department** - The Department of Transportation of the State of Hawaii
260 (abbreviated HDOT).

261
262 **Director** - The Director of the HDOT acting directly or through duly authorized
263 representatives.

264
265 **Plans (or Drawings)** - The contract drawings in graphic or pictorial form including
266 the notes, tables and other notations thereon indicating the design, location,
267 character, dimensions, and details of the work.

268

269 **Engineer** - The Highway Administrator, Highways Division, HDOT, or the
270 authorized person delegated to act on the Administrator's behalf.

271

272 **Equipment** - All machinery, tools, and apparatus needed to complete the contract.

273

274 **Field Order** - A written order issued by the Engineer or the Engineer's authorized
275 representative to the Contractor requiring a change or changes to the contract
276 work. A field order may (1) establish a price adjustment or time adjustment; or (2)
277 may declare that no adjustment will be made to contract price or contract time; or
278 (3) may request the Contractor to submit a proposal for an adjustment to the
279 contract price or contract time.

280

281 **Final Acceptance** - The Status of the project when the Engineer finds that the
282 Contractor has satisfactorily completed all contract work in compliance with the
283 contract including all plant establishment requirements, and all the materials have
284 been accepted by the State.

285

286 **Final Completion** - The date set by the Director that all work required by the
287 contract has been completed in full compliance with the contract documents.

288

289 **Final Inspection** - Inspection where all contract items (with the exception of
290 Planting Period and Plant Establishment Period) are accepted by the Engineer.
291 Substantial Completion will be issued by the Engineer based on the satisfactory
292 results of the Final Inspection.

293

294 **Float** - The amount of time between when an activity can start and when an activity
295 must start, i.e., the time available to complete non-critical activities required for the
296 performance of the work without affecting the critical path.

297

298 **Guarantee** - Legally enforceable assurance of the duration of satisfactory
299 performance of quality of a product or work.

300

301 **Hawaii Administrative Rules** - Rules adopted by the State in accordance with
302 Chapter 91 of the Hawaii Revised Statutes, as amended.

303

304 **Highway (Street, Road, or Roadway)** - A public way within a right-of-way
305 designed, intended, and set aside for use by vehicles, bicyclists, or pedestrians.

306

307 **Highways Division** - The Highways Division of the Hawaii Department of
308 Transportation constituted under the laws of Hawaii for the administration of
309 highway work.

310

311 **Holidays** - The days of each year which are set apart and established as State
312 holidays pursuant to Chapter 8 of the Hawaii Revised Statutes, as amended.

313

314 **Inspector** - The Engineer's authorized representative assigned to make detailed
315 inspections of contract performance, prescribed work, and materials supplied.

316
317 **Laboratory** - The testing laboratory of the Highways Division or other testing
318 laboratories that may be designated by the Engineer.

319
320 **Laws** - All Federal, State, and local laws, executive orders and regulations having
321 the force of law.

322
323 **Leveling Course** - An aggregate mixture course of variable thickness used to
324 restore horizontal and vertical uniformity to existing pavements or shoulders.

325
326 **Liquidated Damages** - The amount prescribed in Subsection 108.08 - Liquidated
327 Damages for Failure to Complete the Work or Portions of the Work on Time, to be
328 paid to the State or to be deducted from any payments payable to or, which may
329 become payable to the Contractor.

330
331 **Lump Sum (LS)** - When used as a payment method means complete payment
332 for the item of work described in the contract documents.

333
334 **Material** - Any natural or manmade substance or item specified in the contract to
335 be incorporated in the work.

336
337 **Notice to Bidders** - The advertisement for proposals for all work or materials on
338 which bids are required. Such advertisement will indicate the location of the work
339 to be done or the character of the material to be furnished and the time and place
340 for the opening of proposals.

341
342 **Notice to Proceed** - Written notice from the Engineer to the Contractor identifying
343 the date on which the Contractor is to begin procuring materials and required
344 permits and adjusting work forces, equipment, schedules, etc. prior to beginning
345 physical work.

346
347 **Pavement** - The uppermost layer of material placed on the traveled way or
348 shoulders or both. Pavement and surfacing may be interchangeable.

349
350 **Pavement Structure** - The combination of subbase, base, pavement, surfacing or
351 other specified layer of a roadway constructed on a subgrade to support the traffic
352 load.

353
354 **Payment Bond** - The security executed by the Contractor and surety or sureties
355 furnished to the Department to guarantee payment by the Contractor to laborers,
356 material suppliers and subcontractors in accordance with the terms of the contract.

357

358 **Physical Work** - Physical construction activities on the project site or at
359 appurtenant facilities including staging areas. It includes; (i) building or installing
360 any structures or facilities including, but not limited to sign erection; BMP
361 installation; field office site grading and building; (ii) removal, adjustment, or
362 demolition of physical obstructions on site; (iii) any ground breaking activities; and
363 (iv) any utility work. It does not include pre-construction environmental testing
364 (such as water quality baseline measurements) that may be required as part of
365 contract.

366
367 **Pre-Final Inspection** - Inspection scheduled when Contractor notifies Engineer
368 that all physical work on the project, with the exception of planting period and plant
369 establishment period, has been completed. Notice from Contractor of substantial
370 completion will suspend contract time until Contractor receives punchlist from
371 Engineer.

372
373 **Profile Grade** - The elevation or gradient of a vertical plane intersecting the top
374 surface of the proposed pavement.

375
376 **Project Acceptance Date** - The calendar day on which the Engineer accepts the
377 project as completed. See Final Completion.

378
379 **Proposal (Bid)** - The executed document submitted by a Bidder in response to a
380 solicitation request, to perform the work required by the proposed contract
381 documents, for the price quoted and within the time allotted.

382
383 **Public Traffic** - Vehicular or pedestrian movement on a public way.

384
385 **Punchlist** - A list compiled by the Engineer specifying work yet to be completed or
386 corrected by the Contractor in order to substantially complete the contract.

387
388 **Questionnaire** - The specified forms on which the bidder shall furnish required
389 information as to its ability to perform and finance the work.

390
391 **Request for Change Proposal** - A written notice from the Engineer to the
392 Contractor requesting that the Contractor provide a price and/or time proposal for
393 contemplated changes preparatory to the issuance of a field order or change order.

394
395 **Right-of-Way** - Land, property, or property interests acquired by a government
396 agency for, or devoted to transportation purposes.

397
398 **Roadbed** - The graded portion of a highway within top and side slopes, prepared
399 as a foundation for the pavement structure and shoulders.

400
401 **Roadside** - The area between the outside edges of the shoulders and the right-of-
402 way boundaries. Unpaved median areas between inside shoulders of divided
403 highways and infield areas of interchanges are included.

404 **Section and Subsection** - Section or subsection shall be understood to refer to
405 these specifications unless otherwise specified.

406
407 **Shop Drawings** - All drawings, diagrams, illustrations, schedules and other data
408 or information which are specifically prepared or assembled by or for the
409 Contractor and submitted by the Contractor to illustrate some portion of the work.

410
411 **Shoulder** - The portion of the roadway next to the traveled way for:
412 accommodation of stopped vehicles, placement of underground facilities,
413 emergency use, and lateral support of base and surface courses.

414
415 **Sidewalk** - That portion of the roadway primarily constructed for use by
416 pedestrians.

417
418 **Solicitation** - An invitation to bid or request for proposals or any other document
419 issued by the Department to solicit bids or offers to perform a contract. The
420 solicitation may indicate the time and place to receive the bids or offers and the
421 location, nature and character of the work, construction or materials to be provided.

422
423 **Specifications** - Compilation of provisions and requirements to perform
424 prescribed work.

425
426 **(A) Standard Specifications.** Specifications by the State intended for
427 general application and repetitive use.

428
429 **(B) Special Provisions.** Revisions and additions to the standard
430 specifications applicable to an individual project.

431
432 **Standard Plans** - Drawings provided by the State for specific items of work
433 approved for repetitive use.

434
435 **State** - The State of Hawaii, its Departments and agencies, acting through its
436 authorized representative(s).

437
438 **State Waters** – All waters, fresh, brackish, or salt, around and within the State,
439 including, but not limited to, coastal waters, streams, rivers, drainage ditches,
440 ponds, reservoirs, canals, ground waters, and lakes; provided that drainage
441 ditches, ponds, and reservoirs required as a part of a water pollution control system
442 are excluded.

443
444 **Start Work Date** - Date on which Contractor begins physical work on the contract
445 or work order. This date shall also be the beginning of Contract Time.

446
447 **Structures** - Bridges, culverts, catch basins, drop inlets, retaining walls, cribbing,
448 manholes, endwalls, buildings, sewers, service pipes, underdrains, foundation
449 drains, and other such features that may be encountered in the work.

450

451 **Subbase** - A layer of specified material of specified thickness between the
452 subgrade and a base.

453

454 **Subcontract** - Any written agreement between the Contractor and its
455 subcontractors which contains the conditions under which the subcontractor is to
456 perform a portion of the work for the Contractor.

457

458 **Subcontractor** - An individual, partnership, firm, corporation, joint venture or other
459 legal entity, as licensed or required to be licensed under Chapter 444, Hawaii
460 Revised Statutes, as amended, which enters into an agreement with the
461 Contractor to perform a portion of the work.

462

463 **Subgrade** - The top surface of completed earthwork on which subbase, base,
464 surfacing, pavement, or a course of other material is to be placed.

465

466 **Substantial Completion** - The Status of the project when the Contractor has
467 completed the work, except for the planting period and plant establishment period,
468 and each of the following requirements are met:

469

470 (1) All traffic lanes (including shoulders, ramps, sidewalks and bike
471 paths) are in their final configuration as designed and the final
472 wearing surface has been installed;

473

474 (2) All operational and safety devices have been installed in accordance
475 with the contract documents including guardrails, end treatments,
476 traffic barriers, required signs and pavement markings, drainage,
477 parapet, and bridge and pavement structures;

478

479 (3) All required illumination and lighting for normal and safe use and
480 operation is installed and functional in accordance with the contract
481 documents;

482

483 (4) All utilities and services are connected and working;

484

485 (5) The need for temporary traffic controls or lane closures at any time
486 has ceased, except for lane closures required for routine
487 maintenance;

488

489 (6) The building, structure, improvement or facility can be used for its
490 intended purpose.

491

492 **Substantial Completion Date** - The date the Substantial Completion is granted
493 by the Engineer in Writing and Contract Time stops.

494

495 **Superintendent** - The employee of the Contractor who is responsible for all the
496 work and is a Contractor's agent for communications to and from the State.

497

498 **Surety** - The qualified individual, firm or corporation other than the Contractor,
499 which executes a bond with and for the Contractor to insure its acceptable
500 performance of the contract.

501

502 **Surfacing** - The uppermost layer of material placed on the traveled way or
503 shoulders. This term is used interchangeably with pavement.

504

505 **Traveled Way** - The portion of the roadway for the movement of vehicles,
506 exclusive of shoulders.

507

508 **Unsuitable Material** - Materials that contain organic matter, muck, humus, peat,
509 sticks, debris, chemicals, toxic matter, or other deleterious materials not suitable
510 for use in earthwork.

511

512 **Utility** - A line, facility, or system for producing, transmitting, or distributing
513 communications, power, electricity, heat, gas, oil, water, steam, waste, or storm
514 water.

515

516 **Utility Owner** - The entity, whether private or owned by a State, Federal, or County
517 governmental body, that has the power and responsibility to grant approval for, or
518 undertake construction work involving a particular utility.

519

520 **Water Pollutant** - Dredged spoil, solid refuse, incinerator residue, sewage,
521 garbage, sewage sludge, munitions, chemical waste, biological materials,
522 radioactive materials, heat, wrecked or discarded equipment, rock, sand, soil,
523 sediment, cellar dirt and industrial, municipal, and agricultural waste.

524

525 **Water Pollution** - (1) Such contamination or other alteration of the physical,
526 chemical, or biological properties of any state waters, including change in
527 temperature, taste, color, turbidity, or odor of the waters, or (2) Such discharge of
528 any liquid, gaseous, solid, radioactive, or other substances into any state waters,
529 as will or is likely to create a nuisance or render such waters unreasonably harmful,
530 detrimental, or injurious to public health, safety, or welfare, including harm,
531 detriment, or injury to public water supplies, fish and aquatic life and wildlife,
532 recreational purposes and agricultural and industrial research and scientific uses
533 of such waters or as will or is likely to violate any water quality standards, effluent
534 standards, treatment and pretreatment standards, or standards of performance for
535 new sources adopted by the Department of Health.

536

537 **Work** - The furnishing of all labor, material, equipment, and other incidentals
538 necessary or convenient for the successful execution of all the duties and
539 obligations imposed by the contract.

540

541 **Working Day** - A calendar day in which a Contractor is capable of working four or
542 more hours with its normal work force, exclusive of:

543

544 (1) Saturdays, Sundays, and recognized legal State holidays and such
545 other days specified by the contract documents as non-working days,

546
547 (2) Day in which the Engineer suspends work for four or more hours
548 through no fault of the Contractor.”

549
550
551
552
553

END OF SECTION 101

1 Make this section a part of the Standard Specifications:
2

3 **“SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS**
4
5

6 **102.01 Prequalification of Bidders.** Prospective bidders shall be capable of
7 performing the work for which they are bidding.
8

9 In accordance with HRS Chapter 103D-310, the Department may require
10 any prospective bidder to submit answers to questions contained in the 'Standard
11 Qualification Questionnaire For Prospective Bidders On Public Works Contracts'
12 furnished by the Department, properly executed and notarized, setting forth a
13 complete statement of the experience of such prospective bidder and its
14 organization in performing similar work and a statement of the equipment proposed
15 to be used, together with adequate proof of the availability of such equipment.
16 Whenever it appears to the Department, from answers to the questionnaire or
17 otherwise, that the prospective bidder is not fully qualified and able to perform the
18 intended work, the Department will, after affording the prospective bidder an
19 opportunity to be heard and if still of the opinion that the bidder is not fully qualified
20 to perform the work, refuse to receive or consider any bid offered by the
21 prospective bidder. All information contained in the answers to the questionnaire
22 shall be kept confidential. Questionnaire so submitted shall be returned to the
23 bidders after serving their purpose.
24

25 No person, firm or corporation may bid where (1) the person, firm, or
26 corporation, or (2) a corporation owned substantially by the person, firm, or
27 corporation, or (3) a substantial stockholder or an officer of the corporation, or (4)
28 a partner or substantial investor in the firm is in arrears in payments owed to the
29 State or its political subdivisions or is in default as a surety or failure to do faithfully
30 and diligently previous contracts with the State.
31

32 **102.02 Contents of Proposal Forms.** The Department will furnish prospective
33 bidders with proposal forms posted in HlePRO stating:
34

- 35 (1) The location,
- 36
- 37 (2) Description of the proposed work,
- 38
- 39 (3) The approximate quantities,
- 40
- 41 (4) Items of work to be done or materials to be furnished,
- 42
- 43 (5) A schedule of items, and
- 44
- 45 (6) The time in which the work shall be completed.
46

47 Papers bound with or attached to the proposal form are part of the proposal.
48 The bidder shall not detach or alter the papers bound with or attached to the
49 proposal when the bidder submits its proposal through HlePRO.
50

51 Also, the bidder shall consider other documents including the plans and
52 specifications a part of the proposal form whether attached or not.
53

54 **102.03 (Unassigned)**
55

56 **102.04 Estimated Quantities.** The quantities shown in the contract are
57 approximate and are for the comparison of bids only. The actual quantity of work
58 may not correspond with the quantities shown in the contract. The Department will
59 make payment to the Contractor for unit price items in accordance with the contract
60 for only the following:
61

62 (1) Actual quantities of work done and accepted, not the estimated
63 quantities; or
64

65 (2) Actual quantities of materials furnished, not the estimated quantities.
66

67 The Department may increase, decrease, or omit each scheduled quantities
68 of work to be done and materials to be furnished. When the Department increases
69 or decreases the estimated quantity of a contract item by more than 15% the
70 Department will make payment for such items in accordance with Subsection
71 104.06 - Methods of Price Adjustment.
72

73 **102.05 Examination of Contract and Site of Work.** The bidder shall examine
74 carefully the site of the proposed work and contract before submitting a proposal.
75

76 By the act of submitting a bid for the proposed contract, the bidder warrants
77 that:
78

79 (1) The bidder and its Subcontractors have reviewed the contract
80 documents and found them free from ambiguities and sufficient for the
81 purpose intended;
82

83 (2) The bidder and its workers, employees and subcontractors have the
84 skills and experience in the type of work required by the contract documents
85 bid upon;
86

87 (3) Neither the bidder nor its employees, agents, suppliers, or
88 subcontractors have relied upon verbal representations from the
89 Department, its employees, or agents, including architects, engineers, or
90 consultants, in assembling the bid figure; and
91

92 (4) The basis for the bid figure are solely on the construction contract
93 documents.

94

95 Also, the bidder warrants that the bidder has examined the site of the work.
96 From its investigations, the bidder acknowledges satisfaction on:

97

98 (1) The nature and location of the work;

99

100 (2) The character, quality, and quantity of materials;

101

102 (3) The difficulties to be encountered; and

103

104 (4) The kind and amount of equipment and other facilities needed.

105

106 Subsurface information or hydrographic survey data furnished are for the
107 bidders' convenience only. The data and information furnished are the product of
108 the Department's interpretation gathered in investigations made at the specific
109 locations. These conditions may not be typical of conditions at other locations
110 within the project area or that such conditions remain unchanged. Also, conditions
111 found at the time of the subsurface explorations may not be the same conditions
112 when work starts. The bidder shall be solely responsible for assumptions,
113 deductions, or conclusions the bidder may derive from the subsurface information
114 or data furnished.

115

116 If the Engineer determines that the natural conditions differ from that
117 originally anticipated or contemplated by the Contractor in the items of excavation,
118 the State may treat the difference in natural conditions, as falling within the
119 meaning of Subsection 104.02 – Changes.

120

121 **102.06 Preparation of Proposal.** The submittal of its proposal shall be on
122 forms furnished by the Department. The bidder shall specify in words or figures:

123

124 (1) A unit price for each pay item with a quantity given;

125

126 (2) The products of the respective unit prices and quantities;

127

128 (3) The lump sum amount; and

129

130 (4) The total amount of the proposal obtained by adding the amounts of
131 the several items.

132

133 The words and figures shall be in ink or typed. If a discrepancy occurs
134 between the prices written in words and those written in figures, the prices written
135 in words shall govern.

136

137 When an item in the proposal contains an option to be made, the bidder
138 shall choose in accordance with the contract for that particular item. Determination
139 of an option will not permit the Contractor to choose again.

140
141 The bidder shall sign the proposal properly in ink. A duly authorized
142 representatives of the bidder or by an agent of the bidder legally qualified and
143 acceptable to the Department shall sign, including one or more partners of the
144 bidder and one or more representatives of each entity comprising a joint venture.

145
146 When an agent, other than the officer(s) of a corporation authorized to sign
147 contracts for the corporation or a partner of a partnership, signs the proposals, a
148 'Power of Attorney' shall be on file with the Department or submitted with the
149 proposal. Otherwise, the Department will reject the proposal as irregular and
150 unauthorized.

151
152 The bidder shall submit acceptable evidence of the authority of the partner,
153 member(s), or officer(s) to sign for the partnership, joint venture, or corporation
154 respectively with the proposal. Otherwise, the Department will reject the proposal
155 as irregular and unauthorized.

156
157 **102.07 Irregular Proposals.** The Department may consider proposals irregular
158 and may reject the proposals for the following reasons:

- 159
160 (1) The proposal is a form not furnished by the Department, altered, or
161 detached;
- 162
163 (2) The proposal contains unauthorized additions, conditions, or
164 alternates. Also, the proposal contains irregularities that may tend to make
165 the proposal incomplete, indefinite, or ambiguous to its meaning;
- 166
167 (3) The bidder adds provisions reserving the right to accept or reject an
168 award. Also, the bidder adds provisions into a contract before an award;
- 169
170 (4) The proposal does not contain a unit price for each pay item listed
171 except authorized optional pay items; and
- 172
173 (5) Prices for some items are out of proportion to the prices for other
174 items.
- 175
176 (6) If in the opinion of the Director, the bidder and its listed
177 subcontractors do not have the Contactor's licenses or combination of
178 Contractor's licenses necessary to complete the work.

179
180 Where the prospective bidder is bidding on multiple projects simultaneously
181 and the proposal limits the maximum gross amount of awards that the bidder can
182 accept at one bid letting, the proposal is not irregular if the limit on the gross

183 amount of awards is clear, and the Department selects the awards that can be
184 given.

185
186 **102.08 Proposal Guaranty.** In as much as the contract to be executed is
187 a price-term, open end, or requirements contract under which the contract price
188 or total amount to be paid the Contractor cannot be determined at the time the
189 contract is executed, the proposal guaranty required shall be in the following
190 amounts.

191

<u>Proposal</u>	<u>Security Amount</u>
194 A – Area 1	\$500,000.00
195 B – Area 2	\$500,000.00
196 C – Area 3	\$500,000.00
197 D – Area 4	\$500,000.00

198

199 The Department will not consider a proposal of \$25,000 or more unless
200 accompanied by:

- 201
- 202 (1) A deposit of legal tender; or
 - 203
 - 204 (2) A valid surety bid bond, underwritten by a company licensed to issue
205 bonds in the State of Hawaii, in the form and composed, substantially, with
206 the same language as provided herewith and signed by both parties; or
 - 207
 - 208 (3) A certificate of deposit, share certificate, cashier's check, treasurer's
209 check, teller's check, or official check drawn by, or a certified check
210 accepted by and payable on demand to the State by a bank, savings
211 institution, or credit union insured by the Federal Deposit Insurance
212 Corporation (FDIC) or the National Credit Union Administration (NCUA).
 - 213
 - 214 (a) The bidder may use these instruments only to a maximum of
215 \$100,000.
 - 216
 - 217 (b) If the required security or bond amount totals over \$100,000
218 more than one instrument not exceeding \$100,000 each and issued
219 by different financial institutions shall be acceptable.
 - 220
 - 221 (c) The instrument shall be made payable at sight to the
222 Department.
 - 223
 - 224 (d) Proposal Guaranty listed in (1) and (3) shall be in its original
225 form, and shall be received at the Contracts Office, Department of
226 Transportation, 869 Punchbowl Street, Honolulu, Hawaii 96813
227 before the bid deadline.
 - 228

229 The above shall be in the amount of \$500,000.00 for each Area.
230

231 **102.09 Delivery of Proposal.** The bidder shall submit the proposal in HlePRO.
232 Bids received after said due date and time shall not be considered. Original bid
233 documents do not have to be submitted. Award will be made based on proposals
234 submitted in HlePRO.
235

236 **102.10 Withdrawal or Revision of Proposals.** A bidder may withdraw or
237 revise a proposal after the bidder submits the proposal in HlePRO. Withdrawal or
238 revision of proposal must be completed before the time set for the receiving of
239 bids.
240

241 **102.11 Public Opening of Proposals.** Not applicable.
242

243 **102.12 Disqualification of Bidders.** The Department may disqualify a bidder
244 and reject its proposal for the following reasons:
245

246 (1) Submittal of more than one proposal whether under the same or
247 different name.
248

249 (2) Evidence of collusion among bidders. The Department will not
250 recognize participants in collusion as bidders for any future work of the
251 Department until such participants are reinstated as qualified bidders.
252

253 (3) Lack of proposal guaranty.
254

255 (4) Submittal of an unsigned or improperly signed proposal.
256

257 (5) Submittal of a proposal without a listing of subcontractors or
258 containing only a partial or incomplete listing of subcontractors.
259

260 (6) Submittal of an irregular proposal in accordance with Subsection
261 102.06 - Irregular Proposals.
262

263 (7) Evidence of assistance from a person who has been an employee of
264 the agency within the preceding two years and who participated while
265 in State office or employment in the matter with which the contract is
266 directly concerned, pursuant to HRS Chapter 84-15.
267

268 (8) Suspended or debarred in accordance with HRS Chapter 104-25.
269

270 (9) Failure to complete the prequalification questionnaire, if applicable.
271

272 (10) Failure to attend the mandatory pre-bid meeting, if applicable.
273

274 **102.13 Material Guaranty.** The successful bidder may be required to furnish a
275 statement of the composition, origin, manufacture of materials, and samples.

276
277 **102.14 Substitution of Materials and Equipment Before Bid Opening.** See
278 Subsection 106.13 for Substitution Of Materials and Equipment After Bid Opening.

279
280 **(A) General.** When brand names of materials or equipment are
281 specified in the contract documents, they are to indicate a quality, style,
282 appearance, or performance and not to limit competition. The bidder shall
283 base its bid on one of the specified brand names unless alternate brands
284 are qualified as equal or better in an addendum. Qualification of such
285 proposed alternate brands shall be submitted via email to the Contact
286 person listed in HlePRO for the solicitation and also post a question in
287 HlePRO under the question/answer tab referencing the email with the
288 request. The request must be posted in HlePRO no later than 14 calendar
289 days before the bid opening date, not including the bid opening date

290
291 An addendum will be issued to inform all prospective bidders of any
292 accepted substitution in accordance with Subsection 102.16 – Addenda.

293
294 **(B) Statement of Variances.** The statement of variances must list all
295 features of the proposed substitution that differ from the contract documents
296 and must further certify that the substitution has no other variant features.
297 The brochure and information submitted shall be clearly marked showing
298 make, model, size, options, and any other features requested by the
299 Engineer and must include sufficient evidence to evaluate each feature
300 listed as a variance. A request will be denied if submitted without sufficient
301 evidence. If after installing the substituted product, an unlisted variance is
302 discovered, the Contractor shall immediately replace the product with a
303 specified product at no increase in contract price and contract time.

304
305 **(C) Substitution Denial.** Any substitution request not complying with
306 the above requirements will be denied.

307
308 **102.15 Preferences.** Preferences shall not apply to this project.

309
310 **102.16 Certification for Safety and Health Program for Bids in excess of**
311 **\$100,000.** In accordance with HRS Chapter 396-18, the bidder or offeror, by
312 signing and submitting this proposal, certifies that a written safety and health plan
313 for this project will be available and implemented by the notice to proceed date for
314 this project. Details of the requirements of this plan may be obtained from the
315 State Department of Labor and Industrial Relations, Occupational Safety and
316 Health Division (HIOSH).

317

318 **102.17 Addenda.** Addenda issued shall become part of the contract
319 documents. Addenda to the bid documents will be provided to all prospective
320 bidders via HlePRO. Each addendum shall be an addition to the contract
321 documents. The terms and requirements of the bid documents (i.e., drawings,
322 specifications and other bid and contract documents) cannot be changed prior to
323 the bid opening except by a duly issued addendum.”

324

325

326

327

328

END OF SECTION 102

1 Make this section a part of the Standard Specifications:
2

3 **“SECTION 103 - AWARD AND EXECUTION OF CONTRACT**
4

5
6 **103.01 Consideration of Proposals.** The Department will compare the
7 proposals in terms of the summation of the products of the approximate quantities
8 and the unit bid prices after the submittal date and time established in HlePRO.
9 If a discrepancy occurs between the unit bid price and the bid price, the unit bid
10 price shall govern.
11

12 The “Buy America” provisions in the Surface Transportation Assistance Act
13 of 1982 is applicable to Federal-aid projects. Bidders may submit a bid based
14 upon the furnishing and use of domestic steel or foreign steel. Manufacturing
15 processes for domestic steel shall occur in the United States.
16

17 The Department reserves the right to reject proposals, waive technicalities
18 or advertise for new proposals, if the rejection, waiver, or new advertisement
19 favors the Department.
20

21 **103.02 Award of Contract.** The award of contract, if it be awarded, will be
22 made within 60 calendar days after the opening of bids, to the lowest responsible
23 and responsive bidder whose bid meets all the requirements and criteria set forth
24 in the invitation for bids. (Through HlePRO). The successful bidder will be notified
25 by letter mailed to the address shown in its proposal, that its proposal has been
26 accepted, and that it has been awarded the contract.
27

28 **(1) Requirement for Award.** To be eligible for award, the
29 apparent low bidder will be contacted to submit copies of the
30 documents listed below to demonstrate compliance with HRS
31 Section 103D-310(c). The documents shall be submitted to the
32 Department within 14 days after bid opening unless otherwise
33 specified in the invitation for bids or an extension is granted in writing
34 by the Department. If a valid certificate/clearance is not submitted
35 on a timely basis for award of a contract, a bidder otherwise
36 responsive and responsible may not receive the award. See also
37 Subsection 108.03 – Preconstruction Data Submittal.
38

39 The Department may request the bidders to allow the
40 Department to consider the bids for the issuance of an award beyond
41 the 60 calendar day period. Agreement to such an extension must
42 be made by a bidder in writing. Only bidders who have agreed to
43 such an extension will be eligible for the award.
44

45 **(A) Tax Clearance.** Pursuant to HRS Sections 103D-310(c), 103-53
46 and 103D-328, the successful bidder shall be required to submit a certified
47 copy of its tax clearance issued by the Hawaii State Department of Taxation
48 (DOTAX) and the Internal Revenue Service (IRS) to demonstrate its
49 compliance with HRS Chapter 237. A tax clearance is valid for six (6)
50 months from the most recent approval stamp date on the tax clearance and
51 must be valid on the bid's first legal advertisement date or any date
52 thereafter up to the bid opening date.

53
54 FORM A6, TAX CLEARANCE CERTIFICATE, is available at
55 the following website:

56
57 <https://tax.hawaii.gov/>

58
59 To receive DOTAX Forms by fax or mail, phone
60 (808) 587-7572 or 1-800-222-7572.

61
62 The application for the Tax Clearance Certificate is the responsibility
63 of the bidder and must be submitted directly to the DOTAX or IRS. The
64 approved certificate may then be submitted to the Department.

65
66 **(B) DLIR Certificate of Compliance.** Pursuant to HRS Section 103D-
67 310(c), the successful bidder shall be required to submit a copy (faxed
68 copies are acceptable) of its approved certificate of compliance issued by
69 the Hawaii State Department of Labor and Industrial Relations (DLIR) to
70 demonstrate its compliance with unemployment insurance (HRS Chapter
71 383), workers' compensation (HRS Chapter 386), temporary disability
72 insurance (HRS Chapter 392), and prepaid health care (HRS Chapter 393).
73 The certificate is valid for six (6) months from the most recent approval
74 stamp date on the certificate and must be valid on the bid's first legal
75 advertisement date or any date thereafter up to the bid opening date. For
76 certificates which receive a "pending" approval stamp, a DLIR approval
77 stamp is required prior to the issuance of the Notice to Proceed.

78
79 FORM LIR#27, APPLICATION FOR CERTIFICATE OF COMPLIANCE
80 WITH SECTION 3-122-112, HAR, is available at the following website:

81
82 <http://labor.hawaii.gov/>

83
84 More information is available by calling the DLIR Unemployment Insurance
85 Division at (808) 586-8926.

86
87 Inquiries regarding the status of a LIR#27 Form may be made by
88 calling the DLIR Disability Compensation Division at (808) 586-9200.

90 The application for the Certificate of Compliance is the responsibility
91 of the bidder and must be submitted directly to the DLIR. The approved
92 certificate may then be submitted to the Department.
93

94 **(C) DCCA Certificate of Good Standing.** Pursuant to HRS Section
95 103D-310(c), the successful bidder shall be required to submit a copy
96 (faxed copies are acceptable) of its approved Certificate of Good Standing
97 issued by the Hawaii State Department of Commerce and Consumer Affairs
98 (DCCA), Business Registration Division (BREG) to demonstrate that it is
99 either:

100 (1) Incorporated or organized under the laws of the State; or
101

102 (2) Registered to do business in the State as a separate branch
103 or division that is capable of fully performing under the contract.
104

105 The Certificate of Good Standing is valid for six (6) months
106 from the approval date on the certificate and must be valid on the
107 bid's first legal advertisement date or any date thereafter up to the
108 bid opening date. A Hawaii business that is a sole proprietorship,
109 however, is not required to register with the BREG, and therefore not
110 required to submit a Certificate of Good Standing. Bidders are
111 advised that there are costs associated with registering and
112 obtaining a Certificate of Good Standing from the DCCA.
113

114 To purchase a CERTIFICATE OF GOOD STANDING, go to On-Line
115 Services at the following website:

116 <http://cca.hawaii.gov/>
117
118

119 The application for the Certificate of Good Standing is the
120 responsibility of the bidder and must be submitted directly to the DCCA.
121 The approved certificate may then be submitted to the Department.
122

123 **(D) Hawaii Compliance Express (HCE).** In lieu of the certificates
124 referenced above, the bidder may make available proof of compliance
125 through the Hawaii Compliance Express or any other designated
126 certification process. Bidders may apply and register at the "Hawaii
127 Compliance Express" website:
128

129 <https://vendors.ehawaii.gov/hce/>
130

131 This contract, to be awarded, is considered a requirement contract, as the
132 pavement reconstruction, cold planing, and resurfacing by the Contractor will be
133 made on an "as-needed" basis during the 12-month contract period. The State
134 gives no assurance as to the number of services it will purchase.
135

136 The bidder must maintain an office on the Island of Kauai to be awarded the
137 contract.

138
139 **103.03 Cancellation of Award.** The Department reserves the right to cancel
140 the award of contracts before the execution of said contract by the parties. There
141 will be no liability to the awardee and to other bidders.

142
143 **103.04 Return of Proposal Guaranty.** The Department will return the proposal
144 guaranties, except those of the three lowest bidders, after the Department checks
145 the proposals. The Department will return the proposal guaranties of the remaining
146 two lowest bidders not awarded the contract within five working days following the
147 execution of the contract. The Department will return the successful bidder's
148 proposal guaranty after the successful bidder furnishes a bond and executes the
149 contract.

150
151 **103.05 Requirement of Contract Bond.** At the time of execution of the
152 contract, the successful bidder shall file a good and sufficient performance bond
153 and a payment bond on the forms furnished by the Department conditioned for the
154 full and faithful performance of the contract in accordance with the terms and intent
155 thereof and for the prompt payment to all others for all labor and material furnished
156 by them to the bidder and used in the prosecution of the work provided for in the
157 contract. The bidder shall limit the acceptable performance and payment bonds
158 to the following:

159
160 (a) Legal tender;

161
162 (b) Surety bond underwritten by a company licensed to issue bonds in
163 the State of Hawaii; or

164
165 (c) A certificate of deposit; share certificate; cashier's check; treasurer's
166 check, teller's check drawn by, or a certified check accepted by and payable
167 on demand to the State by a bank savings institution or credit union insured
168 by the Federal Deposit Insurance Corporation (FDIC) or the National Credit
169 Union Administration (NCUA).

170
171 1. The bidder may use these instruments only to a maximum of
172 \$100,000.

173
174 2. If the required security or bond amount totals over \$100,000
175 more than one instrument not exceeding \$100,000 each and issued
176 by different financial institutions shall be acceptable.

177
178 Such bonds shall also by the terms inure to the benefit of any and all
179 persons entitled to file claims for labor done or material furnished in the work so
180 as to give them a right of action as contemplated by HRS Section 103D-324.

181

182 The contract bond required shall be furnished by the Contractor for the term
183 of the contract (12 months). The bond of the contract shall be submitted to the
184 State, or such additional time as may be granted by the State. Such bond for each
185 extended year may be extensions of the original bond by endorsements thereto.
186

187 In as much as the contract to be executed is a price-term, open end, or
188 requirements contract under which the contract price, or total amount to be paid
189 the Contractor cannot be determined at the time the contract is executed, the
190 performance and payment bond amounts required for the work at each Area shall
191 be as follows:

<u>Proposal</u>	<u>Security Amount</u>
A – Area 1	\$10,000,000.00
B – Area 2	\$10,000,000.00
C – Area 3	\$10,000,000.00
D – Area 4	\$10,000,000.00

192
193
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199
200 The State and the Contractor may mutually agree to an adjustment of the
201 bond amount as the scope of work is completed or as negotiated in each work
202 order under the performance of this contract.
203

204 **103.06 Execution of the Contract.** The contract bond and HRS Chapter 104
205 - Compliance Certificate, similar to a copy of the same annexed hereto, shall be
206 executed by the successful bidder and returned within ten days after the award of
207 the contract or within such further time as the Director may allow after the bidder
208 has received the contract for execution.
209

210 The contract shall not bind the Department unless said parties execute the
211 contract and the Director of Finance endorses the bidder's certificate in
212 accordance with HRS Section 103-39.
213

214 **103.07 Failure to Execute Contract.** Failure to execute the contract and file
215 acceptable bonds shall be cause for the cancellation of the award in accordance
216 with Subsection 103.06 - Execution of the Contract. Also, the Contractor forfeits
217 the proposal guaranty which becomes the property of the Department. This is not
218 a penalty, but liquidated damages sustained by the State. The Department may
219 then make award to the next lowest responsible and responsive bidder, or the
220 Department may readvertise and construct the work under contract.”
221
222
223
224
225

END OF SECTION 103

1 **SECTION 104 – SCOPE OF WORK**

2
3 Make the following amendment to said Section:

4
5
6 **(I)** Amend **Subsection 104.01 - Intent of Contract, Duty of Contractor** by
7 adding the following after line 10:

8
9 "Refer to Section 110 – INSTALLATION OF ASPHALT PAVEMENT
10 PRESERVATION, RESURFACING, AND RECONSTRUCTION AT VARIOUS
11 LOCATIONS for further description of work."

12
13 **(II)** Amend **Section 104.06 - Methods of Price Adjustment** as follows:

14
15 **"104.06 Methods of Price Adjustment.**

16
17 (A) Any adjustment in the contract price pursuant to a change or claim
18 shall be made in one or more of the following ways:

19
20 (1) By written agreement on a fixed price adjustment before
21 commencement of the pertinent performance.

22
23 (2) By unit prices or other price adjustments specified in the
24 contract or subsequently agreed upon before commencement of the
25 pertinent performance.

26
27 (3) The Engineer may base the adjustment for a lump sum item
28 on a calculated proportionate unit price. The Engineer will calculate
29 the proportionate unit price by dividing the original contract lump sum
30 price by the actual or original estimated quantity established by the
31 contract documents.

32
33 (4) In any other lawful manner as the parties may mutually agree
34 upon before commencement of the pertinent performance.

35
36 (5) At the sole option of the Engineer, work may be paid for on a
37 force account basis in accordance with Subsection 109.06 - Force
38 Account Provisions and Compensation.

39
40 (6) By the cost variations attributable to the events or situations
41 with adjustment of profit and fee, all as specified in the contract or
42 subsequently agreed upon before commencement of the pertinent
43 performance.

44
45 (7) In the absence of agreement by the parties:
46

47 (a) For change orders with value not exceeding \$50,000
48 by documented actual costs of the work, allowing for
49 overhead and profit as set forth in Section 109.05 -
50 Allowances for Overhead and Profit. A change order shall be
51 issued within fifteen days of submission by the Contractor of
52 proper documentation of completed force account work,
53 whether periodic (conforming to the applicable billing cycle) or
54 final. The Engineer shall return any documentation that is
55 defective, to the Contractor within fifteen days after receipt,
56 with a statement identifying the defect; or

57
58 (b) For change orders with value exceeding \$50,000 by a
59 unilateral determination by the Engineer of the costs
60 attributable to the events or situations with adjustment of profit
61 and fee, all as computed by the Engineer in accordance with
62 applicable sections of HAR Chapters 3-123 and 3-126, and
63 Section 109.05 - Allowances for Overhead and Profit. When
64 a unilateral determination has been made, a unilateral change
65 order shall be issued within ten days. Upon receipt of the
66 unilateral change order, if the Contractor does not agree with
67 any of the terms or conditions, or the adjustment or non-
68 adjustment of the contract time or contract price, the
69 Contractor shall file a notice of intent to claim within thirty days
70 after the receipt of the written unilateral change order. Failure
71 to file a protest within the time specified shall constitute
72 agreement on the part of the Contractor with the terms,
73 conditions, amounts, and adjustment or non-adjustment of the
74 contract time or the contract price set forth in the unilateral
75 change order.

76
77 A Contractor shall be required to submit cost or pricing data if any
78 adjustment in contract price is subject to the provisions of HAR Chapter 3-122,
79 Subchapter 15. A fully executed change order or other document permitting
80 billing for the adjustment in price under any method listed in Subsections 104.06(1)
81 through 104.06(7) shall be issued within ten days after agreement on the method
82 of adjustment."
83

84 **(III) Amend Section 104.11(B) Contractor's Duty to Locate and Protect**
85 **Utility** by adding the following after line 291:

86
87 **(4)** The Contractor shall contact the Hawaii One Call Center at 811 prior
88 to any excavation in a public right of way or on private property."
89

90 **(IV) Amend Subsection 104 - Scope of Work** by adding the following after line
91 318:
92

93 **“104.13 Performance of Work.** The Contractor shall perform work satisfactorily
94 in the judgment of the Engineer during the contract period. If it appears at any time
95 that the work contracted to be performed is not satisfactory, the Engineer may
96 require the Contractor to furnish and place in operation such additional force and
97 equipment as the Engineer shall deem necessary to bring the work up to
98 satisfactory status. In case the Contractor fails to comply after five working days
99 from the date of receipt of such a written order from the Engineer, the Engineer
100 may employ a working force and equipment and charge the Contractor for the
101 reasonable cost thereof including depreciation for equipment or he may terminate
102 the contract.

103
104 **104.14 Contract to be Open-Ended.** The requirement for service to be
105 furnished by the Contractor will be on an “as-needed” basis as called for in these
106 specifications at the applicable unit price bid during the term of this contract and in
107 such numbers as may be required by the State. The unit price bid indicated by the
108 Contractor shall be applicable and binding under the terms of this contract.

109
110 Payment for services will be made by purchase order.”

111
112
113
114
115

END OF SECTION 104

1 **SECTION 105 – CONTROL OF WORK**

2
3 Make the following amendments to said Section:

4
5
6 **(I)** Amend **105.01 – Authority** to read as follows:

7
8 **“105.01 Authority.**

9
10 **(A) Authority of the Engineer.** The Engineer is the representative of
11 the Director and has all the authority of the Director with respect to the
12 contract. The Engineer will make decisions on all questions that may arise
13 regarding the contract, such as, but not limited to:

- 14 (1) Interpretation of the contract documents.
- 15 (2) Acceptability of the materials furnished, and work performed.
- 16 (3) Manner of performance and rate of progress of the work.
- 17 (4) Acceptable fulfillment of the contract on the part of the
18 Contractor.
- 19 (5) Compensation under the contract.

20
21
22
23
24
25
26 The Engineer’s decisions on questions, claims, and disputes will be
27 final and conclusive subject to Subsection 107.15 – Disputes and Claims.

28
29 The Engineer may delegate specific authority to act for the Engineer
30 to a specific person or persons. Such delegation of authority shall be
31 established in writing and shall become effective upon delivery to the
32 Contractor.

33
34 **(B) Authority of the Inspectors.** Inspectors, as a representative of the
35 Engineer or other agencies, will inspect the work done and materials
36 furnished. Such inspection may extend to the preparation, fabrication, or
37 manufacture of the materials to be used. The Inspector does not have
38 authority vested in the Engineer unless specifically delegated in writing.
39 The Inspector may not alter or waive the provisions of the contract, issue
40 instructions contrary to the contract, or act as agent or representative of the
41 Contractor.

42
43 Failure of an Inspector at any time to reject non-conforming work
44 shall not be considered a waiver of the State’s right to require work in strict
45 conformity with the contract documents as a condition of final acceptance.
46

47 **(C) Authority of the Consultant and Construction Management.** The
48 State may engage consultants and construction managements to perform
49 duties in connection with the work. Unless otherwise specified in writing to
50 the Contractor, such retained consultants and construction managements
51 shall have no greater authority than an Inspector.”

52
53 **(II) Amend Subsection 105.02 - Submittals** by revising the first paragraph
54 from lines 52 to 61 to read as follows:

55
56 **“105.02 Submittals.** The contract contains the description of various items that
57 the Contractor must submit to the Engineer for review and acceptance. The
58 Contractor shall review all submittals for correctness, conformance with the
59 requirements of the contract documents and completeness before submitting them
60 to the Engineer. The submittal shall indicate the contract items and specifications
61 subsections for which the submittal is provided. The submittal shall be legible and
62 clearly indicate what portion of the submittal is being submitted for review. The
63 Contractor shall provide six copies of the required submissions at the earliest
64 possible date.”

65
66 **(III) Amend Subsection 105.08 (A) - Furnishing Drawings and Special**
67 **Provisions** to read as follows:

68
69 **“(A) Furnishing Drawings and Special Provisions.** The State will
70 furnish the Contractor an electronic set of the special provisions and plans.”

71
72 **(IV) Amend 105.11 – Inspection of the Work and Materials** by adding the
73 following paragraph after line 366:

74
75 All materials generated within the project site are considered solid
76 waste. Solid waste shall be disposed of in accordance with Hawaii State
77 Law HAR 11-58.1 and HRS Section 342H to the facility listed on the Solid
78 Waste Disclosure Form. The contractor shall request and receive written
79 approval from the Engineer before reusing any material in any other way
80 than disposal.

81
82 **(V) Amend Subsection 105.14(D) – No Designated Storage Area** from lines
83 421 to 432 to read as follows:

84
85 **“(D) No Designated Storage Area.** If no storage area is designated
86 within the contract documents, materials and equipment may be stored
87 anywhere within the State highway right-of-way, provided such storage and
88 access to and from such site, within the sole discretion of the Engineer,
89 does not create a public or traffic hazard or an impediment to the movement
90 of traffic.”

91

92 (VI) Amend **Subsection 105.16(B) – Substituting Subcontractors** from line
93 487 to line 494 to read:

94

95 (B) **Substituting Subcontractors.** Under HRS Chapter 103D-302, the
96 Contractor is required to list the names of persons or firms to be engaged
97 by the Contractor as a subcontractor or joint contractor in the performance
98 of the contract. No subcontractor may be added or deleted, unless
99 authorized by the Engineer. Substitutions will be allowed only if the
100 subcontractor:

101

102

103

104

105

END OF SECTION 105

1 **SECTION 106 – MATERIAL RESTRICTIONS AND REQUIREMENTS**

2

3 Make the following amendment to said Section:

4

5 **(I)** Amend **106.05(B) – Deviation** by revising the third sentence from line 106
6 to 108 to read as follows:

7

8 “Any deviations will be subject to Subsection 102.13 – Substitution of Materials
9 and Equipment Before Bid Opening.

10

11

12

13

14

15

END OF SECTION 106

1 **SECTION 107 - LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC**

2
3 Make the following amendments to said Section:

4
5 **(I)** Amend **Section 107.01 Insurance Requirements** from lines 5 to 81 to
6 read as follows:

7
8 **“(A) Obligation of Contractor.** Contractor shall not commence any
9 work until it obtains, at its own expense, all required insurance described
10 herein. Such insurance shall be provided by an insurance company
11 authorized by the laws of the State to issue such insurance in the State of
12 Hawaii. Coverage by a “Non-Admitted” carrier is permissible provided the
13 carrier has a Best’s Rating of “A-VII” or better. The Contractor shall
14 maintain and ensure all insurance policies are current for the full period of
15 the contract until final acceptance of the work by the State.

16
17 The Certificate of Insurance shall contain: a clause that it is agreed
18 that any insurance maintained by the State of Hawaii will apply in excess
19 of, and not contribute with, insurance provided by this policy; and shall be
20 accompanied by endorsement form CG2010 or equivalent naming the
21 State as an additional insured to the policy which status shall be
22 maintained for the full period of the contract until final acceptance of the
23 work by State.

24
25 The Contractor shall obtain all required insurance as part of the
26 contract price. Where there is a requirement for the State of Hawaii and
27 its officers and employees to be named as additional insureds under any
28 Contractor’s insurance policy, before the State of Hawaii issues the Notice
29 to Proceed, the Contractor shall obtain and submit to the Engineer a
30 Certificate of Insurance and a written policy endorsement that confirms the
31 State of Hawaii and its officers and employees are additional insureds for
32 the specific State project number and project title under such insurance
33 policies. The written policy endorsement must be issued by the insurance
34 company insuring the Contractor for the specified policy type or by an
35 agent of such insurance company who is vested with the authority to issue
36 a written policy endorsement. The insurer’s agent shall also submit
37 written confirmation of such authority to bind the insurer. Any delays in
38 the issuance of the Notice to Proceed attributed to the failure to obtain the
39 proof of the State of Hawaii and its officers and employees’ additional
40 insured status shall be charged to the Contractor.

41
42 A mere Certificate of Insurance issued by a broker who represents
43 the Contractor (but not the Contractor’s insurer), or by any other party who
44 is not authorized to contractually name the State as an additional insured
45 under the Contractor’s insurance policy, is not sufficient to meet the
46 Contractor’s insurance obligations.

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Certificates shall contain a provision that coverages being certified will not be cancelled or materially changed without giving the Engineer at least thirty (30) days prior written notice. Contractor will immediately provide written notice to the Director should any of the insurance policies evidenced on its Certificate of Insurance form be cancelled, reduced in scope or coverage, or not renewed upon expiration. Should any policy be canceled before final acceptance of the work by the State, and the Contractor fails to immediately procure replacement insurance as specified, the State, in addition to all other remedies it may have for such breach, reserves the right to procure such insurance and deduct the cost thereof from any money due or to become due to the Contractor.

Nothing contained in these insurance requirements is to be construed as limiting the extent of Contractor's responsibility for payment of damages resulting from its operations under this contract, including the Contractor's obligation to pay liquidated damages, nor shall it affect the Contractor's separate and independent duty to defend, indemnify and hold the State harmless pursuant to other provisions of this contract. In no instance will the State's exercise of an option to occupy and use completed portions of the work relieve the Contractor of its obligation to maintain the required insurance until the date of final acceptance of the work.

All insurance described herein shall be primary and cover the insured for all work to be performed under the contract, all work performed incidental thereto or directly or indirectly connected therewith, including but not limited to traffic detour work, barricades, warnings, diversions, lane closures, and other work performed outside the work area and all change order work.

The Contractor shall, from time to time, furnish the Engineer, when requested, satisfactory proof of coverage of each type of insurance required covering the work. Failure to comply with the Engineer's request may result in suspension of the work, and shall be sufficient grounds to withhold future payments due the Contractor and to terminate the contract for Contractor's default.

(B) Types of Insurance. Contractor shall purchase and maintain insurance described below which shall provide coverage against claims arising out of the Contractor's operations under the contract, whether such operations be by the Contractor itself or by any subcontractor or by anyone directly or indirectly employed by any of them or by anyone for whose acts any of them may be liable.

92 (1) **Workers' Compensation.** The Contractor shall obtain
93 worker's compensation insurance for all persons whom they
94 employ in carrying out the work under this contract. This insurance
95 shall be in strict conformity with the requirements of the most
96 current and applicable State of Hawaii Worker's Compensation
97 Insurance laws in effect on the date of the execution of this contract
98 and as modified during the duration of the contract.
99

100 (2) **Auto Liability.** The Contractor shall obtain Auto Liability
101 Insurance covering all owned, non-owned and hired autos with a
102 Combined single Limit of not less than \$1,000,000 per occurrence
103 for bodily injury and property damage with the State of Hawaii
104 named as additional insured. Refer to SPECIAL CONDITIONS for
105 any additional requirements.
106

107 (3) **General Liability.** The Contractor shall obtain General
108 Liability insurance with a limit of not less than \$2,000,000 per
109 occurrence and in the Aggregates for each of the following:
110

- 111 (a) Products - Completed/Operations Aggregate,
- 112
- 113 (b) Personal & Advertising Injury, and
- 114
- 115 (c) Bodily Injury & Property Damage
116

117 The General Liability insurance shall include the State as an
118 Additional Insured. The required limit of insurance may be provided
119 by a single policy or with a combination of primary and excess
120 policies. Refer to SPECIAL CONDITIONS for any additional
121 requirements.
122

123 (4) **Builders Risk For All Work.** The Contractor shall take out
124 a policy of builder's risk insurance for the full replacement value of
125 the project work; from a company licensed or otherwise authorized
126 to do business in the State of Hawaii; naming the State as an
127 additional insured under each policy; and covering all work, labor,
128 and materials furnished by such Contractor and all its
129 subcontractors against loss by fire, windstorm, tsunamis,
130 earthquakes, lightning, explosion, other perils covered by the
131 standard Extended Coverage Endorsement, vandalism, and
132 malicious mischief. Refer to SPECIAL CONDITIONS for any
133 additional requirements."
134
135
136
137

END OF SECTION 107

1 Amend **Section 108 – PROSECUTION AND PROGRESS** to read as follows:

2
3 **“SECTION 108 – PROSECUTION AND PROGRESS**

4
5
6 **108.01 Notice to Proceed (NTP).** A Notice To Proceed will be issued to the
7 Contractor for the Contract.

8
9 Separate Start Work Dates will be issued to the Contractor for each work
10 order created. The Start Work Date issued for the work order will begin charging
11 of time specified to complete the work order. Time specified to complete the work
12 order will be followed in accordance with Subsection 108.05 - Contract Time.
13 Liquidated damages for each work order will be enforced in accordance with
14 Subsection 108.08 - Liquidated Damages for Failure to Complete the Work or
15 Portions of the Work on Time.

16
17 In the event that the Contractor fails to start physical work within the time
18 specified, the Engineer may terminate the contract in accordance with Subsection
19 108.11 – Termination of Contract for Cause.

20
21 During the period between the issuance of a work order and the Start Work
22 Date the Contractor should adjust work forces, equipment, schedules, and procure
23 materials and required permits, prior to beginning physical work.

24
25 Any physical work done prior to the Start Work Date will be considered
26 unauthorized work. If the Engineer does not direct that the unauthorized work be
27 removed, it shall be paid for after the Start Work Date and only if it is acceptable.

28
29 The Contractor shall notify the Engineer at least 24 hours before restarting
30 physical work after a suspension of work pursuant to Subsection 108.10 –
31 Suspension of Work.

32
33 Once physical work has begun, the Contractor shall work expeditiously and
34 pursue the work diligently to completion with the contract time. If a portion of the
35 work is to be done in stages, the Contractor shall leave the area safe and usable
36 for the user agency and the public at the end of each stage.

37
38 **108.02 Prosecution of Work.** Unless otherwise permitted by the Engineer, in
39 writing, the Contractor shall not commence with physical construction unless
40 sufficient materials and equipment are available for either continuous construction
41 or completion of a specified portion of the work.

42
43 **108.03 Preconstruction Submittals.** The awardee shall submit to the
44 Engineer for information and review the pre-construction submittals within 21
45 calendar days from award. Until the items listed below are received and found
46 acceptable by the Engineer, the Contractor shall not start physical work unless

47 otherwise authorized to do so in writing and subject to such conditions set by the
48 Engineer. Charging of Contract Time will not be delayed, and additional contract
49 time will not be granted due to Contractor delay in submitting acceptable
50 preconstruction submittals. No progress payment will be made to the Contractor
51 until the Engineer acknowledges, in writing, receipt of the following preconstruction
52 submittals acceptable to the Engineer:

53
54 (1) List of the Superintendent and other Supervisory Personnel, and
55 their contact information.

56
57 (2) Name of person(s) authorized to sign for the Contractor.

58
59 (3) Work Schedule including hours of operation.

60
61 (4) Initial Progress Schedule (See Subsection 108.06 – Progress
62 Schedule).

63
64 (5) Water Pollution and Siltation Control Submittals, including Site-
65 Specific Best Management Practice Plan.

66
67 (6) Solid Waste Disposal form.

68
69 (7) Tax Rates.

70
71 (8) Insurance Rates.

72
73 (9) Certificate of Insurance, satisfactory to the Engineer, indicating that
74 the Contractor has in place all insurance coverage required by the contract
75 documents.

76
77 (10) Schedule of agreed prices.

78
79 (11) List of suppliers.

80
81 (12) Traffic Control Plan, if applicable.

82
83 **108.04 Character and Proficiency of Workers.** The Contractor shall at all
84 times provide adequate supervision and sufficient labor and equipment for
85 prosecuting the work to full completion in the manner and within the time required
86 by the contract. The superintendent and all other representatives of the Contractor
87 shall act in a civil and honest manner in all dealings with the Engineer, all other
88 State officials and representatives, and the public, in connection with the work.

89 All workers shall possess the proper license, certification, job classification,
90 skill, training, and experience necessary to properly perform the work assigned to
91 them.

92

93 The Engineer may direct the removal of any worker(s) who does not carry
94 out the assigned work in a proper and skillful manner or who is disrespectful,
95 intemperate, violent, or disorderly. The worker shall be removed forthwith by the
96 Contractor and will not work again without the written permission of the Engineer.
97

98 **108.05 Contract Time.**
99

100 **(A) Calculation of Contract Time.** When the contract time is on a
101 working day basis, the total contract time allowed for the performance of the
102 work will be the number of working days shown in the contract plus any
103 additional working days authorized in writing as provided hereinafter. The
104 count of elapsed working days to be charged against contract time, will
105 begin from the Start Work Date and will continue consecutively to the date
106 of Substantial Completion. When multiple shifts are used to perform the
107 work, the State will not consider the hours worked over the normal eight
108 working hours per day or night as an additional working day.
109

110 When the contract is on a calendar day basis, the total contract time
111 allowed for the performance of the work will be the number of days shown
112 in the contract plus any additional days authorized in writing as provided
113 hereinafter. The count of elapsed days to be charged against contract time
114 will begin from the Start Work Date and will continue consecutively to the
115 date of Substantial Completion. The Engineer will exclude days elapsing
116 between the orders of the Engineer to suspend work and resume work for
117 suspensions not the fault of the Contractor.
118

119 **(B) Modifications of Contract Time.** Whenever the Contractor
120 believes that an extension of contract time is justified, the Contractor shall
121 serve written notice on the Engineer not more than five working days after
122 the occurrence of the event that causes a delay or justifies a contract time
123 extension. Contract time may be adjusted for the following reasons or
124 events, but only if and to the extent the critical path has been affected:
125

126 **(1) Changes in the Work, Additional Work, and Delays**
127 **Caused by the State.** If the Contractor believes that an extension
128 of time is justified on account of any act or omission by the State and
129 is not adequately provided for in a field order or change order, it must
130 request the additional time as provided above. At the request of the
131 Engineer, the Contractor must show how the critical path will be
132 affected and must also support the time extension request with
133 schedules, as well as statements from its subcontractors, suppliers,
134 or manufacturers, as necessary. Claims for compensation for any
135 altered or additional work will be determined pursuant to Subsection
136 104.02 – Changes.

137
138 Additional time to perform the extra work will be added to the
139 time allowed in the contract without regard to the date the change
140 directive was issued, even if the contract completion date has
141 passed. A change requiring time issued after contract time has
142 expired will not constitute an excusal or waiver of pre-existing
143 Contractor delay.

144
145 **(2) Delay for Permits.** For delays in the routine application and
146 processing time required to obtain necessary permits, including
147 permits to be obtained from State agencies, the Engineer may grant
148 an extension provided that the permit takes longer than 30 days to
149 acquire and the delay is not caused by the Contractor, and provided
150 that as soon as the delay occurs, the Contractor notifies the Engineer
151 in writing that the permits are not available. Permits required by the
152 contract that take less than 30 days to acquire from the time which
153 the appropriate documents are granted shall be acquired between
154 Notice to Proceed and Start Work Date or accounted for in the
155 contractor's progress schedule. Time extensions will be the
156 exclusive relief granted on account of such delays.

157
158 **(3) Delays Beyond Contractor's Control.** For delays caused
159 by acts of God, a public enemy, fire, inclement weather days or
160 adverse conditions resulting therefrom, earthquakes, floods,
161 epidemics, quarantine restrictions, labor disputes impacting the
162 Contractor or the State, freight embargoes and other reasons
163 beyond the Contractor's control, the Contractor may be granted an
164 extension of time provided that:

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166 **(a)** In the written notice of delay to the Engineer, the
167 Contractor describes possible effects on the completion date
168 of the contract. The description of delays shall:
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1. State specifically the reason or reasons for the delay and fully explain in a detailed chronology how the delay affects the critical path.
2. Include copies of pertinent documentation to support the time extension request.
3. Cite the anticipated period of delay and the time extension requested.
4. State either that the above circumstances have been cleared and normal working conditions restored as of a certain day or that the above circumstances will continue to prevent completion of the project.

(b) The Contractor shall notify the Engineer in writing when the delay ends. Time extensions will be the exclusive relief granted and no additional compensation will be paid the Contractor for such delays.

(4) Delays in Delivery of Materials or Equipment. For delays in delivery of materials or equipment, which occur as a result of unforeseeable causes beyond the control and without fault of the Contractor, its subcontractor(s) or supplier(s), time extensions shall be the exclusive relief granted and no additional compensation will be paid the Contractor on account of such delay. The delay shall not exceed the difference between the originally scheduled delivery date and the actual delivery date. The Contractor may be granted an extension of time provided that it complies with the following procedures:

(a) The Contractor's written notice to the Engineer must describe the delays and state the effect such delays may have on the critical path.

(b) The Contractor, if requested, must submit to the Engineer within five days after a firm delivery date for the material and equipment is established, a written statement regarding the delay. The Contractor must justify the delay as follows:

1. State specifically all reasons for the delay. Explain in a detailed chronology the effect of the delay on the critical path.

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2. Submit copies of purchase order(s), factory invoice(s), bill(s) of lading, shipping manifest(s), delivery tag(s), and any other documents to support the time extension request.

3. Cite the start and end date of the delay and the time extension requested.

(5) Delays for Suspension of Work. When the performance of the work is totally suspended for one or more days (calendar or working days, as appropriate) by order of the Engineer in accordance with Subsections 108.10(A)(1), 108.10(A)(2), or 108.10(A)(5) the number of days from the effective date of the Engineer’s order to suspend operations to the effective date of the Engineer’s order to resume operations shall not be counted as contract time and the contract completion date will be adjusted. During periods of partial suspensions of the work, the Contractor will be granted a time extension only if the partial suspension affects the critical path. If the Contractor believes that an extension of time is justified for a partial suspension of work, it must request the extension in writing at least five working days before the partial suspension will affect the critical operation(s) in progress. The Contractor must show how the critical path was increased based on the status of the work and must also support its claim if requested, with statements from its subcontractors. A suspension of work will not constitute a waiver of pre-existing Contractor delay.

(6) Contractor Caused Delays. No time extension will be granted under the following circumstances:

(a) Delays within the Contractor’s control in performing the work caused by the Contractor, subcontractor, supplier, or any combination thereof.

(b) Delays within the Contractor’s control in arrival of materials and equipment caused by the Contractor, subcontractor, supplier, or any combination thereof, in ordering, fabricating, and delivery.

(c) Delays requested for changes which do not affect the critical path.

257 (d) Delays caused by the failure of the Contractor to make
258 submittals in a timely manner for review and acceptance by
259 the Engineer, such as but not limited to shop drawings,
260 descriptive sheets, material samples, and color samples
261 except as covered in Subsection 108.05(B)(3) – Delays
262 Beyond Contractor’s Control and 108.05(B)(4) – Delays in
263 Delivery of Materials or Equipment.

264
265 (e) Delays caused by the failure to submit sufficient
266 information and data in a timely manner in the proper form in
267 order to obtain necessary permits related to the work.

268
269 (f) Failure to follow the procedure within the time allowed
270 by contract to request a time extension.

271
272 (g) Failure of the Contractor to provide evidence sufficient
273 to support the time extension request.

274
275 (7) **Reduction in Time.** If the State deletes or modifies any
276 portion of the work, an appropriate reduction of contract time may be
277 made in accordance with Subsection 104.02 - Changes.

278
279 **108.06 Progress Schedules.**

280
281 (A) **Forms of Schedule.** All schedules shall be submitted using the
282 specific computer program designated in the bid documents. If no such
283 scheduling software program is designated, then all schedules shall be
284 submitted using the latest version of Microsoft Project by Microsoft or
285 approved equivalent software program.

286
287 Schedule submittals shall be as follows:

288
289 (1) **For Contracts \$2,000,000 or less or For Contract Time 100**
290 **Working Days or 140 Calendar Days or Less.** For contracts of
291 \$2,000,000 or less or for contract time of 100 working days or 140
292 calendar days or less, the progress schedule will be a Time Scaled
293 Logic Diagram (TSLD). The Contractor shall submit a TSLD
294 submittal package meeting the following requirements and having
295 these essential and distinctive elements:

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(a) The major features of work, such as but not limited to BMP installation, grubbing, roadway excavation, structure excavation, structure construction, shown in the chronological order in which the Contractor proposes to work that feature or work and its location on the project. The schedule shall account for normal inclement weather, unusual soil or other conditions that may influence the progress of the work, schedules, and coordination required by any utility, off or on-site fabrications, and other pertinent factors that relate to progress;

(b) All features listed or not listed in the contract documents that the Contractor considers a controlling factor for the timely completion of the contract work.

(c) The time span and sequence of the activities or events for each feature, and its interrelationship and interdependencies in time and logic to other features in order to complete the project.

(d) The total anticipated time necessary to complete work required by the contract.

(e) A chronological listing of critical intermediate dates or time periods for features or milestones or phases that can affect timely completion of the project.

(f) Major activities related to the location on the project.

(g) Non-construction activities, such as submittal and acceptance periods for shop drawings and material, procurement, testing, fabrication, mobilization, and demobilization or order dates of long lead material.

(h) Set schedule logic for out of sequence activities to retain logic. In addition, open ends shall be non-critical.

(i) Show target bars for all activities.

(j) Vertical and horizontal sight lines both major and minor shall be used as well as a separator line between groups. The Engineer will determine frequency and style.

(k) The file name, print date, revision number, data and project title and number shall be included in the title block.

343 (l) Have columns with the appropriate data in them for
344 activity ID, description, original duration, remaining duration,
345 early start, early finish, total float, percent complete,
346 resources. The resource column shall list who is responsible
347 for the work to be done in the activity. These columns shall
348 be to the left of the bar chart.
349

350 **(2) For Contracts Which Have A Contract Amount More Than**
351 **\$2,000,000 Or Having A Contract Time Of More Than 100**
352 **Working Days Or 140 Calendar Days.** For contracts which have a
353 contract amount more than \$2,000,000 or contract time of more than
354 100 working days or 140 calendar days, the Contractor shall submit
355 a Timed-Scaled Logic Diagram (TSLD) meeting the following
356 requirements and having these essential and distinctive elements:
357

358 (a) The information and requirements listed in Subsection
359 108.06(A)(1) – For Contracts \$2,000,000 or Less or For
360 Contract Time 100 Working Days or 140 Calendar Days or
361 Less.
362

363 (b) Additional reports and graphics available from the
364 software as requested by the Engineer.
365

366 (c) Sufficient detail to allow at least weekly monitoring of
367 the Contractor and subcontractor's operations.
368

369 (d) The time scaled schematic shall be on a calendar or
370 working days basis. What will be used shall be determined by
371 how the contract keeps track of time. It will be the same. Plot
372 the critical calendar dates anticipated.
373

374 (e) Breakdown of activity, such as forming, placing
375 reinforcing steel, concrete pouring and curing, and stripping in
376 concrete construction. Indicate location of work to be done in
377 such detail that it would be easily determined where work
378 would be occurring within approximately 200 feet.
379

380 (f) Latest start and finish dates for critical path activities.
381

382 (g) Identify responsible subcontractor, supplier, and others
383 for their respective activity.
384

385 (h) No individual activity shall have duration of more than
386 20 calendar days unless requested and approved by the
387 Engineer.
388

389 (i) All activities shall have work breakdown structure
390 codes and activity codes. The activity codes shall have
391 coding that incorporates information for phase, location, who
392 is responsible for doing work and type of operation and activity
393 description.

394
395 (j) Incorporate all physical access and availability
396 restraints.

397
398 **(B) Inspection and Testing.** All schedules shall provide reasonable
399 time and opportunity for the Engineer to inspect and test each work activity.
400

401 **(C) Engineer's Acceptance of Progress Schedule.** The submittal of,
402 and the Engineer's receipt of any progress schedule, shall not be deemed
403 an agreement to modify any terms or conditions of the contract. Any
404 modifications to the contract terms and conditions that appear in or may be
405 inferred from an acceptable schedule will not be valid or enforceable unless
406 and until the Engineer exercises discretion to issue an appropriate change
407 order. Nor shall any submittal or receipt imply the Engineer's approval of
408 the schedule's breakdown, its individual elements, any critical path that may
409 be shown, nor shall it obligate the State to make its personnel available
410 outside normal working hours or the working hours established by the
411 Contract in order to accommodate such schedule. The Contractor has the
412 risk of all elements (whether or not shown) of the schedule and its
413 execution. No claim for additional compensation, time, or both, shall be
414 made by the Contractor or recognized by the Engineer for delays during any
415 period for which an acceptable progress schedule or an updated progress
416 schedule as required by Subsection 108.06(E) – Contractor's Continuing
417 Schedule Submittal Requirements had not been submitted. Any
418 acceptance or approval of the schedule shall be for general format only and
419 shall not be deemed an agreement by the State that the construction
420 means, methods, and resources shown on the schedule will result in work
421 that conforms to the contract requirements or that the sequences or
422 durations indicated are feasible.

423
424 **(D) Initial Progress Schedule.** The Contractor shall submit an initial
425 progress schedule. The initial progress schedule shall consist of the
426 following:

427
428 (1) Four sets of the TSLD schedule.

429
430 (2) All the software files and data to re-create the TSLD in a
431 computerized software format as specified by the Engineer.
432

433 (3) A listing of equipment that is anticipated to be used on the
434 project. Including the type, size, make, year of manufacture, and all
435 information necessary to identify the equipment in the Rental Rate
436 Blue Book for Construction Equipment.

437
438 (4) An anticipated manpower requirement graph plotting contract
439 time and total manpower requirement. This may be superimposed
440 over the payment graph.

441
442 (5) A Method Statement that is a detailed narrative describing the
443 work to be done and the method by which the work shall be
444 accomplished for each major activity. A major activity is an activity
445 that:

446
447 (a) Has a duration longer than five days.

448
449 (b) Is a milestone activity.

450
451 (c) Is a contract item that exceeds \$10,000 on the contract
452 cost proposal.

453
454 (d) Is a critical path activity.

455
456 (e) Is an activity designated as such by the Engineer.

457
458 Each Method Statement shall include the following items
459 needed to fulfill the schedule:

460
461 (a) Quantity, type, make, and model of equipment.

462
463 (b) The manpower to do the work, specifying worker
464 classification.

465
466 (c) The production rate per eight-hour day, or the working
467 hours established by the contract documents needed to meet
468 the time indicated on the schedule. If the production rate is
469 not for eight hours, the number of working hours shall be
470 indicated.

471
472 (6) Two sets of color time-scaled project evaluation and review
473 technique charts ("PERT") using the activity box template of Logic –
474 Early Start or such other template designated by the Engineer.

475
476 If the contract documents establish a sequence or order for the work,
477 the initial progress schedule shall conform to such sequence or order.

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(E) Contractor’s Continuing Schedule Submittal Requirements.

After the acceptance of the initial TSLD and when construction starts, the Contractor shall submit four plotted progress schedules, two PERT charts, and reports on all construction activities every two weeks (bi-weekly). This scheduled bi-weekly submittal shall also include an updated version of the project schedule in a computerized software format as specified by the Engineer. The submittal shall have all the information needed to re-create that time period’s TSLD plot and reports. The bi-weekly submittal shall include, but not limited to, an update of activities based on actual durations, all new activities and any changes in duration or start or finish dates of any activity.

The Contractor shall submit with every update, in report form acceptable to the Engineer, a list of changes to the progress schedule since the previous schedule submittal. The Engineer may change the frequency of the submittal requirements but may not require a submittal of the schedule to be more than once a week. The Engineer may decrease the frequency of the submittal of the bi-weekly schedule.

The Contractor shall submit updates of the anticipated work completion graph, equipment listing, manpower requirement graph or method statement when requested by the Engineer. The Contractor shall submit such updates within 4 calendar days from the date of the request by the Engineer.

The Engineer may withhold progress payment until the Contractor is in compliance with all schedule update requirements.

(F) Float. All float appearing on a schedule is a shared commodity. Float does not belong to or exist for the exclusive use or benefit of either the State or the Contractor. The State or the Contractor has the opportunity to use available float until it is depleted. Float has no monetary value.

(G) Scheduled Meetings. The Contractor shall meet on a bi-weekly basis with the Engineer to review the progress schedule. The Contractor shall have someone attending the meeting that can answer all questions on the TSLD and other schedule related submittals.

517 **(H) Accelerated Schedule; Early Completion.** If the Contractor
518 submits an accelerated schedule (shorter than the contract time), the
519 Engineer's review and acceptance of an accelerated schedule does not
520 constitute an agreement or obligation by the State to modify the contract
521 time or completion date. The Contractor is solely responsible for and shall
522 accept all risks and any delays, other than those that can be directly and
523 solely attributable to the State, that may occur during the work, until the
524 contract completion date. The contract time or completion date is
525 established for the benefit of the State and cannot be changed without an
526 appropriate change order or Substantial Completion granted by the State.
527 The State may accept the work before the completion date is established,
528 but is not obligated to do so.

529
530 If the TSLD indicates an early completion of the project, the
531 Contractor shall, upon submittal of the schedule, cooperate with the
532 Engineer in explaining how it will be achieved. In addition, the Contractor
533 shall submit the above explanation in writing which shall include the State's
534 part, if any, in achieving the early completion date. Early completion of the
535 project shall not rely on changes to the Contract Documents unless
536 approved by the Engineer.

537
538 **(I) Contractor Responsibilities.** The Contractor shall promptly
539 respond to any inquiries from the Engineer regarding any schedule
540 submission. The Contractor shall adjust the schedule to address directives
541 from the Engineer and shall resubmit the TSLD package to the Engineer
542 until the Engineer finds it acceptable.

543
544 The Contractor shall perform the work in accordance with the
545 submitted TSLD. The Engineer may require the Contractor to provide
546 additional work forces and equipment to bring the progress of the work into
547 conformance with the TSLD at no increase in contract price or contract time
548 whenever the Engineer determines that the progress of the work does not
549 insure completion within the specified contract time.

550
551 **108.07 Weekly Meeting.** In addition to the bi-weekly schedule meetings, the
552 Contractor shall be available to meet once a week with the Engineer at the time
553 and place as determined by the Engineer to discuss the work and its progress
554 including but not limited to, the progress of the project, potential problems,
555 coordination of work, submittals, erosion control reports, etc. The Contractor's
556 personnel attending shall have the authority to make decisions and answer
557 questions.

558

559 The Contractor shall bring to weekly meetings a detailed work schedule
560 showing the next three weeks' work. Number of copies of the detailed work
561 schedule to be submitted will be determined by the Engineer. The three-week
562 schedule is in addition to the TSLD and shall in no way be considered as a
563 substitute for the TSLD or vice versa. The three-week schedule shall show:
564

565 (a) All construction events, traffic control and BMP related activities in
566 such detail that the Engineer will be able to determine at what location and
567 type of work will be done for any day for the next three weeks. This is for
568 the State to use to plan its manpower requirements for that time period.
569

570 (b) The duration of all events and delays.
571

572 (c) The critical path clearly marked in red or marked in a manner that
573 makes it clearly distinguishable from other paths and is acceptable to the
574 Engineer.
575

576 (d) Critical submittals and requests for information (RFI's).
577

578 (e) The project title, project number, date created, period the schedule
579 covers, Contractor's name and creator of the schedule on each page.
580

581 Two days prior to each weekly meeting, the Contractor shall submit
582 a list of outstanding submittals, RFIs and issues that require discussion.
583

584 **108.08 Liquidated Damages for Failure to Complete the Work or Portions**
585 **of the Work on Time.** The actual amount of damages resulting from the
586 Contractor's failure to complete the contract in a timely manner is difficult to
587 accurately determine. Therefore, the amount of such damages shall be liquidated
588 damages as set forth herein and in the special provisions. The State may, at its
589 discretion, deduct the amount from monies due or that may become due under the
590 contract.
591

592 When the Contractor fails to reach substantial completion of the work for
593 which liquidated damages are specified, within the time or times fixed in the
594 contract or any extension thereof, in addition to all other remedies for breach that
595 may be available to the State, the Contractor shall pay liquidated damages to the
596 State, in the amount of \$5,000 per working day.
597

598 (A) **Liquidated Damages Upon Termination.** If the State terminates
599 on account of Contractor's default, liquidated damages may be charged
600 against the defaulting Contractor and its surety until final completion of
601 work.
602

603 **(B) Liquidated Damages for Failure to Complete the Punchlist.** The
604 Contractor shall complete the work on any punchlist created after the pre-
605 final inspection, within the contract time or any extension thereof.
606

607 When the Contractor fails to complete the work on such punchlist
608 within the contract time or any extension thereof, the Contractor shall pay
609 liquidated damages to the State of 20 percent of the amount of liquidated
610 damages established for failure to substantially complete the work within
611 contract time. Liquidated damages shall not be assessed for the period
612 between:

613
614 **(1)** Notice from the Contractor that the project is substantially
615 complete and the time the punchlist is delivered to the Contractor.
616

617 **(2)** The date of the completion of punchlist as determined by the
618 Engineer and the date of the successful final inspection, and
619

620 **(3)** The date of the Final Inspection that results in Substantial
621 Completion and the receipt by the Contractor of the written notice of
622 Substantial Completion.
623

624 **(C) Actual Damages Recoverable If Liquidated Damages Deemed**
625 **Unenforceable.** In the event a court of competent jurisdiction holds that
626 any liquidated damages assessed pursuant to this contract are
627 unenforceable, the State will be entitled to recover its actual damages for
628 Contractor's failure to complete the work, or any designated portion of the
629 work within the time set by the contract.
630

631 **108.09 Rental Fees for Unauthorized Lane Closure or Occupancy.** In
632 addition to all other remedies available to the State for Contractor's breach of the
633 terms of the contract, the Engineer will assess the rental fees in the amount of
634 \$2,500 for every one- to fifteen-minute increment for each roadway lane closed to
635 public use or occupied beyond the time periods authorized in the contract or by the
636 Engineer. The State may, at its discretion, deduct the amount from monies due or
637 that may become due under the contract. The rental fee may be waived in whole
638 or part if the Engineer determines that the unauthorized period of lane closure or
639 occupancy was due to factors beyond the control of the Contractor. Equipment
640 breakdown is not a cause to waive liquidated damages.
641

642 **108.10 Suspension of Work.**
643

644 **(A) Suspension of Work.** The Engineer may, by written order, suspend
645 the performance of the work, either in whole or in part, for such periods as
646 the Engineer may deem necessary, for any cause, including but not limited
647 to:
648

- 649 (1) Weather or soil conditions considered unsuitable for
650 prosecution of the work.
651
- 652 (2) Whenever a redesign that may affect the work is deemed
653 necessary by the Engineer.
654
- 655 (3) Unacceptable noise or dust arising from the construction even
656 if it does not violate any law or regulation.
657
- 658 (4) Failure on the part of the Contractor to:
659
- 660 (a) Correct conditions unsafe for the general public or for
661 the workers.
662
- 663 (b) Carry out orders given by the Engineer.
664
- 665 (c) Perform the work in strict compliance with the
666 provisions of the contract.
667
- 668 (d) Provide adequate supervision on the jobsite.
669
- 670 (5) The convenience of the State.
671
- 672 **(B) Partial and Total Suspension.** Suspension of work on some but
673 not all items of work shall be considered a “partial suspension”. Suspension
674 of work on all items shall be considered “total suspension”. The period of
675 suspension shall be computed from the date set out in the written order for
676 work to cease until the date of the order for work to resume.
677
- 678 **(C) Reimbursement to Contractor.** In the event that the Contractor is
679 ordered by the Engineer in writing as provided herein to suspend all work
680 under the contract for the reasons specified in Subsections 108.10(A)(2),
681 108.10(A)(3), or 108.10(A)(5) of the “Suspension of Work” paragraph, the
682 Contractor may be reimbursed for actual direct costs incurred on work at
683 the jobsite, as authorized in writing by the Engineer, including costs
684 expended for the protection of the work. An allowance of 5 percent for
685 indirect categories of delay costs will be paid on any reimbursed direct
686 costs, including extended branch and home-office overhead and delay
687 impact costs. No allowance will be made for anticipated profits. Payment
688 for equipment which is ordered to standby during such suspension of work
689 shall be made as described in Subsection 109.06(H) - Idle and Standby
690 Equipment.
691
- 692 **(D) Cost Adjustment.** If the performance of all or part of the work is
693 suspended for reasons beyond the control of the Contractor except an
694 adjustment shall be made for any increase in cost of performance of this

695 contract (excluding profit) necessarily caused by such suspension, and the
696 contract modified in writing accordingly.

697
698 However, no adjustment to the contract price shall be made for any
699 suspension, delay, or interruption:

- 700
701 (1) For weather related conditions.
702
703 (2) To the extent that performance would have been so
704 suspended, delayed, or interrupted by any other cause, including the
705 fault or negligence of the Contractor.
706
707 (3) Or, for which an adjustment is provided for or excluded under
708 any other provision of this Contract.

709
710 **(E) Claims for Adjustment.** Any adjustment in contract price made
711 shall be determined in accordance with Subsections 104.02 – Changes and
712 104.06 – Methods of Price Adjustment.

713
714 Any claims for such compensation shall be filed in writing with the
715 Engineer within 30 days after the date of the order to resume work or the
716 claim will not be considered. The claim shall conform to the requirements
717 of Subsection 107.15(D) – Making of a Claim. The Engineer will take the
718 claim under consideration, may make such investigations as are deemed
719 necessary and will be the sole judge as to the equitability of the claim. The
720 Engineer’s decision will be final.

721
722 **(F) No Adjustment.** No provision of this clause shall entitle the
723 Contractor to any adjustments for delays due to failure of its surety, the
724 cancellation or expiration of any insurance coverage required by the
725 contract documents, for suspensions made at the request of the Contractor,
726 for any delay required under the contract, for suspensions, either partial or
727 whole, made by the Engineer under Subsection 108.10(A)(4) of the
728 “Suspension of work” paragraph.

729
730 **108.11 Termination of Contract for Cause.**

731
732 **(A) Default.** If the Contractor refuses or fails to perform the work, or any
733 separable part thereof, with such diligence as will assure its completion
734 within the time specified in this contract, or any extension thereof, or
735 commits any other material breach of this contract, and further fails within
736 seven days after receipt of written notice from the Engineer to commence
737 and continue correction of the refusal or failure with diligence and
738 promptness, the Engineer may, by written notice to the Contractor, declare
739 the Contractor in breach and terminate the Contractor’s right to proceed
740 with the work or the part of the work as to which there has been delay or

741 other breach of contract. In such event, the State may take over the work,
742 perform the same to completion, by contract or otherwise, and may take
743 possession of, and utilize in completing the work, the materials, appliances,
744 and plants as may be on the site of the work and necessary, therefore.
745 Whether or not the Contractor's right to proceed with the work is terminated,
746 the Contractor and the Contractor's sureties shall be liable for any damage
747 to the State resulting from the Contractor's refusal or failure to complete the
748 work within the specified time.

749
750 **(B) Additional Rights and Remedies.** The rights and remedies of the
751 State provided in this contract are in addition to any other rights and
752 remedies provided by law.

753
754 **(C) Costs and Charges.** All costs and charges incurred by the State,
755 together with the cost of completing the work under contract, will be
756 deducted from any monies due or which would or might have become due
757 to the Contractor had it been allowed to complete the work under the
758 contract. If such expense exceeds the sum which would have been payable
759 under the contract, then the Contractor and the surety shall be liable and
760 shall pay the State the amount of the excess.

761
762 In case of termination, the Engineer will limit any payment to the
763 Contractor to the part of the contract satisfactorily completed at the time of
764 termination. Payment will not be made until the work has satisfactorily been
765 completed and all required documents, including the tax clearance required
766 by Subsection 109.11 – Final Payment are submitted by the Contractor.
767 Termination shall not relieve the Contractor or Surety from liability for
768 liquidated damages.

769
770 **(D) Erroneous Termination for Cause.** If, after notice of termination of
771 the Contractor's right to proceed under this section, it is determined for any
772 reason that good cause did not exist to allow the State to terminate as
773 provided herein, the rights and obligations of the parties shall be the same
774 as, and the relief afforded the Contractor shall be limited to, the provisions
775 contained in Subsection 108.12 – Termination for Convenience.

776
777 **108.12 Termination For Convenience.**

778
779 **(A) Terminations.** The Director may, when the interests of the State so
780 require, terminate this contract in whole or in part, for the convenience of
781 the State. The Director will give written notice of the termination to the
782 Contractor specifying the part of the contract terminated and when
783 termination becomes effective.

784
785 **(B) Contractor's Obligations.** The Contractor shall incur no further
786 obligations in connection with the terminated work and on the date set in

787 the notice of termination the Contractor shall stop work to the extent
788 specified. The Contractor shall also terminate outstanding orders and
789 subcontracts as they relate to the terminated work. The Contractor shall
790 settle the liabilities and claims arising out of the termination of subcontracts
791 and orders connected with the terminated work subject to the State's
792 approval. The Engineer may direct the Contractor to assign the Contractor's
793 right, title, and interest under terminated orders or subcontracts to the State.
794 The Contractor must still complete the work not terminated by the notice of
795 termination and may incur obligations as necessary to do so.

796
797 **(C) Right to Construction and Goods.** The Engineer may require the
798 Contractor to transfer title and to deliver to the State in the manner and to
799 the extent directed by the Engineer, the following:

800 (1) Any completed work.

801
802 (2) Any partially completed construction, goods, materials, parts,
803 tools, dies, jigs, fixtures, drawings, information, and contract rights
804 (hereinafter called "construction material") that the Contractor has
805 specifically produced or specially acquired for the performance of the
806 terminated part of this contract.

807
808 (3) The Contractor shall protect and preserve all property in the
809 possession of the Contractor in which the State has an interest. If
810 the Engineer does not elect to retain any such property, the
811 Contractor shall use its best efforts to sell such property and
812 construction materials for the State's account in accordance with the
813 standards of HRS Chapter 490:2-706.

814
815 **(D) Compensation.**

816
817 (1) The Contractor shall submit a termination claim specifying the
818 amounts due because of the termination for convenience together
819 with cost or pricing data, submitted to the extent required by HAR
820 Subchapter 15, Chapter 3-122. If the Contractor fails to file a
821 termination claim within one year from the effective date of
822 termination, the Engineer may pay the Contractor, if at all, an amount
823 set in accordance with Subsection 108.12(D)(3).

824
825 (2) The Engineer and the Contractor may agree to a settlement
826 provided the Contractor has filed a termination claim supported by
827 cost or pricing data submitted as required and that the settlement
828 does not exceed the total contract price plus settlement costs
829 reduced by payments previously made by the State, the proceeds of
830 any sales of construction, supplies, and construction materials under
831 Subsection 108.12(C)(3), and the proportionate contract price of the
832 work not terminated.

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(3) Absent complete agreement, the Engineer will pay the Contractor the following amounts less any payments previously made under the contract:

(a) The cost of all contract work performed prior to the effective date of the notice of termination work plus a 5 percent markup on the actual direct costs, including amounts paid to subcontractor, less amounts paid or to be paid for completed portions of such work; provided, however, that if it appears that the Contractor would have sustained a loss if the entire contract would have been completed, no markup shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss. No anticipated profit or consequential damage will be due or paid.

(b) Subcontractors shall be paid a markup of 10 percent on their direct job costs incurred to the date of termination. No anticipated profit or consequential damage will be due or paid to any subcontractor. These costs must not include payments made to the Contractor for subcontract work during the contract period.

(c) The total sum to be paid the Contractor shall not exceed the total contract price reduced by the amount of any sales of construction supplies, and construction materials.

(4) Cost claimed, agreed to, or established by the State shall be in accordance with HAR Chapter 3-123.

108.13 Pre-Final and Final Inspections.

(A) Inspection Requirements. Before the Engineer undertakes a final inspection of any work, a pre-final inspection must first be conducted. The Contractor shall notify the Engineer that the work has reached substantial completion and is ready for pre-final inspection.

(B) Pre-Final Inspection. Before notifying the Engineer that the work has reached substantial completion, the Contractor shall inspect the project and test all installed items with all of its subcontractors as appropriate. The Contractor shall also submit the following documents as applicable to the work:

(1) All written guarantees required by the contract.

- 878 (2) Two accepted final field-posted drawings as specified in
879 Section 648 – Field-Posted Drawings;
880
881 (3) Complete weekly certified payroll records for the Contractor
882 and Subcontractors.
883
884 (4) Certificate of Plumbing and Electrical Inspection.
885
886 (5) Certificate of building occupancy as required.
887
888 (6) Certificate of Soil and Wood Treatments.
889
890 (7) Certificate of Water System Chlorination.
891
892 (8) Certificate of Elevator Inspection, Boiler and Pressure Pipe
893 Inspection.
894
895 (9) Maintenance Service Contract and two copies of a list of all
896 equipment installed.
897
898 (10) Current Tax clearance. The contractor will be required to
899 submit an additional tax clearance certificate when the final payment
900 is made.
901
902 (11) And any other final items and submittals required by the
903 contract documents.
904

905 **(C) Procedure.** When in compliance with the above requirements, the
906 Contractor shall notify the Engineer in writing that the project has reached
907 substantial completion and is ready for pre-final inspection.
908

909 The Engineer will then make a preliminary determination as to
910 whether or not the project is substantially complete and ready for pre-final
911 inspection. The Engineer may, in writing, postpone until after the pre-final
912 inspection the Contractor’s submittal of any of the items listed in Subsection
913 108.13(B) – Pre-Final Inspection, herein, if in the Engineer’s discretion it is
914 in the interest of the State to do so.
915

916 If, in the opinion of the Engineer, the project is not substantially
917 complete, the Engineer will provide the Contractor a punchlist of specific
918 deficiencies in writing which must be corrected or finished before the work
919 will be ready for a pre-final inspection. The Engineer may add to or
920 otherwise modify this punchlist from time to time. The Contractor shall take
921 immediate action to correct the deficiencies and must repeat all steps
922 described above including written notification that the work is ready for pre-
923 final inspection.

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After the Engineer is satisfied that the project appears substantially complete a final inspection shall be scheduled within ten working days after receipt of the Contractor's latest letter of notification that the project is ready for final inspection.

If, as a result of the pre-final inspection, the Engineer determines the work is not substantially complete, the Engineer will inform the Contractor in writing as to specific deficiencies which must be corrected before the work will be ready for another pre-final inspection. If the Engineer finds the work is substantially complete but finds deficiencies that must be corrected before the work is ready for final inspection, the Engineer will prepare in writing and deliver to the Contractor a punchlist describing such deficiencies.

At any time before final acceptance, the Engineer may revoke the determination of substantial completion if the Engineer finds that it was not warranted and will notify the Contractor in writing the reasons therefore together with a description of the deficiencies negating the declaration.

When the date of substantial completion has been determined by the State, liquidated damages for the failure to complete the punchlist, if due to the State will be assessed in pursuant to Subsection 108.08(B) - Liquidated Damages for Failure to Complete the Punchlist.

(D) Punchlist; Clean Up and Final Inspection. Upon receiving a punchlist after pre-final inspection, the Contractor shall promptly devote all required time, labor, equipment, materials and incidentals to correct and remedy all punchlist deficiencies. The Engineer may add to or otherwise modify this punchlist until substantial completion of the project.

Before final inspection of the work, the Contractor shall clean all ground occupied by the Contractor in connection with the work of all rubbish, excess materials temporary structures and equipment, shall remove all graffiti and defacement of the work and all parts of the work and the worksite must be left in a neat and presentable condition to the satisfaction of the Engineer.

Final inspection will occur within ten working days after the Contractor notifies the Engineer in writing that all punchlist deficiencies remaining after the pre-final inspection have been completed and the Engineer concurs. If the Engineer determines that deficiencies still remain at the final inspection, the work will not be accepted and the Engineer will notify the Contractor, in writing, of the deficiencies which shall be corrected and the steps above repeated.

970 If the Contractor fails to correct the deficiencies and complete the
971 work by the established or agreed date, the State may correct the
972 deficiencies by whatever method it deems appropriate and deduct the cost
973 from any payments due the Contractor.
974

975 **108.14 Substantial Completion and Final Acceptance.**
976

977 **(A) Substantial Completion.** When the Engineer finds that the
978 Contractor has satisfactorily completed all work for the project in compliance
979 with the contract, with the exception of the planting period and the plant
980 establishment period, the Engineer will notify the Contractor, in writing, of
981 the project's substantial completion, effective as of the date of the final
982 inspection. The substantial completion date shall determine end of contract
983 time and relieve contractor of any additional accumulation of liquidated
984 damages for failure to complete the punchlist.
985

986 **(B) Final Acceptance.** When the Engineer finds that the Contractor has
987 satisfactorily completed all contract work in compliance with the contract
988 including all plant establishment requirements, and all the materials have
989 been accepted by the State, the Engineer will issue a Final Acceptance
990 Letter. The Final Acceptance date shall determine the commencement of
991 all guaranty periods subject to Subsection 108.16 – Contractor's
992 Responsibility for Work; Risk of Loss or Damage.
993

994 **108.15 Use of Structure or Improvement.** The State has the right to use the
995 structure, equipment, improvement, or any part thereof, at any time after it is
996 considered by the Engineer as available. In the event that the structure, equipment
997 or any part thereof is used by the State before final acceptance, the Contractor is
998 not relieved of its responsibility to protect and preserve all the work until final
999 acceptance.
1000

1001 **108.16 Contractor's Responsibility for Work; Risk of Loss or Damage.**
1002 Until the written notice of final acceptance has been received, the Contractor shall
1003 take every precaution against loss or damage to any part of the work by the action
1004 of the elements or from any other cause whatsoever, whether arising from the
1005 performance or from the non-performance of the work. The Contractor shall
1006 rebuild, repair, restore and make good all loss or damage to any portion of the
1007 work resulting from any cause before its receipt of the written notice of final
1008 acceptance and shall bear the risk and expense thereof.
1009

1010 The risk of loss or damage to the work from any hazard or occurrence that
1011 may or may not be covered by a builder's risk policy is that of the Contractor and
1012 Surety, unless such risk of loss is placed elsewhere by express language in the
1013 contract documents.
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1015 **108.17 Guarantee of Work.**

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(1) Regardless of, and in addition to, any manufacturers' warranties, all work and equipment shall be guaranteed by the Contractor against defects in materials, equipment or workmanship for one year from the date of final acceptance or as otherwise specified in the contract documents.

(2) When the Engineer determines that repairs or replacements of any guaranteed work and equipment is necessary due to materials, equipment, or workmanship which are inferior, defective, or not in accordance with the terms of the contract, the Contractor shall, at no increase in contract price or contract time, and within five working days of receipt of written notice from the State, commence to all of the following:

(a) Correct all noted defects and make replacements, as directed by the Engineer, in the equipment and work.

(b) Repair or replace to new or pre-existing condition any damages resulting from such defective materials, equipment or installation thereof.

(3) The State will be entitled to the benefit of all manufacturers and installers warranties that extend beyond the terms of the Contractor's guaranty regardless of whether or not such extended warranty is required by the contract documents. The Contractor shall prepare and submit all documents required by the providers of such warranties to make them effective, and submit copies of such documents to the Engineer. If an available extended warranty cannot be transferred or assigned to the State as the ultimate user, the Contractor shall notify the Engineer who may direct that the warranted items be acquired in the name of the State as purchaser.

(4) If a defect is discovered during a guarantee period, all repairs and corrections to the defective items when corrected shall be guaranteed for a new duration equal to the original full guarantee period. The running of the guarantee period shall be suspended for all other work affected by any defect. The guarantee period for all other work affected by any such defect shall restart for its remaining duration upon confirmation by the Engineer that the deficiencies have been repaired or remedied.

(5) Nothing in this section is intended to limit or affect the State's rights and remedies arising from the discovery of latent defects in the work after the expiration of any guarantee period.

108.18 No Waiver of Legal Rights. The following will not operate or be considered as a waiver of any portion of the contract, or any power herein reserved, or any right to damages provided herein or by law:

(1) Any payment for, or acceptance of, the whole or any part of the work.

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(2) Any extension of time.

(3) Any possession taken by the Engineer.

A waiver of any notice requirement or of any noncompliance with the contract will not be held to be a waiver of any other notice requirement or any other noncompliance with the contract.

108.19 Final Settlement of Contract.

(A) Closing Requirements. The contract will be considered settled after the project acceptance date and when the following items have been satisfactorily submitted, where applicable:

(1) All written guarantees required by the contract.

(2) Complete and certified weekly payrolls for the Contractor and its subcontractor's.

(3) Certificate of plumbing and electrical inspection.

(4) Certificate of building occupancy.

(5) Certificate for soil treatment and wood treatment.

(6) Certificate of water system chlorination.

(7) Certificate of elevator inspection, boiler and pressure pipe installation.

(8) Tax clearance.

(9) All other documents required by the Contract or by law.

(B) Failure to Meet Closing Requirements. The Contractor shall meet the applicable closing requirements within 60 days from the date of Project Acceptance or the agreed to Punchlist complete date. Should the Contractor fail to comply with these requirements, the Engineer may terminate the contract for cause.”

END OF SECTION 108

1 **SECTION 109 – MEASUREMENT AND PAYMENT**

2
3 Make the following amendment to said Section:

4
5 **(I)** Amend **Subsection 109.05 Allowances for Overhead and Profit** by
6 revising lines 101 to 110 to read as follows:

7
8 **“(1)** 20 percent of the direct cost for any work performed by the
9 Contractor’s own labor force.

10
11 **(2)** 20 percent of the direct cost for any work performed by each
12 subcontractor’s own labor force.

13
14 **(3)** For the Contractor or any subcontractor for work performed
15 by their respective subcontractor or tier subcontractor, 10 percent
16 of the amount due to the performing subcontractor or tier
17 subcontractor.”

18
19 **(II)** Amend **Subsection 109.08(B) Payment for Material On Hand** by
20 revising lines 421 to 423 to read as follows:

21
22 **“(2)** The materials shall be stored and handled in accordance
23 with Subsection 105.14 – Storage and Handling of Materials and
24 Equipment.”

25
26
27 **(III)** Amend **Subsection 109.11 Final Payment** by revising lines 568 to 576
28 to read as follows:

29
30 **“(3)** A current “Certificate of Vendor Compliance” issued by the
31 Hawaii Compliance Express (HCE). The Certificate of Vendor
32 Compliance is used to certify the Contractor’s compliance with

33
34 **(a)** Section 103D-328, HRS (for all contracts \$25,000 or
35 more) which requires a current tax clearance certificate
36 issued by the Hawaii State Department of Taxation and the
37 Internal Revenue Service;

38
39 **(b)** Chapters 383, 386, 392, and 393, HRS; and

40
41 **(c)** Subsection 103D-310(c), HRS. The State reserves
42 the right to verify that compliance is current prior to the
43 issuance of final payment. Contractors are advised that non-
44 compliance status will result in final payment being withheld
45 until compliance is attained.
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Sums necessary to meet the claims of any governmental agencies may be withheld from the sums due the Contractor until said claims have been fully and completely discharged or otherwise satisfied.”

END OF SECTION 109

1 Make this section part of the standard specifications:

2
3 **“SECTION 110 – INSTALLATION OF ASPHALT PAVEMENT**
4 **PRESERVATION, RESURFACING, AND RECONSTRUCTION**
5 **AT VARIOUS LOCATIONS**
6

7
8 **110.01 Scope of Work.** The work shall consist of furnishing all labor, necessary
9 equipment, materials and traffic control to repair pavement and to install pavement
10 markings and milled rumble strips at various locations as requested. Pavement
11 marking installation involves removing existing pavement marking, laying out and
12 installing new pavement striping, crosswalk markings, pavement arrows, pavement
13 words, delineators, and pavement markers. Milled rumble strip installation involves
14 the installation of milled rumble strip along the centerline or edgeline of the road. All
15 work shall be performed within the existing pavement structure. Installation of
16 pavement markings and milled rumble strips will be restricted to new pavement
17 surfaces generated through the corresponding paving work order. All work shall be
18 performed in a professional manner in accordance with current practices and this
19 document. All asphalt and asphalt concrete base debris shall be removed daily at
20 all locations. See Subsection 110.03 – Area of Coverage.
21

22 The Contractor shall work as directed by the Engineer or by the Highways
23 Division’s District Engineer.
24

25 The Department agrees to provide at least an estimated one centerline mile
26 of pavement repair work for each work order. The below list of projects are potential
27 work orders being considered via this contract:
28

29 2023 Calendar Year:

- 30 Rte 540, Halewili Road – MP 0 to MP 1, Resurfacing (Area 4)
- 31 Rte 580, Kuamoo Road – MP 0 to MP 3.9, Resurfacing (Area 3)

32
33 2024 Calendar Year:

- 34 Rte 550, Waimea Canyon Drive – MP 0 to MP 4.6, Resurfacing (Area 4)
- 35 Rte 560, Kuhio Highway – MP 8 to MP 10, Resurfacing (Area 1)
- 36 Rte 5600, Temp Kapaa Bypass Rd – MP 0 to MP 1, Resurfacing (Area 3)

37
38 2025 Calendar Year:

- 39 Rte 50, Kaunualii Highway – MP 2 to MP 3, Resurfacing (Area 3)
- 40 Rte 50, Kaunualii Highway – MP 12.3 to MP 17, Resurfacing (Area 4)
- 41 Rte 560, Kuhio Highway – MP 4.5 to MP 6.4, Resurfacing (Area 1)

42
43 2026 Calendar Year:

- 44 Rte 56, Kuhio Highway – MP 0 to MP 1, Slurry Seal (Area 3)
- 45 Rte 56, Kuhio Highway – MP 6.6 to MP 8, Slurry Seal (Area 3)

47 2027 Calendar Year:
48 Rte 56, Kuhio Highway – MP 2.8 to MP 5.9, Slurry Seal (Area 3)
49 Rte 56, Kuhio Highway – MP 16.9 to MP 19.0, Slurry Seal (Area 2)
50 Rte 583, Maalo Road – MP 0 to MP 1, Resurfacing (Area 3)

51
52 2028 Calendar Year:
53 Rte 51, Waapa Rd / Rice St / Kauai Vet Mem Hwy / Kapule Hwy – MP 0 to
54 MP 2.2 and MP 3.4 to MP 3.45, Slurry Seal (Area 3)
55 Rte 5600, Temp Kapaa Bypass Rd – MP 1 to MP 3.1, Resurfacing (Area 3)
56 Rte 570, Ahukini Road – MP 0 to MP 1.1, Slurry Seal (Area 3)

57
58 The Contractor shall possess a General Engineering Contractor’s “A” license
59 or Specialty Contractor’s “C-3” or “C-3a” license for the full term of the contract and
60 shall have possessed the license prior to the award of the contract. Failure to meet
61 this requirement shall be cause for disqualification.

62
63 Pavement repair shall consist of one of the following:

64
65 **1. Cold Planing and Resurfacing with Asphalt Pavement.**
66 Cold-plane damaged or deteriorated pavement areas and resurface
67 with new Polymer Modified Asphalt (PMA). The minimum width of the
68 cold planed area shall be seven foot three inches (7’3”) wide. The new
69 resurfaced finish grade shall be the existing road grade. Pavement
70 surface that varies more than 3/16 inch from testing edge of
71 straightedge between two contacts exceeds surface tolerance.

72
73 Schedule the work so that the areas are resurfaced before the
74 completion of the day's work.

75
76 **2. Reconstruction of Weakened Pavement Areas.** Excavate
77 to and backfill to the depth shown in the appropriate Typical
78 Reconstruction Section (Figure 1). The new resurfaced finish grade
79 shall be the existing road grade. Pavement surface that varies more
80 than 3/16 inch from testing edge of straightedge between two
81 contacts exceeds surface tolerance. The minimum width of the
82 reconstruction area shall be seven foot three inches (7’3”) wide.

83
84 Prior to placement of the asphalt base course, the exposed
85 subbase or subgrade shall be recompacted to a dense and
86 unyielding condition.

87
88 The Contractor may elect to reconstruct the entire depth of the
89 pavement reconstruction with HMA base course in preparation of
90 cold planing as a separate operation.

91

92 Schedule the work so that the excavated areas are backfilled
93 before the completion of the day's work.

94
95 **3. Leveling of Existing Pavement.** Install HMA Concrete
96 Pavement to level dips, sags, and depressions as directed by the
97 Engineer. The new leveled surface finish grade shall be the existing
98 road grade. Pavement surface that varies more than 3/16 inch from
99 testing edge of straightedge between two contacts exceeds surface
100 tolerance.

101
102 **4. Slurry Seal.** See Section 404 – Slurry Seal.

103
104 **5. Crack Seal.** See Section 408 – Crack Seal.

105
106 If the existing pavement marking is required to be removed during pavement
107 repair or other work done under this contract, the Contractor shall install temporary
108 pavement markings. This work shall be considered incidental to the appropriate
109 pavement repairs.

110
111 **110.02 Contract Period and Option to Extend.** The period of the contract
112 shall be for 12 months commencing from the Start Work Date indicated from the
113 Department. There is an option to extend for 4 additional 12 month periods,
114 without re-bidding, upon mutual agreement in writing prior to the contract expiration
115 date, provided the initial bid price remains the same. The maximum contract
116 period is 60 months.

117
118 Failure by the Contractor to execute the amendment to extend the contract
119 within the number of days specified under Section 103.07 - Failure to Execute
120 Contract may be cause for cancellation of the written agreement to extend the
121 contract and may be subject to disqualification from bidding future projects for a
122 two-year period in accordance with Section 102.12 - Disqualification of Bidders.

123
124 To compensate for escalation during the maximum contract period the
125 Department will adjust the Unit Prices of all items on the Proposal Schedule by 2%
126 on the start date of an extension period. The price adjustment shall not be applied
127 to contract change orders issued within the current contract year or work orders
128 that have already been issued to the contractor.

129
130 The Department shall adjust the prevailing wages in accordance to 23
131 U.S.C. 113 when the option to extend is mutually agreed to in writing prior to the
132 contract expiration dates. The current prevailing wage rates, as determined by the
133 U.S. Department of Labor, in effect on the date of the execution of the contract
134 extension shall apply to work covered under the contract extension.

135
136 **110.03 Area of Coverage.** The project requires the Contractor to repair
137 pavement at various locations on the Island of Kauai. Work shall be grouped into

138 four areas along with the corresponding routes as shown on the attached map of
139 the island of Kauai (Figure 2). Note: There are numerous side streets with or
140 without route numbers along State highways where State Jurisdiction extends
141 various distances into side streets. The four areas are:

142

143

144

(A) Area 1 (Hanalei Bridge to End of Route 560):

145

Route 560, Kuhio Highway

146

147

(B) Area 2 (Kapaa Stream Bridge to Hanalei Bridge):

148

Route 56, Kuhio Highway

149

Route 560, Kuhio Highway

150

151

(C) Area 3 (Huleia Bridge to Kapaa Stream Bridge):

152

Route 50, Kaumualii Highway

153

Route 51, Kapule Highway

154

Route 56, Kuhio Highway

155

Route 58, Nawiliwili Road

156

Route 570, Ahukini Road

157

Route 580, Kuamoo Road

158

Route 583, Maalo Road

159

Route 5600, Temp Kapaa Bypass Road

160

161

(D) Area 4 (Huleia Stream Bridge to End of Route 50):

162

Route 50, Kaumualii Highway

163

Route 540, Halewili Road

164

Route 541, Waialo Road

165

Route 550, Waimea Canyon Drive

166

167

110.04 Safety and Convenience. The Contractor shall at all times conduct his
168 work to assure the least possible obstruction to public traffic. The Safety and
169 convenience of the general public and the protection of persons and property is of
170 utmost importance, and the Contractor shall provide appropriate traffic control and
171 safety measures. The Contractor and his employees shall treat members of the
172 public in a fair and polite manner. Workers shall present a professional
173 appearance and conduct themselves in a professional manner at all times.

174

175

176

All Traffic Control and safety measures shall be done in Conformance with
177 the “Administrative Rules of Hawaii Governing the Use of Traffic Control Devices
178 at Work Sites on or Adjacent to Public Streets and Highways” adopted by the
179 Director of Transportation, and the current U.S. Federal Highway Administration
180 “Manual on Uniform Traffic Control Devices (MUTCD), 2009 Edition. Costs for
181 traffic control shall include set-up and removal of all signs, cones, delineators,
182 barricades, flag persons, police officers, arrow boards, etc., and shall be included
183 in the sign replacement proposal price. See Section 645 – Work Zone Traffic
Control.

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Do not close traffic lanes or slow down traffic during the following peak hours (unless otherwise approved by the engineer):

Morning Peak Hours	6:00 A.M. to 8:30 A.M.
Afternoon Peak Hours	3:00 P.M. to 6:00 P.M.

Above peak hours are daily except Saturdays, Sundays and holidays.

Night work is required for all work orders, unless approved by Engineer. A noise variance permit is required and shall be obtained by the Contractor.

The Contractor must notify all private property owners in the vicinity where pavement repair is performed in the event that the work may hinder access to their property. The Contractor must also secure permission prior to entering private property to do pavement repair, if any.

The Contractor shall remove debris daily and shall leave the work site in a condition equal to or cleaner than prior to commencing work. The Contractor shall be responsible for all hauling and lawful disposal of debris. Any unauthorized or illegal disposal is grounds for termination of the contract.

110.05 Hours of Operation. The Contractor shall be available to provide the specified services during normal working hours and complete the services within the period specified in the work order or as directed by the Engineer. Normal working days and hours for the project are defined as Sunday 9:00 P.M. through Friday 5:00 A.M., except for State holidays. Refer to Section 645 – Work Zone Traffic Control. Authorized Highways personnel will contact the Contractor to schedule work, as needed. All services requested after normal work hours may be charged in accordance with Subsection 107.04 – Overtime and Night Work.

110.06 Disposal of Debris. The Contractor shall be responsible for all hauling and dump fees and shall include the cost of these items in his bid. Any unauthorized or illegal disposal is grounds for termination of the contract.

110.07 Work Orders. The Engineer or his representative shall prepare a work order (Figure 3) for each pavement repair or group of pavement repairs in the same area. Within 48 hours of receiving a work order, the Contractor shall submit a proposed work schedule that demonstrates that work will begin within 2 weeks and be completed by the date indicated on the work order. At certain work sites, erosion control plans or BMP plans will be requested by the Engineer. Submit the signed work order, proposed schedule and BMP plans for approval to the Kauai District Office, 1720 Haleukana Street, Lihue, Hawaii 96766. Work shall not be performed unless the Contractor receives an approval from the Engineer. The Engineer or his representative shall authorize any increases in the total price.

230 **110.08 Basis of Payment.** Pavement repairs will be made through work orders
231 placed with the Contractor during the contract period for which payment will be
232 based on the quantities placed and the unit bid prices in the proposal schedule
233 which prices shall include payment for all materials, equipment, tools, labor, and
234 incidentals necessary to complete the pavement repairs.

235

236 The Contractor shall submit monthly invoices to the Kauai District Office,
237 1720 Haleukana Street, Lihue, Hawaii 96766, if services are rendered. (See
238 Subsection 109.08 - Progress Payments).

239

240 The contract unit prices shall be full compensation for furnishing all labor,
241 materials (as listed in Section 104 SCOPE OF WORK), tools, equipment, trucks,
242 traffic control, applicable taxes and incidentals to complete the work.”

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END OF SECTION 110

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SECTION 201 – CLEARING AND GRUBBING

Make the following amendments to said Section:

(I) Amend **201.04 – Measurement** by revising lines 167 to 168 to read as follows:

“201.04 Measurement. The Engineer will measure clearing and grubbing as ordered by the Engineer on a force account basis in accordance with the contract documents.”

(II) Amend **201.05 – Payment** by revising lines 170 to 179 to read as follows:

“201.05 Payment. The Engineer will pay for the accepted Clearing and Grubbing on a force account basis in accordance with the contract documents. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will compute the actual amount paid to the Contractor for force account work according to Subsection 109.06 – Force Account Provisions and Compensation.

The Engineer will pay for the following pay item when included in the proposal schedule:

Pay Item	Pay Unit
Clearing and Grubbing	Force Account

An estimated amount for force account is allocated in proposal schedule under ‘Clearing and Grubbing’, but actual amount to be paid will be the sum shown on accepted force account records, whether this sum be more or less than estimated amount allocated in proposal schedule. The Engineer will pay for traffic control measures requested by the Engineer on a force account basis.”

END OF SECTION 201

1 Amend **Section 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION**
2 **CONTROL** to read as follows:

3
4
5 **“SECTION 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION**
6 **CONTROL**

7
8
9 **209.01 Description.** This section describes the following:

10
11 **(A)** Including detailed plans, diagrams, and written Site-Specific Best
12 Management Practices (BMP); constructing, maintaining, and repairing
13 temporary water pollution, dust, and erosion control measures at the project
14 site, including local material sources, work areas and haul roads; removing
15 and disposing hazardous wastes; control of fugitive dust (defined as
16 uncontrolled emission of solid airborne particulate matter from any source
17 other than combustion); and complying with applicable State and Federal
18 permit conditions.

19
20 **(B)** Work associated with construction stormwater, dewatering, and
21 hydrotesting activities and complying with conditions of the National Pollutant
22 Discharge Elimination System (NPDES) permit(s) authorizing discharges
23 associated with construction stormwater, dewatering, and hydrotesting
24 activities.

25
26 **(C)** Potential pollutant identification and mitigation measures are listed in
27 Appendix A for use in the development of the Contractor’s Site-Specific BMP.

28
29 Requirements of this section also apply to construction support
30 activities including concrete or asphalt batch plants, rock crushing plants,
31 equipment staging yards/areas, material storage areas, excavated material
32 disposal areas, and borrow areas located outside the State Right-of-Way.
33 For areas serving multiple construction projects, or operating beyond the
34 completion of the construction project in which it supports, the Contractor
35 shall be responsible for securing the necessary permits, clearances, and
36 documents, and following the conditions of the permits and clearances, at no
37 cost to the State.

38
39 **209.02 Materials.** Comply with applicable materials described in Chapters 2 and
40 3 of the current HDOT “Construction Best Management Practices Field Manual”. In
41 addition, the materials shall comply with the following:

42
43 **(A) Grass.** Grass shall be a quick growing species such as rye grass,
44 Italian rye grass, or cereal grasses. Grass shall be suitable to the area and
45 provide a temporary cover that will not compete later with permanent cover.
46 Alternative grasses are allowable if acceptable to the Engineer.

47 **(B) Fertilizer and Soil Conditioners.** Fertilizer and soil conditioners shall
48 be a standard commercial grade acceptable to the Engineer. Fertilizer shall
49 conform to Subsection 619.02(H)(1) - Commercial Fertilizer.
50

51 **(C) Hydro-mulching.** Hydro-mulching used as a temporary vegetative
52 stabilization measure shall consist of materials in Subsections 209.02(A) -
53 Grass, and 209.02(B) – Fertilizer and Soil Conditioners. Mulches shall be
54 recycled materials including bagasse, hay, straw, wood cellulose bark, wood
55 chips, or other material acceptable to the Engineer. Mulches shall be clean
56 and free of noxious weeds and deleterious materials. Potable water shall
57 meet the requirements of Subsection 712.01 - Water. Submit alternate
58 sources of irrigation water for the Engineer’s acceptance if deviating from
59 712.01 - Water. Installation and other requirements shall be in accordance
60 with portions of Section 641- Hydro-Mulch Seeding including 641.02(D) - Soil
61 and Mulch Tackifier, 641.03(A) – Seeding, and 641.03(B) - Planting Period.
62 Install non-vegetative controls including mulch or rolled erosion control
63 products while the vegetation is being established. Water and fertilize grass.
64 Apply fertilizer as recommended by the manufacturer. Replace grass the
65 Engineer considers unsuitable or sick. Remove and dispose of trash and
66 debris. Remove invasive species. Mow as needed to prevent site or signage
67 obstructions, fire hazard, or nuisance to the public. Do not remove down
68 stream sediment control measures until the vegetation is uniformly
69 established, including no large bare areas, and provides 70 percent of the
70 density of pre-disturbance vegetation. Temporary vegetative stabilization
71 shall not be used longer than one year.
72

73 **(D) Silt Fences.** Comply with ASTM D6462, Standard Practice for Silt
74 Fence Installation.
75

76 Alternative materials or methods to control, prevent, remove and dispose
77 pollution are allowable if acceptable to the Engineer.
78

79 **209.03 Construction.**

80 **(A) Preconstruction Requirements.**

81 **(1) Water Pollution, Dust, and Erosion Control Meeting.**
82 Schedule a water pollution, dust, and erosion control meeting with the
83 Engineer after Site-Specific BMP is accepted in writing by the
84 Engineer. Meeting shall be scheduled a minimum of 7 calendar days
85 prior to the Start Work Date. Discuss sequence of work, plans and
86 proposals for water pollution, dust, and erosion control.
87
88
89

90 **(2) Water Pollution, Dust, and Erosion Control Submittals.**

91 Submit a Site-Specific BMP Plan within 21 calendar days of date of
92 award. Submission of complete and acceptable Site-Specific BMP
93 Plan is the sole responsibility of the Contractor and additional contract
94 time will not be issued for delays due to incompleteness. Include the
95 following:

96
97 **(a)** Written description of activities to minimize water
98 pollution and soil erosion into State waters, drainage or sewer
99 systems. BMP shall include the following:

100
101 **1.** An identification of potential pollutants and their
102 sources.

103
104 **2.** A list of all materials and heavy equipment to be
105 used during construction.

106
107 **3.** Descriptions of the methods and devices used to
108 minimize the discharge of pollutants into State waters,
109 drainage or sewer systems.

110
111 **4.** Details of the procedures used for the
112 maintenance and subsequent removal of any erosion or
113 siltation control devices.

114
115 **5.** Methods of removing and disposing hazardous
116 wastes encountered or generated during construction.

117
118 **6.** Methods of removing and disposing concrete and
119 asphalt pavement cutting slurry, concrete curing water,
120 and hydrodemolition water.

121
122 **7.** Spill Control and Prevention and Emergency Spill
123 Response Plan.

124
125 **8.** Fugitive dust control, including dust from grinding,
126 sweeping, or brooming off operations or combination
127 thereof.

128
129 **9.** Methods of storing and handling of oils, paints
130 and other products used for the project.

131
132 **10.** Material storage and handling areas, and other
133 staging areas.

134
135 **11.** Concrete truck washouts.

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- 12.** Concrete waste control.
- 13.** Fueling and maintenance of vehicles and other equipment.
- 14.** Tracking of sediment offsite from project entries and exits.
- 15.** Litter management.
- 16.** Toilet facilities.
- 17.** Other factors that may cause water pollution, dust and erosion control.

(b) Provide plans indicating location of water pollution, dust and erosion control devices; provide plans and details of BMPs to be installed or utilized; show areas of soil disturbance in cut and fill, indicate areas used for construction staging and storage including items (1) through (17) above, storage of aggregate (indicate type of aggregate), asphalt cold mix, soil or solid waste, equipment and vehicle parking, and show areas where vegetative practices are to be implemented. Indicate intended drainage pattern on plans. Include flow arrows. Include separate drawing for each phase of construction that alters drainage patterns. Indicate approximate date when device will be installed and removed.

(c) Construction schedule.

(d) Name(s) of specific individual(s) designated responsible for water pollution, dust, and erosion controls on the project site. Include home, cellular, and business telephone numbers, fax numbers, and e-mail addresses.

(e) Description of fill material to be used.

(f) For projects with an NPDES Permit for Construction Activities, submit information to address all sections in the Storm Water Pollution Prevention Plan (SWPPP).

(g) For projects with an NPDES Permit, information required for compliance with the conditions of the Notice of General Permit Coverage (NGPC)/NPDES Permit.

181 (h) Site-Specific BMP Review Checklist. The checklist may
182 be downloaded from HDOT’s Stormwater Management
183 website at <http://stormwaterhawaii.com>.
184

185 Date and sign Site-Specific BMP Plan. Keep accepted
186 copy on site or at an accessible location so that it can be made
187 available at the time of an on-site inspection or upon request by
188 the Engineer, HDOT Third-Party Inspector, and/or DOH/EPA
189 Representative. Amendments to the Site-Specific BMP Plan
190 shall be included with original Site-Specific BMP Plan. Modify
191 SWPPP if necessary to conform to revisions. Include date of
192 installation and removal of Site-Specific BMP measures.
193 Obtain written acceptance by the Engineer before
194 implementing revised Site-Specific BMPs in the field.
195

196 Follow the guidelines in the current HDOT “Construction
197 Best Management Practices Field Manual”, in developing,
198 installing, and maintaining Site-Specific BMPs for all projects.
199 For any conflicting requirements between the Manual and
200 applicable bid documents, the applicable bid documents will
201 govern. Should a requirement not be clearly described within
202 the applicable bid documents, notify the Engineer immediately
203 for interpretation. For the purposes of clarification “applicable
204 bid documents” include the construction plans, standard
205 specifications, special provisions, Permits, and the SWPPP
206 when applicable.
207

208 Follow Honolulu’s City and County “Rules for Soil
209 Erosion Standards and Guidelines” for all projects on Oahu.
210 Use respective Soil Erosion Guidelines for Maui, Kauai and
211 Hawaii projects.
212

213 **(B) Construction Requirements.** Do not begin work until submittals
214 detailed in Subsection 209.03(A)(2) - Water Pollution, Dust, and Erosion
215 Control Submittals are completed and accepted in writing by the Engineer.
216

217 Install, maintain, monitor, repair and replace site-specific BMP
218 measures, such as for water pollution, dust and erosion control; installation,
219 monitoring, and operation of hydrotesting activities; removal and disposal of
220 hazardous waste indicated on plans, concrete cutting slurry, concrete curing
221 water; or hydrodemolition water. Site-Specific BMP measures shall be in
222 place, functional and accepted by HDOT personnel prior to initiating any
223 ground disturbing activities.
224

225 If necessary, furnish and install rain gage in a secure location prior to
226 field work including installation of site-specific BMP. Provide rain gage with
227 a tolerance of at least 0.05 inches of rainfall. Install rain gage on project site
228 in an area that will not deter rainfall from entering the gate opening. Do not
229 install in a location where rain water may splash into rain gage. The rain
230 gage installation shall be stable and plumbed. Maintain rain gage and
231 replace rain gage that is stolen, does not function properly or accurately, is
232 worn out, or needs to be relocated. Do not begin field work until rain gage is
233 installed and Site-Specific BMPs are in place. Rain gage data logs shall be
234 readily available. Submit rain gage data logs weekly to the Engineer.

235
236 Address all comments received from the Engineer.

237
238 Modify and resubmit plans and construction schedules to correct
239 conditions that develop during construction which were unforeseen during
240 the design and pre-construction stages.

241
242 Coordinate temporary control provisions with permanent control
243 features throughout the construction and post-construction period.

244
245 Limit maximum surface area of earth material exposed at any time to
246 300,000 square feet. Do not expose or disturb surface area of earth material
247 (including clearing and grubbing) until BMP measures are installed and
248 accepted in writing by the Engineer. Protect temporarily or permanently
249 disturbed soil surface from rainfall impact, runoff and wind before end of the
250 work day.

251
252 Immediately initiate stabilizing exposed soil areas upon completion of
253 earth disturbing activities for areas permanently or temporarily ceased on any
254 portion of the site. Earth-disturbing activities have permanently ceased when
255 clearing and excavation within any area of the construction site that will not
256 include permanent structures has been completed. Earth-disturbing
257 activities have temporarily ceased when clearing, grading, and excavation
258 within any area of the site that will not include permanent structures will not
259 resume for a period of 14 or more calendar days, but such activities will
260 resume in the future. The term "immediately" is used in this section to define
261 the deadline for initiating stabilization measures. "Immediately" means as
262 soon as practicable, but no later than the end of the next work day, following
263 the day when the earth-disturbing activities have temporarily or permanently
264 ceased.

265
266 For projects with an NPDES Permit for Construction activities:
267

268 (1) For construction areas discharging into waters not impaired for
269 nutrients or sediments, complete initial stabilization within 14 calendar
270 days after the temporary or permanent cessation of earth-disturbing
271 activities.

272
273 (2) For construction areas discharging into nutrient or sediment
274 impaired waters, complete initial stabilization within 7 calendar days
275 after the temporary or permanent cessation of earth-disturbing
276 activities.

277
278 For projects without an NPDES Permit for Construction activities,
279 complete initial stabilization within 14 calendar days after the temporary or
280 permanent cessation of earth-disturbing activities.

281
282 Any of the following types of activities constitutes initiation of
283 stabilization:

- 284
285 (1) Prepping the soil for vegetative or non-vegetative stabilization;
286
287 (2) Applying mulch or other non-vegetative product to the exposed
288 area;
289
290 (3) Seeding or planting the exposed area;
291
292 (4) Starting any of the activities in items (1) – (3) above on a portion
293 of the area to be stabilized, but not on the entire area; and
294
295 (5) Finalizing arrangements to have stabilization product fully
296 installed in compliance with the deadline for completing initial
297 stabilization activities.

298
299 Any of the following types of activities constitutes completion of initial
300 stabilization activities:

- 301
302 (1) For vegetative stabilization, all activities necessary to initially
303 seed or plant the area to be stabilized; and/or
304
305 (2) For non-vegetative stabilization, the installation or application
306 of all such non-vegetative measures.

307
308 If the Contractor is unable to meet the deadlines above due to
309 circumstances beyond the Contractor's control, and the Contractor is using
310 vegetative cover for temporary or permanent stabilization, the Contractor
311 may comply with the following stabilization deadlines instead as agreed to by
312 the Engineer:

313

314 (1) Immediately initiate, and complete within the timeframe shown
315 above, the installation of temporary non-vegetative stabilization
316 measures to prevent erosion;

317
318 (2) Complete all soil conditioning, seeding, watering or irrigation
319 installation, mulching, and other required activities related to the
320 planting and initial establishment of vegetation as soon as conditions
321 or circumstances allow it on the site; and

322
323 (3) Notify and provide documentation to the Engineer the
324 circumstances that prevent the Contractor from meeting the deadlines
325 above for stabilization and the schedule the Contractor will follow for
326 initiating and completing initial stabilization and as agreed to by the
327 Engineer.

328
329 Follow the applicable requirements of the specifications and special
330 provisions including Section 619 Planting and Section 641 Hydro-Mulch
331 Seeding.

332
333 Immediately after seeding or planting the area to be vegetatively
334 stabilized, to the extent necessary to prevent erosion on the seeded or
335 planted area, select, design, and install non-vegetative erosion controls that
336 provide cover (e.g., mulch, rolled erosion control products) to the area while
337 vegetation is becoming established.

338
339 Protect exposed or disturbed surface area with mulches, grass seeds
340 or hydromulch. Spray mulches at a rate of 2,000 pounds per acre. Add
341 tackifier to mix at a rate of 85 pounds per acre. Apply grass seeds at a rate
342 of 125 pounds per acre. For hydromulch, use the ingredients and rates
343 required for mulches and grass seeds. Submit recommendations from a
344 licensed Landscape Architect when deviating from the application rates
345 above.

346
347 Apply fertilizer to mulches, grass seed or hydromulch per
348 manufacturer's recommendations. Submit recommendations from a licensed
349 Landscape Architect when deviating from the manufacturer's
350 recommendations.

351
352 Install velocity dissipation measures when exposing erodible surfaces
353 greater than 15 feet in height.

354
355 BMP measures shall be in place and operational at the end of work
356 day or as required by Section 209.03(B) Construction Requirements.

357

358 Install and maintain either or both stabilized construction entrances
359 and wheel washes to minimize tracking of dirt and mud onto roadways.
360 Restrict traffic to stabilized construction areas only. Clean dirt, mud, or other
361 material tracked onto the road, sidewalk, or other paved area by the end of
362 the same day in which the track-out occurs. Modify stabilized construction
363 entrances to prevent mud from being tracked onto road. Stabilize entire
364 access roads if necessary.

365
366 Chemicals may be used as soil stabilizers for either or both erosion
367 and dust control if acceptable to the Engineer.

368
369 Provide temporary slope drains of rigid or flexible conduits to carry
370 runoff from cuts and embankments. Provide portable flume at the entrance.
371 Shorten or extend temporary slope drains to ensure proper function.

372
373 Protect ditches, channels, and other drainageways leading away from
374 cuts and fills at all times by either:

- 375
376 (1) Hydro-mulching the lower region of embankments in the
377 immediate area.
378
379 (2) Installing check dams and siltation control devices.
380
381 (3) Other methods acceptable to the Engineer.

382
383 Provide for controlled discharge of waters impounded, directed, or
384 controlled by project activities or erosion control measures.

385
386 Cover exposed surface of materials completely with tarpaulin or
387 similar device when transporting aggregate, soil, excavated material or
388 material that may be source of fugitive dust.

389
390 Cleanup and remove any pollutant that can be attributed to the
391 Contractor.

392
393 Install or modify Site-Specific BMP measures due to change in the
394 Contractor's means and methods, or for omitted condition that should have
395 been allowed for in the accepted Site-Specific BMP or a Site-Specific BMP
396 that replaces an accepted Site-Specific BMP that is not satisfactorily
397 performing. Modifications to Site-Specific BMP measures shall be accepted
398 in writing by the Engineer prior to implementation.

399
400 Properly maintain all Site-Specific BMP measures.

401
402 For projects with an NPDES Permit for Construction Activities:

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(1) For construction areas discharging into nutrient or sediment impaired waters, inspect, prepare a written report, and make repairs to BMP measures at the following intervals:

- (a)** Weekly.
- (b)** Within 24 hours of any rainfall of 0.25 inch or greater which occurs in a 24-hour period.
- (c)** When existing erosion control measures are damaged or not operating properly as required by Site-Specific BMP.

(2) For construction areas discharging to waters not impaired for nutrients or sediments, inspect, prepare a written report, and make repairs to BMP measures at the following intervals:

- (a)** Weekly.
- (b)** When existing erosion control measures are damaged or not operating properly as required by Site-Specific BMP.

For projects without an NPDES Permit for Construction activities, inspect, prepare a written report, and make repairs to BMP measures at the following intervals:

- (a)** Weekly.
- (b)** When existing erosion control measures are damaged or not operating properly as required by Site-Specific BMP.

Temporarily remove, replace or relocate any Site-Specific BMP that must be removed, replaced or relocated due to potential or actual flooding, or potential danger or damage to project or public.

Maintain records of inspections of Site-Specific BMP work. Keep continuous records for duration of the project. Submit copy of Inspection Report to the Engineer within 24 hours after each inspection.

The Contractor's designated representative specified in Subsection 209.03(A)(2)(d) shall address any Site-Specific BMP deficiencies brought up by the Engineer immediately, including weekends and holidays, and complete work to fix the deficiencies by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. Address any Site-Specific BMP deficiencies brought up by the State's Third-Party Inspector in the timeframe above or as specified in the Consent Decree or MS4 NPDES

450 Permit, whichever is more stringent. The Consent Decree timeframe
451 requirement applies statewide. The MS4 NPDES Permit only applies to
452 Oahu. In this section, "immediately" means the Contractor shall take all
453 reasonable measures to minimize or prevent discharge of pollutants until a
454 permanent solution is installed and made operational. If a problem is
455 identified at a time in the day in which it is too late to initiate repair, initiation
456 of repair shall begin on the following work day. When installation of a new
457 pollution prevention control or a significant repair is needed, complete
458 installation or repair no later than 7 calendar days from the time of
459 notification/Contractor discovery. Notify the Engineer and document why it
460 is infeasible to complete the installation or repair within 7 calendar days and
461 complete the work as soon as practicable and as agreed to by the Engineer.
462 Address Site-Specific BMP deficiencies discovered by the Contractor within
463 the timeframe above. The Contractor's failure to satisfactorily address these
464 Site-Specific BMP deficiencies, the Engineer reserves the right to employ
465 outside assistance or use the Engineer's own labor forces to provide
466 necessary corrective measures. The Engineer will charge the Contractor
467 such incurred costs plus any associated project engineering costs. The
468 Engineer will make appropriate deductions from the Contractor's monthly
469 progress estimate. Failure to apply Site-Specific BMP measures may result
470 in one or more of the following: assessment of liquidated damages,
471 suspension, or cancellation of Contract with the Contractor being fully
472 responsible for all additional costs incurred by the State.

473
474 **(C) Discharges of Storm Water Associated with Construction**
475 **Activities.** If work includes disturbance of one acre or more, an NPDES
476 Permit authorizing Discharges of Storm Water Associated with Construction
477 Activity (CWB-NOI Form C) or Individual Permit authorizing storm water
478 discharges associated with construction activity is required from the
479 Department of Health Clean Water Branch (DOH-CWB).

480
481 Do not begin construction activities until all required conditions of the
482 permit are met and submittals detailed in Subsection 209.03(A)(2) – Water
483 Pollution, Dust, and Erosion Control Submittals are completed and accepted
484 in writing by the Engineer.

485
486 **(D) Discharges Associated with Hydrotesting Activities.** If
487 hydrotesting activities require effluent discharge into State waters or drainage
488 systems, an NPDES Hydrotesting Waters Permit (CWB-NOI Form F) or
489 Individual Permit authorizing discharges associated with hydrotesting from
490 DOH-CWB is required from the DOH-CWB.

491
492 Do not begin hydrotesting activities until the DOH-CWB has issued an
493 Individual NPDES Permit or Notice of General Permit Coverage (NGPC).
494 Conduct Hydrotesting operations in accordance with the conditions of the
495 permit or NGPC.

496 **(E) Discharges Associated with Dewatering Activities.** If dewatering
497 activities require effluent discharge into State waters or drainage systems, an
498 NPDES Dewatering Permit (CWB-NOI Form G) or Individual Permit
499 authorizing discharges associated with dewatering from DOH-CWB is
500 required from the DOH-CWB.
501

502 Do not begin dewatering activities until the DOH-CWB has issued an
503 Individual NPDES Permit or Notice of General Permit Coverage (NGPC).
504 Conduct dewatering operations in accordance with the conditions of the
505 permit or NGPC.
506

507 **(F) Solid Waste.** Submit the Solid Waste Disclosure Form for
508 Construction Sites to the Engineer within 21 calendar days of date of award.
509 Provide a copy of all the disposal receipts from the facility permitted by the
510 Department of Health to receive solid waste to the Engineer monthly. This
511 should also include documentation from any intermediary facility where solid
512 waste is handled or processed, or as directed by the Engineer.
513

514 **(G) Construction BMP Training.** The Contractor's representative
515 responsible for development of the Site-Specific BMP Plan and
516 implementation of Site-Specific BMPs in the field shall attend the State's
517 Construction Best Management Practices Training. The Contractor shall
518 keep training logs updated and readily available.
519

520 **209.04 Measurement.** The Engineer will measure Installation, maintenance,
521 monitoring, and removal of BMP as ordered by the Engineer on a force account
522 basis in accordance with the contract documents.
523

524 **209.05 Payment.** The Engineer will pay for accepted pay items listed below on
525 a force account basis in accordance with the contract documents. Payment will be
526 full compensation for work prescribed in this section and contract documents.
527

528 The Engineer will compute the actual amount paid to the Contractor for force
529 account work according to Subsection 109.06 – Force Account Provisions and
530 Compensation.
531

532 The Engineer will pay for each of the following pay items when included in
533 proposal schedule:
534

535 Pay Item	536 Pay Unit
537 Installation, Maintenance, Monitoring, and Removal of BMP	538 Force Account

539 An estimated amount for force account is allocated in proposal schedule
540 under 'Installation, Maintenance, Monitoring, and Removal of BMP', but actual
541 amount to be paid will be the sum shown on accepted force account records,
542 whether this sum be more or less than estimated amount allocated in proposal
543 schedule. The Engineer will pay for BMP measures requested by the Engineer on
544 a force account basis.

545
546 No progress payment will be authorized until the Engineer accepts in writing
547 Site-Specific BMP or when the Contractor fails to maintain project site in accordance
548 with accepted BMP.

549
550 For all citations or fines received by the Department for non-compliance,
551 including compliance with NPDES Permit conditions, the Contractor shall reimburse
552 State within 30 calendar days for full amount of outstanding cost State has incurred,
553 or the Engineer will deduct cost from progress payment.

554
555 The Engineer will assess liquidated damages up to \$27,500 per day for non-
556 compliance of each BMP requirement and all other requirements in this section.
557

558 **Appendix A**

559

560 The following list identifies potential pollutant sources and corresponding
561 BMPs used to mitigate the pollutants. Each BMP is referenced to the corresponding
562 section of the current HDOT Construction Best Management Practices Field Manual
563 or appropriate Supplemental Sheets. The Manual may be obtained from the HDOT
564 Statewide Stormwater Management Program Website at
565 <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/> under
566 Construction Best Management Practices Field Manual. Supplemental BMP sheets
567 are located at <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/>
568 under Concrete Curing
569 and Irrigation Water.
570

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
<p><i>Construction debris, green waste, general litter</i></p>	<ul style="list-style-type: none"> • <i>Separate contaminated clean up materials from construction and demolition (C&D) wastes.</i> • <i>Provide waste containers (e.g., dumpster or trash receptacle) of sufficient size and number to contain construction and domestic wastes.</i> • <i>Inspect construction waste and recycling areas regularly.</i> • <i>Schedule solid waste collection regularly.</i> • <i>Schedule recycling activities based on construction/demolition phases.</i> • <i>Empty waste containers weekly or when they are two-thirds full, whichever is sooner.</i> • <i>Do not allow containers to overflow. Clean up immediately if they do.</i> • <i>On work days, clean up and dispose of waste in designated waste containers.</i> • <i>See Solid Waste Management Section SM-6 for additional requirements.</i> • <i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</i> • <i>Collect and dispose of all waste materials in trash dumpsters. Place dumpsters, with secure watertight lids, away from storm water conveyances and drains, in a covered materials storage area.</i> • <i>Dispose of construction and non- construction solid waste in accordance with State DOH regs.</i> • <i>Load removed non- recyclable vegetation directly onto trucks; cover and transport to a licensed facility</i> 	<p><i>See Solid Waste Management Section SM-6. Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.</i></p>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
<p><i>Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage</i></p>	<ul style="list-style-type: none"> • <i>Use off-site wash racks, repair and maintenance facilities, and fueling sites when practical.</i> • <i>Designate bermed wash area if cleaning on site is necessary.</i> • <i>Place drip pans or drop cloths under vehicles and equipment to absorb spills or leaks.</i> • <i>Provide an ample supply of readily available spill cleanup materials.</i> • <i>Clean up spills immediately, using dry cleanup methods where possible, and dispose of used materials properly.</i> • <i>Do not clean surfaces or spills by hosing the area down.</i> • <i>Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.</i> • <i>Inspect on-site vehicles and equipment regularly and immediately repair leaks.</i> • <i>Regularly inspect fueling areas and storage tanks.</i> • <i>Train employees on proper maintenance and spill practices and procedures and fueling and cleanup procedures.</i> • <i>Store diesel fuel, oil, hydraulic fluid, or other petroleum products or other chemicals in water-tight containers and provide cover or secondary containment.</i> • <i>Do not remove original product labels and comply with manufacturer's labels for proper disposal.</i> • <i>Dispose of containers only after all the product has been used.</i> • <i>Dispose of or recycle oil or oily wastes according to Federal, State, and Local requirements.</i> • <i>Store soaps, detergents, or solvents under cover or other means to prevent contact with rainwater.</i> • <i>See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM-11, SM-12, and SM-13 and Material Storage and Handling Section SM-2 for additional requirements.</i> 	<p><i>See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM-11, SM-12, and SM-13, and Material Storage and Handling, Section SM-2, and Spill Prevention and Control SM-10.</i></p>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Soil erosion from the disturbed areas	<ul style="list-style-type: none"> • Provide Soil Stabilization, Slope Protection, Storm Drain Inlet Protection SC-1, Perimeter Controls and Sediment Barriers, Sediment Basins and Detention Ponds, Check Dams SC-3 ,Level Spreader EC-6, Paving Operations SM-20, Construction Roads and Parking Area Stabilization SC-10, Controlling Storm Water Flowing Onto and Through the Project, Post-Construction BMPs, and Non-Structural BMPs (Construction BMP Training SM-1, Scheduling SM-14, Location of Potential Sources of Sediment SM-15, Preservation of Existing Vegetation SM-17). • Delineate, and clearly mark off, with flags, tape, or other similar marking device all natural buffer areas defined in the SWPPP. • Preserve native topsoil where practicable. • In areas where vegetative stabilization will occur, restrict vehicle/equipment use in areas to avoid soil compaction or condition soil to promote vegetative growth. • For Storm Drain Inlet Protection, clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised. • Where there is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same day in which it is found or by the end of the following work day if removal by the same day is not feasible. • Sediment basins shall be designed and maintained in accordance with HAR Chapter 11-55. • Minimize disturbance on steep slopes (Greater than 15% in grade). • If disturbance of steep slopes are unavoidable, phase disturbances and use stabilization techniques designed for steep grades. • For temporary drains and swales use velocity dissipation devices within and at the outlet to minimize erosive flow velocities. 	<p>Soil Stabilization</p> <ol style="list-style-type: none"> 1. SM-22 Topsoil Management 2. EC-12 Seeding and Planting 3. EC-14 Mulching 4. EC-11 Geotextiles and Mats <p>Slope Protection</p> <ol style="list-style-type: none"> 1. EC-12 Seeding and Planting 2. EC-14 Mulching 3. EC-11 Geotextiles and Mats 4. EC-4 Slope Roughening, Terracing, and Rounding 5. EC-7 Slope Drains and Subsurface Drains 6. EC-9 Slope Interceptor or Diversion Ditches/Berms <p>SC-1 Storm Drain Inlet Protection</p>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
		<p><i>Perimeter Controls and Sediment Barriers</i></p> <ol style="list-style-type: none"> 1. <i>SC-7 Silt Fence or Filter Fabric Fence</i> 2. <i>SC-2 Vegetated Filter Strips and Buffers</i> 3. <i>SC-6 Compost Filter Berm/Sock</i> 4. <i>SC-8 Sandbag Barrier</i> 5. <i>SC-9 Brush or Rock Filter</i> <p><i>Sediment Basins and Detention Ponds</i></p> <ol style="list-style-type: none"> 1. <i>SC-4 Sediment Trap</i> 2. <i>SC-5 Sediment Basin</i> <p><i>SC-3 Check Dams</i></p> <p><i>EC-6 Level Spreader</i> <i>SM-20 Paving Operations</i> <i>SC-10 Construction Roads and Parking Area Stabilization</i></p>

575

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
		<p><i>Controlling Storm Water Flowing onto and Through the Project</i></p> <ol style="list-style-type: none"> 1. <i>EC-3 Run-On Diversion</i> 2. <i>EC-5 Earth Dike, Swales and Ditches</i> <p><i>Post Construction BMPs</i></p> <ol style="list-style-type: none"> 1. <i>EC-2 Flared Culvert End Sections</i> 2. <i>EC-10 Rip-Rap and Gabion Inflow Protection</i> 3. <i>EC-8 Outlet Protection and Velocity Dissipation Devices</i> 4. <i>SM-22 Topsoil Management</i> <p><i>Non-Structural BMPs</i></p> <ol style="list-style-type: none"> 1. <i>SM-1 Construction BMP Training</i> 2. <i>SM-14 Scheduling</i> 3. <i>SM-15 Location of Potential Sources of Sediment</i> 4. <i>SM-17 Preservation of Existing Vegetation</i>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
<i>Sediment from soil stockpiles</i>	<ul style="list-style-type: none"> • <i>Locate stockpiles a minimum of 50 feet or as far as practicable from concentrated runoff or outside of any natural buffers identified on the SWPPP.</i> • <i>Place bagged materials on pallets and under cover.</i> • <i>Provide physical diversion to protect stockpiles from concentrated runoff.</i> • <i>Cover stockpiles with plastic or comparable material when practicable.</i> • <i>Place silt fence, fiber filtration tubes, or straw wattles around stockpiles.</i> • <i>Do not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any storm water conveyance (unless connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or state water.</i> • <i>Unless infeasible, contain and securely protect stockpiles from the wind.</i> • <i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable. See Stockpile Management Section SM-3 for additional requirements.</i> 	<p><i>See Stockpile Management Section SM-3. Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.</i></p>
<i>Emulsified asphalt or prime/tack coat</i>	<ul style="list-style-type: none"> • <i>Provide training for employees and contractors on proper material delivery and storage practices and procedures.</i> • <i>Restrict paving operations during wet weather to prevent paving materials from being discharged.</i> • <i>Use asphalt emulsions such as prime coat when possible.</i> • <i>Protect drain inlet structures and manholes during application of tack coat, seal coat, slurry seal, and fog seal.</i> • <i>Keep ample supplies of drip pans and absorbent materials on site.</i> • <i>Inspect inlet protection devices.</i> • <i>See Material Storage and Handling Section SM-2 and Paving Operations Section SM-20 for additional requirements.</i> • <i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</i> 	<p><i>See Material Storage and Handling Section SM-2, and Stockpile Management Section SM-3, Paving Operations Section SM-20, Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.</i></p>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
<p><i>Materials associated with painting, such as paint and paint wash solvent</i></p>	<ul style="list-style-type: none"> • <i>Hazardous chemicals shall be well-labeled and stored in original containers.</i> • <i>Keep ample supply of cleanup materials on site.</i> • <i>Dispose container only after all of the product has been used.</i> • <i>Remove as much paint from brushes on painted surface.</i> • <i>Rinse from water-based paints shall be discharged into the sanitary sewer system where possible. If not, direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.</i> • <i>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</i> • <i>Do not dump liquid wastes into the storm drainage system.</i> • <i>Filter and re-use solvents and thinners.</i> • <i>Dispose of oil-based paints and residue as a hazardous waste.</i> • <i>Ensure collection, removal, and disposal of hazardous waste complies with regulations.</i> • <i>Immediately clean up spills and leaks.</i> • <i>Properly store paints, solvents, and epoxy compounds.</i> • <i>Properly store and dispose waste materials generated from painting and structure repair and construction activities.</i> • <i>Mix paints in a covered and contained area, when possible, to minimize adverse impacts from spills.</i> • <i>Do not apply traffic paint or thermoplastic if rain is forecasted.</i> • <i>See Material Storage and Handling Use SM-2, Hazardous Materials and Waste Management Section SM-9, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-21 for additional requirements.</i> <p><i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</i></p>	<p><i>See Material Storage and Handling Use Section SM-2, Stockpile Management Section SM-3, Hazardous Materials and Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-21, Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.</i></p>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
<p><i>Industrial chemicals, fertilizers, and/or pesticides</i></p>	<ul style="list-style-type: none"> • <i>Hazardous chemicals shall be well-labeled and stored in original containers.</i> • <i>Keep ample supply of cleanup materials on site.</i> • <i>Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.</i> • <i>Do not clean surfaces or spills by hosing the area down.</i> • <i>Eliminate the source of the spill to prevent a discharge or a furtherance of an ongoing discharge.</i> • <i>Dispose container only after all of the product has been used.</i> • <i>Retain a complete set of safety data sheets (formerly MSDS) on site.</i> • <i>Store industrial chemicals in water-tight containers and provide either cover or secondary containment.</i> • <i>Provide cover when storing fertilizers or pesticides to prevent these chemicals from coming into contact with rainwater.</i> • <i>Restrict amount of pesticide prepared to quantity necessary for the current application.</i> • <i>Do not apply fertilizers or pesticides during or just before a rain event.</i> • <i>Do not apply to stormwater conveyance channels with flowing water.</i> • <i>Comply with fertilizer and pesticide manufacturer's recommended usage and disposal instructions. Document departures from manufacturer's specifications in Attachment J.</i> • <i>Apply fertilizers at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth.</i> • <i>Follow federal, state, and local laws regarding fertilizer application.</i> • <i>Do not dispose of toxic liquid wastes (solvents, used oils, and paints) or chemicals (additives, acids, and curing compounds) in dumpsters allocated for construction debris.</i> 	<p><i>See Material Storage and Handling Use Section SM-2, Stockpile Management Section SM-3, and Hazardous Materials and Waste Management Section SM-9, and Spill Prevention and Control SM-10</i></p>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
	<ul style="list-style-type: none"> • <i>Ensure collection, removal, and disposal of hazardous waste complies with regulations. Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.</i> • <i>See Material Storage and Handling Use SM-2, and Hazardous Materials and Waste Management Section SM-9 for additional requirements.</i> 	
<p><i>Hazardous waste (Batteries, Solvents, Treated Lumber, etc.)</i></p>	<ul style="list-style-type: none"> • <i>Do not dispose of toxic materials in dumpsters allocated for construction debris.</i> • <i>Ensure collection, removal, and disposal of hazardous waste complies with regulations.</i> • <i>Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.</i> • <i>Segregate and recycle wastes from vehicle/equipment maintenance activities such as used oil or oil filters, greases, cleaning solutions, antifreeze, automotive batteries, and hydraulic and transmission fluids.</i> • <i>Store waste in sealed containers, which are constructed of suitable materials to prevent leakage and corrosion, and which are labeled in accordance with applicable Resource Conservation and Recovery Act (RCRA) requirements and all other applicable federal, state, and local requirements.</i> • <i>All containers stored outside shall be kept away from surface waters and within appropriately sized secondary containment (e.g., spill berms, decks, spill containment pallets). Provide cover if possible.</i> • <i>Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.</i> • <i>Do not clean surfaces or spills by hosing the area down.</i> • <i>Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.</i> 	<p><i>See Hazardous Materials and Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12</i></p>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
	<ul style="list-style-type: none"> • <i>Ensure collection, removal, and disposal of hazardous waste complies with manufacturer's recommendations and is in compliance with federal, state, and local requirements.</i> • <i>See Hazardous Materials and Waste Management Section SM-9 and Vehicle and Equipment Management, Vehicle and Equipment Maintenance SM-12 for additional requirements.</i> 	
<i>Metals and Building Materials</i>	<ul style="list-style-type: none"> • <i>Inspect construction waste and recycling areas regularly.</i> • <i>Schedule solid waste collection regularly.</i> • <i>If building materials or metals are stored on site (such as rebar or galvanized poles) store under cover under tarps or in containers.</i> • <i>Minimize the amount of material stored on site.</i> • <i>Do not stockpile uncovered metals or other building materials in close proximity to discharge points.</i> • <i>See Solid Waste Management Section SM-6 for additional requirements.</i> 	<i>See Solid Waste Management Section SM-6</i>
<i>Contaminated Soil</i>	<ul style="list-style-type: none"> • <i>See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Materials and Waste Management Section SM-9 for additional requirements.</i> • <i>At minimum contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheets.</i> 	<i>See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Materials and Waste Management Section SM-9</i>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
<i>Fugitive Dust Control and Dust Control Water</i>	<ul style="list-style-type: none"> • <i>Do not over spray water for dust control purposes which will result in runoff from the area.</i> • <i>Apply water as conditions require.</i> • <i>Washing down of debris or dirt into drainage, sewage systems, or State waters is not allowed.</i> • <i>Minimize exposed areas through the schedule of construction activities.</i> • <i>Utilize vegetation, mulching, sprinkling, and stone/gravel layering to quickly stabilize exposed soil.</i> • <i>Direct construction vehicle traffic to stabilized roadways.</i> • <i>Cover dump trucks hauling material from the site with a tarpaulin.</i> <p><i>See Dust Control Section SM-19 for additional requirements.</i></p>	<i>See Dust Control Section SM-19</i>
<i>Concrete Truck Wash Water</i>	<ul style="list-style-type: none"> • <i>Disposal of concrete truck wash water via percolation is prohibited.</i> • <i>Wash concrete-coated vehicles or equipment off-site or in the designated wash area.</i> • <i>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</i> • <i>Runoff from the on-site concrete wash area shall be contained in a temporary pit or level bermed area where the concrete can set.</i> • <i>Design the area so that no overflow can occur due to inadequate wash area sizing or precipitation.</i> • <i>The temporary pit shall be lined with plastic to prevent seepage of wash water into the ground.</i> • <i>Allow wash water to evaporate or collect wash water and all concrete debris in a concrete washout system bin.</i> • <i>Do not dump liquid wastes into storm drainage system.</i> • <i>Dispose of liquid and solid concrete wastes in compliance with federal, state, and local standards.</i> • <i>See Waste Management, Concrete Wash and Waste Management Section SM-4 for additional requirements.</i> 	<i>See Waste Management, Concrete Wash and Waste Management Section SM-4</i>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
<i>Sediment Track-Out</i>	<ul style="list-style-type: none"> • <i>Include Stabilized Construction Entrance at all points that exit onto paved roads.</i> • <i>A sediment trapping device is required if a wash rack is used in conjunction with the stabilized construction entrance/exit.</i> • <i>The pavement shall not be cleaned by washing down the street.</i> • <i>If sweeping is ineffective or it is necessary to wash the streets, wash water must be contained either by construction of a sump, diverting the water to an acceptable disposal area, or vacuuming the wash water.</i> • <i>Use BMPs for adjacent drainage structures.</i> • <i>Remove sediment tracked onto the street by the end of the day in which the track-out occurs.</i> • <i>Restrict vehicle use to properly designated exit points.</i> • <i>Include additional BMPs that remove sediment prior to exit when minimum dimensions cannot be met.</i> <p><i>See Stabilized Construction Entrance/Exit Section SC-11 for additional requirements.</i></p>	<i>See Stabilized Construction Entrance/Exit Section SC-11</i>
<i>Irrigation Water</i>	<ul style="list-style-type: none"> • <i>Consider irrigation requirements.</i> • <i>Where possible, avoid species which require irrigation.</i> • <i>Design, timing and application methods of irrigation water to eliminate the runoff of excess irrigation water into the storm water drainage system.</i> <p><i>See Seeding and Planting Section EC-12 and California Stormwater BMP Handbook SD-12 Efficient Irrigation included in SWPPP Attachment A for additional requirements.</i></p>	<i>See Seeding and Planting Section EC-12 and California Stormwater BMP Handbook SD-12 Efficient Irrigation</i>
<i>Hydrotesting Effluent</i>	<ul style="list-style-type: none"> • <i>If work includes removing, relocation or installing waterlines, and Contractor elects to flush waterline or discharge hydrotesting effluent into State waters or drainage systems, the Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form F application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Hydrotesting Activities if necessary. Site specific BMPs will be included in the NOI/NPDES Permit Form F submittal.</i> 	<i>Site specific BMPs will be included in the NOI/NPDES Permit Form F submittal.</i>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
<i>Dewatering Effluent</i>	<i>If excavation or backfilling operations require dewatering, and Contractor elects to discharge dewatering effluent into State waters or existing drainage systems, Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form G application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Dewatering Activities if necessary. See Site Planning and General Practices, Dewatering Operations Section SM-18 for additional requirements.</i>	<i>See Dewatering Operations SM-18. Site specific BMPs will be included in the NOI/NPDES Permit Form G submittal.</i>
<i>Saw-cutting Slurry</i>	<ul style="list-style-type: none"> • <i>Saw cut slurry shall be removed from the site by vacuuming.</i> • <i>Provide storm drain protection during saw cutting. See Paving Operations Section SM-20 for additional requirements.</i> <i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</i>	<i>See Paving Operations Section SM-20, Storm Drain Inlet Protection SC-1, Perimeter sediment controls where applicable</i>
<i>Concrete Curing Water</i>	<ul style="list-style-type: none"> • <i>Avoid overspraying of curing compounds.</i> • <i>Apply an amount of compound that covers the surface, but does not allow any runoff of the compound.</i> <i>See California Stormwater BMP Handbook NS-12 Concrete Curing included in SWPPP Attachment A for additional requirements.</i>	<i>See California Stormwater BMP Handbook NS-12 Concrete Curing</i>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
<i>Plaster Waste Water</i>	<ul style="list-style-type: none"> • <i>Direct all wastewater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.</i> • <i>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</i> • <i>Any significant residual materials remaining on the ground after the completion of construction shall be removed and properly disposed. If the residual materials contaminate the soil, then the contaminated soil shall also be removed and properly disposed of.</i> • <i>Plaster waste water shall not be allowed to flow into drainage structures or State waters. See Material, Storage and Handling Use SM-2, Stockpile Management Use Section SM-3, and Hazardous Materials and Waste Management Section SM-9 for additional requirements.</i> 	<i>See Material, Storage and Handling Use Section SM-2, Stockpile Management Use Section SM-3, and Hazardous Materials and Waste Management Section SM-9</i>
<i>Water-Jet Wash Water</i>	<ul style="list-style-type: none"> • <i>For Water-Jet Wash Water used to clean vehicles, use off site wash racks or commercial washing facilities when practical.</i> • <i>See Vehicle and Equipment Cleaning Section SM-11 for additional information.</i> • <i>For Water-Jet Wash Water used to clean impervious surfaces, the runoff shall not be allowed to flow into drainage structures or State Waters.</i> 	<i>See Vehicle and Equipment Cleaning Section SM-11</i>
<i>Sanitary/Septic Waste</i>	<ul style="list-style-type: none"> • <i>Locate Sanitary facilities in a convenient place away from drainage facilities.</i> • <i>Position sanitary facilities so they are secure and will not be tipped over or knocked down.</i> • <i>Wastewater shall not be discharged to the ground or buried.</i> • <i>A licensed service provider shall maintain sanitary/septic facilities in good working order.</i> • <i>Schedule regular waste collection by a licensed transporter.</i> • <i>See Sanitary Waste Section SM-7 for additional requirements.</i> 	<i>See Sanitary Waste Section SM-7.</i>

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END OF SECTION 209

STP-0700(089)

209-28a

1-14-22

1 **SECTION 301 – HOT MIX ASPHALT BASE COURSE**

2
3 Make the following amendments to said Sections:

4
5 **(I)** Amend **Section 301.03(B) Compaction** by revising the second
6 paragraph from lines 84 to 87 to read as follows:

7
8 “Compact mixture immediately upon completion of spreading
9 operations to density of not less than 92.0 percent of maximum theoretical
10 specific gravity in accordance with AASHTO T 209, modified by deletion of
11 Supplemental Procedure for Mixtures Containing Porous Aggregate.”

12
13
14 **(II)** Amend **Section 301.04 Measurement** from lines 98 to 100 to read as
15 follows:

16
17 **“301.04 Measurement.**

18
19 **(A)** The Engineer will measure HMAB course per ton in accordance
20 with contract documents.”

21
22
23 **(III)** Amend **Section 301.05 Payment**, from lines 102 to 111 to read as
24 follows:

25
26 **“301.05 Payment.** The Engineer will pay for the accepted pay items
27 listed below at the contract price per pay unit, as shown in the proposal schedule.
28 Payment will be full compensation for the work prescribed in this section and the
29 contract documents.

30
31 The Engineer will pay for one of the following pay items when included in
32 the proposal schedule:

33

	Pay Item	Pay Unit
(A)	Hot Mix Asphalt Base Course _____	Ton

34
35

36
37
38 **(1)** 80% of the contract unit price upon completion of submitting
39 a job-mix formula acceptable to the Engineer; preparing the
40 surface, spreading, and finishing the mixture; and compacting the
41 mixture by rolling;

42
43 **(2)** 20% of the contract unit price upon completion of cutting
44 samples from the compacted pavement for testing; placing and
45 compacting the sampled area with new material conforming to the
46 surrounding area; protecting the pavement; and final analysis.

47
48
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The Engineer may, in lieu of requiring removal and replacement, use the sliding scale factor to accept HMAB compacted below 92.0 percent. The Engineer will make payment for the material in that production day at a reduced price arrived at by multiplying the contract unit price by the pay factor shown in Table 301.05-1.

Table 301.05-1 – Sliding Scale Pay Factor	
Percent Compaction	Percent Payment
92.0 or greater	100
90.0 – 91.9	80
<90.0	Removal

54
55
56
57

END OF SECTION 301

1 Amend **Section 401 – HOT MIX ASPHALT (HMA) PAVEMENT** to read as
 2 follows:

3
 4 **“SECTION 401 – HOT MIX ASPHALT (HMA) PAVEMENT**

5
 6 **401.01 Description.** This section describes furnishing and placing dense graded
 7 HMA pavement (herein referred to as HMA) on a prepared surface.

8
 9 **401.02 Materials.**

10
 11 Asphalt Cement (PG 64-16) 702.01(A)

12
 13 Use for non-surface mixes, unless otherwise specified in the project documents.

14
 15 Asphalt Cement (PG 64E-22) 702.01(B)

16
 17 Use for all surface mixes, except for on Lanai and Molokai, and unless otherwise
 18 specified in the project documents. Polymer modified asphalt (PMA) pavement
 19 refers to asphalt mix using PG 64E-22, unless otherwise indicated.

20
 21 Emulsified Asphalt 702.04

22
 23 Warm Mix Asphalt Additive 702.06

24
 25 Aggregate for Hot Mix Asphalt Pavement 703.09

26
 27 Filler 703.15

28
 29 Hydrated Lime or a liquid anti-strip approved by the engineer 712.03

30
 31 **(A) General.** HMA pavement shall be plant mixed and shall include
 32 mixture of aggregate and asphalt binder and may include reclaimed asphalt
 33 pavement (RAP) or filler, or both.

34
 35 Polymer Modified Asphalt (herein referred to as PMA) pavement shall
 36 conform to all HMA pavement requirements, but with the use of asphalt
 37 binder specified in Subsection 702.01(B) – Asphalt Cement (PG 64E-22).

38
 39 The manufacture of HMA may include warm mix asphalt (WMA)
 40 processes in accordance with these specifications. WMA processes include
 41 combinations of organic additives, chemical additives, and foaming.

42
 43 HMA pavement shall include surface course and may include one or
 44 more binder courses, depending on HMA pavement thickness indicated in
 45 the contract documents.

47 RAP is defined as removed or reprocessed pavement materials
 48 containing asphalt and aggregates. Process RAP by crushing until 100
 49 percent of RAP passes 3/4-inch sieve. Size, grade uniformly, and combine
 50 materials such that blend of RAP and aggregate material conforms to grading
 51 requirements of Subsection 703.09 - Aggregate for Hot Mix Asphalt
 52 Pavement.

53
 54 In surface and binder courses, aggregate for HMA may include RAP
 55 quantities up to 20 percent of total mix weight.

56
 57 Quantity of filler material to correct deficiencies in aggregate gradation
 58 passing the No. 200 sieve shall not exceed 3 percent by weight of fine
 59 aggregates.

60
 61 **(B) Job-Mix Formula and Tests.** Design job-mix formula in accordance
 62 with procedures contained in current edition of Asphalt Institute's *Mix Design*
 63 *Methods for Asphalt Concrete and Other Hot Mix Types*, Manual Series No.
 64 2 (MS-2) for either Marshall Method or Hveem Method of Mix Design.

65
 66 Limit compacted lift thickness and asphalt content of job-mix formula
 67 as specified in Table 401.02-1 - Limits of Compacted Lift Thickness and
 68 Asphalt Content.

TABLE 401.02-1 - LIMITS OF COMPACTED LIFT THICKNESS AND ASPHALT CONTENT				
MIX NO.	II	III	IV	V
Minimum to Maximum Compacted Thickness for Individual Lifts (Inches)	2-1/4 to 3	2 to 3	1-1/2 to 3	1-1/4 to 3
Asphalt Content Limits (Percent of Total Weight of Mix)	3.8 to 6.1	4.3 to 6.1	4.3 to 6.5	4.8 to 7.0

69
 70
 71 Asphalt content limits for porous aggregate may be exceeded only if it
 72 is requested ahead of placement and is reviewed then accepted in writing by
 73 the Engineer.

74
 75 Meet job-mix formula design criteria specified in Table 401.02-2 - Job-
 76 Mix Formula Design Criteria.

79

TABLE 401.02-2 - JOB-MIX FORMULA DESIGN CRITERIA	
Hveem Method Mix Criteria (AASHTO T 246 and AASHTO T 247)	
Stability, minimum	37
Air Voids (percent) ¹	3 - 5
Marshall Method Mix Criteria (AASHTO T 245)	
Compaction (number of blows each end of specimen)	75
Stability, minimum (pounds)	1,800
Flow (x 0.01 inch)	8 - 16
Air Voids (percent) ¹	3 - 5
Notes:	
1. Air Voids: AASHTO T 166 or AASHTO T 275; AASHTO T 209, AASHTO T 269.	

80

81

82

83

84

Minimum percent voids in mineral aggregates (VMA) of job-mix formula shall be as specified in Table 401.02-3 - Minimum Percent Voids in Mineral Aggregates (VMA).

TABLE 401.02-3 - MINIMUM PERCENT VOIDS IN MINERAL AGGREGATES (VMA)					
Nominal Maximum Particle Size, (Inches)	1-1/2	1	3/4	1/2	3/8
VMA, (percent) ¹	11.0	12.0	13.0	14.0	15.0
Notes:					
1. VMA: See Asphalt Institute Manual MS-2					

85

86

87

88

89

90

(C) Submittals. Establish and submit job-mix formula for each type of HMA pavement mix indicated in the contract documents a minimum of 30 days before paving production. Job mix shall include the following applicable information:

91

(1) Design percent of aggregate passing each required sieve size.

92

93

(2) Design percent of asphalt binder material (type determined by type of mix) added to the aggregate (expressed as % by weight of total mix),

94

95

96

(3) Design proportion of processed RAP.

97

98

(4) Design temperature of mixture at point of discharge at paver.

99

100

- 101 (5) Source of aggregate.
 102
 103 (6) Grade of asphalt binder.
 104
 105 (7) Test data used to develop job-mix formula.
 106

107 Except for item (4) in this subsection, if design requirements are
 108 modified after the Engineer accepts job-mix formula, submit new job-mix
 109 formula before using HMA produced from modified mix design. Submit any
 110 changes to the design temperature of mixture at point of discharge for
 111 acceptance by the Engineer.
 112

113 Submit a certificate of compliance for the asphalt binder, accompanied
 114 by substantiating test data from a certified testing laboratory.
 115

116 **(D) Range of Tolerances for HMA.** Provide HMA within allowable
 117 tolerances of accepted job-mix formula as specified in Table 401.02-4 -
 118 Range of Tolerances. These tolerances are not to be used for the design of
 119 the job mix, they are solely to be used during the testing of the production
 120 field sample of the HMA mix.
 121

TABLE 401.02-4 - RANGE OF TOLERANCES HMA	
Passing No. 4 and larger sieves (percent)	± 7.0
Passing No. 8 to No. 100 sieves (inclusive) (percent)	± 4.0
Passing No. 200 sieve (percent)	± 3.0
Asphalt Content (percent)	± 0.4
Mixture Temperature (degrees F)	± 20

122 The tolerances shown are the allowable variance between the physical
 123 characteristics of laboratory job mix submitted mix design and the production
 124 or operational mix, i.e., field samples.
 125
 126

127 **401.03 Construction.**

128
 129 **(A) Weather Limitations.** Placement of HMA shall not be allowed under
 130 the following conditions:
 131

- 132 (1) On wet surfaces, e.g., surface with ponding or running water,
 133 surface that has aggregate or surface that appears beyond surface
 134 saturated dry, as determined by the Engineer.
 135

136 (2) When air temperature is below 50 degrees F and falling. HMA
137 may be applied when air temperature is above 40 degrees F and
138 rising. Air temperature will be measured in shade and away from
139 artificial heat.

140
141 (3) When weather conditions prevent proper method of
142 construction.

143
144 **(B) Equipment.**

145
146 (1) **Mixing Plant.** Use mixing plants that conform to AASHTO M
147 156, supplemented as follows:

148
149 (a) **All Plants.**

150
151 1. **Automated Controls.** Control proportioning,
152 mixing, and mix discharging automatically. When RAP
153 is incorporated into mixture, provide positive controls for
154 proportioning processed RAP.

155
156 2. **Dust Collector.** AASHTO M 156, Requirements
157 for All Plants, Emission Controls is amended as follows:

158 Equip plant with dust collector. Dispose of
159 collected material. In the case of baghouse dust
160 collectors, dispose of collected material or return
161 collected material uniformly.

162
163 3. **Modifications for Processing RAP.** When RAP
164 is incorporated into mixture, modify mixing plant in
165 accordance with plant manufacturer's recommendations
166 to process RAP.

167
168 (b) **Drum Dryer-Mixer Plants.**

169
170 1. **Bins.** Provide separate bin in cold aggregate
171 feeder for each individual aggregate stockpile in mix.
172 Use bins of sufficient size to keep plant in continuous
173 operation and of proper design to prevent overflow of
174 material from one bin to another.
175
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2. Stockpiling Procedures. Separate aggregate for Mix II, Mix III and Mix IV into at least three stockpiles with different gradations as follows: coarse, intermediate, and fine. Separate aggregates for Mix V into at least two stockpiles. Stockpile RAP separately from virgin aggregates.

3. Checking Aggregate Stockpile. Check condition of the aggregate stockpile often enough to ensure that the aggregate is in optimal condition.

(c) Batch and Continuous Mix Plants.

1. Hot Aggregate Bin. Provide bin with three or more separate compartments for storage of screened aggregate fractions to be combined for mix. Make partitions between compartments tight and of sufficient height to prevent spillage of aggregate from one compartment into another.

2. Load Cells. Calibrated load cells may be used in batch plants instead of scales.

(2) Hauling Equipment. Use trucks that have tight, clean, smooth metal beds for hauling HMA.

Thinly coat truck beds with a minimum quantity of non-stripping release agent to prevent mixture from adhering to beds. Diesel or petroleum-based liquid release agents, except for paraffin oil, shall not be used. Drain excess release agent from truck bed before loading with HMA.

Provide a designated clean up area for the haul trucks.

Equip each truck with a tarpaulin conforming to the following:

(a) In good condition, without tears and holes.

(b) Large enough to be stretched tightly over truck bed, completely covering mix. The tarpaulin shall be secured in such a manner that it remains stretched tightly over truck bed and HMA mix until the bed is about to be raised up in preparation for discharge.

(3) Asphalt Pavers. Use asphalt pavers that are:

- 223 (a) Self-contained, power-propelled units.
224
- 225 (b) Equipped with activated screed or strike-off assembly,
226 heated if necessary.
227
- 228 (c) Capable of spreading and finishing courses of HMA
229 mixtures in lane widths applicable to typical section and
230 thicknesses indicated in the contract documents.
231
- 232 (d) Equipped with receiving hopper having sufficient
233 capacity for uniform spreading operation.
234
- 235 (e) Equipped with automatic feed controls to maintain
236 uniform depth of material ahead of screed.
237
- 238 (f) Equipped with automatic screed controls with sensors
239 capable of sensing grade from outside reference line, sensing
240 transverse slope of screed, and providing automatic signals to
241 control screed grade and transverse slope.
242
- 243 (g) Capable of operating at constant forward speeds
244 consistent with satisfactory laying of mixture.
245
- 246 (h) Equipped with a means of preventing the segregation of
247 the coarse aggregate particles from the remainder of the
248 bituminous plant mix when that mix is carried from the paver
249 hopper back to the paver augers. The means and methods
250 used shall be approved by the paver manufacturer and may
251 consist of chain curtains, deflector plates, or other such devices
252 and any combination of these.
253

254 The following specific requirements shall apply to the
255 identified bituminous pavers:
256

- 257 1. **Blaw-Knox Bituminous Pavers.** Blaw-Knox
258 bituminous pavers shall be equipped with the
259 Blaw-Knox Materials Management Kit (MMK).
260
- 261 2. **Cedarapids Bituminous Pavers.** Cedarapids
262 bituminous pavers shall be those that were
263 manufactured in 1989 or later.
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- 3. Barber-Green/Caterpillar Bituminous Pavers.**
Barber-Green/Caterpillar bituminous pavers shall be equipped with deflector plates as identified in the December 2000 Service Magazine entitled "New Asphalt Deflector Kit {6630, 6631, 6640}".

Bituminous pavers not listed above shall have similar attachments or designs that shall make them equivalent to the bituminous pavers listed above. The Engineer will solely decide if it is equal to or better than the setups described for the equipment listed above.

Submit for review and acceptance, prior to the start of using the paver for the placing of plant mix, a full description in writing of the means and methods that will be used to prevent the bituminous paver from having both aggregate and temperature segregation. Use of any paver that has not been accepted is prohibited until acceptance of the paver is received from the Engineer. Any pavement placed with an unaccepted paver will be regarded as not compliant work and may not be paid for and may require removal.

Supply a Certificate of Compliance that verifies that the manufacturer's approved means and methods used to prevent bituminous paver from having both aggregate and temperature segregation have been implemented on all pavers used on the project and are working in accordance with the manufacturer's requirements and Contract Documents.

- (4) Rollers.** Rollers shall be self-propelled, steel-tired tandem, pneumatic-tired, or vibratory-type rollers capable of reversing without shoving or tearing the just placed HMA mixture. Provide sufficient number, sequencing, type, and rollers of sufficient weight to compact the mixture to required density while mixture is still in workable condition unless otherwise indicated. Equipment shall not excessively crush aggregate. Operate rollers in accordance with manufacturer's recommendations and Contract Documents. The use of intelligent compaction is encouraged and may be required elsewhere in the Contract Documents.

- (a) Steel-Tired Tandem Rollers.** Steel-tired tandem rollers used for initial breakdown or intermediate roller passes shall have minimum gross weight of 12 tons and shall provide minimum 250-pound weight per linear inch of width on drive wheel.

311 Steel-tired tandem rollers used for finish roller passes
312 shall have minimum total gross weight of 3 tons.

313
314 Do not use roller with grooved or pitted rolling drum or
315 worn scrapers or wetting pads. Replace excessively worn
316 scrapers and wetting pads before use.

317
318 **(b) Pneumatic-Tired Rollers.** Pneumatic-tired rollers shall
319 be oscillating-type, equipped with smooth-tread pneumatic tires
320 of equal size and diameter. Maintain tire pressure within 5
321 pounds per square inch of designated operational pressure
322 when hot. Space tires so that gaps between adjacent tires are
323 covered by following set of tires.

324
325 Pneumatic-tired rollers used for breakdown or
326 intermediate roller passes shall have a ballast capable of
327 establishing an operating weight per tire of not less than 3,000
328 pounds. Equip rollers with tires having minimum 20-inch wheel
329 diameter with tires inflated to 70 to 75 pounds per square inch
330 pressure when cold and 90 pounds per square inch when hot.
331 Equip rollers with skirt-type devices to maintain temperature of
332 tires during rolling operations.

333
334 Pneumatic-tired rollers used for kneading finished
335 asphalt surfaces shall have a ballast capable of establishing an
336 operating weight per tire of not less than 1,500 pounds. Equip
337 rollers with tires having minimum 15-inch wheel diameter with
338 tires inflated to 50 to 60 pounds per square inch pressure. If
339 required, equip rollers with skirt-type devices to maintain
340 temperature of tires during rolling operations.

341
342 **(c) Vibratory Rollers.** Vibratory rollers shall be steel-tired
343 tandem rollers having minimum total weight of 3 tons. Equip
344 vibratory rollers with amplitude and frequency controls and
345 speedometer. Operate vibratory roller in accordance with
346 manufacturer's recommendations. For very thin lifts, 1 inch or
347 less in thickness, vibratory rollers shall not be used in the
348 vibratory mode. Instead, operate the unit in the static mode.

349
350 **(5) Hand Tools.** Keep hand tools used in production, hauling, and
351 placement of HMA clean and free of contaminants. Diesel or mineral
352 spirits or other cleaning material that is potentially deleterious to HMA
353 may be used to clean hand tools providing:

354
355 **(a)** It does not contaminate HMA with cleaning material.
356

357 (b) Clean hand tools over catch pan with capacity to hold all
358 the cleaning material.

359
360 (c) Remove all diesel or mineral spirits or other cleaning
361 material that is potentially deleterious to HMA from hand tools
362 before using with HMA.

363
364 (d) Hand tools used shall be in a condition such that it meets
365 the requirements that it was manufactured for, e.g., a
366 straightedge shall meet the straightness requirement of the
367 manufacturer.

368
369 **(6) Material Transfer Vehicle (MTV).**

370
371 (a) **Usage.** MTV usage applies to surface courses of paving
372 projects on all Islands except Lanai, unless otherwise indicated.
373 When placing HMA surface course use MTV to independently
374 deliver mixtures from hauling equipment to paving equipment.
375 MTV usage will not be required for the following:

- 376
377 1. Projects with less than 1,000 tons of HMA.
378
379 2. Temporary pavements.
380
381 3. Bridge deck approaches.
382
383 4. Shoulders.
384
385 5. Tapers.
386
387 6. Turning lanes.
388
389 7. Driveways.
390
391 8. Areas with low overhead clearances.

392
393 (b) **Equipment.** When using MTV, install minimum 10-ton-
394 capacity hopper insert in conventional paver hopper. Provide
395 the following equipment:

- 396
397 1. High-capacity truck unloading system in MTV
398 capable of receiving HMA from hauling equipment.
399
400 2. MTV storage bin with minimum 15-ton capacity.
401
402 3. An auger mixing system in one of the following:

403 the MTV storage bin, or paver hopper insert, or paver
404 hopper to continuously mix HMA prior to discharging to
405 the paver's conveyor system.
406

407 Avoid stop-and-go operations by coordinating plant
408 production rate, number of haul units, and MTV and paver
409 speeds to provide a continuous, uniform, segregation-free
410 material flow and smooth HMA pavement. Maintain uniform
411 paver speed to produce smooth pavements.
412

413 **(c) Performance Evaluation.** Evaluate the performance
414 of MTV and mixing equipment by measuring mat temperature
415 profile immediately behind paver screed on first day of paving
416 and when it feels the need to do so due to perceived changes
417 in performance or as directed by the Engineer.
418

419 Use a hand-held temperature device that has been
420 calibrated within the past 12 months. It shall be an infrared
421 temperature gun is capable of measuring in one degree or finer
422 increments between the temperatures of 80 degrees to 400
423 degrees F with a laser to indicate where the temperature
424 reading is being taken. Six temperature profile measurements
425 shall be taken of mat surface using infrared temperature gun at
426 50-foot intervals behind paver. Each temperature profile shall
427 consist of three surface temperature measurements taken
428 transversely across the mat in approximately a straight line
429 from screed while paver is operating. For each profile,
430 temperatures shall be measured approximately 1 foot from
431 each edge and in middle of mat. The difference between
432 maximum and minimum temperature measurements for each
433 temperature profile shall not exceed 10 degrees F. If any two
434 or more temperature profiles exceeds the allowable 10-degree
435 F temperature differential, halt paving operation and adjust
436 MTV or mixing equipment to ensure that material placed by
437 paver meets specified temperature requirements. Redo the
438 measuring of mat temperature profile until adjustment of the
439 MTV or mixing equipment is adequate. Submit all temperature
440 profiles to the Engineer by next business day. Information on
441 the report shall show location and temperature readings and
442 time test was performed. Enough information shall be given,
443 so the Engineer will be able to easily locate the test site of the
444 individual measurement.
445

446 When requested temperature profile measurements
447 shall be done in the presence of the Engineer.

448 Once adjustments are made, repeat measurement
449 procedure for the next two placements to verify that material
450 placed by paver meets specified temperature requirements.
451 Terminate paving if temperature profile requirements are not
452 met during repeated measurement procedure. If equipment
453 fails to meet requirements after measurement procedure is
454 repeated once, replace equipment before conducting any
455 further temperature profile measurements
456

457 The Engineer may perform surface temperature profile
458 measurements at any time during project. The Engineer may
459 in lieu of a hand-held infrared temperature device use an
460 infrared camera or device that is capable of measuring
461 temperatures to locate cold spots. If such cold spots exist, the
462 Engineer may require adjustments to the MTV.
463

464 If bleeding or fat spots occur in the pavement adjust
465 means and methods to eliminate such pavement defects and
466 perform remedial repair to pavement acceptable to the
467 Engineer. Bleeding is defined as excess binder occurring on
468 the surface of the pavement. It may create a shiny, glass-like,
469 reflective appearance and may be tacky to the touch. Fat spots
470 are localized bleeding.
471

472 **(d) Transport.**
473

474 **1. Trailered MTV.** Transport MTV by means of
475 truck-tractor/trailer combination in accordance with
476 Chapter 104 of Title 19, Department of Transportation,
477 entitled "The Movement by Permit of Oversize and
478 Overweight Vehicles on State Highways".
479

480 **2. Crossing Bridges for Self-Powered MTV.**
481 When self-powered MTV exceeds legal axle or total
482 weight limits for vehicles under the HRS, Chapter 291,
483 conform to the following when crossing bridges within
484 project limits unless otherwise indicated:
485

486 **a.** Completely remove mix from MTV.
487

488 **b.** Move MTV at relatively constant speed not
489 exceeding 5 miles per hour. MTV will not be
490 allowed to stop on bridge.
491

492 c. No other vehicle or equipment will be
493 allowed on bridge.

494
495 d. The MTV shall not attempt to cross a
496 bridge where the posted load limit is less than or
497 equal to the weight of the MTV empty.
498 Permission to cross the bridge shall be obtained
499 from the Engineer and HWY-DB in writing.
500

501 **(C) Preparation of Surface.** Clean existing pavement in accordance with
502 Section 310 - Brooming Off. Apply tack coat in accordance with Section 407
503 - Tack Coat. Tack coat shall not be applied to surfaces to receive an
504 application of joint adhesive.
505

506 Where indicated, bring irregular surfaces to uniform grade and cross
507 section by furnishing and placing one or more leveling courses of HMA Mix
508 V. Spread leveling course in variable thicknesses to eliminate irregularities
509 in existing surface. Place leveling course such that maximum depth of each
510 course, when thoroughly compacted to the Contract Documents'
511 requirements, does not exceed 3 inches.
512

513 In multiple-lift leveling course construction, spread subsequent lifts
514 beyond edges of previously spread lifts in accordance with procedures
515 contained in current edition of the Asphalt Institute's *Construction of Hot Mix*
516 *Asphalt Pavements*, Manual Series No. 22 (MS-22) for leveling wedges.
517

518 Notify the Engineer of existing surfaces that may not be in a condition
519 that will have enough strength to be a good bonding surface or foundation
520 and should be removed or have remedial repairs done before new pavement
521 placement.
522

523 **(D) Plant Operation.**
524

525 **(1) Preparation of Asphalt Binder.** Uniformly heat asphalt binder
526 and provide continuous supply of heated asphalt cement from storage
527 to mixer. Do not heat asphalt binder above the recommendation of
528 the supplier for modified binders or above 350 degrees F for neat
529 binders.
530

531 **(2) Preparation of Aggregate.** Dry and heat aggregate material
532 at temperature sufficient to produce design temperature of job-mix
533 formula. Do not exceed 350 degrees F. Adjust heat source used for
534 drying and heating to avoid damage to and contamination of
535 aggregate. When dry, aggregate shall not contain more than 1
536 percent moisture by weight.
537

For batch plants, screen aggregates immediately after heating

538 and drying into three or more fractions. Convey aggregates into
539 separate compartments ready for batching and mixing with asphalt
540 binder.

541
542 **(3) Mixing.** Measure aggregate and asphalt; or aggregate, RAP,
543 and asphalt into mixer in accordance with an accepted job-mix
544 formula. Mix until components are completely mixed and adequately
545 coated with asphalt binder in accordance with AASHTO M 156.
546 Percent of coated particles shall be 95 percent when tested in
547 accordance with AASHTO T 195.

548
549 **(4) Plant Inspection.** For control and acceptance testing during
550 periods of production, provide a testing laboratory that meets the
551 requirements of AASHTO M 156. Provide space, utilities, and
552 equipment required for performing specified tests.

553
554 **(E) Spreading and Finishing.** Prior to each day's paving operation,
555 check screed or strike-off assembly surface with straight edge to ensure
556 straight alignment and there is no damage or wear to the machine that will
557 affect performance. Provide screed or strike-off assembly that produces
558 finished surface without tearing, shoving, and gouging HMA. Discontinue
559 using spreading equipment that leaves ridges, indentations, or other marks,
560 or combination thereof in surface that cannot be eliminated by rolling or
561 affects the final smoothness of the pavement or be prevented by adjustment
562 in operation.

563
564 Maintain HMA at minimum 250 degrees F temperature at discharge to
565 paver. The Engineer shall observe the contractor measuring the temperature
566 of mix in hauling vehicle just before depositing into spreader or paver or MTV.

567
568 Deposit HMA in a manner that minimizes segregation. Raise truck
569 beds with tailgates closed before discharging HMA.

570
571 Lay, spread, and strike off HMA upon prepared surface. Where
572 practical, use asphalt pavers to distribute mixture.

573
574 Where practical, control horizontal alignment using automatic grade
575 and slope controls from reference line, slope control device. Existing
576 pavements or features shall not be used for grade control alone.

577
578 Obtain sensor grade reference, horizontal alignment by using
579 established grade and slope controls. For subsequent passes, substitution
580 of one ski with joint-matching shoe riding on finished adjacent pavement is
581 acceptable. Use of a comparable non-contact mobile reference system and
582 joint matching shoe is acceptable.

583 Avoid stop-and-go operation. Maintain a constant forward speed of

584 paver during paving operation and minimize other methods that impact
585 smoothness.

586
587 Offset longitudinal joint in successive lifts by approximately 6 inches.
588 Incorporate into paving method an overlap of material of 1-inch +/- 0.5 inches
589 at the longitudinal joint. The HMA overlap material shall be left alone when
590 initially placed and shall not be bumped back or pushed back with a lute or
591 any other hand-held device. If the overlap exceeds the maximum amount,
592 remove the excess with a flat shovel, allowing recommended amount of
593 overlap HMA material to remain in place to be compacted. Do not throw the
594 removed excess HMA material on to the paving mat. The longitudinal joint
595 in a surface course when total roadway width is comprised of two lanes shall
596 be near the centerline of pavement or near lane lines when roadway is more
597 than two lanes in width. The longitudinal joint shall not be constructed in the
598 wheel path or under the longitudinal lane lines. Make a paving plan drawing
599 showing how the longitudinal joint will not be located in these areas.

600
601 Control the horizontal alignment of the longitudinal edge of the HMA
602 mat being installed so that the edge is parallel to the centerline or has a
603 uniform alignment, e.g., the edge of the mat is straight line or uniform curve,
604 no wavy edge, etc. to have a consistent amount of HMA material at the joint.

605
606 Check the compaction of the longitudinal joint during paving often
607 enough to ensure that it will meet the compaction requirements.

608
609 If nuclear gauges and ground penetrating radar are used as the
610 contractor's quality control method, they shall be properly calibrated and
611 periodically checked by comparison to cores taken from the pavement. The
612 use of sand as an aid in properly seating the gauge may also be considered
613 for improving the accuracy of the gauge.

614
615 In areas where irregularities or unavoidable obstacles make use of
616 mechanical spreading and finishing equipment impracticable, spread, rake,
617 and lute mixture by hand tools. For such areas, deposit, spread evenly, and
618 screed mixture to required compacted thickness.

619

620 Demonstrate competence of personnel operating grade and crown
621 control device before placing surface courses. If automatic control system
622 becomes inoperative during the day's work, the Engineer will permit the
623 Contractor to finish day's work using manual controls. The Engineer may
624 also allow additional HMA to be ordered and placed using manual controls if
625 it will provide a safer work site for the public to travel through. Do not resume
626 work until automatic control system is made operative. The Engineer may
627 waive requirement for electronic screed control device when paving gores,
628 shoulders, transitions, and miscellaneous reconstruction areas where the
629 use of the devices is not practical.

630
631 When production of HMA can be maintained and when practicable,
632 use pavers in echelon shall be used to place surface course in adjacent
633 lanes.

634
635 At the end of each workday, HMA pavement that is open to traffic shall
636 not extend beyond the panel of the adjacent new lane pavement by more
637 than the distance normally placed in one workday. At end of each day's
638 production, construct tapered transitions along all longitudinal and transverse
639 pavement drop-offs; this shall apply to areas where existing pavement is to
640 meet newly placed pavement. Use slopes of 6:1 for longitudinal taper
641 transitions and 48:1 for transverse tapered transitions. Maximum drop-off
642 height along the joints shall be 3 inches. Also, using a 48:1 slope provides a
643 taper around any protruding object, e.g., manholes, drain boxes, survey
644 monuments, inlets, etc., that may be above pavement surface when opened
645 to the public. If the object is below the surface of the pavement then fill the
646 depression until it is level with the surrounding pavement or raise depressed
647 objects to the finish grade of the placed pavement. Remove and dispose of
648 all transition tapers before placing adjoining panel or next layer of HMA.
649 Notify traveling public of pavement drop-offs or raised objects with signs
650 placed in every direction of traffic that may use and encounter pavement
651 drop-offs or protruding objects or holes.

652
653 Use the same taper rates for areas where there is a difference in
654 elevation due to construction work.

655
656 At end of each workweek, complete full width of the roadway's
657 pavement, including shoulders, to same elevation with no drop-offs.

658 **(F) Compaction.** Immediately after spreading and striking off HMA and
659 adjusting surface irregularities, uniformly compact mixture by rolling.

660
661
662 Initiate compaction at highest mix temperature allowing compaction
663 without excessive horizontal movement. Temperature shall not be less than
664 220 degrees F.
665

666 Finish rolling using tandem roller while HMA temperature is at or
667 above 175 degrees F.

668
669 On superelevated curves, begin rolling at lower edge and progress to
670 higher edge by overlapping of longitudinal trips parallel to centerline.

671
672 If necessary, repair damage immediately using rakes and fresh mix.
673 Do not displace line and grade of HMA edges during rolling.

674
675 Keep roller wheels properly moistened with water or water mixed with
676 small quantities of detergent. Use of excess liquid, diesel, and petroleum-
677 based liquids will not be allowed on rollers.

678
679 Along forms, curbs, headers, walls and other places not accessible to
680 rollers, compact mixture with hot hand tampers, smoothing irons, or
681 mechanical tampers. On depressed areas, trench roller or cleated
682 compression strips under roller may be used to transmit compression.

683
684 Before the start of compaction or during compaction or both remove
685 pavement that is loose, broken, or contaminated, or combination thereof;
686 pavement that shows an excess or deficiency in asphalt binder content; and
687 pavement that is defective in any way. Replace with fresh HMA pavement of
688 same type, and compact. Remove and replace defective pavement and
689 compact at no increase in contract price or contract time.

690
691 Operate rollers at slow and uniform speed with no sudden stops. The
692 drive wheels shall be nearest to the paver. Continue rolling to attain specified
693 density and until roller marks are eliminated.

694
695 Rollers shall not be parked on the pavement placed that day or shift.

696
697 **(1) HMA Pavement Courses One and a Half Inches Thick or**
698 **Greater.** Where HMA pavement compacted thickness indicated in the
699 Contract Documents is 1-1/2 inches or greater, compact to not less
700 than 93.0 percent nor greater than 97.0 percent of the maximum
701 specific gravity determined in accordance with AASHTO T 209,
702 modified by deletion of Supplemental Procedure for Mixtures
703 Containing Porous Aggregate.

704
705 Place HMA pavement in individual lifts that are within minimum
706 and maximum allowable compacted thickness for various types of
707 mixture as specified in Table 401.02-1 - Limits of Compacted Lift
708 Thickness and Asphalt Content.

709

710 **(2) HMA Pavement Courses Less Than One and a Half Inches**
 711 **Thick.** Where HMA pavement compacted thickness indicated in the
 712 contract documents is less than 1-1/2 inches, compaction to a
 713 specified density will not be required.

714
 715 Use only non-vibratory, steel-tired, tandem roller. Roll entire
 716 surface with minimum of two roller passes. A roller pass is defined as
 717 one trip of the roller in one direction over any one spot.

718
 719 For intermediate rolling, roll entire surface with minimum of four
 720 passes of roller.

721
 722 Finish rolling using steel-tired, tandem roller. Continue rolling
 723 until entire surface has been compacted with minimum of three passes
 724 of roller, and roller marks have been eliminated.

725
 726 Do not use rollers that will excessively crush aggregate.

727
 728 **(3) HMA Pavement Courses One and a Half Inches Thick or**
 729 **Greater In Special Areas Not Designated For Vehicular Traffic.**
 730 For areas such as bikeways that are not part of roadway and other
 731 areas not subjected to vehicular traffic, compact to not less than 90.0
 732 percent of maximum specific gravity determined in accordance with
 733 AASHTO T 209, modified by deletion of Supplemental Procedure for
 734 Mixtures Containing Porous Aggregate. Increase asphalt content by
 735 at least 0.5 percent above that used for HMA pavements designed for
 736 vehicular traffic. Paved shoulders shall be compacted in the same
 737 manner as pavements designed for vehicular traffic.

738
 739 **(G) Joints, Trimming Edges and Utility Marking.** At HMA pavement
 740 connections to existing pavements, make joints vertical to depth of new
 741 pavement. Saw cut existing pavement and cold plane in accordance with
 742 Section 415 - Cold Planing of Existing Pavement to depth equal to thickness
 743 of surface course or as indicated in the Contract Documents.

744
 745 At HMA connections to previously placed lifts, form transverse joints
 746 by cutting back on previous run to expose full depth of course. Dispose of
 747 material trimmed from edges. Protect end of freshly laid mixture from rollers.

748
 749 Before and after paving, identify and mark location of existing utility
 750 manholes, valves, and handholes on finished surface. Adjust existing frames
 751 and covers and valve boxes to final pavement finish grade in accordance with
 752 Section 604 - Manholes, Inlets and Catch Basins and Section 626 - Manholes
 753 and Valve Boxes for Water and Sewer Systems.

754

755 (1) Longitudinal joints. Submit for review the means and methods
756 that will be used to install longitudinal joints at the required compaction
757 and density. Compact longitudinal joints to be not less than 91.0
758 percent of the maximum specific gravity determined in accordance
759 with AASHTO T 209, modified by deletion of Supplemental Procedure
760 for Mixtures Containing Porous Aggregate. Verify the compaction of
761 the longitudinal joints meets requirements by using non-destructive
762 testing methods during paving and submit the results on the daily
763 quality control test reports.
764

765 Test for compaction and density regardless of layer thickness.
766 Compaction and density of the longitudinal joint shall be determined by using
767 six-inch diameter cores. For longitudinal joints made using butt joints cores
768 shall be taken over the joint with half of the core being on each side of the
769 joint. For longitudinal joints using butt wedge joints, center core over the
770 center of the wedge so that 50 percent of the material is from the most
771 recently paved material and the remaining 50 percent of the core is from the
772 material used to pave the previous layer. One core shall be taken at a
773 maximum of every 250 tons of longitudinal joint and any fraction of that length
774 for each day of paving with a minimum of one core taken for each longitudinal
775 joint per day. Cores taken for the testing of the longitudinal joint may be used
776 to determine pavement thickness.
777

778 When the longitudinal joints are found to have less than 91.0 percent
779 of the maximum specific gravity, overband all longitudinal joints within the
780 entire lot represented by the non-compliant core, PG binder seal coat, or
781 other type of joint enrichment accepted by the Engineer. The overband shall
782 not decrease the skid resistance of the pavement under any ambient weather
783 condition. Submit overband material's catalog cuts, test results and
784 application procedure for review and acceptance by the Engineer before use.
785 Center the overband over the longitudinal joint. The overband shall be placed
786 in a uniform width and horizontal alignment. The overband shall have no
787 holidays or streaking in its placement. The width of the overband shall be
788 based on how the longitudinal joint was constructed or as directed by the
789 Engineer. If a butt joint is used, the overband width shall be a minimum of
790 12-inches. For butt wedge or wedge joints the overband width shall be the
791 width of the wedge plus an additional six-inches minimum. Replace any
792 pavement markings damaged or soiled by the overband remedial repair
793 process.
794

795 For longitudinal joints that have a compaction of less than 89 percent
796 of the maximum specific gravity; removal may be required by the Engineer
797 instead of overbanding the non-compliant joint.
798

799 Persistent low compaction results may be cause to suspend work and
800 remove non-conforming work. During the suspension of paving, revise

801 means and methods used in constructing longitudinal joints and submit to the
802 Engineer for review and acceptance. Suspension may occur when:

803

804 (1) Two or more longitudinal joints tests fail to meet the minimum
805 compaction

806 (2) One sample reveals that the joint compaction is 89 percent or
807 less.

808

809 Compaction results for longitudinal joints until January 1, 2023 will not
810 be included in any Sliding Scale Pay Factor for Compaction payment
811 calculation. After, January 1, 2023 it will be included.

812

813 **(H) HMA Pavement Samples.** Obtain test samples from compacted
814 HMA pavement within 72 hours of lay down. Provide minimum 4-inch
815 diameter cores consisting of undisturbed, full-depth portion of compacted
816 mixture taken at locations designated by the Engineer in accordance with the
817 "Sampling and Testing Guide for Acceptance and Verification" in Hawaii DOT
818 Highways Division, *Quality Assurance Manual for Materials*, Appendix 3.
819 Cores shall be taken in the presence of the Engineer. Turn cores over to
820 Engineer immediately after cores have been taken.

821

822 For pavement samples for longitudinal joints provide 6-inch diameter
823 cores minimum. For pavement samples for other than longitudinal joints
824 4-inch diameter cores minimum shall be taken. All cores shall consist of
825 undisturbed, full-depth of the lift of the compacted mixture taken at locations
826 designated by the Engineer in accordance with the "Sampling and Testing
827 Guide for Acceptance and Verification" in Hawaii DOT Highways Division,
828 *Quality Assurance Manual for Materials*, appendix 3. Coring of longitudinal
829 joints shall use a modified HDOT Sampling and Testing Guide as required
830 by the Contract Documents.

831

832 Cores that separate shall indicate to the Engineer that there is
833 insufficient bonding of layers. Modify the previously used paving means and
834 methods to prevent future debonding of layers. Debonding of a core sample
835 after adjustment of the Contractor's methods will be an indication of
836 continued non-conforming work and the Engineer may direct removal of the
837 layer at no additional cost or contract time.

838
839 Restore HMA pavement immediately after obtaining samples. Clean core
840 hole and walls of all deleterious material that will prevent the complete filling
841 of the core hole and the bonding of the new HMA to the existing. Apply tack
842 coat to vertical faces of sample holes. Fill sampled area with new HMA
843 pavement of same type as that removed. If hand compaction is used; fill in
844 layers not exceeding the minimum thickness stated in Table 401.02-1 - Limits
845 of Compacted Lift Thickness And Asphalt Content. Compact each layer to
846 compaction requirements. If Mechanical Compaction methods are used, then
847 layers may be the maximum layer thickness stated in Table 401.02-1 - Limits
848 of Compacted Lift Thickness And Asphalt Content. Using tires or hand
849 tamping to compact the HMA material to restore the pavement shall not be
850 considered as mechanical compaction.

851
852 Only sample and test leveling course if 1-1/2 inches or greater. No
853 compaction requirements for less than 1-1/2 inches.

854
855 **(I) HMA Pavement Thickness Tolerances.**

856
857 The Engineer will measure thickness of pavement by cores obtained
858 by the Contractor in accordance with HDOT TM 09-19 Field Sampling
859 Bituminous Material after Compaction (Obtaining Cores). The Engineer will
860 measure cores in accordance with HDOT TM 09-19, except that
861 measurement will be taken to nearest one thousandth of an inch; and
862 average of such measurements will be taken to nearest one hundredth of an
863 inch.

864
865 Thickness of finished HMA pavement shall be within 0.25 inch of
866 thickness indicated in the Contract Documents. Pavement not meeting the
867 thickness requirements of the Contract Documents may be required by the
868 Engineer to be removed and replaced.

869
870 Corrective methods taken on pavement exceeding specified
871 tolerances, e.g., insufficient thickness by methods accepted by the Engineer,
872 including removal and replacement, shall be at no increase in contract price
873 or contract time.

874
875 The checking of pavement thickness shall be done after all remedial
876 repairs, e.g., smoothness compliance repairs, compaction, have been
877 completed, reviewed, and accepted by the Engineer.

878 **(J) Quality Control Using New Technology.** The Engineer and MTRB
879 reserves the right to utilize new technology and methods to improve the
880 detection of noncompliant work on the project. The technology or method
881 may be used to locate defects in the work, e.g., ground penetrating radar to
882 locate delaminations, moisture damage, thin sections, voids, non-compliant
883 compaction, other non-destructive testing to locate flaws. The defect will be
884 verified by the methods stated in the Contract Documents or by other
885 established conventional means. If the technology or method has already
886 been accepted elsewhere or has standardized testing procedures the results
887 may be judged acceptable by the Engineer and no further testing will be
888 required. These new technologies and methods may be used for the
889 selection of sampling locations.

890
891 **(K) Protection of HMA Pavement.** Except for construction equipment
892 directly connected with paving operations, keep traffic off HMA pavement.

893
894 Protect HMA pavement from damage until it has cooled and set.

895
896 Do not refuel equipment or clean equipment or hand tools over paved
897 surfaces unless catch pan or device that will contain spilled fuel and other
898 products is provided. After completion of refueling or cleaning, remove catch
899 pan or device without spilling any of the collected content.

900
901 Do not park roller or other paving equipment on HMA pavement paved
902 within 24 hours of laydown.

903
904 **(L) Pavement Joint Adhesive**

905
906 **(1) Pavement Joint Adhesive on Joints.** Use on all asphalt
907 pavement construction where joints are formed at such
908 locations but not limited to the following:

909
910 **(a)** Adjacent asphalt pavements, e.g., trafficked lanes,
911 shoulders, etc.

912
913 **(b)** Asphalt pavement and adjacent concrete pavement or
914 curb and gutter or any other surface where the bonding of the
915 asphalt pavement and concrete surface is desired,

916
917 **(c)** Transverse joints between asphalt pavements not
918 placed at the same time or if the pavement's temperature on
919 one side of the joint is below the minimum temperature the mix
920 can be at, during asphalt pavement compaction or installation.

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(d) Cut face of an existing pavement where it will have new HMA pavement placed against it, e.g., utility trenches, partial or full depth repairs, etc.

Pavement joint adhesive is not required on a longitudinal construction joint between adjacent hot mix asphalt pavements formed by echelon paving. Echelon paving is defined as paving multiple lanes side-by-side with adjacent pavers slightly offset at the same time.

A longitudinal construction joint between one shift's work and another shall have pavement joint adhesive applied at the joint. Any longitudinal construction joint formed, with the temperature on one side of the joint that is below the minimum temperature the mix can be when compacted to contract requirements during asphalt pavement installation, shall have pavement joint adhesive applied at the joint.

(2) **Material requirements.** Asphalt joint adhesive shall meet requirements as specified in Table 401.03-1 - Asphalt Joint Adhesive Specifications.

TABLE 401.03-1 – ASPHALT JOINT ADHESIVE SPECIFICATIONS		
TEST		SPECIFICATION
Brookfield Viscosity, 204 °C [400 °F]	ASTM D 3236	4,000-10,000 cp
Cone Penetration, 25 °C [77 °F]	ASTM D 5329	60-100 dmm
Resilience, 25 °C [77 °F]	ASTM D 5329	30% minimum
Ductility, 25 °C [77 °F]	ASTM D 113	30 cm minimum
Ductility, 4 °C [39.2 °F]	ASTM D 113	30 cm minimum
Tensile Adhesion, 25 °C [77 °F]	ASTM D 5329	500% minimum
Softening Point	ASTM D 36	77 °C [170 °F] min.
Asphalt Compatibility	ASTM D 5329	Pass

943
944
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949

(3) **Construction Requirements for Asphalt Joint Adhesive**

(a) **Equipment Requirements.** Use a jacketed double boiler type melting unit, with both agitation and recirculation systems. Provide a pressure feed wand application system.

950 (b) **Material Handling.** Submit a copy of the manufacturer's
951 recommendations for heating, re-heating, and applying the joint
952 adhesive material. Follow manufacturer's recommendations.
953 Do not remove the joint adhesive from the package until
954 immediately before it is placed in the melter. Joint adhesive
955 boxes must be clearly marked with the name of the
956 manufacturer, the trade name of the adhesive, the
957 manufacturer's batch and lot number, the application/pour
958 temperature, and the safe heating temperature. Feed
959 additional material into the melter at a rate equal to the rate of
960 material used.

961
962 Verify the pouring temperature of the joint adhesive at least
963 once per hour at the point of discharge. Stop production if the
964 adhesive falls below the recommended application/pour
965 temperature. When the temperature of the adhesive exceeds
966 the maximum safe heating temperature, stop production, empty
967 the melter, and dispose of that adhesive in an environmentally
968 safe method. No payment will be made for this material or its
969 disposal.

970
971 Do not blend or mix different manufacturer's brands or different
972 types of adhesives.

973
974 (c) **Joint Adhesive Application:** The face of the joint that
975 the new asphalt pavement will bind to shall be clean and dry
976 before the joint adhesive is applied. Apply the pavement joint
977 adhesive material to the entire face of the surface where HMA
978 pavement shall be installed. The thickness of the asphalt
979 adhesive application shall be approximately 1/8 inch. Use an
980 application shoe attached to the end of application wand. Do
981 not overlap the joint by greater than 1/2-inch at the top of the
982 joint or two-inches at the bottom of the joint. Apply the joint
983 adhesive immediately in front of the paving operation. If the
984 adhesive is tracked by construction vehicles, repair the
985 damaged area, and restrict traffic from driving on the adhesive.

986
987 (d) **Field Sampling.** Take a sample from the application
988 wand during the first 20 minutes of placing sealant. One
989 sample should be taken per manufacturer's batch or minimum
990 of every 6 months on the Project in the presence of the
991 Engineer.
992

993 Each sample shall consist of two aluminum or steel sample
 994 containers with the capacity to hold five pounds of sealant
 995 each. The two sampling containers shall be labeled with
 996 Contractor's name; project name and number; date and time
 997 sample taken; location of where material was used at, e.g., from
 998 where to where it was used at in stations; manufacturer and lot
 999 number of the sealant. Each container shall be numbered one
 1000 of two, or two of two. Turn over samples to Engineer without
 1001 Engineer losing sight of the sample. The Engineer reserves the
 1002 right to conduct supplementary sampling and testing of the
 1003 sealant material.
 1004

1005 **(M) Pavement Smoothness Rideability Test.** Perform surface profile
 1006 tests frequently to ensure that the means and methods being used produces
 1007 pavement that is compliant with the surface profile smoothness requirement.
 1008 Test the pavement surface for smoothness with High-Speed Inertial Profiler
 1009 to determine the International Roughness Index (IRI) of the pavement. For
 1010 the locations determined by the Engineer, a 10-foot straightedge shall be
 1011 used to measure smoothness.
 1012

1013 All smoothness testing must be performed with the presence of the
 1014 Engineer. The High-Speed Inertial Profiler operator shall be a certified
 1015 operator by MTRB or the manufacturer.
 1016

1017 The High-Speed Inertial Profiler operator's certification shall be no
 1018 older than five years old at the date of the Notice to Proceed and at the day
 1019 of the pavement profile measurement.
 1020

1021 The finished pavement shall comply to all the following requirements:
 1022

1023 **(a) Smoothness Test using 10-Foot Straightedge (Manual or**
 1024 **rolling)** The 10-foot straightedge is used to identify the locations that
 1025 vary more than 3/16 inch from the lower edge when the 10-foot
 1026 straightedge is laid on finished pavement on the direction parallel with
 1027 the centerline or perpendicular to centerline. Remove the high points
 1028 that cause the surface to exceed that 3/16 inch tolerance by grinding.
 1029

1030 The Contractor shall use a 10-foot straightedge for the following
 1031 locations:
 1032

1033 **1.** Longitudinal profiling parallel to centerline, when within
 1034 15 feet of a bridge approach or existing pavement which is
 1035 being joined.
 1036

1037 **2.** Transverse profiling of cross slopes, approaches, and as
 1038 otherwise directed. Lay the straightedge in a direction
 perpendicular to the centerline.

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3. When pavement abuts bridge approaches or pavement not under this Contract, ensure that the longitudinal slope deviations of the finished pavement comply with Contract Document's requirements.

4. Short pavement sections up to 600 feet long, including both mainline and non-mainline sections on tangent sections and on horizontal curves with a centerline radius of curve less than 1,000 feet.

5. Within a superelevation transition on horizontal curves having centerline curve radius less than 1,000 feet, e.g., curves, turn lanes, ramps, tapers, and other non-mainline pavements.

6. Within 15 feet of transverse joint that separates pavement from existing pavement not constructed under the contract, or from bridge deck or approach slab for longitudinal profiling.

7. At miscellaneous areas of improvement where width is less than 11 feet, such as medians, gore areas, and shoulders.

8. As otherwise directed by the Engineer. The Engineer may confine the checking of through traffic lanes with the straightedge to joints and obvious irregularities or choose to use it at locations not specifically stated in this Section.

(b) High-Speed Inertial Profiler

There shall be a minimum 3 profile runs per lane, for each wheel path (left and right) which is approximately three feet from edge lane line. The segment length shall be 0.1 mi. The final segments in a lane that are less than 0.1 mi shall be evaluated as an independent segment and pay adjustments will be prorated for length. The profiles shall be taken in the direction of traffic only.

The latest version of FHWA ProVAL software shall be used to conduct profile analysis to determine IRI and areas of localized roughness. The IRI values shall be reported in units of in/mi.

Areas of localized roughness will be identified by using ProVAL's "Smoothness Assurance" analysis, calculating IRI with a continuous short interval of 25 feet and the 250-mm filter applied.

1085 Additional runs may be required by the Engineer if the data indicate a
 1086 lack of repeatability of results. A 92% agreement is required for repeatability
 1087 and IRI values shall have at minimum a 95% confidence level.
 1088

1089 **(N) Required Pavement Smoothness**
 1090

1091 The IRI for the left and right wheel paths in an individual lane will be
 1092 computed and then averaged to determine the Mean Roughness Index (MRI)
 1093 values. The MRI will be used to determine acceptance and pay adjustment.
 1094 Each lane shall be tested and evaluated separately.
 1095

1096 There are three (3) categories of target MRI values:
 1097

TABLE 401.03-2 – PAVEMENT SMOOTHNESS CATEGORIES		
Category	Description	MRI
Type A	Three or more opportunities for improving ride	Shall not exceed 60 in/mi
Type B	Two opportunities for improving ride	Shall not exceed 70 in/mi
Type C	One opportunity for improving ride	Shall not exceed 75 in/mi

1098
 1099 An opportunity for improving ride is considered as one (1) lift of asphalt
 1100 pavement, including but not limited to HMAB, HMA, PMA, and SMA.
 1101

1102 For the location where a 10-foot manual straightedge is required, the
 1103 surface shall not vary more than 3/16 inch from the lower edge of a
 1104 straightedge.
 1105

1106 No pre-final inspection, final inspection, and substantial completion
 1107 granted will be made until the pavement meets smoothness requirement and
 1108 all required profile reports are submitted to the Engineer and MTRB and are
 1109 accepted.
 1110

1111 **(O) Request for Profile Testing by the Department.**
 1112

1113 For Type C, prior to pavement activities, the Engineer will measure the
 1114 smoothness of the existing pavement.
 1115

1116 The Contractor shall submit a written request to the Engineer to
 1117 perform all required profile tests.
 1118

1119 The request shall be made at least 30 days before desired testing date
 1120 and shall include an approximate acceptance profile testing date, a plan view
 1121 drawing of the area to be tested with the limits of the test area highlighted.

1122 The Contractor shall reimburse HDOT for any incurred cost related to
 1123 any Contractor-caused cancellation or a deduction to the monthly payment
 1124 will be made.

1125
 1126 **(P) Department Requirements for Profile Testing.** When a request for
 1127 testing is made, the requested area to be tested shall be 100% of the total
 1128 area indicated to be paved in the Contract Documents unless the requirement
 1129 is waived by the Engineer and MTRB.

1130
 1131 Department acceptance surface tests will not be performed earlier
 1132 than 14 days after HMA placement.

1133
 1134 Clean debris and clear obstructions from area to be tested, as well as
 1135 a minimum of 100 feet before and beyond the area to be tested before testing
 1136 starts for use as staging areas. Provide traffic control for all profile testing.

1137
 1138 The Engineer or MTRB or both may cancel the profile testing if the test
 1139 area is not sufficiently clean, traffic control is unsatisfactory, or the area is not
 1140 a safe work environment or test area does not meet Contract Document
 1141 requirements. This canceled profile test will count as one profile test.

1142
 1143
 1144 **(Q) Cost of Acceptance Profile Testing by The Department.** The
 1145 Engineer, MTRB, or State's Third-Party Consultant will perform one initial
 1146 profile test, at no cost to the Contractor for each area to be tested.

1147
 1148 The Department's High-Speed Inertial Profiler pavement profile will be
 1149 used to determine if the pavement's profile, i.e., smoothness is acceptable.

1150
 1151 If the profile of the pavement does not meet the requirements of the
 1152 Contract Documents, the Contractor shall perform remedial work, i.e.
 1153 corrective work then retest the area to ensure that the area has the required
 1154 MRI, i.e., smoothness, before requesting another profile test by the Engineer.

1155
 1156 **(1) Additional testing.** Additional testing, by the Department
 1157 beyond the initial test will be performed at cost to the Contractor as
 1158 follows:

1159
 1160 **(a)** \$2,500 per test will be required when Department
 1161 personnel or State's Third-Party Consultant is used.

1162
 1163 **(R) Remedial Work for Pavements.**

1164
 1165 **(1)** Corrective work shall be required for any 25 ft interval with a
 1166 localized roughness in excess of 160 in/ mi. The Engineer may waive
 1167 localized roughness requirements for deficiencies resulting from

1168 manholes or other similar appurtenances. Adjust manholes or other
1169 similar appurtenances so that using a 10-ft. straightedge the area
1170 around that manhole or other similar appurtenance shall not have
1171 more than 3/16-in. variation between any 2 contacts on the
1172 straightedge.

1173
1174 If corrective action is not successful, the Engineer may require
1175 continued corrective action, or apply a payment adjustment of \$250
1176 per occurrence.

1177
1178 **(2)** Corrective work shall also be required for any 0.1 mile interval
1179 with an average MRI above 95.0 in/mi for Types A and B. For Type
1180 A, correct the deficient section to an MRI of 60 in/mi or less. For Type
1181 B, correct the deficient section to an MRI of 70 in/mi or less. For Type
1182 C, corrective work may be required by the Engineer for 0.1 mile
1183 intervals that have an average MRI above the threshold shown in
1184 Tables 401.03-4 and 5 as applicable.

1185
1186 If corrective action does not produce the required improvement, the
1187 Engineer may require continued corrective action, or apply payment
1188 adjustment as shown in Tables 401.03-4 and 5.

1189
1190 **(3)** The Contractor shall notify the Engineer at least 24 hours prior
1191 to commencement of the corrective work. The Contractor shall not
1192 commence corrective work until the methods and procedure have
1193 been approved in writing by the Engineer.

1194
1195 **(4)** All smoothness corrective work for areas of localized
1196 roughness shall be for the entire lane width. Pavement cross slope
1197 shall be maintained through corrective areas.

1198
1199 **(5)** The remedial repair areas shall be neat, rectangular areas
1200 having a uniform surface appearance.

1201
1202 **(6)** If grinding is used on HMA pavement, the surface shall have
1203 nearly invisible grinding marks to passing motorist.

1204
1205 **(7)** Other methods may include milling and overlaying HMA
1206 pavement. The length, depth of the milling and the replacement
1207 material will be solely decided by the Engineer.

1208
1209 **(8)** The finished repaired pavement surface shall leave no ridges
1210 or valleys or fins of pavement other than those allowed below.

1211

- 1212 (9) Remedial repairs shall not leave any drainage structures' inlets
 1213 higher than the surrounding pavement or alter the Contract
 1214 Document's drainage pattern.
 1215
- 1216 (10) For items in the pavement other than drainage structures, e.g.,
 1217 manhole frame and covers, survey monuments, expansion joints etc.,
 1218 the finish pavement, ground or not, shall not be more than 1/4 inch in
 1219 elevation difference. Submit to the Engineer remedial repair method
 1220 to correct these conditions for acceptance.
 1221
- 1222 (11) Pick up immediately grinding operation residue by using a
 1223 vacuum attached to grinding machine or other method acceptable to
 1224 the Engineer.
 1225
- 1226 (a) Any remaining residue shall be picked up before the end
 1227 of shift or before the area is open to traffic, whichever is earlier.
 1228
- 1229 (b) Prevent residue from flowing across pavement or from
 1230 being left on pavement surface or both.
 1231
- 1232 (c) Residue shall not be allowed to enter the drainage
 1233 system.
 1234
- 1235 (d) The residue shall not be allowed to dry or remain on the
 1236 pavement.
 1237
- 1238 (e) Dispose of all material that is the result of the remedial
 1239 repair operation, e.g., HMA residue, wastewater, and dust at a
 1240 legal facility.
 1241
- 1242 (12) Complete corrective work before determining pavement
 1243 thickness for HMA pavements in accordance with Subsection
 1244 401.03(I) – HMA Pavement Thickness Tolerances.
 1245
- 1246 (13) All HMA wearing surface areas that have been ground shall
 1247 receive a coating, e.g., a coating material that will restore any lost
 1248 impermeability of the HMA due to the grinding of the surface. The
 1249 coating used shall not be picked up or tracked by passing vehicles or
 1250 be degraded after a short period of time has passed, i.e., it shall have
 1251 a service life equal to or greater than the HMA pavement. The coating
 1252 shall not decrease the pavement's friction value. The coating's limits
 1253 shall be the full width of the lane regardless how small. If the remedial
 1254 repair area extends into the next lane, then the repair area will be full
 1255 lane width also. Extend the length of coating areas in order for the
 1256 coating area to look like the rest of the road and does not have patches
 1257 on it, i.e., make the road look uniform in color. The coating shall be of

1258 a color that matches the surrounding pavement. The areas receiving
 1259 the coating shall not be open to traffic until it has cured enough so that
 1260 it cannot be picked up or tracked by passing vehicles or degrade.
 1261 Submit means and methods of the coating and type of coating to the
 1262 Engineer or MTRB for review and acceptance. Do not proceed with
 1263 the coating without acceptance from the Engineer.
 1264

1265 **(14)** Recompacting cold HMA, i.e., HMA that has reached ambient
 1266 temperature is not an acceptable remedial repair method.
 1267

1268 **(15)** Replace all pavement markings damaged or discolored by
 1269 remedial repairs.
 1270

1271 **(16)** Reprofile the corrected area and provide the Engineer the
 1272 results that show the corrective action, i.e., remedial repairs were
 1273 successful.
 1274

1275 **(S) Pavement Smoothness and Acceptance.**
 1276

1277 **(1)** Price and payment in various paving sections, e.g., 401 (Hot
 1278 Mix Asphalt Pavement), shall be full compensation for all work and
 1279 materials specified in the various paving sections and this section,
 1280 including but not limited to furnishing all labor, materials, tools,
 1281 equipment, testing, incidentals and for doing all work involved in micro
 1282 milling, milling (cold planing), grinding existing or new pavement,
 1283 removing residue, cleaning the pavement, necessary disposal of
 1284 residue, furnishing of any water or air used in cleaning the pavement
 1285 and any other related ancillary work or material or services. Also, it
 1286 includes any remedial work, e.g., re-paving, surface grinding,
 1287 application of a coating, curing compound, and replacement of
 1288 damaged pavement markings.
 1289

1290 **(2)** The contract price in those sections may be adjusted for
 1291 pavement smoothness by the Engineer. The pavement smoothness
 1292 contract unit price adjustments and work acceptance will be made in
 1293 accordance with the following schedules.
 1294

TABLE 401.03-3 –SMOOTHNESS PAY INCENTIVES		
Category	MRI (in/mi)	Pay Adjustment \$ per 0.1 mi
Type A	<30.0	\$580
	30.0- less than 35.0	\$480
	35.0- less than 40.0	\$380
	40.0- less than 45.0	\$280
	45.0- less than 50.0	\$180
	50.0- less than 55.0	\$80
	55.0- less than 60.0	\$0
Type B	<35.0	\$420
	35.0- less than 40.0	\$360
	40.0- less than 45.0	\$300
	45.0- less than 50.0	\$240
	50.0- less than 55.0	\$180
	55.0- less than 60.0	\$120
	60.0- less than 65.0	\$60
	65.0- less than 70.0	\$0
Type C	<40.0	\$280
	40.0- less than 45.0	\$240
	45.0- less than 50.0	\$200
	50.0- less than 55.0	\$160
	55.0- less than 60.0	\$120
	60.0- less than 65.0	\$80
	65.0- less than 70.0	\$40
	70.0- less than 75.0	\$0

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(3) Pay Pavement Smoothness Adjustment will be based on the initial measured MRI for both left and right wheel path, prior to any corrective work for the 0.10-mile section, except for sections that the Contractor has chosen to remove and replace. For sections that are replaced, assessments will be based on the MRI determined after replacement.

(a) The Pavement Smoothness Adjustment will be computed using the plan surface area of pavement shown in the Contract Documents. This Pavement Smoothness Adjustment will apply to the total area of the 0.10-mile section for the lane width represented by MRI for the same lane. It does not include any other price adjustments specified in the Contract Documents. Those price adjustments will be, for each adjustment, calculated separately using the original contract price to determine the amount of adjustment to be made to the contract price. Sections shorter than 0.1 mile and longer than 50 feet shall be prorated.

(b) For 0.1 mile intervals with an average MRI above the threshold shown in Table 401.03-3, the Engineer shall apply a disincentive payment adjustment up to the limit shown.

i. For Types A and B, payment adjustments shall be applied up to an MRI of 95.0 per Table 401.03-4.

ii. For Type C, the payment adjustment shall be dependent on the average MRI of the pavement prior to paving activities

1. If the MRI of the pavement prior to paving activities is 125.0 in/mi or less, the payment adjustment shall be per Table 401.03-4.

2. If the MRI of the pavement prior to paving activities is more than 125.0 in/mi, the disincentive payment adjustment shall be per Table 401.03-5, and based on the percent improvement using the following formula:

$$\% \text{ Improvement} = (\text{Initial segment MRI} - \text{Final segment MRI}) \times 100 / (\text{Initial Segment MRI})$$

1339

TABLE 401.03-4 –SMOOTHNESS PAY DISINCENTIVES WITH MRI		
Category	MRI (in/mi)	Pay Adjustment \$ per 0.1 mi
Type A	60.0- less than 70.0	-\$100
	70.0- less than 75.0	-\$250
	75.0- less than 80.0	-\$350
	80.0- less than 85.0	-\$450
	85.0- less than 95.0	-\$550
	> 95.0	Corrective Work
Type B	70.0- less than 75.0	-\$100
	75.0- less than 80.0	-\$200
	80.0- less than 85.0	-\$300
	85.0- less than 95.0	-\$400
	> 95.0	Corrective Work
Type C (pre-paving MRI < 125)	75.0- less than 80.0	-\$50
	80.0- less than 85.0	-\$100
	85.0- less than 90.0	-\$150
	90.0- less than 100.0	-\$200
	>100.0	-\$250

1340

TABLE 401.03-5 –SMOOTHNESS PAY DISINCENTIVES FOR PERCENT IMPROVEMENT		
Category	Percent Improvement %	Pay Adjustment \$ per 0.1 mi
Type C	≥ 40	\$0
(pre-paving MRI > 125)	20.0- less than 40.0	-\$100
	< 20	-\$200

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(c) Incentives will not apply to areas where payment deductions or remedial repairs has been made for non-compliant work, e.g., low compaction, thin pavement, thermal segregation, low compressive or flexural strength, non-compliant alignment. Incentives will also not apply to areas where corrective work was required to meet contract smoothness requirements, unless the pavement section was

1349 replaced. All areas where corrective work was performed shall
 1350 be tested again to ensure the smoothness requirements are
 1351 met.

1352
 1353 **(d)** There will be no incentive price adjustments to the
 1354 contract prices regardless of the pavement meeting the
 1355 Contract Documents' requirements for incentive contract price
 1356 adjustment, when 25% of the total area paved of that particular
 1357 type of pavement on the project has failed to meet any of the
 1358 Contract document requirements, e.g., smoothness, thickness,
 1359 unit weight, asphalt content, pavement defects, compaction,
 1360 flexural or compressive strength. Areas exempt from the
 1361 smoothness requirements may not be included in the total area
 1362 calculation unless it is non-compliant.

1363
 1364 **(e)** For contracts using lump sum the method described in
 1365 Subsection 104.06 Methods of Price Adjustment paragraph (3),
 1366 will be used to calculate proportionate unit price, i.e., the
 1367 Engineer's calculated theoretical unit price. This calculated
 1368 proportionate unit price will be used to calculate the unit price
 1369 adjustment.

1370

1371 **401.04 Measurement.**

1372

1373 **(A)** The Engineer will measure HMA and PMA pavement per ton in
 1374 accordance with the Contract Documents.

1375

1376 **(B)** The Engineer will measure leveling course and HMA pavement
 1377 overlay per ton in accordance with the Contract Documents.

1378

1379 **(C)** Engineer will measure additional State pavement profiling work when
 1380 applicable on a cost-plus basis as specified in this section and as ordered by
 1381 Engineer. The Engineer will issue a billing for the pavement profile work done
 1382 for the time period with the invoices and receipts that the billing was based
 1383 on attached to the Contractor for each contract item. The Contractor's
 1384 pavement profile work required in this section will not be measured and will
 1385 be considered incidental to the various paving items unless stated otherwise.

1386

1387 **401.05 Payment.** The Engineer will pay for the accepted HMA and PMA
 1388 pavement at the contract price per pay unit, as shown in the proposal schedule.
 1389 Payment will be full compensation for the work prescribed in this section and the
 1390 contract documents.

1391

1392 **(A)** Price and payment in Section 401 – Hot Mix Asphalt (HMA) Pavement
 1393 will be full compensation for all work and materials specified in this Section
 1394 including furnishing all labor, materials, tools, equipment, testing, pavement

1395 profiles and incidentals and for doing all work involved in grinding existing or
 1396 new pavement, removing residue, and cleaning the pavement, including
 1397 necessary disposal of residue and furnishing any water or air used in
 1398 cleaning the pavement and remedial work needed to conform to the
 1399 requirements of the Contract Documents.

1400

1401 **(B)** No payment for the Contractor's pavement profile work required in this
 1402 section will be made. The Contractor's pavement profile work shall be
 1403 considered incidental to the various paving items unless stated otherwise.

1404

1405 **(C)** Engineer will pay or deduct for the following pay items when included
 1406 in proposal schedule:

1407

1408

Pay Item**Pay Unit**

1409

1410

Pavement Smoothness Incentive

Allowance

1411

1412

Third-Party Profile Testing and Equipment

Allowance

1413

1414

Third-Party Dispute Resolution Profile Testing

Allowance

1415

1416

1417

_____ Pavement, Mix No. _____

Ton

1418

1419

(1) 70% of the contract unit price or the theoretical calculated unit
 1420 price upon completion of submitting a job-mix formula acceptable to
 1421 the Engineer; preparing the surface, spreading, and finishing the
 1422 mixture; and compacting the mixture.

1423

1424

(2) 20% of the contract unit price or the theoretical calculated unit
 1425 price upon completion of cutting samples from the compacted
 1426 pavement for testing; placing and compacting the sampled area with
 1427 new material conforming to the surrounding area; protecting the
 1428 pavement; and compaction acceptance. Maintain temporary
 1429 pavement markings and other temporary work zone items, maintain a
 1430 clean work site.

1431

1432

(3) 10% of the contract unit price or calculate the unit price when
 1433 the final configuration of the pavement markings is in place.

1434

1435

HMA Pavement, Mix No. _____, Leveling

Ton

1436

1437

(1) 80% of the contract unit price upon completion of submitting a
 1438 job-mix formula acceptable to the Engineer; preparing the surface,
 1439 spreading, and finishing the mixture; and compacting the mixture.

1440

1441 (2) 20% of the contract unit price upon completion of cutting
1442 samples from the compacted pavement for testing; placing and
1443 compacting the sampled area with new material conforming to the
1444 surrounding area; protecting the pavement; and compaction
1445 acceptance.
1446

1447 The Engineer will pay for adjusting existing frames and covers and valve
1448 boxes in accordance with and under Section 604 – Manholes, Inlets and Catch
1449 Basins. Adjustments for existing street survey monument frames and covers will be
1450 paid for as if each were a valve box frame and cover.
1451

1452 The Engineer may, at his sole discretion, in lieu of requiring removal and
1453 replacement, use the sliding scale factor to accept HMA pavements compacted
1454 below 93.0 percent and above 97.0 percent. The Engineer will make payment for
1455 the material in that production day, if the Engineer decides to use a sliding scale
1456 factor, at a reduced price arrived at by multiplying the contract unit price by the pay
1457 factor. The Engineer is not obligated to allow non-compliant work to remain in place
1458 and may at any time chose not to use a sliding scale factor method of payment and
1459 instead require removal of the noncompliant pavement that is greater than 97.0 or
1460 less than 93.0.
1461

1462 In compliance with Subsection 105.12 Removal of Non-Conforming and
1463 Unauthorized Work remove and replace HMA compacted below 90.0 percent.
1464

1465 The Engineer will solely decide if the noncompliant work would be acceptable
1466 if a reduced payment for the noncompliant work is made. The Engineer is not
1467 obligated to allow noncompliant work to remain in place and may at any time choose
1468 not to use a sliding scale factor method of payment as a method of resolution.
1469 Instead, utilize the remedy allowed in Subsection 105.12 Removal of Non-
1470 Conforming and Unauthorized Work, requiring removal of the noncompliant
1471 pavement, shall be used.
1472

1473 Such a reduced payment, if made and accepted by the Contractor, shall be
1474 a mutually agreeable resolution to the noncompliant work being addressed. If it is
1475 not mutually acceptable, the noncompliant work shall be removed. If the reduced
1476 payment is acceptable; the Engineer will make the reduced payments for the
1477 noncompliant work in accordance with Table 401.05-2 - Sliding Scale Pay Factor
1478 for Compaction. The amount of tonnage to be reduced will be determined by the
1479 Engineer by using the initial cores taken on the mat. No additional cores shall be
1480 taken to determine the limits of the non-compliant area unless requested by the
1481 Engineer.
1482

1483 The Engineer, for determining the reduced tonnage for noncompliant work,
1484 will assume the level of compaction is linear and will proportion the compaction level
1485 from the last core that indicated an acceptable compaction level to the nearest core
1486 indicating a noncompliant compaction level to determine the calculated limit of

1487 acceptable compaction. The length will be the linear distance between the cores
 1488 measured along the baseline. If there is no core that was taken for the shift's or
 1489 day's work that were compliant then the limit will be the end or start of the day's or
 1490 shift's work. The width will be the nominal paving width. Use the day's specific
 1491 gravity of the mix to determine tonnage. The thickness will be the nominal paving
 1492 thickness.

1493

1494 The total reduced noncompliant tonnage to be paid will be determined by
 1495 multiplying the applicable percent of reduction by the computed tonnage of the
 1496 noncompliant work. Percent of Quantity Paid shall be the percentage shown in
 1497 Table 401.05-2 - Sliding Scale Pay Factor for Compaction. The reduced tonnage
 1498 shall be used as the payment quantity for the noncompliant work. The reduced
 1499 quantity paid that is used for the monthly payment will be arrived at by multiplying
 1500 the contract unit price by the reduced tonnage.

1501

1502

Table 401.05-2 – Sliding Scale Pay Factor for Compaction	
Percent Compaction	Percent of Quantity Paid
> 98.0	Removal
>97.0 - 98.0	95
93.0- 97.0	100
90.0 - <93.0	80
<90.0	Removal

1503

1504

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END OF SECTION 401

47 If design requirements are modified after the Engineer accepts job-
48 mix formula, submit new job-mix formula before using slurry seal produced
49 from modified mix design.

50
51 **(D) Material Storage & Handling.** A barrier shall be placed under the
52 aggregate stockpile to prevent underlying material from being incorporated
53 into the slurry seal aggregate. Prior to loading aggregates into mixing
54 machine bins, aggregates shall be screened to remove oversized material.
55

56 **404.03 Construction.**

57
58 **(A) Test Section.** Before production and after calibration as specified
59 in Subsection 404.03(C)(6) - Equipment Calibration, apply slurry
60 seal onto test section using same mixture, equipment, and method
61 proposed for use in the work. Test section shall be at least 10 feet
62 by 50 feet and applied under typical project environmental
63 conditions. A separate test section is required for each piece of
64 equipment that will be used on the project. The test sections shall
65 also include a demonstration of the equipment change-out
66 procedure for material resupply to verify the consistency of the
67 slurry material upon restart and the ability to construct an
68 acceptable construction joint. The Engineer will determine location
69 of test section. Prior to continuation of slurry seal production,
70 mixture samples may be taken and the test strip will be evaluated
71 to verify mix consistency, proportioning, application rate, and set
72 time.
73

74 **(B) Paving Plan.** Submit a slurry seal paving plan for review and
75 acceptance prior to the start of slurry seal activity. The paving plan
76 shall include the sequence of work for the slurry application areas,
77 equipment application runs, and designated handwork application
78 areas.
79

80 **(C) Weather Limitation.** Application of slurry seal will not be allowed
81 under the following conditions:
82

83 **(1)** On wet surfaces as determined by the Engineer.

84
85 **(2)** When air temperature is below 60 degrees F and falling.
86 Slurry seal may be applied when air temperature is above 50
87 degrees F and rising. Air temperature will be measured in shade
88 and away from artificial heat.
89

90 **(3)** When weather conditions prevent proper method of
91 construction.
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(D) Equipment.

(1) General. Keep equipment, tools, and machinery clean and maintained in satisfactory condition.

(2) Mixing Equipment. Use self-propelled machine specifically designed and manufactured to lay slurry seal. Mixing machine shall be either truck-mounted or continuous-run design. A continuous-run machine is defined as one that is equipped to self-load while continuing to lay slurry seal. Either type machine shall be able to accurately deliver and proportion aggregate, emulsified asphalt, water, and if specified by job-mix formula, filler to maintain adequate supply to the proportioning controls.

If continuous-run machine is used, equip to allow operator to have full control of forward and reverse speeds during slurry seal application; and to include opposite-side driver stations and forward and reverse speed controls.

(3) Proportioning Devices. Provide and label individual volume or weight controls for proportioning each material to be added to mix.

(4) Spreading Equipment. Spread mixture uniformly by means of conventional surfacing spreader box attached to mixer and equipped to agitate and spread material evenly throughout box. Provide front seal that prevents loss of mixture at road contact point and adjustable rear seal the functions as final strike-off. Design and operate spreader box and rear strike-off such that uniform consistency is achieved to produce free flow of material to rear strike-off. Equip spreader box with means to side shift box to compensate for variations in pavement geometry. Burlap drag or other accepted screed may be attached to rear of spreader box to provide uniform, highly textured mat.

(5) Auxiliary Equipment. Provide other tools or equipment, such as brushes, hose equipment, tank trucks, water distributors and flushers, power sweepers, and power blowers.

(6) Equipment Calibration. Calibrate in the Engineer's presence all equipment to be used in performance of the work. Submittal of previous calibration documents may be used in lieu of calibration in the Engineer's presence if documented calibration were made within one calendar year of submittal. Include individual calibration of each material at various settings, which can be related to machine's metering devices. No machine will be allowed

140 to be used on project until calibration has been completed and
141 accepted.

142
143 After calibration and prior to production, make test strips for
144 each machine. Test strips shall be part of test section specified in
145 Subsection 404.03(A) - Test Section. Upon failure of test for mix
146 consistency, proportioning, or rate of application, or combination
147 thereof, additional test strips at no increase in contract price or
148 contract time will be required until each machine is accepted for
149 work. Machine failing to pass specified tests after three trials will
150 not be allowed to be used on project.

151
152 **(E) Preparation of Surfaces.** Immediately before applying slurry seal,
153 clean existing pavement in accordance with Section 310 - Brooming Off.

154
155 Remove all pavement markers and eradicate the existing
156 thermoplastic pavement striping.

157
158 Cold plane the existing pavement to provide a smooth transition
159 between the slurry seal and any existing pavement or structure. The cold
160 planed or ground transition shall be a minimum width of one foot from the
161 edge of the existing pavement or structure and deep enough for the slurry
162 seal to match the grades of the existing pavement or structure.

163
164 Distressed areas on the existing pavement indicated for removal
165 and replacement with hot-mix asphalt shall be completed at least seven
166 days prior to the start of slurry seal placement. The reconstructed areas
167 shall not be higher than the existing pavement surface and may be
168 recessed up to 1/8-inch below the existing pavement surface. This work
169 shall be completed and paid for under the pay item, Reconstruction of
170 Weakened Pavement Areas.

171
172 Contaminated areas on the existing pavement including but not
173 limited to chemical spills/stains and accumulation of debris or organic
174 matter shall be removed, cleaned with an approved biodegradable
175 cleaning solution, and thoroughly rinsed. Persistent stains shall be
176 removed by spot-grinding or torching and sealed with an approved oil spot
177 primer. High pressure washing is not permitted.

178
179 Manholes, valve boxes, drop inlets and other service entrances as
180 well as survey and centerline monuments, shall be protected from the
181 slurry seal by a suitable method. Contractors shall be held liable for any
182 service entrances and monuments covered up resulting from construction.
183 The clean up of any service entrances and monuments shall be at the
184 expense of the contractor.

185

186 The Engineer shall approve surface prior to application of slurry
187 surfacing.

188
189 **(F) Application of Slurry Seal.** Apply slurry seal in accordance with
190 ASTM D 3910, ISSA A105, and as indicated in the contract documents.
191 Pour slurry seal into spreader box in sufficient quantity to completely cover
192 full width of spreader. Do not overload the spreader or allow slurry seal to
193 flow out of the sides of the spreader box. The slurry seal shall possess
194 sufficient stability so that the premature breaking of the material in the
195 spreader box does not occur. The mixture shall be homogeneous during
196 and following mixing and spreading. It shall be free of excess water and
197 emulsion and free of segregation of the emulsion and aggregate fines
198 from the coarser aggregate. Spraying of additional water into the
199 spreader box will not be permitted.

200
201 Apply slurry seal in one uniformly blended coat. Use hand
202 spreaders only in areas where spreader box cannot be used.

203
204 Lumping, balling, or unmixed aggregate in the slurry seal shall not
205 be permitted. No streaks, such as those caused by oversized aggregate,
206 shall be left in the finished surface. If excess oversize develops, the job
207 will be stopped until the Contractor is able to prove that the situation has
208 been corrected. All cost and time expense related to the stoppage will be
209 the responsibility of the Contractor.

210
211 The paved surface shall be rolled by a self-propelled, 10-ton
212 vibratory pneumatic roller with a tire pressure of 50 psi, equipped with a
213 water spray system. The surfaced areas shall be subjected to a minimum
214 of two (2) full coverage passes by the roller. Rolling shall not commence
215 until the slurry has cured enough so that it will not pick up on the tires of the
216 roller.

217
218 **(G) Joints, Trimming Edges, Removal of Excess Material, and**
219 **Corrective Measures.** Excess buildup, uncovered areas, or unsightly
220 appearance shall not be permitted. All excess slurry seal build-up on
221 longitudinal and transverse joints shall be removed. Place longitudinal
222 joints on lane lines. Half passes and odd-width passes may only be used
223 in minimum amounts and only when authorized by the Engineer. The
224 contractor shall provide suitable width-spreading equipment to minimize
225 the number of longitudinal joints throughout the project. Longitudinal lane
226 line joints shall not overlap more than six inches.

227
228 Excess slurry seal on areas such as shoulders, gutters, curbs,
229 utility covers, and pavement markers and striping to remain shall be
230 removed.

231
232 All deficiencies in the slurry seal, resulting from but not limited to

233 poor workmanship, contractor's operations, removal of temporary traffic
234 control measures, and early opening to vehicular traffic, shall be repaired
235 before acceptance. All corrective measures shall be considered incidental
236 to the slurry seal. The corrective methods shall be approved by the
237 Engineer.
238

239 **(H) Protection of Slurry Seal.** Except for construction equipment used
240 for slurry seal operations, keep traffic off slurry seal until such time that
241 mixture has cured sufficiently so that slurry seal will not adhere to and be
242 picked up by vehicle tires. Ensure that cured slurry seal adheres firmly to
243 existing surface.
244

245 **404.04 Measurement.** The Engineer will measure slurry seal per square
246 yard in accordance with the contract documents.
247

248 The Engineer will not measure preparation of surfaces except for distressed
249 asphalt reconstruction work. All other work mentioned in the preparation of
250 surfaces shall be considered incidental to slurry seal activities.
251

252 **404.05 Payment.** The Engineer will pay for the accepted slurry seal at the
253 contract unit price basis, as shown in the proposal schedule. Payment will be full
254 compensation for the work prescribed in this section and the contract documents.
255

256 The Engineer will pay for the following pay item when included in the
257 proposal schedule:
258

259 Pay Item	260 Pay Unit
261 Slurry Seal	262 Square Yard

263 Engineer will pay 100 percent of the contract bid price upon completion of
264 the slurry seal installation."
265

266
267 **END OF SECTION 404**

1 Make this section a part of the Standard Specifications:
2

3 **“SECTION 408 – CRACK SEAL**
4

5 **408.01 Description.** This section describes furnishing and applying crack
6 seal on existing asphalt pavement.
7

8 **408.02 Materials.**
9

10 Crack Seal ASTM D 6690-15
11

12 Crack seal shall be hot applied and meet the requirements of ASTM
13 D6690-15. Submit crack seal product information and test data for approval.
14

15 **408.03 Construction.**
16

17 **(A) Weather Limitations.** Do not apply crack seal if any moisture is on
18 the pavement or in the cracks.
19

20 **(B) Surface Preparation.** Immediately before applying crack seal, clean
21 existing pavement in accordance with Section 310 – Brooming Off.
22

23 Eradicate and remove all existing thermoplastic pavement markers within
24 the work area crack seal is being applied.
25

26 Remove all vegetation, loose material and debris from the cracks. Clean
27 cracks with compressed air. Hot air blast cracks immediately prior to
28 application of crack seal.
29

30 **(C) Routing.** For cracks and joints less than 1/2-inch wide, route to a
31 uniform width of 1/2-inch and depth of 3/4-inch to 1 inch prior to crack
32 sealing, as directed by the Engineer.
33

34 **(D) Melters.** Use an indirectly heated double boiler melter which shall be
35 capable of heating and applying all grades of asphalt rubber sealant, fiber
36 modified sealant and specification joint sealant without any further
37 equipment modification. The melter heating system shall be
38 thermostatically controlled and calibrated. The machine shall be capable
39 of starting at ambient temperature and bringing sealant material up to
40 application temperature in one hour at 70 degrees Fahrenheit ambient
41 temperature. The melter shall have continuous sealant agitation and a
42 mixing system to provide uniform viscosity and temperature of material
43 being applied. All equipment shall be in good working order and
44 functioning properly.
45

46 **(E) Application.** Seal cracks and joints 1/2-inch to 3/4-inch with
47 approved hot-applied crack seal. For cracks and joints less than 1/2-inch

48 wide, rout to a uniform width of 1/2-inch and depth of 3/4-inch to 1 inch
49 and at the sole discretion of the Engineer, fill with an approve hot-applied
50 crack seal. The router shall also have a dust control system designed to
51 reduce the particle pollution inherent in asphalt pavement crack routing
52 that protects people from excessive dust, and surrounding areas and
53 vehicles from flying debris.

54
55 **(F) Protecting the Work.** Crack seal shall be allowed to cool sufficiently
56 before opening to traffic. If the pavement temperature is expected to
57 exceed 85°F within 24 hours after placement, apply a manufactured
58 detackifying agent to the sealant before opening to traffic.

59
60 **(G) Cure Time.** Crack seal shall be allowed to cure for a minimum of 30
61 days before any surface treatment is applied over it.

62
63 **408.04 Measurement.** Crack sealing of existing pavement will be measured
64 per linear foot in accordance with the contract documents.

65
66 **408.05 Payment.** The Engineer will pay for the accepted crack sealing at the
67 contract unit price, as shown in the proposal schedule.

68
69 Payment will be full compensation for the work prescribed in this
70 section and the contract documents.

71
72 The Engineer will pay for the following pay item when included in the
73 proposal schedule:

74	75 Pay Item	76 Pay Unit
77	Crack Sealing – Less than 1/2"	Linear Foot
78		
79	Crack Sealing – 1/2" to 3/4"	Linear Foot"
80		

81 **END OF SECTION 406**

1 **SECTION 414 – RECONSTRUCTION OF WEAKENED PAVEMENT AREAS**

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20

Make the following amendment to said Section:

(I) Amend **Subsection 414.03 – Construction** from lines 16 to 18 to read:

“Backfill excavated areas to existing roadway grade with hot mix asphalt base course (HMABC) in accordance with Section 301 – Hot Mix Asphalt Base Course or hot mix asphalt mix no. IV (HMA), in accordance with Section 401 – Hot Mix Asphalt (HMA) Pavement.”

(II) Amend **Subsection 414.05 – Payment** from lines 52 to 53 to read:

“The Engineer will pay for HMABC in accordance with and under Section 301 – Hot Mix Asphalt Base Course.

The Engineer will pay for HMA in accordance with and under Section 401 – Hot Mix Asphalt (HMA) Pavement.”

END OF SECTION 414

1 Amend **Section 415 – COLD PLANING OF EXISTING PAVEMENT** to read as
2 follows:

3
4 **SECTION 415 - COLD PLANING OF EXISTING PAVEMENT**
5

6
7 **415.01 Description.** This section describes removing existing pavement by a
8 cold-planing process and establishing grade controls to provide a basis for a smooth
9 riding surface.

10
11 **415.02 Materials.** None.

12
13 **415.03 Construction.**

14
15 **(A) Equipment.** Cold-planing machines shall be self-propelled, equipped
16 with an automatically controlled and activated cutting drum that is capable of
17 grade reference, maintaining transverse slope control and producing a
18 uniformly textured surface. An Engineer accepted grade 1-piece referencing
19 attachment, not less than 30 feet in length, shall be used. The cold-planing
20 machine shall be capable of accurately removing the pavement surface, in one
21 or more passes, to the required grade or cross-section indicated in the
22 Contract Documents, without tearing or gouging underlying surface that is to
23 remain and without contaminating milled pavement with underlying base
24 course material. The final cut shall result in a neat and uniform milled surface.

25
26 Equip machine with cutting drum capable of producing a uniform
27 surface finish and texture. Enclose the cutting drum in shroud to prevent
28 discharge of loosened material into adjacent work areas. As standard
29 equipment, provide dust suppression system, storage tanks with an adequate
30 water, and high-pressure spray bar with spray nozzles. Provide a machine
31 capable of cutting a crown and a depth by tilting drum axis and it shall be
32 equipped with guidance system that controls transverse slope and longitudinal
33 profile, matches adjacent pavements, and controls depth of cut. A mobile
34 referencing system shall be used. Provide at minimum a 30-foot long 1-piece
35 mobile reference to provide average elevation variations. The entire length
36 shall be used in activating the sensor.

37
38 If referencing from existing pavement, the cold-planing machine shall be
39 controlled by a self-contained grade reference system. The system shall be
40 used at or near the centerline of the roadway. On the adjacent pass with the
41 cold-planing machine, a joint-matching shoe may be used on the newly placed
42 HMA surface. Using the existing newly paved pavement as a reference is
43 discouraged and should not be used unless the profile of the existing
44 pavement meets the smoothness requirements of the Contract Documents
45 and even then, shall be used at the Contractor's own volition.
46

47 **(B) Cold-Planing Pavement Profile.** Prior to the start of cold-planing
48 (planing) take a pavement surface profile test of all areas where planing is to
49 occur. Use these profiles to create a surface profile that shall be used to install
50 a smooth finish pavement that meets the Contract Document smoothness
51 requirements. The planing profile shall allow the finish HMA pavement's
52 profile in general to:

- 53
- 54 (a) Not change the drainage patterns of the existing roadway.
 - 55
 - 56 (b) Decrease the clearance between overhead objects, e.g.,
57 overpasses, utility lines, and the finish pavement.
 - 58
 - 59 (c) Decrease the effectiveness or make existing safety apparatuses
60 non-compliant.
 - 61
 - 62 (d) Change geometric properties, e.g., sight distance, slopes of the
63 roadway shall not be changed.
 - 64

65 The method used by the Contractor to obtain planing pavement profiles
66 will be left up to the Contractor. The Engineer will use a profile obtained using
67 the Contractor supplied profilograph to determine the profile index, i.e.,
68 smoothness, of the new pavement regardless of what method the Contractor
69 uses to determine the planing pavement profile. Submit all planing pavement
70 profiles for review and acceptance by the Engineer at a minimum of 30 days
71 before planing starts. Inform the Engineer of any existing feature that may
72 need adjustment to obtain a smooth riding surface. Adjustments to the
73 existing feature if made will be paid for by contract change order.

74

75 Planing shall be used to create the initial base that shall improve the
76 existing pavement profile when paving work is properly performed. Set
77 guidance system grade sensor on string line or other grade device to guide the
78 planing machine to the proper cutting profile established by the planing
79 pavement profile.

80

81 **(C) Cold-Milled Surface and Removed Material.** Cold-mill (mill) surface
82 to remove pavement and to eliminate high spots and surface irregularities for a
83 smooth roadway resurfacing. Remove thickness of existing pavement to the
84 average minimum depth indicated in the Contract Documents. In general, the
85 depth, length, width, and shape of the cut shall be as shown in the Contract
86 Documents or as directed by the Engineer. Examine the milled surface and
87 inform the Engineer if:

- 88
- 89 (a) There are any weakened pavement areas not shown in the
90 Contract Documents.
 - 91
 - 92 (b) A thin milled 90 subsurface layer exists.

- 93 (c) Holes are present in the milled surface.
94
95 (d) There are indications of poor bonding of the milled layer to the
96 layer below.
97
98 (e) Base course showing.
99
100 (f) Any condition that may be deleterious to the service life of the
101 new overlay exists.

102
103 The Engineer may direct remedial work in these areas to provide
104 increased pavement life as well as a smoother ride, e.g., increase the depth of
105 the planing or do additional work to the weakened pavement areas. Additional
106 remedial work will be considered extra work unless the Contractor over milled
107 the pavement.

108
109 Furnish, install, and maintain grade and transverse slope references.

110
111 Adjust machine blades to avoid damaging existing items that are to
112 remain, such as underlying pavement structure, monuments, manholes, and
113 pipes. Remove and replace or reconstruct items damaged by planing
114 operations.

115
116 Maintain an appropriate consistent planing speed that shall give a
117 smooth consistent texture for the milled surface. Planing speed shall be
118 adjusted so that the milled surface is not scalloped or individually gouged or
119 both. The travel speed in feet per minute shall not exceed 2/3 of the cutter
120 drum RPM, e.g., 100 RPM > 66 feet per minute. If the planing machine does
121 not have a drum RPM gage, assume the drum speed is 1/19th of the engine
122 RPM.

123
124 For roadways open to traffic, cold plane each day across full width of
125 traffic lanes to avoid longitudinal pavement drop-off between lanes. Make
126 every effort to avoid longitudinal drop offs between lanes. If this cannot be
127 avoided at the end of the day's production, or in areas opened to public traffic,
128 construct tapered transitions for all longitudinal and transverse pavement drop-
129 offs before opening area to public traffic. Use the same quality of HMA for
130 temporary tapers that is used for the HMA overlay or pavement. Use
131 maximum slopes of 8:1 for longitudinal and 48:1 for transverse tapered
132 transitions. When cross streets are encountered use a 48:1 taper; minimize
133 the transition piece from being in the lane perpendicular to the cross-street.
134 Use 48:1 slope for transition pieces for utility features found in milled areas.
135 The difference in elevation between adjacent existing pavement and milled
136 areas shall not exceed 3 inches. Compact transition in such a manner that the
137 transition shall provide a smooth riding transition and shall not change its
138 shape for the duration of its use. The transition shall be uniform in shape and

139 the toe of the transition shall be a set distance parallel to the unmilled edge of
140 the adjacent pavement, i.e., the toe of the transition shall form a straight line
141 parallel to the milled edge. Remove all transition material in the area to be
142 resurfaced before placing the overlay.

143
144 Provide for drainage of milled surface areas and adjacent pavement.
145 Drainage of the milled areas shall be installed on same work shift as when
146 planing is performed.

147
148 The finished milled surface shall be suitable for public traffic to use
149 safely and not cause damage to its vehicles or to the existing pavement. The
150 completed surface of the milled asphalt concrete pavement shall not vary more
151 than 0.02 foot when measured with a 12-foot straightedge parallel with the
152 centerline. With the straightedge at right angles to the centerline, the
153 transverse slope of the planed surface must not vary more than 0.03 foot.
154 Check the milled surface profile every 24 feet to verify that the planing is
155 compliant. Record drum speed and planing machine speed at every 30
156 minutes. Record results of checks, in a manner acceptable to the Engineer
157 showing at a minimum:

158
159 (a) Location of the profile check showing station and offset from
160 centerline or station and lane location for both profile check and drum
161 speed and planing machine speed.

162
163 (b) Date and time for both profile check and drum speed and planing
164 machine speed.

165
166 (c) When planing machine started planing and stationing, all
167 stopping and restarting times. End of shift planing work station.

168
169 (d) Variances from straightedge, location of the variance on the
170 straight edge.

171
172 (e) Person performing checks and recording the information shall
173 sign and print full name on report.

174
175 (f) Submit reports weekly to the Engineer.

176
177 Re-mill areas that do not conform to Contract Document requirements
178 or perform an Engineer accepted remedial repair if existing subsurface
179 pavement would be too thin to re-mill and still provided the needed structural
180 support to the pavement section.

181

182 The Engineer may reduce the number of profile and planing machine
183 speed checks if the reports show a consistent pattern of best practices and
184 performance. The Engineer reserves the right to reinstate the former level of
185 checks at any time should the quality of the work start to degrade.
186

187 Clean and sweep surface of milled pavement in accordance with
188 Section 310 - Brooming Off, with the additional requirement that all loose
189 material shall be picked up within the roadway surface including gutters, before
190 opening milled area to public traffic. Repeat the cleaning and sweeping of the
191 milled pavement to the same requirements used on the first day for each day
192 the milled area is opened to public traffic including Saturday, Sunday and
193 holidays.
194

195 Install all temporary traffic pavement markings before opening to public
196 traffic and maintain them until overlay is placed. Pavement markings shall be
197 of the same size, e.g., width and length as required in the Standard Plans. For
198 example, no Arrows made with a single 4-inch tape will be allowed, the width
199 of arrow shall be as show in TE-29.
200

201 Dispose of milled and removed transition materials in accordance with
202 Subsection 201.03(F) - Removal and Disposal of Material.
203

204 Minimize dust escaping from cold-planing operation and contain or
205 remove runoff water used for dust control in accordance with Section 209 –
206 Temporary Water Pollution, Dust and Erosion Control.
207

208 The milled surface shall not be exposed to public traffic for more than
209 three days prior to placement of resurfacing material. Place a leveling course
210 over the entire milled area before the end of the third day if the permanent
211 overlay cannot be placed. The leveling course shall be removed before the
212 installation of the overlay. The leveling course, its installation and removal and
213 any additional HMA needed due to increased depth shall be at the Contractor's
214 expense. Failure to install an acceptable leveling course will result in the
215 assessment of rental fees for unauthorized lane closure charges for the areas
216 that are non-compliant, e.g., milled areas open longer than three days, until
217 they have received an acceptable leveling course layer or the permanent
218 overlay. Lane rental fee charges shall start at the end of the third day's normal
219 working hours as defined in the Contract Documents, i.e., the third day's
220 normal end of non-overtime shift. There will be no maximum amount of lane
221 rental assessed by the Engineer for this situation. The Engineer will
222 unilaterally calculate the amount of rental fees to be assessed. The Engineer
223 reserves the right to suspend the Contractor's work and continue to charge
224 lane rental when the Engineer determines that the Contractor's work is
225 adversely impacting the public.

226 **415.04 Measurement.** The Engineer will measure cold planing per square yard in
227 accordance with the contract documents.

228
229 **415.05 Payment.** The Engineer will pay for the accepted pay items listed below at
230 the contract price per pay unit, as shown in the proposal schedule. Payment will be
231 full compensation for the work prescribed in this section and the contract documents.

232
233 The Engineer will pay for one of the following pay items when included in
234 the proposal schedule:

235

Pay Item	Pay Unit
Cold Planing	Square Yard
(1) 80 percent of the contract bid price upon completion of removing the indicated thickness and clean and sweep before opening to public traffic;	
(2) 20 percent of the contract bid price upon completion of removing the material and disposing of the removed material.	

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END OF SECTION 415

1 Make the following Section a part of the Standard Specifications:
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3

4 **“SECTION 615 – MILLED RUMBLE STRIP**
5

6 **615.01 Description.** This section describes constructing Centerline and
7 Edgeline Milled Rumble Strips (MRS) in HMA pavement.
8

9 **615.02 Materials.** None.
10

11 **615.03 Construction.**
12

13 **(A) Submittal.** Method of constructing the milled rumble strip shall
14 be submitted to the Engineer for acceptance. Meeting shall be scheduled
15 14 days before start of construction work. Discuss sequence of work
16 plans, and proposal for dust control.
17

18 **(B) Equipment.** Milling equipment shall be equipped with a rotary-
19 type cutting head with cutting tips arranged in a pattern as to provide a
20 relatively smooth cut, approximately 1/16 inches between peaks and
21 valleys.
22

23 The cutting head(s) shall be on a suspension independent from the
24 power unit to allow the head(s) to self-align with surface slopes and
25 irregularities.
26

27 The machine shall have a guidance system that provides consistent
28 alignment of each cut in relation to the roadway and provide uniformity
29 and consistency throughout the project.
30

31 **(C) Longitudinal Spacing.** The Milled Rumble Strips (MRS) shall be
32 placed perpendicular to the roadway with longitudinal spacing as follow:
33

34 Centerline MRS: 20 inch on-center (milled across centerline)

35 Edgeline MRS: 12 inch on-center (within edgeline)
36

37 The 20 inch on-center longitudinal spacing for Centerline MRS is
38 designed to accommodate multiple centerline pavement striping and
39 raised pavement marker configurations. It will allow placement of raised
40 pavement markers between the milled concave depressions.
41

42 **(D) Milling Operations.** Clean pavement surface before constructing
43 the rumble strips. Mill the concave depressions to the dimensions shown
44 in the plans.
45

46 Align the concave depressions as shown in the plans. Alignment
47 of milled rumble strips shall not deviate from the plans more than ± 2
48 inches.

49
50 After the concave depressions are milled into the pavement
51 surface, use a power broom or sweeper/vacuum to collect the waste
52 material resulting from the milling operations.

53
54 Contractor shall dispose the waste material as directed by the
55 Engineer at no increase in contract price or contract time.

56
57 **615.04 Measurement.** The Engineer will measure for furnishing and
58 installing milled rumble strip per linear foot.

59
60 **615.05 Payment.** The Engineer will pay for the accepted milled rumble strip
61 on at the contract unit price per linear foot. Payment will be full compensation for
62 the work prescribed in this section and the contract documents.

63
64 The Engineer will pay for the following pay item when included in the
65 proposal schedule:

Pay Item	Pay Unit
16-Inch Milled Rumble Strip, Centerline	Linear Foot
12-Inch Milled Rumble Strip, Edgeline	Linear Foot"

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76 **END OF SECTION 615**
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vehicle classification, including but not, limited to the 13 FHWA vehicle types, and data for environmental impact analysis per FHWA requirements.

(1) General Requirements. Install EVC system in each lane at the system’s existing location. The EVC system contains a set of piezoelectric sensors and magnetic loop detectors. The EVC system will be used to classify the number of axles in accordance with FHWA requirements.

The EVC system shall also be capable of monitoring traffic volume data using one or more magnetic induction vehicle detector loops. Such loops shall be installed as called for in the submitted plans.

(2) EVC System Components. Installation and setup per manufacturer’s recommendation for all sensors, lead-in cables, and related components.

(a) Traffic Classification Data System Requirements.

1. In-Road Piezo and Classification Sensor System. A Piezo Sensor System is the type of classification sensor system required for this project.

(i) The piezo sensors shall have an operating life of a minimum of one year from the date of acceptance. Sensor failure during this period shall require replacement of the faulty unit at the Contractor's expense for furnishing, delivering and installing the replacement equipment, system, and components including any traffic control measures required for the safe installation of the replacement sensor.

(ii) Install piezo sensors under the supervision of the manufacturer's representative for the Piezo system. All necessary components, process, system modifications, and installation requirements shall be provided as incidentals to the system.

(iii) Piezo Sensor System: The following are requirements for the Piezoelectric Sensor system:

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a) Configuration: Install piezoelectric sensors in the roadway for each lane in both traffic directions.

b) Class 1 BL unencapsulated piezoelectric sensors must be supplied complete with custom length lead-in coaxial cable with pre-made termination connectors. The sensor design and installation technique must have been proven reliable in conditions (soil and environmental), similar to those in Hawaii.

c) Piezo Sensor shall be Class I Weigh in Motion Sensor, 12-foot length (or based on actual roadway width), complete with coaxial lead cable (non-spliced). The sensor shall have 16 gauge flat braided silver plated copper wire center core with highly compressed piezoelectric copolymer P(VDF-TrFE) and outer sheath of 0.16-inch thick brass meeting CDA-260 and ASTM B87-88 requirements. The sensor shall be approximately 0.26-inches wide with a maximum thickness of 0.063-inches (plus/minus 0.05 inches). Insulation resistance between core and shield shall be greater than 500M ohms. Piezoelectric coefficient shall be greater or equal to 20 pC/N nominal.

1) Embed piezo sensors in a grout with clips for mounting at six inch intervals. The sensors shall be of the type suitable for the application. Install piezo lead-in cables and piezo sensors in slots cut in the road surface, approximately 3/4-inch wide by two inches deep and provide supporting clips at six inch centers.

2) Lay sensor in a groove at one inch below the surface of the roadway or as recommended by the manufacturer. Secure sensor in

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place along the entire length of the sensor in the slot by quick setting grout clips.

3) Sensor shall be manufactured to produce uniform, high amplitude piezoelectric output with signal to noise ratio of 10:1 minimum.

4) Groove shall be constructed in strict accordance with specifications of the manufacturer. Install sensor straight and flat in groove.

5) Epoxy fill voids of the groove. The epoxy grout fill shall be prepared in accordance with the manufacturer's instructions, and shall result in a concave finish approximately 1/16-inch above the surface of pavement or as shown on the plans. The grout curing requirements of the manufacturer shall be complied with and traffic loading shall not be permitted until the grout is fully cured.

6) Passive signal cable shall be RG 58 rated for underground direct burial, with outer jacket of 0.187-inch outside diameter and nominal capacitance of 27 pF/Ft, with factory termination to sensor and BNC connector. Each cable shall have field measured custom length to suit the installation conditions. In the event that the cables provided have insufficient length to reach the equipment harness inside the cabinet, the cables shall be rejected and splicing to lengthen the cable will not be allowed.

7) Install sensor in clean saw cut grooves in strict conformance to the

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sensor manufacturer's installation requirements.

8) Hot tar shall not be used. Installation of encapsulating material shall be allowed to cure and shall be ground flat.

9) Do not allow traffic on the completed system until the manufacturer's representative approves all conditions of the installation with the acceptance by the Engineer. Thereafter, testing in accordance with the manufacturer's requirements shall be completed before public traffic is allowed.

10) Grooves shall be made by wet cutting. Dry cutting shall not be allowed.

11) Overall length of the passive cable shall be 300-foot maximum or as required. Provide loop of five feet in handhole for each cable.

12) In the event that heating of the encapsulating material is allowed by the Engineer, the temperature of the material shall not be allowed to exceed 170 degrees F. In the event that the temperature exceeds the maximum allowed, the entire sensor system installed shall be replaced.

13) Provide adequate power for all test equipment to meet the detailed and specific requirements of the manufacturer for all tests required for certification and acceptance. Provide all necessary equipment to perform the required tests.

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d) One 12-foot piezoelectric sensors (or as determined by the Engineer) must be supplied for each lane for both directions.

e) The sensors shall be able to withstand at least one million cycles and interface with the counting equipment to perform the above mentioned, applications.

f) The sensors shall include all mounting hardware and installation grout. The supplied installation grout must be suitable for installation in both asphalt and Portland cement pavements. The installation grout must require no special equipment to facilitate installation. The grout must have a short curing time (less than 75 minutes) to minimize lane closure time. The grout should be of sufficient consistency to prevent "running" when being applied on road surfaces with a drainage cross-slope. Particulate matter within the grout must not separate or settle. The grout must not shrink during the curing process.

(iv) Sensor (inductive) loops shall be furnished and installed in each traffic lane, to measure speed and length of vehicles and also to classify vehicles in conjunction with the axle detectors.

(v) If the number and configuration of the in-roadway sensors, and sensor loops, need to be modified from the number and configuration shown in the field, the Contractor shall inform the State at the time of submitting the proposal, or earlier, and submit Shop Drawings of the revised configuration for approval.

(vi) Grout and Epoxy. The sensor manufacturer must approve and the Engineer must accept all grout and epoxy used for the sensor installation.

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(b) Vehicle Inductive Loops. Install two vehicle inductive loops per lane for measuring volume, speed and vehicle length. The inductive loops shall be completely tested prior to shipment with no splices and ready to install. (Note: The lead-in wire(s) for the new inductive loops can be spliced (soldered connection/waterproof insulation) to an existing lead-in wires at the existing or new pull box. Ensure sufficient wire lengths for the piezo sensors must be provided to be able to connect wires into the terminal block inside cabinet without splices. HDOT or its representative will make the final connection into the terminal block inside the cabinet, however, the Contractor shall label the wires clearly to identify traffic direction, lane number, and sequence of loops and piezo sensors in each lane per direction).

Each loop and its two lead-in-wires, shall be one continuous piece of #14 AWG, 19 strand bare copper, IMSA 51-conforming to the requirements of ASTM B-3 as manufactured by Berkshire Electric Cable Company or approved equal. The loop cable shall be continuous within the roadway. The loop itself includes four turns of wire of a size, as specified in the contract. Do not twist lead-in-wires from one loop pair with another loop pair.

Embed loop and lead-in-wires in a 3/8-inch minimum width saw-cut in the pavement. Saw cut depth to the top layer of wire shall be at least two inches deep. The saw cut groove shall be air blown to remove debris before installing the loop cable. Fill the saw cut groove with approved epoxy sealer. Install Vehicle Detector Loops such that they are centered in the lane relative to the final lane stripping. Replace loops not centered in each lane relative to the final lane stripping at no additional cost to the State.

(c) EVC Controller Cabinet. The new EVC controller cabinet shall house all required communications and control equipment necessary to control the EVC System and to remotely communicate with the Department of Transportation, Highways Division, Planning Branch via modem.

The EVC controller cabinet shall consist of a ground-mounted cabinet similar to a CALTRANS Model 332 Controller Cabinet or approved equal capable of housing and mounting the data collection unit.

318 Each 332 Cabinet shall meet the following additional
319 requirements:

- 320 1. Cabinets fabricated from 0.125 anodized
321 Aluminum.
- 322 2. Cabinet's Main Breakers shall be rated as 50
323 amps.
- 324 3. Front and back fluorescent lights activated upon
325 opening any door.
- 326 4. Convenience GFI Receptacles.
- 327 5. Door locks of solid brass rim Best Lock Series
328 516RL3XA7559-606 including two keys.
- 329 6. Labeling by Silk-Screening only.
- 330 7. Attach one each 24 inch x 36 inch Cabinet Print in
331 a weatherproof plastic jacket to front and back cabinet
332 doors.
- 333 8. The cabinet shall be painted with an "anti-graffiti"
334 type paint in conformance with Section 708 - Paints of
335 the Standard Specifications.

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345 Internal wiring shall be modified to meet the functional
346 needs of the EVC System.

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348 **(d) Electrical Conductors** shall be as follows:

- 349 1. Type 1 Home-Run Cable Tie in Loop Detector
350 Stubs to the Cabinet. Polyethylene
351 insulated, Stranded-Tinned-Copper14
352 AWG; 2 Conductor Cable; Stranded
353 Tinned-Copper Drain Wire; Aluminum -
354 Polyester Shielded; Polyethylene
355 Jacketed; 600 Volts Rated; IMSA Spec.
356 50-2 Certified.
 - 357 2. Type 2 Detector-Loop Cable for installation into
358 the roadway sawcut; 12 AWG Stranded
359 THHN; 600 Volts; inserted into a
360 Polyethylene Tube, 0.25 inch max.
361 diameter IMSA Spec 51-5 Certified.
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Cable inclusive in the Detector Loop Bid.

3. The remaining cables required for the installation of the EVC station shall be as required by the manufacturer's requirements and recommendations.

- (e) **Excavation Warning Signs.** The Contractor shall furnish and install two warning signs and appropriate mountings on each side of the roadway adjacent to the sensor lead-in cable runs or as close as possible. Signs and mountings shall conform to the requirements of Section 750.01 (Signs) of the Standard Specifications and Standard Plan TE-01. Signs shall be a minimum of 12 inches by 18 inches. Sign text shall read as follows:
WARNING
BURIED TRAFFIC SIGNAL LINES
NOTIFY HWY-PLANNING BRANCH AT
(808) 587-6352 BEFORE DIGGING/EXCAVATION

The first line of text shall be a minimum of two inches in height. Subsequent lines of text shall be one inch in height. No border is necessary, but a margin of 1/4 inch shall be maintained. For the letters and background, use black and yellow paints, respectively. The first line of text shall be centered. Subsequent lines shall also be centered, however, the Contractor shall have the option to move the wording within these lines to allow for best fit. Furnishing warning signs, mountings, and installation shall be incidental to the Contract.

(B) **Other Materials.** Concrete shall conform to the requirements of Section 601 - Structural Concrete. Other materials shall meet the requirements specified in the following:

Trench Backfill Material	Subsection 703.21
Conduits	Subsection 712.27
Concrete Pull Box	Subsection 712.06(B)
Conductors and Cables	Subsection 770.06

410 **627.03 Construction Requirements.**

411

412 **(A) Equipment List and Drawings.** Submit the equipment list and
413 drawings to the Engineer for acceptance.

414

415 **(B) Excavation and Backfill.** Excavation and backfill shall conform to
416 Section 204 - Excavation and Backfill for Miscellaneous Facilities. Place
417 the material from the excavation to prevent damage and obstruction to
418 vehicular and pedestrian traffic and interference with surface drainage.

419

420 **(C) Installation.**

421

422 **(1)** Provide supervision for the EVC installation and testing of the
423 entire EVC system.

424

425 **(a)** Install piezo (EVC) sensors under supervision of EVC
426 system Contractor.

427

428 **(b)** Provide other work necessary such that the completed
429 sensors are ready for HDOT's use.

430

431 **(2) Vehicle Detectors.** Install vehicle inductive loops as ordered
432 by the Engineer and as required by the EVC system Contractor, or as
433 recommended by the manufacturer.

434

435 **(3) Conduits.** Conduits, if any, shall be direct burial and
436 concrete encased as shown in the contract. Conduits shall be PVC,
437 Schedule 80.

438

439 Install the ducts to drain towards either one or both pullboxes.
440 Conduits shall not drain towards the EVC Controller cabinet.

441

442 Intake directional changes in the conduits, such as bends and
443 changes to clear obstructions with curved segments using accepted
444 deflection couplings or with short lengths of straight ducts and
445 couplings. The deflection angle between two adjacent lengths of
446 ducts shall not exceed six degrees (6°). The bends shall not have a
447 radius of less than 12 times the nominal size of the conduit. The
448 Contractor may use factory-made ells.

449

450 Square and trim the ends after cutting to remove rough edges.
451 The connections shall be of the solvent weld type. Make the solvent
452 weld joints according to the conduit manufacturer's recommendations
453 and as accepted.

454

455 Seal the ends of the duct with plugs at the end of each day of
456 work, whenever problems interrupt the duct installation work and
457 whenever ducts are subject to submergence in water.

458
459 Keep the conduits clean during construction.

460
461 Use only hand shovels in compacting concrete encasements.
462 Cure the concrete for at least 72 hours before permitting vehicular
463 traffic to run over the concrete.

464
465 Provide each conduit run with a No. 10 gage flexible, zinc
466 coated pull wire extending through its entire length. Double an
467 additional two feet back into the conduit at each end of the run.
468 Conduits and sleeves entering pullboxes shall end flush in the wall
469 with ends ground smooth. Plug the conduits and sleeves temporarily.

470
471 Give the exterior portions of the direct burial steel conduits not
472 encased in concrete two coats of asphaltic base paint.

473
474 The entire length of a conduit run between pullboxes or
475 standards shall be of one type of material.

476
477 The completed duct lines shall be subject to a field test. Pass
478 a bullet-shaped test mandrel about 14 inches long with a diameter 0.5
479 inch less than the inside diameter of the ducts through the entire
480 length of each duct run. The Engineer will consider scouring found
481 on the mandrel deeper than one thirty-seconds inch an indication of
482 burrs and/or obstructions in the duct run. Normal abrasion between
483 the duct line and bottom of mandrel is not an indication of burrs and/or
484 obstructions in the duct run. Remove such burrs and/or
485 obstructions. Pass the test mandrel through again. Repeat the
486 process until the Contractor gets a satisfactory result.

487
488 **(D) Electrical Service.** Electric power shall be 120 volts, 60 cycles.
489 Install the service underground in a steel conduit of the size shown in the
490 contract from the local power company's pole to the controller.

491
492 Furnish and install service connections such as conduits, weatherhead,
493 wires and meter loop, and comply with the power company's requirement for
494 electrical service. The cost of service connections shall be the
495 responsibility of the contractor.

496
497 **(E) Inspection and Testing.**

498
499 **(1) Preliminary Arrangements.** The equipment shall be given
500 requisite factory tests as necessary to determine that the

workmanship and materials are free from defects and to establish that the design and construction are satisfactory.

Arrange for and conduct shop tests of the equipment to establish compliance of the contract documents and all applicable codes and standards. Furnish certified reports showing the results of all such tests. Test facilities shall be subject to prior inspection by the Engineer. Notify the Engineer at least 21 calendar days before the scheduled start of a test so that the Engineer may elect to witness any or all such tests. Furnish protection of equipment to prevent damage during the test period. All repair or replacement costs of any item damaged as a result directly or indirectly of the test will be at no cost to the State.

Unless otherwise noted in the contract documents, shop testing and inspection of the components or the complete system shall be in accordance with the Contractor's standard practice. Supply a list of all Contractor's standard testing with the equipment submittal. The Engineer shall not be charged for any of the preliminary testing.

(2) Inspection. The Engineer reserves the right to inspect all material during fabrication and before shipment and shall have access to the manufacturer's or Contractor's plant as required.

(3) Tests.

(a) After installation of piezo sensors, perform and furnish written test results for each piezo sensor showing:

- 1) Resistance: The resistance should be at least one MegaOhm.
- 2) Capacitance: The capacitance should range from five to 20 nano Farads.
- 3) Dissipation Factor: The reading should be less than 0.04.

Provide all testing equipment such as BK 875A or equivalent LCR meter, Fluke 75 or higher/equivalent multimeter, Megohmmeter, and Scope meter or oscilloscope for the above tests.

(b) After the installation of the inductive loop detectors, furnish written test results for each loop sensor showing:

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- 1) Induced voltage (V)
- 2) f = Frequency of Loop (KHz)
- 3) L = Inductance of Loop (μ H)
- 4) R = Resistance of Loop (Ohm)
- 5) Meg Test = Loop insulation resistance should be $> 100M$ ohm

Correct any defects discovered as a result of the Static tests at no additional cost to the State.

(4) Acceptance of EVC System.

(a) The EVC system shall not be accepted and payment shall not be made until the system has successfully met the required testing.

(b) Inspection. The Owner reserves the right to inspect all material during fabrication and before shipment and shall have access to the manufacturer's or Contractor's plant as required.

(5) Restoring Pavements and Other Improvements. Restore the existing pavements and other improvements disturbed by excavation to their original condition according to the contract. Materials used for restoration work shall meet specifications match thickness, texture, and color whenever applicable. The grades of the restored surfaces shall match the existing grades.

(6) Warranty. Materials and equipment installed for permanent construction shall be new. Use first-class material and equipment throughout the performance of the contract.

Secure from the manufacturer(s), a warranty or warranties guaranteeing equipment from defects in materials, design and workmanship for not less than 12 months from the date of acceptance.

When requiring adjustments or repairs during the warranty period, adjust or repair the existing unit within 24 hours from the time of notification.

SECTION 629 - PAVEMENT MARKINGS

Make the following amendments to said Section:

(I) Amend **Subsection 629.03(B) – Temporary Pavement Markings** by revising the third paragraph from line 62 to 63 to read:

“Maintain and replace temporary pavement markings, flexible delineators, and barricades. ”

(II) Amend **Table 629.03 – 1 – Temporary Pavement Markings** to read as follows:

“TABLE 629.03-1 TEMPORARY PAVEMENT MARKINGS	
TYPE	PAVEMENT MARKINGS
Passing Permitted - Both Sides	Single 4-inch yellow stripe 5 feet in length spaced 20 feet on center with Type D markers spaced 40 feet on center and located on center of 5-foot length of stripe.
Passing Prohibited - Both Sides	Double solid 4-inch yellow stripes with Type D markers placed 20 feet on center on one of 4-inch yellow stripes selected by the Engineer.
Passing Permitted - One Side Only	Single continuous 4-inch yellow stripe with Type D markers placed on stripe 20 feet on center on no-passing side and single 4-inch yellow stripes 5 feet in length spaced 20 feet on center on passing side.
Lane Lines - Lane Changing Permitted	Single 4-inch yellow or white stripe 5 feet in length spaced 20 feet on center with Type C or Type D markers spaced 40 feet on center.
Lane Lines - Lane Changing Prohibited	Double solid 4-inch white stripes with Type C markers placed 20 feet on center on one of the 4-inch white stripes selected by the Engineer.
Crosswalk	Two 12-inch white transverse lines spaced 8 feet on center or as ordered by the Engineer.
Stop Line	Single 12-inch white transverse line.
Note: Paint may be used for temporary markings in areas where final paving is not complete.”	

(III) Amend **629.04 – Measurement** by revising lines 292 to 294 to read as follows:

19 **“629.04 Measurement.**

20
21 (A) The Engineer will measure thermoplastic and preformed pavement
22 marking tape per linear foot in accordance with the contract
23 documents. The longitudinal pavement markings will be measured per
24 linear foot as a single stripe for the width specified in the contract and
25 in the proposal.

26
27 The Engineer will measure the transverse markings by the linear
28 foot, per lane, or per each according to the contract.

29
30 The Engineer will not measure temporary pavement markings
31 including flexible delineator posts with reflector markers or Type I
32 Barricades and temporary signs installed for the longitudinal guidance
33 of public traffic over reconstructed areas, cold planed surfaces, newly
34 paved surfaces or other unmarked or scarified areas for payment.

35
36 The Contractor shall consider the work required for the removal of
37 pavement markings incidental to the various contract items, except as
38 provided in the proposal or elsewhere in the contract. If the contract
39 stipulates that the Engineer will make payment for the removal of
40 pavement markings, the Engineer will measure the removal of
41 pavement markings.

42
43 (B) The Engineer will measure the pavement markers per each for the
44 types shown in the proposal.

45
46 (C) The Engineer will measure the painted stripes that are twelve (12)
47 inches wide or less as a single stripe. The Engineer will measure the
48 painted stripes over twelve (12) inches wide as two (2) stripes. The
49 Engineer will measure the double stripes that are twelve (12) inches or
50 less in total width including the transverse space between the stripes
51 as a single stripe.

52
53 The Engineer will measure the longitudinal pavement markings by
54 the linear foot or per gallon according to the contract. Longitudinal
55 gaps for skip striping will not be included in the measurement.

56
57 The Engineer will measure the transverse markings by the linear
58 foot, per lane, per each or per gallon according to the contract.

59
60 The Engineer will measure the curb markings by the linear foot or
61 per gallon according to the contract.”

62
63 (IV) Amend **629.05 – Payment** by revising lines 296 to 330 to read as follows:

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65 **“629.05 Payment.**

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(A) The Engineer will pay for thermoplastic and preformed pavement marking tape at the contract price per linear foot or on a lump sum basis according to the contract, complete in place, including primers.

The Engineer will pay for double four (4) inch striping with a four (4) inch space between stripes at the contract price per linear foot or on a lump sum basis according to the contract.

The Engineer will pay for crosswalk markings at the contract price per lane of traffic marked, per each or on a lump sum basis according to the contract.

The Engineer will pay for pavement arrows (single and multiple heads), symbols, and words at the contract price per each according to the contract.

The contract unit price paid shall be full compensation for furnishing labors, materials, tools, equipment and incidentals and for doing the work involved in furnishing and installing pavement markings complete in place according to the contract.

The Engineer will not pay for the temporary pavement markings including flexible delineator posts with reflector markers or Type I Barricades and temporary signs installed for the longitudinal guidance of public traffic over reconstructed areas, cold planed surfaces, newly paved surfaces or other unmarked or scarified areas for payment if not shown in the proposal separately. The Engineer will consider them incidental to the various contract items.

If the contract specifies payment for removal of pavement markings under unit price pay items, the Engineer will pay for the accepted quantities at the contract unit prices bid. The prices shall be full compensation for removing such items according to the contract.

(B) The Engineer will pay for the various types of pavement markers at the contract price per each or on a lump sum basis according to the contract, complete in place, including adhesives.

(C) The Engineer will pay for painted pavement striping at the contract price per linear foot or on a lump sum basis according to the contract.

The Engineer will pay for quantities of crosswalk marking at the contract price per lane of traffic marked, per each or on a lump sum basis according to the contract.

112 The Engineer will pay for pavement arrows (single or multiple arrow
113 heads), symbols, and words at the contract price per each according to
114 the contract.

115
116 The Engineer will pay for the accepted quantities of curb markings
117 at the contract price per linear foot or on a lump sum basis.

118
119 The Engineer will pay for the following pay items when included in
120 the proposal schedule:

121	Pay Item	Pay Unit
122		
123		
124	_____ - Inch Pavement Striping (_____)	Linear Foot
125		
126	Pavement Word (Thermoplastic Extrusion)	Each
127		
128	Pavement Arrow (Thermoplastic Extrusion)	Each
129		
130	Pavement Symbol (Thermoplastic Extrusion)	Each
131		
132	Yield Line (Thermoplastic Extrusion)	Lane
133		
134	Crosswalk Marking (Thermoplastic Extrusion)	Lane
135		
136	Type ____ Pavement Marker	Each
137		
138	Removing and Disposing of _____	Linear Foot
139		
140	Removing and Disposing of _____	Each
141		
142	Removing and Disposing of _____	Lane
143		
144	Thermoplastic Rumble Bars	Linear Foot

145
146 **END OF SECTION 629**

1 Make the following Section a part of the Standard Specifications:
2

3 **SECTION 636 – E-CONSTRUCTION**
4

5
6 **636.01 Description.** This section specifies requirements for performing the
7 Project in a “paperless” manner, using electronic tools for all submittals,
8 communications, quantity tracking, testing, and sampling, scheduling, quality
9 control, and performance monitoring.
10

11 **636.02 General Requirements.** The Contractor shall implement the use of the
12 E-Construction platform, as provided by the HDOT and directed by the Engineer,
13 for use throughout the project. Paper-based or hard copy submittals will not be
14 accepted.
15

16 This Special Provision shall take precedence over all other Specification
17 sections with respect to providing and receiving paper copy communications,
18 submittals, and any project records. Where conflicts exist, and a decision between
19 a hard-copy item and a corresponding electronic version is needed, the electronic
20 version shall be selected, unless otherwise directed by the Engineer.
21

22 **636.03 Construction**
23

24 **(A) Plans and Specifications.** Project drawings will not be provided to
25 the Contractor in hard copy format. An electronic version will be provided
26 in the E-Construction platform for use during the project.
27

28 The Contractor shall note all changes to the work, including all
29 subcontractor’s work, in electronic format using the E-Construction platform
30 Red annotations shall be used to note changes. Blue annotations shall be
31 used for any additional notes that will be helpful for the State in interpreting
32 the field posted drawings. Other drafting standards may be implemented
33 by the Engineer and shall be adhered to by the Contractor. Changes shall
34 be input by the Contractor and reviewed by the Engineer monthly. The
35 Contractor shall make any changes that the Engineer requires.
36

37 **(B) Submittals.** The Contractor shall provide all required submittals, as
38 listed within the contract documents, via the E-Construction platform. All
39 review, approval, and resubmittal regarding submittals shall also be
40 documented within the E-Construction platform
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(C) Correspondence. Electronic mail (email) shall be the preferred method of electronic communication. All communications that affect project scope, schedule, cost, or quality, including changes and requests for information, shall be submitted as directed by the Engineer.

(D) Prosecution and Progress. The Contractor shall provide all administrative, management, and project support documents required by various specification sections, using the E-Construction platform. These elements include, but are not limited to:

- (1) Preconstruction Submittals (Section 108.03)
- (2) Correspondence regarding Contract Time and Delays (Section 108.05)
- (3) Progress Schedules (Section 108.06)
- (4) Weekly Meeting preparatory materials (Section 108.07)
- (5) Samples, certifications, material data, installation instructions, and shop drawings (Sections 105 and 106)
- (6) Field-posted Drawings (Section 648)
- (7) Pre-Final Inspection submittals (Section 108.13)
- (8) Warranty documentation (Section 108.17)
- (9) Project Closing Documents (Section 108.19)

In addition to the foregoing, the Contractor shall provide any other materials, correspondence, and submittals using the E-Construction platform as directed by the Engineer.

(E) Resources. The Contractor shall provide a comprehensive list of Contractor labor and equipment, including all subcontractor labor and equipment, that will be deployed on the project, using spreadsheet-based templates provided in the E-Construction platform. All template fields shall be completed. The submitted information shall comply with the requirements of Specification Section 108 – Prosecution and Progress (identification of labor and equipment resources) and Specification Section 109 - Measurement and Payment (cost data) and represent all individual personnel with labor categories and rates, and all equipment owned or rented, with associated rates, on this project. Updates for additional personnel or equipment shall be accomplished by the Contractor at will and shall be completed when directed by the Engineer.

81 **636.04 Measurement.** The Engineer will measure additional E-Construction
82 programs, additional licenses, or additional equipment, if ordered by the Engineer,
83 on a force account basis in accordance with Subsection 109.06 – Force Account
84 Provisions and Compensation.

85
86 **636.05 Payment.** The Engineer will pay for the additional E-Construction
87 programs, additional licenses, or additional equipment, on a force account basis in
88 accordance with Subsection 109.06 – Force Account Provisions and
89 Compensation.

90
91 The Engineer may withhold progress payment until the Contractor is in
92 compliance with all E-Construction requirements.

93
94

Pay Item	Pay Unit
Additional E-Construction Programs, additional licenses or additional equipment	Force Account

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100 An estimated amount for force account may be allocated in the proposal
101 schedule under “Additional E-Construction Programs, additional licenses or
102 additional equipment.” The actual amount to be paid will be the sum shown on
103 accepted force account records.

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END SECTION 636

48 “Place advertisement for three consecutive days and within one week before
49 traffic pattern changes, in publication as ordered by the Engineer. In lieu of the
50 advertisement(s), the Engineer may substitute the use of two portable changeable
51 message boards and accessories for three days for each required advertisement.”
52

53 **(VII) Amend Subsection 645.04 – Measurement** from lines 394 to 403 to read:

54
55 **“645.04 Measurement.** The Engineer will measure Traffic Control as ordered
56 by the Engineer on a force account basis in accordance with the contract
57 documents.”
58

59 **(VIII) Amend Subsection 645.05 – Payment** from lines 405 to 424 to read:

60
61 **“645.05 Payment.** The Engineer will pay for the accepted Traffic Control at
62 the contract price on a force account basis in accordance with the contract
63 documents. Payment will be full compensation for the work prescribed in this
64 section and the contract documents.
65

66 The Engineer will compute the actual amount paid to the Contractor for force
67 account work according to Subsection 109.06 – Force Account Provisions and
68 Compensation.
69

70 The Engineer will pay for the following pay items when included in the
71 proposal schedule:
72

Pay Item	Pay Unit
Traffic Control	Force Account

73
74
75
76
77 An estimated amount for force account is allocated in the proposal schedule under
78 ‘Traffic Control’, but actual amount to be paid will be the sum shown on accepted
79 force account records, whether this sum be more or less than the estimated amount
80 allocated in the proposal schedule. The Engineer will pay for traffic control
81 measures requested by the Engineer on a force account basis.”
82

83 **END OF SECTION 645**

1 Make the following Section a part of the Standard Specifications:
2

3 **“SECTION 671 – PROTECTION OF THREATENED AND ENDANGERED**
4 **SPECIES**
5

6 **671.01 Description.** The endangered Hawaiian Hoary Bat or ‘Ōpe‘ape‘a
7 (*Lasiurus cinereus semotus*) and the threatened Hawaiian Goose or Nēnē (*Branta*
8 *sandvicensis*) are in the general vicinity of the proposed project and may transit or
9 visit the proposed project. The project site is located in a known flight corridor for
10 the threatened Newell’s shearwater (*Puffinus auricularis newelli*), the endangered
11 Band-Rumped Storm-Petrel (*Oceanodroma castro*), and the endangered
12 Hawaiian petrel (*Pterodroma phaeopygia sandwichensis*), hereinafter referred to
13 as seabirds. Also to be considered are the endangered Hawaiian waterbirds,
14 including the Hawaiian Stilt or Ae’o (*Himantopus mexicanus knudseni*), the
15 Hawaiian Coot or 'Alae ke'oke'o (*Fulica alai*), the Hawaiian Gallinule or 'Alae 'ula
16 (*Gallinula chloropus sandvicensis*), and the Hawaiian Duck or Koloa Maoli (*Anas*
17 *wyvilliana*).
18

19 The Contractor shall protect these threatened and endangered species
20 throughout the construction duration.
21

22 **671.02 Materials.** None
23

24 **671.03 Construction.**
25

26 **(A) Pre-Construction and Construction Requirements.** Comply with
27 the following conditions and the notes in the Contract Plans:
28

29 **(1) Hawaiian Hoary Bats.** Hawaiian Hoary Bats nest in both
30 exotic and native woody vegetation. There will be no disturbance,
31 removal, or trimming of woody plants greater than 15 feet (4.6
32 meters) tall during the birthing and pup rearing season (June 1
33 through September 15).
34

35 Additionally, barbed wire will not be used for fencing.
36

37 **(2) Hawaiian Goose.** Any Hawaiian Goose in or near the
38 project area will not be approached, fed, or disturbed in any way.
39

40 If Hawaiian Goose are observed loafing, foraging, or
41 otherwise present within the project area during the breeding season
42 (September 1 through April 30), a trained biologist will survey the
43 area near the project prior to work each day. Also, nest surveys will
44 be conducted in and around the project area by a biologist familiar
45 with the nesting behavior of Hawaiian Goose prior to the resumption
46 of any work. Surveys will be repeated after any delay in work of three
47 or more days. If a nest is identified within 150 feet of the work area,
48 all work will cease and the United States Department of Interior Fish
49 and Wildlife Service (USFWS) will be contacted immediately for
50 further guidance.
51

52 In areas where Hawaiian Goose are known to be present,
53 reduced speed limits will be posted and implemented and project
54 personnel and Contractors will be informed of the presence of
55 endangered species on-site.
56

57 **(3) Hawaiian Seabirds.** Newell's shearwater, Band-Rumped
58 Storm petrel and the Hawaiian petrel may traverse the project area
59 at night during breeding season, which extends from March 1
60 through December 15.
61

62 If night-time work will be required in conjunction with the
63 development of the project, the Contractor shall incorporate these
64 measures to avoid and minimize project-related adverse effects to
65 the Hawaiian seabirds:
66

67 **(a)** Collect information regarding the protection of
68 seabirds and seabird fallout.
69

70 **(b)** Submit to the Engineer for acceptance a protection of
71 seabirds training plan including a detailed description of
72 information and materials the Contractor intends to use in the
73 training classes. The training plan shall be submitted to the
74 Engineer for acceptance at least 15 days in advance of the
75 class. If the Engineer rejects the training plan, the Contractor
76 shall revise and promptly propose another training plan.
77

78 **(c)** Disseminate information regarding the protection of
79 seabirds and seabird fallout by conducting training classes for
80 all employees, subcontractors, suppliers and other personnel
81 working on the project, including HDOT personnel, on such
82 topics as the Save Our Shearwater program, proper use of
83 temporary lighting, procedures to store and report downed
84 seabirds, and the consequences of non-compliance with the
85 laws regarding threatened and endangered seabirds. The
86 Engineer may request for additional topics related to seabirds
87 to be included in the training classes.
88

89 Training classes shall be taught by authorized
90 representatives of the U.S. Fish and Wildlife Service, the
91 Department of Land and Natural Resources, the Save Our
92 Shearwater program or other qualified personnel accepted by
93 the Engineer.
94

95 **(d)** Furnish the Engineer with evidence that the Contractor
96 has held training classes, including the dates of the classes,
97 identify who conducted the training, and the content and
98 nature of the training.
99

100 **(e)** As directed by the Engineer, the Contractor shall
101 conduct additional training classes during the project to
102 update all employees, subcontractors, suppliers, HDOT

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personnel and other personnel on new and/or updated information regarding the protection of seabirds and seabird fallout.

(f) All temporary lights used for night work (between sunset and sunrise) shall contain less than 2% wavelengths less than 550 nm, be downward-facing and shielded. Temporary lights shall include but are not limited to flood lights, light towers, lights for construction equipment and other lights as determined by the Engineer. All traffic control devices, including warning lights, arrow boards, portable changeable message signs and other lighting device as determined by the Engineer shall be shielded.

(g) Night work and the use of all temporary lights shall cease during the peak fallout period from September 15 through December 15.

(h) The Contractor shall furnish and maintain a small (approximately 10" x 12" x 19"), portable cat kennel on site to temporarily hold a downed seabird. The Contractor shall obtain acceptance of the cat kennel from the Engineer prior to use.

(i) If a downed dead seabird is found, the Contractor shall contact the U.S. Fish and Wildlife Service (Ms. Megan Laut at 808-792-9400) within 24 hours.

(j) If the downed seabird is alive, the Contractor shall:

- i.** Pick up the seabird from behind as soon as possible using a clean towel, t-shirt or cloth by gently wrapping it around its back and wings.
- ii.** Place the seabird in the cat kennel and immediately contact the Save Our Shearwater Program Coordinator at 808-246-4348) for further instructions on where to deliver the seabird.
- iii.** Deliver the seabird to the location determined by the coordinator of the Save Our Shearwater program and as directed by the Engineer.
- iv.** Keep the seabird in a cool, quiet location and out of direct sunlight with adequate ventilation.

149 The Contractor shall not feed, provide water, handle or
150 release the seabird.

151
152 **(k)** The Contractor shall maintain records of all downed
153 seabirds for the duration of the project. The records shall
154 include the date, time, location and condition (dead or alive)
155 the seabird was found and delivered. Submit a copy of the
156 records to the Engineer after finding each and every downed
157 seabird.

158
159 No night-time construction shall occur during the peak seabird
160 fledging period (September 15 through December 15).

161
162 **(4) Hawaiian Waterbirds.** Hawaiian waterbirds occupy fresh
163 and brackish water marshes and natural or manmade ponds.
164 Hawaiian stilts also occupy areas with ephemeral or persistent
165 standing water. Because this project occurs near water, threats to
166 these species from this project may include disturbance from human
167 activity and injury or mortality from vehicle strikes.

168
169 Contractor shall incorporate these measures to avoid and
170 minimize project-related adverse effects to the Hawaiian waterbirds:

171
172 **(a)** In areas where known presence of Hawaiian
173 waterbirds occurs, post and implement reduced speed limits,
174 and inform project personnel and Contractors of the presence
175 of these endangered species.

176
177 **(b)** Because water resources occur in the project site,
178 employ U.S. Fish and Wildlife Service Recommended
179 Standard Best Management Practices when working in
180 aquatic environments.

181
182 **(c)** Survey for Hawaiian waterbirds in or near the project
183 area prior to work using survey biologists. Survey biologists
184 should be trained and capable of identifying adults and
185 juveniles of each species, nesting behaviors, and nests.

186
187 **i.** Surveys for species and nests should be repeated
188 when a delay of work occurs that is three days or
189 more (during which the birds may attempt to nest).

190
191 **ii.** If a nest or active brood is found, contact the
192 Service within 24 hours for further guidance.

193
194 **iii.** Establish and maintain a 100-ft buffer around all
195 active nests and/or broods until the
196 chicks/ducklings have fledged. Do not conduct

197 potentially disruptive activities or habitat alteration
198 within this buffer.

199
200 **iv.** Have a biological monitor that is familiar with the
201 species' biology present on the project site during
202 all construction or earth moving activities until the
203 chicks/ducklings fledge to ensure that Hawaiian
204 waterbirds and nests are not adversely affected.

205
206
207 **(B) Compliance Requirements.** The Contractor shall protect all
208 species noted above for the duration of construction. Failure to comply with
209 the construction requirements, harm or a taking of an individual during the
210 construction duration shall be enforceable by the U.S. Fish and Wildlife
211 Service as set forth by the Endangered Species Act. Resultant penalties
212 and/or fines shall be at the Contractor's expense without cost or liability to
213 the State.

214
215 **671.03 Measurement.** The Engineer will measure the work required for the
216 protection of threatened and endangered species on a force account basis in
217 accordance with Subsection 109.06 – Force Account Provisions and
218 Compensation and as ordered by the Engineer.

219
220 **671.04 Payment.** The Engineer will pay for the accepted protection of
221 threatened and endangered species on a force account basis in accordance with
222 Subsection 109.06 – Force Account Provisions and Compensation. Payment will
223 be full compensation for the work prescribed in this section, by the Engineer, and
224 in the contract documents.

225
226 The Engineer will pay for the following pay item when included in the
227 proposal schedule:

Pay Item	Pay Unit
Protection of Threatened and Endangered Species	Force Account

228
229
230
231
232 An estimated amount may be allocated in the proposal schedule under
233 "Protection of Threatened and Endangered Species", but the actual amount to be
234 paid will be the sum shown on the accepted force account records, whether this
235 sum be more or less than the estimated amount allocated in the proposal
236 schedule."
237

238
239

240 **END OF SECTION 671**
241

1 Make this section a part of the Standard Specifications:
2

3 **“SECTION 697 – SURVEYING**
4

5 **697.01 Description.** This section describes performing pre-construction and
6 post-construction surveying in accordance with the contract documents.
7

8 **697.02 Materials.** Not applicable.
9

10 **697.03 Construction.**

11
12 **(A)Boundary survey.** As directed by the Engineer, the Contractor shall
13 complete a boundary survey within the project limits on the State right of
14 way. Survey shall be performed, stamped, and signed by a Hawaii
15 Licensed Land Surveyor.
16

17 **(1)** Survey shall include, but is not limited to, the following
18 elements:
19

- 20 i. Property lines for the State right of way and adjacent
21 property lines and side roads to the project. Contactor
22 shall submit boundary map and boundary study to the
23 State for review and acceptance.
- 24 ii. State baseline information and existing monuments and
25 benchmarks.
26

27 **(2)** Submit the survey to the Engineer in a CAD format as directed
28 by the Engineer, for the Engineer’s review. Make any
29 changes that the Engineer recommends.
30

31 **(3)** Submit the final survey in a PDF and CAD format as directed
32 by the Engineer, prior to construction affecting the existing
33 condition of the project area.
34

35 **(B)Pre-construction survey.** As directed by the Engineer, the
36 Contractor shall complete a pre-construction survey within the project
37 limits on the State right of way. Survey shall be performed, stamped, and
38 signed by a Hawaii Licensed Land Surveyor.
39

40 **(1)** Survey shall include, but is not limited to, the following
41 elements:
42

- 43 i. Property lines for the State right of way and adjacent
44 property lines and side roads to the project. Contactor
45 shall submit boundary map and boundary study to the
46 State for review and acceptance.

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- ii. State baseline information and existing monuments and benchmarks.
 - iii. All structures within the right of way (curb, gutter, guardrail, end treatments, poles, lights, fences, walls, sidewalk, driveways, signs, signals, pavement, buildings, etc.)
 - iv. All pavement markings, raised pavement markers, delineators, and rumble strips within the right of way (pavement striping, symbols, arrows, words, crosswalks, yield and stop lines, etc.)
 - v. Topographic surveying providing 2' contour intervals. Identify grade break points and other topographic features.
 - vi. Location of all storm drain facilities and invert elevations, size, and material type for all storm drain pipes (manholes, culverts, inlets, etc.).
 - vii. Location of all above ground facilities and record information for underground facilities, including pipe inverts, size, and material for all other utilities (sewer, water, power, communications, etc.). Correlate above ground information with existing utility records.

69
70
71
72

(2) Submit the survey to the Engineer in a CAD format as directed by the Engineer, for the Engineer's review. Make any changes that the Engineer recommends.

73
74
75
76

(3) Submit the final survey in a PDF and CAD format as directed by the Engineer, prior to construction affecting the existing condition of the project area.

77
78
79
80

(C) Construction Staking. As directed by the Engineer, any reconstruction, pavement marking installation, or monument installations shall be staked out by a Hawaii Licensed Land Surveyor.

81
82
83
84
85
86

(D) Post-construction survey. As directed by the Engineer, following completion of construction, the Contactor shall conduct a survey to modify the pre-construction survey to reflect the post construction condition of the project limits. Survey shall be performed, stamped, and signed by a Hawaii Licensed Land Surveyor.

87
88
89
90

(1) Submit the survey to the Engineer in a CAD format as directed by the Engineer, for the Engineer's review. Make any changes that the Engineer recommends.

91
92
93

(2) Submit the final survey in a PDF and CAD format as directed by the Engineer, before or during pre-final inspection.

94 **697.04 Measurement.** The Engineer will measure Surveying as ordered by
95 the Engineer on a force account basis in accordance with Subsection 109.06 –
96 Force Account Provisions and Compensation.”
97

98 **645.05 Payment.** The Engineer will pay for the accepted Surveying at the
99 contract price on a force account basis in accordance with the contract
100 documents. Payment will be full compensation for the work prescribed in this
101 section and the contract documents.
102

103 The Engineer will compute the actual amount paid to the Contractor for
104 force account work according to Subsection 109.06 – Force Account Provisions
105 and Compensation.
106

107 The Engineer will pay for the following pay items when included in the
108 proposal schedule:
109

Pay Item	Pay Unit
Surveying	Force Account

114 An estimated amount for force account is allocated in the proposal schedule
115 under ‘Surveying’, but actual amount to be paid will be the sum shown on
116 accepted force account records, whether this sum be more or less than the
117 estimated amount allocated in the proposal schedule. The Engineer will pay for
118 surveying requested by the Engineer on a force account basis.”
119

120

END OF SECTION 697

1 **SECTION 717 – CULLET AND CULLET-MADE MATERIALS**

2
3 Make the following amendments to said Section:

4
5 **(I) Amend Subsection 717.01 – Cullet and Cullet-Aggregate Mixtures as**
6 **Construction Materials** by revising the third paragraph from line 16 to 20 to
7 read:

8
9 “Debris shall not exceed values specified in Tables 717.02-1 - Cullet in
10 Roadway Applications, 717.03-1 - Cullet in Utility Applications, and 717.04-1 -
11 Cullet in Drainage Applications. Debris is defined as deleterious material that
12 includes plastics, papers, and non-ceramic constituents of cullet. Hazardous
13 material will not be allowed in cullet such as but not limited to, TV or other
14 cathode ray tubes, fluorescent light bulbs, and any toxic or hazardous materials.
15 Test cullet stockpile for toxic or hazardous materials every 90 days and submit
16 the results to the Engineer.”

17
18 **(II) Amend Subsection 717.01 – Cullet and Cullet-Aggregate Mixtures as**
19 **Construction Materials** by adding the following paragraph after line 21:

20
21 “Cullet shall not be used in concrete.”

22
23 **(III) Amend Table 717.03-1 – Cullet in Utility Applications** from line 37 to
24 line 39 to read:

25

TABLE 717.03-1 - CULLET IN UTILITY APPLICATIONS		
Utility Trench Bedding and Backfill Applications	Maximum Cullet Content (Percent By Weight)	Maximum Debris Level (Percent By Weight Of Cullet)
Sewer Pipes	25	0.3
Electrical Conduits	25	0.3
Fiber Optic Lines	25	0.3

26
27

28
29
30
31

(IV) Amend **Table 717.04-1 – Cullet in Drainage Applications** from line 47 to line 49 to read:

TABLE 717.04-1 - CULLET IN DRAINAGE APPLICATIONS		
Drainage Fill Applications	Maximum Cullet Content (Percent By Weight)	Maximum Debris Level (Percent By Weight Of Cullet)
Retaining Walls	25	0.2
Foundation Drains	25	0.2
Drainage Blankets	25	0.2
French Drains	25	0.2

32
33
34
35

END OF SECTION 717

1 **SECTION 750 – TRAFFIC CONTROL SIGN AND MARKER MATERIALS**

2
3 Make the following amendments to said Section:

4
5 **(I)** Amend **Subsection 750.01(A)(1) Retroreflectorization** by replacing lines
6 8 through 31 to read:

7
8 **“(1) Retroreflectorization.** The following shall be retroreflectorized:

9
10 **(a)** Background for illuminated guide signs and exit number panels (“E”
11 designation) with ASTM D 4956 Type XI retroreflective sheeting.

12
13 **(b)** Background for non-illuminated guide signs and exit number panels
14 (“D” designation) with ASTM D 4956 Type XI retroreflective sheeting.

15
16 **(c)** Messages, arrows, and borders of guide signs and exit number
17 panels (“D” and “E” designations) with ASTM D 4956 Type XI
18 retroreflective sheeting.

19
20 **(d)** Regulatory and warning signs, directional signs (“DIR” designation),
21 route and auxiliary markers, shield symbols, yellow “EXIT ONLY” panels,
22 construction warning signs, and barricade rails, completely, with Type III,
23 IV, or IX retroreflective sheeting.

24
25 **(e)** Pedestrian, school, bicycle crossing series, completely with Type IX
26 fluorescent yellow green retroreflective sheeting.”

27
28
29 **(II)** Amend **Subsection 750.01(B) Backing** by replacing lines 72 through 73
30 to read:

31
32 “Aluminum sheet shall conform to ASTM B 209, alloy 5052-H38 or 6061-
33 T6 flat sheet.”

34
35 **(III)** Amend **Subsection 750.01(E) Retroreflective Sheeting Materials** by
36 replacing lines 1126 through 1137 to read:

37
38 **“(E) Retroreflective Sheeting Materials.** Retroreflective sheeting
39 includes white or colored sheeting having smooth outer surface.

40
41 Retroreflective sheeting shall be classified in accordance with ASTM D
42 4956.

43
44 The coefficient of retroreflection shall meet the minimum requirements of
45 ASTM D 4956 for the type of reflective sheeting specified.

47 The color shall conform to the latest appropriate standard color tolerance
48 chart issued by the U.S. Department of Transportation, Federal Highway
49 Administration and to the daytime and nighttime color requirements of ASTM D
50 4956.

51
52 Test methods and procedures shall be in accordance with ASTM.

53
54 **(IV)** Amend **Subsection 750.02 Sign Posts** by replacing lines 1168 through
55 1172 to read:

56
57 **“750.02 Square Tube Posts.** Square and other tube posts shall conform to
58 ASTM A 653 for cold-rolled, carbon steel sheet, commercial quality; or ASTM A
59 787 for electric-resistance-welded, metallic-coated carbon steel mechanical
60 tubing.”

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END OF SECTION 750

1 **SECTION 755 – PAVEMENT MARKING MATERIALS**

2
3 Make the following amendments to said Section:

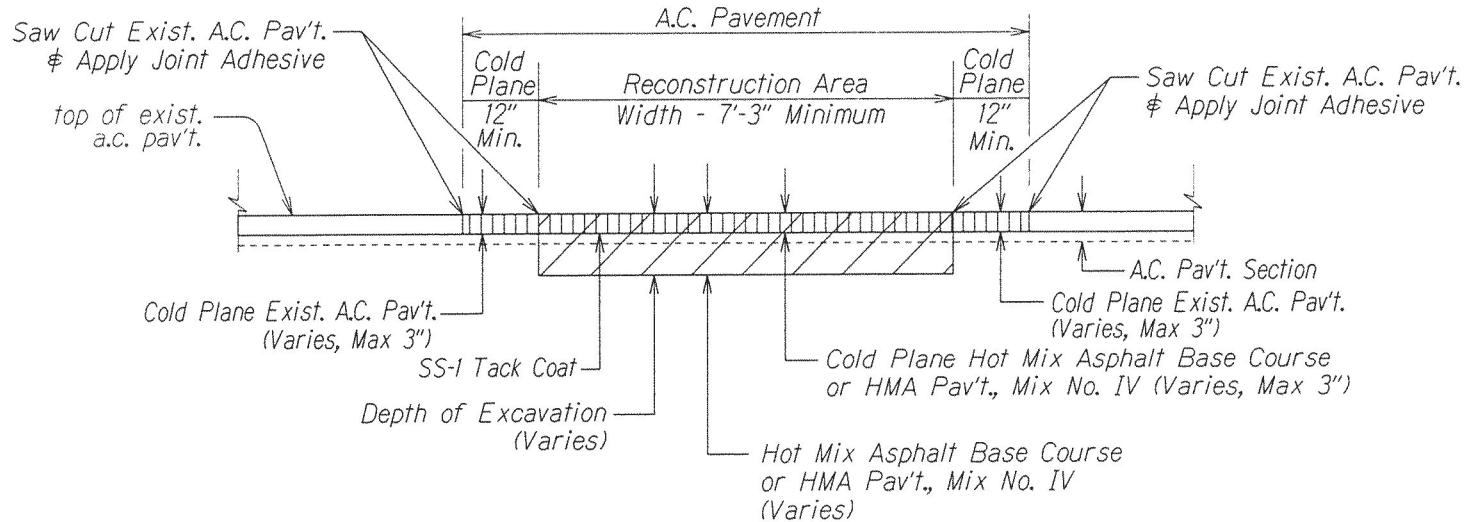
4
5 **(I) Amend Subsection 755.02 (C) Retroreflective Pavement Markers** by
6 revising lines 223 to 236 to read:

7
8 “Exterior surface of shell shall be smooth and contain one or two
9 retroreflective faces of specified color.”

10
11 **(II) Amend Subsection 755.05 (C)(1) Material Properties** by adding the
12 following after line 869:

13
14 **(f)** The glass spheres shall not contain more than 200 ppm (total)
15 arsenic, 200 ppm (total) antimony nor more than 200 ppm (total)
16 lead, when tested according to EPA Methods 3052 and 6010C.
17 Other suitable x-ray fluorescence spectrometry analysis methods
18 may be used to screen samples of glass spheres for arsenic and
19 lead content.”

20
21
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25
26
27 **END OF SECTION 755**



Note: Reconstruct weakened pavement areas prior to cold plane


TYPICAL PAVEMENT A.C. PAVEMENT RECONSTRUCTION DETAIL

Not to Scale

Note for Reconstruction

1. Reconstruct weakened pavement areas prior to cold plane
2. The exposed remaining base course or subbase materials should be properly compacted to dense and unyielding conditions prior to placement of the asphalt concrete base layer.
3. Hot Mix Asphalt Base Course for reconstruction is paid in two categories:
 - a. Up to 6" depth of excavation
 - b. Over 6" up to 12" depth of excavation
4. HMA Pav't. Mix No. IV for reconstruction is paid in two categories:
 - a. Up to 3" depth of excavation
 - b. Over 3" up to 6" depth of excavation

LEGEND:

Cold-Plane — 

Reconstruction — 

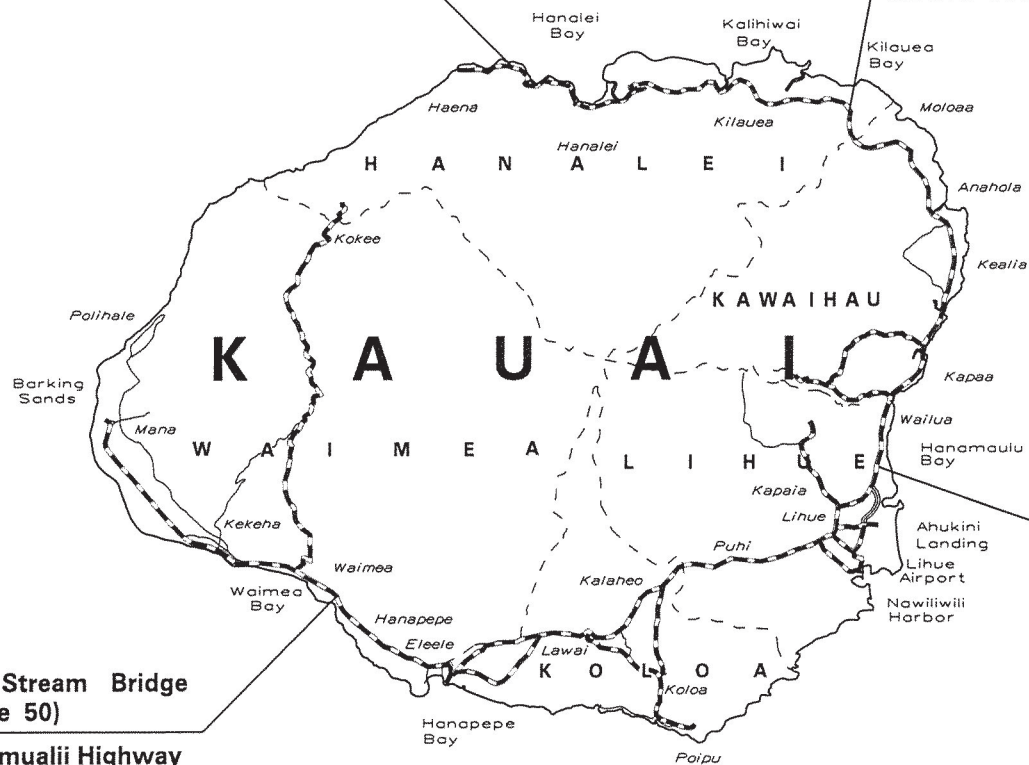
FIGURE 1
STP-0700(089)

Area 1 (Hanalei Bridge to End of Route 560)

ROUTE 560, Kuhio Highway

Area 2 (Hanalei Bridge to Kapaa Stream Bridge)

**ROUTE 56, Kuhio Highway
ROUTE 560, Kuhio Highway**



Area 4 (Huleia Stream Bridge to End of Route 50)

**ROUTE 50, Kaunualii Highway
ROUTE 540, Halewili Road
ROUTE 541, Waialo Road
ROUTE 550, Waimea Canyon Drive**

Area 3 (Kapaa Stream Bridge to Huleia Stream Bridge)

**ROUTE 50, Kaunualii Highway
ROUTE 51, Kapule Highway
ROUTE 56, Kuhio Highway
ROUTE 58, Nawiliwili Road
ROUTE 570 Ahukini Road
ROUTE 580, Kuamoo Road
ROUTE 583, Maalo Road
ROUTE 5600, Temp. Kapaa Bypass Road**



ISLAND OF KAUAI

Notes:

1. There are numerous side streets with or without route numbers along State highways where State Jurisdiction extends various distances into side streets.
2. This map does not show all Hawaii Department of Transportation Jurisdiction as stated in Section 110.03 - Area of Coverage.

Requirements of Chapter 104, HRS Wages and Hours of Employees on Public Works Law

Chapter 104, HRS, applies to every public works construction project over \$2,000, regardless of the method of procurement or financing (purchase order, voucher, bid, contract, lease arrangement, warranty, SPRB).

Rate of Wages for Laborers and Mechanics

- Minimum prevailing wages (basic hourly rate plus fringe benefits), as determined by the Director of Labor and Industrial Relations and published in wage rate schedules, shall be paid to the various classes of laborers and mechanics working on the job site. [§104-2(a), (b), Hawaii Revised Statutes (HRS)]
- If the Director of Labor determines that prevailing wages have increased during the performance of a public works contract, the rate of pay of laborers and mechanics shall be raised accordingly. [§104-2(a) and (b), HRS; §12-22-3(d) Hawaii Administrative Rules (HAR)]

Overtime

- Laborers and mechanics working on a Saturday, Sunday, or a legal holiday of the State or more than eight hours a day on any other day shall be paid overtime compensation at not less than one and one-half times the basic hourly rate plus the cost of fringe benefits for all hours worked. If the Director of Labor determines that a prevailing wage is defined by a collective bargaining agreement, the overtime compensation shall be at the rates set by the applicable collective bargaining agreement [§§104-1, 104-2(c), HRS; §12-22-4.1, HAR]

Weekly Pay

- Laborers and mechanics employed on the job site shall be paid their full wages at least once a week, without deduction or rebate, except for legal deductions, within five working days after the cutoff date. [§104-2(d), HRS]

Posting of Wage Rate Schedules

- Wage rate schedules with the notes for prevailing wages and special overtime rates, shall be posted by the contractor in a prominent and easily accessible place at the job site. A copy of the entire wage rate schedule shall be given to each laborer and mechanic employed under the contract, except when the employee is covered by a collective bargaining agreement. [§104-2(d), HRS]

Withholding of Accrued Payments

- If necessary, the contracting agency may withhold accrued payments to the contractor to pay to laborers and mechanics employed by the contractor or subcontractor on the job site any difference between the wages required by the public works contract or specifications and the wages received. [§104-2(e), HRS]

Certified Weekly Payrolls and Payroll Records

- A certified copy of all payrolls shall be submitted weekly to the contracting agency. [§104-3(a), HRS; §12-22-10, HAR]
- The contractor is responsible for the submission of certified copies of the payrolls of all subcontractors. The certification shall affirm that the payrolls are correct and complete, that the wage rates listed are not less than the applicable rates contained in the applicable wage rate schedule, and that the classifications for each laborer or mechanic conform with the work the laborer or mechanic performed. [§104-3(a), HRS; §12-22-10, HAR]
- Payroll records shall be maintained by the contractor and subcontractors for three years after completion of construction. The records shall contain: [§104-3(b), HRS; §12-22-10, HAR]
 - the name and home address of each employee
 - the last four digits of social security number
 - a copy of the apprentice's registration with DLIR
 - the employee's correct classification
 - rate of pay (basic hourly rate + fringe benefits)
 - itemized list of fringe benefits paid
 - daily and weekly hours worked
 - weekly straight time and overtime earnings
 - amount and type of deductions
 - total net wages paid
 - date of payment
- Records shall be made available for examination by the contracting agency, the Department of Labor and Industrial Relations (DLIR), or any of its authorized representatives, who may also interview employees during working hours on the job. [§§104-3(c), 104-22(a), HRS; §12-22-10, HAR]

Termination of Work on Failure to Pay Wages

- If the contracting agency finds that any laborer or mechanic employed on the job site by the contractor or any subcontractor has not been paid prevailing wages or overtime, the contracting agency may, by written notice to the contractor, terminate the contractor's or subcontractor's right to proceed with the work or with the part of the work in which the required wages or overtime compensation have not been paid. The contracting agency may complete this work by contract or otherwise, and the contractor or contractor's sureties shall be liable to the contracting agency for any excess costs incurred. [§104-4, HRS]

Apprentices

- Apprentice wage rates apply to contractors who are a party to a bona fide apprenticeship program which has been registered with the DLIR. In order to be paid apprentice rates, apprentices must be parties to an agreement either registered with or recognized as a USDOL nationally approved apprenticeship program by the DLIR, Workforce Development Division, (808) 586-8877, and the apprentice must be individually registered by name with the DLIR. [§12-22-6(1) and (2), HAR]
- The number of apprentices on any public work in relation to the number of journeyworkers in the same craft classification as the apprentices employed by the same employer on the same public work may not exceed the ratio allowed under the apprenticeship standards registered with or recognized by the DLIR. A registered or recognized apprentice receiving the journeyworker rate will not be considered a journeyworker for the purpose of meeting the ratio requirement. [§12-22-6(3), HAR]

Enforcement

- To ensure compliance with the law, DLIR and the contracting agency will conduct investigations of contractors and subcontractors. If a contractor or subcontractor violates the law, the penalties are: [§104-24, HRS]
 - First Violation Equal to 25% of back wages found due or \$250 per offense up to \$2,500, whichever is greater.
 - Second Violation Equal to amount of back wages found due or \$500 for each offense up to \$5,000, whichever is greater.
 - Third Violation Equal to two times the amount of back wages found due or \$1,000 for each offense up to \$10,000, whichever is greater; and
Suspension from doing any new work on any public work of a governmental contracting agency for three years.
- A violation would be deemed a second violation if it occurs within two years of the **first notification of violation**, and a third violation if it occurs within three years of **the second notification of violation**. [§104-24, HRS; §12-22-25(b), HAR]
- **Suspension:** For a first or second violation, the department shall immediately suspend a contractor who fails to pay wages or penalties until all wages and penalties are paid in full. For a third violation, the department shall penalize and suspend the contractor as described above, **except that if the contractor continues to violate the law, then the department shall immediately suspend the contractor for a mandatory three years. The contractor shall remain suspended until all wages and penalties are paid in full.** [§§104-24, 104-25, HRS]
- **Suspension:** Any contractor who fails to make payroll records accessible or provide requested information within 10 days, or fails to keep or falsifies any required record, shall be assessed a penalty including suspension as provided in Section 104-22(b) and 104-25(a)(3), HRS. [§104-3(c), HRS; §12-22-26, HAR]
- If any contractor interferes with or delays any investigation, the contracting agency shall withhold further payments until the delay has ceased. Interference or delay includes failure to provide requested records or information within ten days, failure to allow employees to be interviewed during working hours on the job, and falsification of payroll records. The department shall assess a penalty of \$10,000 per project, and \$1,000 per day thereafter, for interference or delay. [§104-22(b), HRS; §12-22-26, HAR]
- Failure by the contracting agency to include in the provisions of the contract or specifications the requirements of Chapter 104, HRS, relating to coverage and the payment of prevailing wages and overtime, is not a defense of the contractor or subcontractor for noncompliance with the requirements of this chapter. [§104-2(f), HRS]



For additional information, visit the department's website at <http://labor.hawaii.gov/vsd> or contact any of the following DLIR offices:

Oahu (Wage Standards Division).....(808) 586-8777
Hawaii Island(808) 974-6464
Maui and Kauai(808) 243-5322

"General Decision Number: HI20220001 10/14/2022

Superseded General Decision Number: HI20210001

State: Hawaii

Construction Types: Building, Heavy (Heavy and Dredging), Highway and Residential

Counties: Hawaii Statewide.

BUILDING CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories); HEAVY AND HIGHWAY CONSTRUCTION PROJECTS AND DREDGING

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	01/14/2022
2	02/18/2022
3	02/25/2022
4	03/04/2022
5	03/11/2022
6	03/18/2022
7	03/25/2022
8	04/15/2022
9	07/08/2022
10	08/19/2022
11	08/26/2022
12	09/02/2022
13	09/09/2022
14	09/30/2022
15	10/14/2022

ASBE0132-001 06/05/2022

	Rates	Fringes
Asbestos Workers/Insulator Includes application of all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems. Also the application of firestopping material for wall openings and penetrations in walls, floors, ceilings and curtain walls.....	\$ 42.80	25.85

BOIL0627-005 01/01/2021

	Rates	Fringes
BOILERMAKER.....	\$ 37.25	31.25

BRHI0001-001 08/30/2021

	Rates	Fringes
BRICKLAYER Bricklayers and Stonemasons.	\$ 46.46	30.43
Pointers, Caulkers and Weatherproofers.....	\$ 46.71	30.43

BRHI0001-002 08/30/2021

	Rates	Fringes
Tile, Marble & Terrazzo Worker Terrazzo Base Grinders.....	\$ 42.59	32.57
Terrazzo Floor Grinders and Tenders.....	\$ 41.04	32.57
Tile, Marble and Terrazzo Workers.....	\$ 44.40	32.57

CARP0745-001 10/01/2021

	Rates	Fringes
Carpenters:		
Carpenters; Hardwood Floor Layers; Patent Scaffold Erectors (14 ft. and over); Piledrivers; Pneumatic Nailers; Wood Shinglers and Transit and/or Layout Man.....	\$ 51.25	24.84
Millwrights and Machine Erectors.....	\$ 51.50	24.84
Power Saw Operators (2 h.p. and over).....	\$ 51.40	24.84

CARP0745-002 10/01/2021		

	Rates	Fringes
Drywall and Acoustical Workers and Lathers.....	\$ 51.50	24.84

ELEC1186-001 08/22/2022		

	Rates	Fringes
Electricians:		
Cable Splicers.....	\$ 60.51	30.90
Electricians.....	\$ 53.55	30.69
Telecommunication worker....	\$ 34.94	13.69

ELEC1186-002 08/22/2022		

	Rates	Fringes
Line Construction:		
Cable Splicers.....	\$ 60.51	30.90
Groundmen/Truck Drivers.....	\$ 40.16	25.34
Heavy Equipment Operators...	\$ 48.20	28.43
Linemen.....	\$ 53.55	30.69
Telecommunication worker....	\$ 34.94	13.69

ELEV0126-001 01/01/2022		

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 65.33	36.885+a+b
<p>a. VACATION: Employer contributes 8% of basic hourly rate for 5 years service and 6% of basic hourly rate for 6 months to 5 years service as vacation pay credit.</p> <p>b. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day and Christmas Day.</p>		

ENGI0003-002 09/03/2018		

	Rates	Fringes
Diver (Aqua Lung) (Scuba))		
Diver (Aqua Lung) (Scuba) (over a depth of 30 feet)...	\$ 66.00	31.26
Diver (Aqua Lung) (Scuba)		

(up to a depth of 30 feet)..	\$ 56.63	31.26
Stand-by Diver (Aqua Lung (Scuba).....	\$ 47.25	31.26
Diver (Other than Aqua Lung) Diver (Other than Aqua Lung).....	\$ 66.00	31.26
Diver Tender (Other than Aqua Lung).....	\$ 44.22	31.26
Stand-by Diver (Other than Aqua Lung).....	\$ 47.25	31.26
Helicopter Work Airborne Hoist Operator for Helicopter.....	\$ 45.80	31.26
Co-Pilot of Helicopter.....	\$ 45.98	31.26
Pilot of Helicopter.....	\$ 46.11	31.26
Power equipment operator - tunnel work		
GROUP 1.....	\$ 42.24	31.26
GROUP 2.....	\$ 42.35	31.26
GROUP 3.....	\$ 42.52	31.26
GROUP 4.....	\$ 42.79	31.26
GROUP 5.....	\$ 43.10	31.26
GROUP 6.....	\$ 43.75	31.26
GROUP 7.....	\$ 44.07	31.26
GROUP 8.....	\$ 44.18	31.26
GROUP 9.....	\$ 44.29	31.26
GROUP 9A.....	\$ 44.52	31.26
GROUP 10.....	\$ 44.58	31.26
GROUP 10A.....	\$ 44.73	31.26
GROUP 11.....	\$ 44.88	31.26
GROUP 12.....	\$ 45.24	31.26
GROUP 12A.....	\$ 45.60	31.26
Power equipment operators:		
GROUP 1.....	\$ 41.94	31.26
GROUP 2.....	\$ 42.05	31.26
GROUP 3.....	\$ 42.22	31.26
GROUP 4.....	\$ 42.49	31.26
GROUP 5.....	\$ 42.80	31.26
GROUP 6.....	\$ 43.45	31.26
GROUP 7.....	\$ 43.77	31.26
GROUP 8.....	\$ 43.88	31.26
GROUP 9.....	\$ 43.99	31.26
GROUP 9A.....	\$ 44.22	31.26
GROUP 10.....	\$ 44.28	31.26
GROUP 10A.....	\$ 44.43	31.26
GROUP 11.....	\$ 44.58	31.26
GROUP 12.....	\$ 44.94	31.26
GROUP 12A.....	\$ 45.30	31.26
GROUP 13.....	\$ 42.22	31.26
GROUP 13A.....	\$ 42.49	31.26
GROUP 13B.....	\$ 42.80	31.26
GROUP 13C.....	\$ 43.45	31.26
GROUP 13D.....	\$ 43.77	31.26
GROUP 13E.....	\$ 43.88	31.26

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Fork Lift (up to and including 10 tons); Partsman (heavy duty repair shop parts room when needed).

GROUP 2: Conveyor Operator (Handling building material); Hydraulic Monitor; Mixer Box Operator (Concrete Plant).

GROUP 3: Brakeman; Deckhand; Fireman; Oiler; Oiler/Gradechecker; Signalman; Switchman; Highline Cableway

Signalman; Bargeman; Bunkerman; Concrete Curing Machine (self-propelled, automatically applied unit on streets, highways, airports and canals); Leveeman; Roller (5 tons and under); Tugger Hoist.

GROUP 4: Boom Truck or dual purpose "A" Frame Truck (5 tons or less); Concrete Placing Boom (Building Construction); Dinky Operator; Elevator Operator; Hoist and/or Winch (one drum); Straddle Truck (Ross Carrier, Hyster and similar).

GROUP 5: Asphalt Plant Fireman; Compressors, Pumps, Generators and Welding Machines ("Bank" of 9 or more, individually or collectively); Concrete Pumps or Pumpcrete Guns; Lubrication and Service Engineer (Grease Rack); Screedman.

GROUP 6: Boom Truck or Dual Purpose "A" Frame Truck (over 5 tons); Combination Loader/Backhoe (up to and including 3/4 cu. yd.); Concrete Batch Plants (wet or dry); Concrete Cutter, Groover and/or Grinder (self-propelled unit on streets, highways, airports, and canals); Conveyor or Concrete Pump (Truck or Equipment Mounted); Drilling Machinery (not to apply to waterliners, wagon drills or jack hammers); Fork Lift (over 10 tons); Loader (up to and including 3 and 1/2 cu. yds); Lull High Lift (under 40 feet); Lubrication and Service Engineer (Mobile); Maginnis Internal Full Slab Vibrator (on airports, highways, canals and warehouses); Man or Material Hoist; Mechanical Concrete Finisher (Large Clary, Johnson Bidwell, Bridge Deck and similar); Mobile Truck Crane Driver; Portable Shotblast Concrete Cleaning Machine; Portable Boring Machine (under streets, highways, etc.); Portable Crusher; Power Jumbo Operator (setting slip forms, etc., in tunnels); Rollers (over 5 tons); Self-propelled Compactor (single engine); Self-propelled Pavement Breaker; Skidsteer Loader with attachments; Slip Form Pumps (Power driven by hydraulic, electric, air, gas, etc., lifting device for concrete forms); Small Rubber Tired Tractors; Trencher (up to and including 6 feet); Underbridge Personnel Aerial Platform (50 feet of platform or less).

GROUP 7: Crusher Plant Engineer, Dozer (D-4, Case 450, John Deere 450, and similar); Dual Drum Mixer, Extend Lift; Hoist and/or Winch (2 drums); Loader (over 3 and 1/2 cu. yds. up to and including 6 yards.); Mechanical Finisher or Spreader Machine (asphalt), (Barber Greene and similar) (Screedman required); Mine or Shaft Hoist; Mobile Concrete Mixer (over 5 tons); Pipe Bending Machine (pipelines only); Pipe Cleaning Machine (tractor propelled and supported); Pipe Wrapping Machine (tractor propelled and supported); Roller Operator (Asphalt); Self-Propelled Elevating Grade Plane; Slusher Operator; Tractor (with boom) (D-6, or similar); Trencher (over 6 feet and less than 200 h.p.); Water Tanker (pulled by Euclids, T-Pulls, DW-10, 20 or 21, or similar); Winchman (Stern Winch on Dredge).

GROUP 8: Asphalt Plant Operator; Barge Mate (Seagoing); Cast-in-Place Pipe Laying Machine; Concrete Batch Plant (multiple units); Conveyor Operator (tunnel); Deckmate; Dozer (D-6 and similar); Finishing Machine Operator (airports and highways); Gradesetter; Kolman Loader (and similar); Mucking Machine (Crawler-type); Mucking Machine (Conveyor-type); No-Joint Pipe Laying Machine; Portable Crushing and Screening Plant; Power Blade Operator (under 12); Saurman Type Dragline (up to and including 5 yds.);

Stationary Pipe Wrapping, Cleaning and Bending Machine; Surface Heater and Planer Operator, Tractor (D-6 and similar); Tri-Batch Paver; Tunnel Badger; Tunnel Mole and/or Boring Machine Operator Underbridge Personnel Aerial Platform (over 50 feet of platform).

GROUP 9: Combination Mixer and Compressor (gunite); Do-Mor Loader and Adams Elegrader; Dozer (D-7 or equal); Wheel and/or Ladder Trencher (over 6 feet and 200 to 749 h.p.).

GROUP 9A: Dozer (D-8 and similar); Gradesetter (when required by the Contractor to work from drawings, plans or specifications without the direct supervision of a foreman or superintendent); Push Cat; Scrapers (up to and including 20 cu. yds); Self-propelled Compactor with Dozer; Self-Propelled, Rubber-Tired Earthmoving Equipment (up to and including 20 cu. yds) (621 Band and similar); Sheep's Foot; Tractor (D-8 and similar); Tractors with boom (larger than D-6, and similar).

GROUP 10: Chicago Boom; Cold Planers; Heavy Duty Repairman or Welder; Hoist and/or Winch (3 drums); Hydraulic Skooper (Koehring and similar); Loader (over 6 cu. yds. up to and including 12 cu. yds.); Saurman type Dragline (over 5 cu. yds.); Self-propelled, rubber-tired Earthmoving Equipment (over 20 cu. yds. up to and including 31 cu. yds.) (637D and similar); Soil Stabilizer (P & H or equal); Sub-Grader (Gurries or other automatic type); Tractors (D-9 or equivalent, all attachments); Tractor (Tandem Scraper); Watch Engineer.

GROUP 10A: Boat Operator; Cable-operated Crawler Crane (up to and including 25 tons); Cable-operated Power Shovel, Clamshell, Dragline and Backhoe (up to and including 1 cu. yd.); Dozer D9-L; Dozer (D-10, HD41 and similar) (all attachments); Gradall (up to and including 1 cu. yd.); Hydraulic Backhoe (over 3/4 cu. yds. up to and including 2 cu. yds.); Mobile Truck Crane Operator (up to and including 25 tons) (Mobile Truck Crane Driver Required); Self-propelled Boom Type Lifting Device (Center Mount) (up to and including 25 tons) (Grove, Drott, P&H, Pettibone and similar); Trencher (over 6 feet and 750 h.p. or more); Watch Engineer (steam or electric).

GROUP 11: Automatic Slip Form Paver (concrete or asphalt); Band Wagon (in conjunction with Wheel Excavator); Cable-operated Crawler Cranes (over 25 tons but less than 50 tons); Cable-operated Power Shovel, Clamshell, Dragline and Backhoe (over 1 cu. yd. up to 7 cu. yds.); Gradall (over 1 cu. yds. up to 7 cu. yds.); DW-10, 20, etc. (Tandem); Earthmoving Machines (multiple propulsion power units and 2 or more Scrapers) (up to and including 35 cu. yds., "" struck"" m.r.c.); Highline Cableway; Hydraulic Backhoe (over 2 cu. yds. up to and including 4 cu. yds.); Leverman; Lift Slab Machine; Loader (over 12 cu. yds); Master Boat Operator; Mobile Truck Crane Operator (over 25 tons but less than 50 tons); (Mobile Truck Crane Driver required); Pre-stress Wire Wrapping Machine; Self-propelled Boom-type Lifting Device (Center Mount) (over 25 tons m.r.c); Self-propelled Compactor (with multiple-propulsion power units); Single Engine Rubber Tired Earthmoving Machine (with Tandem Scraper); Tandem Cats; Trencher (pulling attached shield).

GROUP 12: Clamshell or Dipper Operator; Derricks; Drill Rigs;

Multi-Propulsion Earthmoving Machines (2 or more Scrapers) (over 35 cu. yds. "struck" m.r.c.); Operators (Derricks, Piledrivers and Cranes); Power Shovels and Draglines (7 cu. yds. m.r.c. and over); Self-propelled rubber-tired Earthmoving equipment (over 31 cu. yds.) (657B and similar); Wheel Excavator (up to and including 750 cu. yds. per hour); Wheel Excavator (over 750 cu. yds. per hour).

GROUP 12A: Dozer (D-11 or similar or larger); Hydraulic Excavators (over 4 cu. yds.); Lifting cranes (50 tons and over); Pioneering Dozer/Backhoe (initial clearing and excavation for the purpose of providing access for other equipment where the terrain worked involves 1-to-1 slopes that are 50 feet in height or depth, the scope of this work does not include normal clearing and grubbing on usual hilly terrain nor the excavation work once the access is provided); Power Blade Operator (Cat 12 or equivalent or over); Straddle Lifts (over 50 tons); Tower Crane, Mobile; Traveling Truss Cranes; Universal, Liebherr, Linden, and similar types of Tower Cranes (in the erection, dismantling, and moving of equipment there shall be an additional Operating Engineer or Heavy Duty Repairman); Yo-Yo Cat or Dozer.

GROUP 13: Truck Driver (Utility, Flatbed, etc.)

GROUP 13A: Dump Truck, 8 cu.yds. and under (water level); Water Truck (up to and including 2,000 gallons).

GROUP 13B: Water Truck (over 2,000 gallons); Tandem Dump Truck, over 8 cu. yds. (water level).

GROUP 13C: Truck Driver (Semi-trailer. Rock Cans, Semi-Dump or Roll-Offs).

GROUP 13D: Truck Driver (Slip-In or Pup).

GROUP 13E: End Dumps, Unlicensed (Euclid, Mack, Caterpillar or similar); Tractor Trailer (Hauling Equipment); Tandem Trucks hooked up to Trailer (Hauling Equipment)

BOOMS AND/OR LEADS (HOURLY PREMIUMS):

The Operator of a crane (under 50 tons) with a boom of 80 feet or more (including jib), or of a crane (under 50 tons) with leads of 100 feet or more, shall receive a per hour premium for each hour worked on said crane (under 50 tons) in accordance with the following schedule:

Booms of 80 feet up to but not including 130 feet or Leads of 100 feet up to but not including 130 feet	0.50
Booms and/or Leads of 130 feet up to but not including 180 feet	0.75
Booms and/or Leads of 180 feet up to and including 250 feet	1.15
Booms and/or Leads over 250 feet	1.50

The Operator of a crane (50 tons and over) with a boom of 180 feet or more (including jib) shall receive a per hour premium for each hour worked on said crane (50 tons and over) in accordance with the following schedule:

Booms of 180 feet up to and including 250 feet	1.25
Booms over 250 feet	1.75

ENGI0003-004 09/04/2017

	Rates	Fringes
Dredging: (Boat Operators)		
Boat Deckhand.....	\$ 41.22	30.93
Boat Operator.....	\$ 43.43	30.93
Master Boat Operator.....	\$ 43.58	30.93
Dredging: (Clamshell or Dipper Dredging)		
GROUP 1.....	\$ 43.94	30.93
GROUP 2.....	\$ 43.28	30.93
GROUP 3.....	\$ 42.88	30.93
GROUP 4.....	\$ 41.22	30.93
Dredging: (Derricks)		
GROUP 1.....	\$ 43.94	30.93
GROUP 2.....	\$ 43.28	30.93
GROUP 3.....	\$ 42.88	30.93
GROUP 4.....	\$ 41.22	30.93
Dredging: (Hydraulic Suction Dredges)		
GROUP 1.....	\$ 43.58	30.93
GROUP 2.....	\$ 43.43	30.93
GROUP 3.....	\$ 43.28	30.93
GROUP 4.....	\$ 43.22	30.93
GROUP 5.....	\$ 37.88	26.76
Group 5.....	\$ 42.88	30.93
GROUP 6.....	\$ 37.77	26.76
Group 6.....	\$ 42.77	30.93
GROUP 7.....	\$ 36.22	26.76
Group 7.....	\$ 41.22	30.93

CLAMSHELL OR DIPPER DREDGING CLASSIFICATIONS

- GROUP 1: Clamshell or Dipper Operator.
- GROUP 2: Mechanic or Welder; Watch Engineer.
- GROUP 3: Barge Mate; Deckmate.
- GROUP 4: Bargeman; Deckhand; Fireman; Oiler.

HYDRAULIC SUCTION DREDGING CLASSIFICATIONS

- GROUP 1: Leverman.
- GROUP 2: Watch Engineer (steam or electric).
- GROUP 3: Mechanic or Welder.
- GROUP 4: Dozer Operator.
- GROUP 5: Deckmate.
- GROUP 6: Winchman (Stern Winch on Dredge)
- GROUP 7: Deckhand (can operate anchor scow under direction of Deckmate); Fireman; Leveeman; Oiler.

DERRICK CLASSIFICATIONS

- GROUP 1: Operators (Derricks, Piledrivers and Cranes).
- GROUP 2: Saurman Type Dragline (over 5 cubic yards).
- GROUP 3: Deckmate; Saurman Type Dragline (up to and including 5 yards).
- GROUP 4: Deckhand, Fireman, Oiler.

ENGI0003-044 09/03/2018

	Rates	Fringes
Power Equipment Operators (PAVING)		
Asphalt Concrete Material Transfer.....	\$ 42.92	32.08
Asphalt Plant Operator.....	\$ 43.35	32.08
Asphalt Raker.....	\$ 41.96	32.08
Asphalt Spreader Operator...\$	43.44	32.08
Cold Planer.....	\$ 43.75	32.08
Combination Loader/Backhoe (over 3/4 cu.yd.).....	\$ 41.96	32.08
Combination Loader/Backhoe (up to 3/4 cu.yd.).....	\$ 40.98	32.08
Concrete Saws and/or Grinder (self-propelled unit on streets, highways, airports and canals).....	\$ 42.92	32.08
Grader.....	\$ 43.75	32.08
Laborer, Hand Roller.....	\$ 41.46	32.08
Loader (2 1/2 cu. yds. and under).....	\$ 42.92	32.08
Loader (over 2 1/2 cu. yds. to and including 5 cu. yds.).....	\$ 43.24	32.08
Roller Operator (five tons and under).....	\$ 41.69	32.08
Roller Operator (over five tons).....	\$ 43.12	32.08
Screed Person.....	\$ 42.92	32.08
Soil Stabilizer.....	\$ 43.75	32.08

* IRON0625-001 09/01/2022

	Rates	Fringes
Ironworkers:.....	\$ 45.00	39.00
a. Employees will be paid \$.50 per hour more while working in tunnels and coffer dams; \$1.00 per hour more when required to work under or are covered with water (submerged) and when they are required to work on the summit of Mauna Kea, Mauna Loa or Haleakala.		

LAB00368-001 09/05/2022

	Rates	Fringes
Laborers:		
Driller.....	\$ 41.00	24.25
Final Clean Up.....	\$ 30.45	19.57
Gunite/Shotcrete Operator and High Scaler.....	\$ 40.50	24.25
Laborer I.....	\$ 40.00	24.25
Laborer II.....	\$ 37.40	24.25
Mason Tender/Hod Carrier...\$	40.50	24.25
Powderman.....	\$ 41.00	24.25
Window Washer (bosun chair).\$	39.50	24.25

LABORERS CLASSIFICATIONS

Laborer I: Air Blasting run by electric or pneumatic
compressor; Asphalt Laborer, Ironer, Raker, Luteman, and
Handroller, and all types of Asphalt Spreader Boxes;
Asphalt Shoveler; Assembly and Installation of Multiplates,

Liner Plates, Rings, Mesh, Mats; Batching Plant (portable and temporary); Boring Machine Operator (under streets and sidewalks); Buggymobile; Burning and Welding; Chainsaw, Faller, Logloader, and Bucker; Compactors (Jackson Jumping Jack and similar); Concrete Bucket Dumpman; Concrete Chipping; Concrete Chuteman/Hoseman (pouring concrete) (the handling of the chute from ready-mix trucks for such jobs as walls, slabs, decks, floors, foundations, footings, curbs, gutters, and sidewalks); Concrete Core Cutter (Walls, Floors, and Ceiling); Concrete Grinding or Sanding; Concrete: Hooking on, signaling, dumping of concrete for tremie work over water on caissons, pilings, abutments, etc.; Concrete: Mixing, handling, conveying, pouring, vibrating, otherwise placing of concrete or aggregates or by any other process; Concrete: Operation of motorized wheelbarrows or buggies or machines of similar character, whether run by gas, diesel, or electric power; Concrete Placement Machine Operator: operation of Somero Hammerhead, Copperheads, or similar machines; Concrete Pump Machine (laying, coupling, uncoupling of all connections and cleaning of equipment); Concrete and/or Asphalt Saw (Walking or Handtype) (cutting walls or flatwork) (scoring old or new concrete and/or asphalt) (cutting for expansion joints) (streets and ways for laying of pipe, cable or conduit for all purposes); Concrete Shovelers/Laborers (Wet or Dry); Concrete Screeding for Rough Strike-Off: Rodding or striking-off, by hand or mechanical means prior to finishing; Concrete Vibrator Operator; Coring Holes: Walls, footings, piers or other obstructions for passage of pipes or conduits for any purpose and the pouring of concrete to secure the hole; Cribbers, Shorer, Lagging, Sheeting, and Trench Jacking and Bracing, Hand-Guided Lagging Hammer Whaling Bracing; Curbing (Concrete and Asphalt); Curing of Concrete (impervious membrane and form oiler) mortar and other materials by any mode or method; Cut Granite Curb Setter (setting, leveling and grouting of all precast concrete or stone curbs); Cutting and Burning Torch (demolition); Dri Pak-It Machine; Environmental Abatement: removal of asbestos, lead, and bio hazardous materials (EPA and/or OSHA certified); Falling, bucking, yarding, loading or burning of all trees or timber on construction site; Forklift (9 ft. and under); Gas, Pneumatic, and Electric tools; Grating and Grill work for drains or other purposes; Green Cutter of concrete or aggregate in any form, by hand, mechanical means, grindstone or air and/or water; Grout: Spreading for any purpose; Guinea Chaser (Grade Checker) for general utility trenches, sitework, and excavation; Headerboard Man (Asphalt or Concrete); Heat Welder of Plastic (Laborers' AGC certified workers) (when work involves waterproofing for waterponds, artificial lakes and reservoir) heat welding for sewer pipes and fusion of HDPE pipes; Heavy Highway Laborer (Rigging, signaling, handling, and installation of pre-cast catch basins, manholes, curbs and gutters); High Pressure Nozzleman - Hydraulic Monitor (over 100# pressure); Jackhammer Operator; Jacking of slip forms: All semi and unskilled work connected therewithin; Laying of all multi-cell conduit or multi-purpose pipe; Magnesite and Mastic Workers (Wet or Dry)(including mixer operator);Mortar Man; Mortar Mixer (Block, Brick, Masonry, and Plastering); Nozzleman (Sandblasting and/or Water Blasting): handling, placing and operation of nozzle; Operation, Manual or Hydraulic jacking of shields and the use of such other mechanical equipment as may be necessary; Pavement Breakers; Paving, curbing and surfacing of streets, ways, courts, under and overpasses, bridges,

approaches, slope walls, and all other labor connected therewith; Pilecutters; Pipe Accessment in place, bolting and lining up of sectional metal or other pipe including corrugated pipe; Pipelayer performing all services in the laying and installation of pipe from the point of receiving pipe in the ditch until completion of operation, including any and all forms of tubular material, whether pipe, HDPE, metallic or non-metallic, conduit, and any other stationary-type of tubular device used for conveying of any substance or element, whether water, sewage, solid, gas, air, or other product whatsoever and without regard to the nature of material from which tubular material is fabricated; No-joint pipe and stripping of same, Pipewrapper, Caulker, Bander, Kettleman, and men applying asphalt, Laykold, treating Creosote and similar-type materials (6-inch) pipe and over); Piping: resurfacing and paving of all ditches in preparation for laying of all pipes; Pipe laying of lateral sewer pipe from main or side sewer to buildings or structure (except Contactor may direct work be done under proper supervision); Pipe laying, leveling and marking of the joint used for main or side sewers and storm sewers; Laying of all clay, terra cotta, ironstone, vitrified concrete, HDPE or other pipe for drainage; Placing and setting of water mains, gas mains and all pipe including removal of skids; Plaster Mortar Mixer/Pump; Pneumatic Impact Wrench; Portable Sawmill Operation: Choker setters, off bearers, and lumber handlers connected with clearing; Posthole Digger (Hand Held, Gas, Air and Electric); Powderman's Tender; Power Broom Sweepers (Small); Preparation and Compaction of roadbeds for railroad track laying, highway construction, and the preparation of trenches, footings, etc., for cross-country transmission by pipelines, electrical transmission or underground lines or cables (by mechanical means); Raising of structure by manual or hydraulic jacks or other methods and resetting of structure in new locations, including all concrete work; Ramming or compaction; Rigging in connection with Laborers' work (except demolition), Signaling (including the use of walkie talkie) Choke Setting, tag line usage; Tagging and Signaling of building materials into high rise units; Riprap, Stonepaver, and Rock Slinger (includes placement of stacked concrete, wet or dry and loading, unloading, signaling, slinging and setting of other similar materials); Rotary Scarifier (including multiple head concrete chipping Scarifier); Salamander Heater, Drying of plaster, concrete mortar or other aggregate; Scaffold Erector Leadman; Scaffolds: (Swing and hanging) including maintenance thereof; Scaler; Septic Tank/Cesspool and Drain Fields Digger and Installer; Shredder/Chipper (tree branches, brush, etc.); Stripping and Setting Forms; Stripping of Forms: Other than panel forms which are to be re-used in their original form, and stripping of forms on all flat arch work; Tampers (Barko, Wacker, and similar type); Tank Scaler and Cleaners; Tarman; Tree Climbers and Trimmers; Trencher (includes hand-held, Davis T-66 and similar type); Trucks (flatbed up to and including 2 1/2 tons when used in connection with on-site Laborers' work; Trucks (Refuse and Garbage Disposal) (from job site to dump); Vibra-Screed (Bull Float in connection with Laborers' work); Well Points, Installation of or any other dewatering system.

Laborer II: Asphalt Plant Laborer; Boring Machine Tender; Bridge Laborer; Burning of all debris (crates, boxes, packaging waste materials); Chainman, Rodmen, and Grade

Markers; Cleaning, clearing, grading and/or removal for streets, highways, roadways, aprons, runways, sidewalks, parking areas, airports, approaches, and other similar installations; Cleaning or reconditioning of streets, ways, sewers and waterlines, all maintenance work and work of an unskilled and semi-skilled nature; Concrete Bucket Tender (Groundman) hooking and unhooking of bucket; Concrete Forms; moving, cleaning, oiling and carrying to the next point of erection of all forms; Concrete Products Plant Laborers; Conveyor Tender (conveying of building materials); Crushed Stone Yards and Gravel and Sand Pit Laborers and all other similar plants; Demolition, Wrecking and Salvage Laborers: Wrecking and dismantling of buildings and all structures, with use of cutting or wrecking tools, breaking away, cleaning and removal of all fixtures, All hooking, unhooking, signaling of materials for salvage or scrap removed by crane or derrick; Digging under streets, roadways, aprons or other paved surfaces; Driller's Tender; Chuck Tender, Outside Nipper; Dry-packing of concrete (plugging and filling of she-bolt holes); Fence and/or Guardrail Erector: Dismantling and/or re-installation of all fence; Finegrader; Firewatcher; Flagman (Coning, preparing, stablishing and removing portable roadway barricade devices); Signal Men on all construction work defined herein, including Traffic Control Signal Men at construction site; General Excavation; Backfilling, Grading and all other labor connected therewith; Digging of trenches, ditches and manholes and the leveling, grading and other preparation prior to laying pipe or conduit for any purpose; Excavations and foundations for buildings, piers, foundations and holes, and all other construction. Preparation of street ways and bridges; General Laborer: Cleaning and Clearing of all debris and surplus material. Clean-up of right-of-way. Clearing and slashing of brush or trees by hand or mechanical cutting. General Clean up: sweeping, cleaning, wash-down, wiping of construction facility and equipment (other than "Light Clean up (Janitorial) Laborer. Garbage and Debris Handlers and Cleaners. Appliance Handling (job site) (after delivery unloading in storage area); Ground and Soil Treatment Work (Pest Control); Gunite/Shotcrete Operator Tender; Junk Yard Laborers (same as Salvage Yard); Laser Beam "Target Man" in connection with Laborers' work; Layout Person for Plastic (when work involves waterproofing for waterponds, artificial lakes and reservoirs); Limbers, Brush Loaders, and Pilers; Loading, Unloading, carrying, distributing and handling of all rods and material for use in reinforcing concrete construction (except when a derrick or outrigger operated by other than hand power is used); Loading, unloading, sorting, stockpiling, handling and distribution of water mains, gas mains and all pipes; Loading and unloading of all materials, fixtures, furnishings and appliances from point of delivery to stockpile to point of installation; hooking and signaling from truck, conveyance or stockpile; Material Yard Laborers; Pipelayer Tender; Pipewrapper, Caulker, Bander, Kettlemen, and men applying asphalt, Laykold, Creosote, and similar-type materials (pipe under 6 inches); Plasterer Laborer; Preparation, construction and maintenance of roadbeds and sub-grade for all paving, including excavation, dumping, and spreading of sub-grade material; Prestressed or precast concrete slabs, walls, or sections: all loading, unloading, stockpiling, hooking on of such slabs, walls or sections; Quarry Laborers; Railroad, Streetcar, and Rail Transit Maintenance and Repair; Roustabout; Rubbish Trucks in connection with

Building Construction Projects (excluding clearing, grubbing, and excavating); Salvage Yard: All work connected with cutting, cleaning, storing, stockpiling or handling of materials, all cleanup, removal of debris, burning, back-filling and landscaping of the site; Sandblasting Tender (Pot Tender): Hoses and pots or markers; Scaffolds: Erection, planking and removal of all scaffolds used for support for lathers, plasters, brick layers, masons, and other construction trades crafts; Scaffolds: (Specially designed by carpenters) laborers shall tend said carpenter on erection and dismantling thereof, preparation for foundation or mudsills, maintenance; Scraping of floors; Screeds: Handling of all screeds to be reused; handling, dismantling and conveyance of screeds; Setting, leveling and securing or bracing of metal or other road forms and expansion joints; Sheeting Piling/trench shoring (handling and placing of skip sheet or wood plank trench shoring); Ship Scalers; Shipwright Tender; Sign Erector (subdivision traffic, regulatory, and street-name signs); Sloper; Slurry Seal Crews (Mixer Operator, Applicator, Squeegee Man, Shuttle Man, Top Man); Snapping of wall ties and removal of tie rods; Soil Test operations of semi and unskilled labor such as filling sand bags; Striper (Asphalt, Concrete or other Paved Surfaces); Tool Room Attendant (Job Site); Traffic Delineating Device Applicator; Underpinning, lagging, bracing, propping and shoring, loading, signaling, right-of-way clearance along the route of movement, The clearance of new site, excavation of foundation when moving a house or structure from old site to new site; Utilities employees; Water Man; Waterscape/Hardscape Laborers; Wire Mesh Pulling (all concrete pouring operations); Wrecking, stripping, dismantling and handling concrete forms an false work.

 LAB00368-002 09/05/2022

	Rates	Fringes
Landscape & Irrigation		
Laborers		
GROUP 1.....	\$ 27.25	15.80
GROUP 2.....	\$ 28.25	15.80
GROUP 3.....	\$ 22.15	15.80

LABORERS CLASSIFICATIONS

GROUP 1: Installation of non-potable permanent or temporary irrigation water systems performed for the purposes of Landscaping and Irrigation architectural horticultural work; the installation of drinking fountains and permanent or temporary irrigation systems using potable water for Landscaping and Irrigation architectural horticultural purposes only. This work includes (a) the installation of all heads, risers, valves, valve boxes, vacuum breakers (pressure and non-pressure), low voltage electrical lines and, provided such work involves electrical wiring that will carry 24 volts or less, the installation of sensors, master control panels, display boards, junction boxes, conductors, including all other components for controllers, (b) and metallic (copper, brass, galvanized, or similar) pipe, as well as PVC or other plastic pipe including all work incidental thereto, i.e., unloading, handling and distribution of all pipes fittings, tools, materials and equipment, (c) all soldering work in connection with the

above whether done by torch, soldering iron, or other means; (d) tie-in to main lines, thrust blocks (both precast and poured in place), pipe hangers and supports incidental to installation of the entire irrigation system, (e) making of pressure tests, start-up testing, flushing, purging, water balancing, placing into operation all irrigation equipment, fixtures and appurtenances installed under this agreement, and (f) the fabrication, replacement, repair and servicing of landscaping and irrigation systems. Operation of hand-held gas, air, electric, or self-powered tools and equipment used in the performance of Landscape and Irrigation work in connection with architectural horticulture; Choke-setting, signaling, and rigging for equipment operators on job-site in the performance of such Landscaping and Irrigation work; Concrete work (wet or dry) performed in connection with such Landscaping and Irrigation work. This work shall also include the setting of rock, stone, or riprap in connection with such Landscape, Waterscape, Rockscape, and Irrigation work; Grubbing, pick and shovel excavation, and hand rolling or tamping in connection with the performance of such Landscaping and Irrigation work; Sprigging, handseeding, and planting of trees, shrubs, ground covers, and other plantings and the performance of all types of gardening and horticultural work relating to said planting; Operation of flat bed trucks (up to and including 2 1/2 tons):.

GROUP 2. Layout of irrigation and other non-potable irrigation water systems and the layout of drinking fountains and other potable irrigation water systems in connection with such Landscaping and Irrigation work. This includes the layout of all heads, risers, valves, valve boxes, vacuum breakers, low voltage electrical lines, hydraulic and electrical controllers, and metallic (coppers, brass, galvanized, or similar) pipe, as well as PVC or other plastic pipe. This work also includes the reading and interpretation of plans and specifications in connection with the layout of Landscaping, Rockscape, Waterscape, and Irrigation work; Operation of Hydro-Mulching machines (sprayman and driver), Drillers, Trenchers (riding type, Davis T-66, and similar) and fork lifts used in connection with the performance of such Landscaping and Irrigation work; Tree climbers and chain saw tree trimmers, Sporadic operation (when used in connection with Landscaping, Rockscape, Waterscape, and Irrigation work) of Skid-Steer Loaders (Bobcat and similar), Cranes (Bantam, Grove, and similar), Hoptos, Backhoes, Loaders, Rollers, and Dozers (Case, John Deere, and similar), Water Trucks, Trucks requiring a State of Hawaii Public Utilities Commission Type 5 and/or type 7 license, sit-down type and "gang" mowers, and other self-propelled, sit-down operated machines not listed under Landscape & Irrigation Maintenance Laborer; Chemical spraying using self-propelled power spraying equipment (200 gallon capacity or more).

GROUP 3: Maintenance of trees, shrubs, ground covers, lawns and other planted areas, including the replanting of trees, shrubs, ground covers, and other plantings that did not "take" or which are damaged; provided, however, that re-planting that requires the use of equipment, machinery, or power tools shall be paid for at the rate of pay specified under Landscape and Irrigation Laborer, Group 1; Raking, mowing, trimming, and runing, including the use of "weed eaters", hedge trimmers, vacuums, blowers, and other

hand-held gas, air, electric, or self-powered tools, and the operation of lawn mowers (Note: The operation of sit-down type and "gang" mowers shall be paid for at the rate of pay specified under Landscape & Irrigation Laborer, Group 2); Guywiring, staking, propping, and supporting trees; Fertilizing, Chemical spraying using spray equipment with less than 200 gallon capacity, Maintaining irrigation and sprinkler systems, including the staking, clamping, and adjustment of risers, and the adjustment and/or replacement of sprinkler heads, (Note: the cleaning and gluing of pipe and fittings shall be paid for at the rate of pay specified under Landscape & Irrigation Laborer(Group 1); Watering by hand or sprinkler system and the performance of other types of gardening, yardman, and horticultural-related work.

LAB00368-003 09/05/2022

	Rates	Fringes
Underground Laborer		
GROUP 1.....	\$ 40.60	24.25
GROUP 2.....	\$ 42.10	24.25
GROUP 3.....	\$ 42.60	24.25
GROUP 4.....	\$ 43.60	24.25
GROUP 5.....	\$ 43.95	24.25
GROUP 6.....	\$ 44.20	24.25
GROUP 7.....	\$ 44.65	24.25

GROUP 1: Watchmen; Change House Attendant.

GROUP 2: Swamper; Brakeman; Bull Gang-Muckers, Trackmen; Dumpmen (any method); Concrete Crew (includes rodding and spreading); Grout Crew; Reboundmen

GROUP 3: Chucktenders and Cabletenders; Powderman (Prime House); Vibratorman, Pavement Breakers

GROUP 4: Miners - Tunnel (including top and bottom man on shaft and raise work); Timberman, Retimberman (wood or steel or substitute materials thereof); Blasters, Drillers, Powderman (in heading); Microtunnel Laborer; Headman; Cherry Pickerman (where car is lifted); Nipper; Grout Gunmen; Grout Pumpman & Potman; Gunite, Shotcrete Gunmen & Potmen; Concrete Finisher (in tunnel); Concrete Screed Man; Bit Grinder; Steel Form Raisers & Setters; High Pressure Nozzleman; Nozzleman (on slick line); Sandblaster-Potman (combination work assignment interchangeable); Tugger

GROUP 5: Shaft Work & Raise (below actual or excavated ground level); Diamond Driller; Gunite or Shotcrete Nozzleman; Rodman; Groundman

GROUP 6: Shifter

GROUP 7: Shifter (Shaft Work & Raiser)

PAIN1791-001 07/01/2022

	Rates	Fringes
Painters:		
Brush.....	\$ 40.00	30.59
Sandblaster; Spray.....	\$ 40.00	30.59

PAIN1889-001 07/01/2022		
	Rates	Fringes
Glaziers.....	\$ 41.50	38.37

PAIN1926-001 02/27/2022		
	Rates	Fringes
Soft Floor Layers.....	\$ 38.77	33.31

PAIN1944-001 01/02/2022		
	Rates	Fringes
Taper.....	\$ 43.85	32.65

PLAS0630-001 09/05/2022		
	Rates	Fringes
PLASTERER.....	\$ 45.00	33.58

PLAS0630-002 08/31/2020		
	Rates	Fringes
Cement Masons:		
Cement Masons.....	\$ 42.65	32.29
Trowel Machine Operators....	\$ 42.80	32.29

PLUM0675-001 07/03/2022		
	Rates	Fringes
Plumber, Pipefitter, Steamfitter & Sprinkler Fitter....	\$ 50.13	29.05

ROOF0221-001 09/05/2021		
	Rates	Fringes
Roofers (Including Built Up, Composition and Single Ply).....	\$ 42.55	20.78

SHEE0293-001 02/27/2022		
	Rates	Fringes
Sheet metal worker.....	\$ 46.22	30.64

* SUHI1997-002 09/15/1997		
	Rates	Fringes
Drapery Installer.....	\$ 13.60 **	1.20
FENCE ERECTOR (Chain Link Fence).....	\$ 9.33 **	1.65

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$15.00) or 13658 (\$11.25). Please see the Note at the top of the wage determination for more information.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division

U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISIO"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOLULU, HAWAII

P R O P O S A L

6/02/98

**PROPOSAL TO THE
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION**

**PROJECT: ASPHALT PAVEMENT PRESERVATION, RESURFACING, AND
RECONSTRUCTION AT VARIOUS LOCATIONS, KAUAI**

**FEDERAL-AID
PROJECT NO.: STP-0700(089)**

**COMPLETION TIME: Twelve (12) Months from the date indicated in the Notice
to Proceed from the Department with an option to
extend for four (4) additional twelve (12) month periods
upon mutual agreement.**

**DBE PROJECT GOAL: 1.5% - Area 1
2.8% - Area 2
3.3% - Area 3
1.0% - Area 4**

DESIGN PROJECT MANAGER:

**NAME: Eric Fujikawa
ADDRESS: 1720 Haleukana Street
Lihue, Hawaii 96766
PHONE NO.: (808) 241-3015
FAX NO.: (808) 241-3011**

Director of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Sir:

The undersigned Bidder declares the following:

1. It has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal.
2. It has not been assisted or represented on this matter by any individual who has, in a State capacity, been involved in the subject matter of this contract within the past two years.
3. It has not and will not, either directly or indirectly offered or given a gratuity (i.e., an entertainment or gift) to any State or County employee to obtain a contract or favorable treatment under a contract.
4. It will not maintain for its employees any segregated facilities at any of its establishments.
5. Does not and will not permit its employees to perform their services at any location under its control, where segregated facilities are maintained.

The undersigned Bidder further agrees to the following:

1. If this proposal is accepted, it shall execute a contract with the Department to provide all necessary labor, machinery, tools, equipment, apparatus and any other means of construction, to do all the work and to furnish all the materials specified in the contract in the manner and within the time therein prescribed in the contract, and that it shall accept in full payment therefore the sum of the unit and/or lump sum prices as set forth in the attached proposal schedule for the actual quantities of work performed and materials furnished and furnish satisfactory security in accordance with Section 103D324, Hawaii Revised Statutes, within 10 days after the award of the contract or within such time as the Director of Transportation may allow after the undersigned has received the contract documents for execution, and is fully aware that non-compliance with the aforementioned terms will result in the forfeiture of the full amount of the bid guarantee required under Section 1032D-323, Hawaii Revised Statutes.

2. That the quantities given in the attached proposal schedule are approximate only and are intended principally to serve as a guide in determining and comparing the bids.

3. That the Department does not either expressly or by implication, agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work, or to omit portions of the work, as may be deemed necessary or advisable by the Director of Transportation, and that all increased or decreased quantities of work shall be performed at the unit prices set forth in the attached proposal schedule except as provided for in the specifications.

4. In case of a discrepancy between unit prices and the totals in said Proposal Schedule, the unit prices shall prevail.

5. Unless amended by Special Provision, agrees to begin work within 10 working days after the date of notification to commence with the work, which date is in the notice to proceed, and shall finish the entire project within the time prescribed.

6. The Director of Transportation reserves the right to reject any or all bids and to waive any defects when in the Director's opinion such rejections or waiver will be for the best interest of the public.

The Bidder acknowledges receipt of and certifies that it has completely examined the following listed items: Hawaii Standard Specifications for Road and Bridge Construction, 2005, and/or the General Provisions for Construction Projects for AIR and WATER Transportation Facilities Division dated 2016, as applicable, the Notice to Bidders, Special Provisions, Proposal, Contract, Bond Forms, and Project Plans.

In accordance with Section 103D-323, Hawaii Revised Statutes, this proposal is accompanied with a bid security in the amount of \$500,000 per Area, in the form checked below. (Check applicable bid security submitted with bid.)

_____ Surety Bid Bond (Use standard form),

_____ Cash,

_____ Cashier's Check,

_____ Certified Check, or

_____ (Fill in other acceptable security)

The undersigned Bidder acknowledges receipt of any addendum issued by the Department by recording in the space below the date of receipt.

Addendum No. 1 _____ Addendum No. 3 _____

Addendum No. 2 _____ Addendum No. 4 _____

In accordance with Section 103D-302, Hawaii Revised Statutes, the undersigned as Bidder has listed the name of each person or firm who will be engaged by the Bidder on the project as Subcontractor or Joint Contractor and the nature of work to be done by each on the following page. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor. For each listed firm, the Bidder declares the respective firm is a Subcontractor or Joint Contractor and is subject to evaluation as a Subcontractor or Joint Contractor. It is understood that failure to comply with the aforementioned requirements may be cause for rejection of the bid submitted.

The undersigned Bidder asserts that affirmative action has been taken to seek out and consider Disadvantaged Business Enterprises (DBEs) for portions of the work which can be subcontracted, and the affirmative actions of the Bidder are fully documented in its records and are available upon request by the Department. It is also understood that it must meet or exceed the DBE contract goal listed on page P-1 or demonstrate that it made good faith efforts to meet the DBE project goal. The undersigned as Bidder, agrees to utilize each participating DBE that it submitted to meet the contract goal of:

_____ % - Area 1

_____ % - Area 2

_____ % - Area 3

_____ % - Area 4

(percentage to be completed by Bidder) DBE participation if the contract is awarded to it, and shall maintain such DBE participation during the construction of this project.

SUBCONTRACTOR LISTING FOR AREA 1
 (Attach additional sheets if necessary.)

	NAME OF FIRM	NATURE OF WORK
SUBCONTRACTOR:		
1.	_____	_____
	1a ¹ . _____	_____
2.	_____	_____
	2a. _____	_____
3.	_____	_____
	3a. _____	_____
4.	_____	_____
	4a. _____	_____
5.	_____	_____
	5a. _____	_____
6.	_____	_____
	6a. _____	_____
7.	_____	_____
	7a. _____	_____

NOTES:

The Name of Firm and Nature of Work shall be indicated for all listed firms. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor.

For each listed firm, the Bidder declares the respective firm is a Sub- or Joint Contractor and subject to evaluation as a Subcontractor or Joint Contractor.

¹ Second tier subcontractors

JOINT CONTRACTOR LISTING FOR AREA 1
 (Attach additional sheets if necessary.)

	NAME OF FIRM	NATURE OF WORK
JOINT CONTRACTOR:		
1.	_____	_____
	1a ¹ . _____	_____
8.	_____	_____
	2a. _____	_____
9.	_____	_____
	3a. _____	_____
10.	_____	_____
	4a. _____	_____
11.	_____	_____
	5a. _____	_____
12.	_____	_____
	6a. _____	_____
13.	_____	_____
	7a. _____	_____

NOTES:

The Name of Firm and Nature of Work shall be indicated for all listed firms. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor.

For each listed firm, the Bidder declares the respective firm is a Subcontractor or Joint Contractor and subject to evaluation as a Subcontractor or Joint Contractor.

¹ Second tier subcontractors

SUBCONTRACTOR LISTING FOR AREA 2
(Attach additional sheets if necessary.)

NAME OF FIRM	NATURE OF WORK
SUBCONTRACTOR:	
14. _____	_____
1a ¹ . _____	_____
15. _____	_____
2a. _____	_____
16. _____	_____
3a. _____	_____
17. _____	_____
4a. _____	_____
18. _____	_____
5a. _____	_____
19. _____	_____
6a. _____	_____
20. _____	_____
7a. _____	_____

NOTES:

The Name of Firm and Nature of Work shall be indicated for all listed firms. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor.

For each listed firm, the Bidder declares the respective firm is a Sub- or Joint Contractor and subject to evaluation as a Subcontractor or Joint Contractor.

¹ Second tier subcontractors

JOINT CONTRACTOR LISTING FOR AREA 2
 (Attach additional sheets if necessary.)

	NAME OF FIRM	NATURE OF WORK
JOINT CONTRACTOR:		
1.	_____	_____
	1a ¹ . _____	_____
21.	_____	_____
	2a. _____	_____
22.	_____	_____
	3a. _____	_____
23.	_____	_____
	4a. _____	_____
24.	_____	_____
	5a. _____	_____
25.	_____	_____
	6a. _____	_____
26.	_____	_____
	7a. _____	_____

NOTES:

The Name of Firm and Nature of Work shall be indicated for all listed firms. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor.

For each listed firm, the Bidder declares the respective firm is a Subcontractor or Joint Contractor and subject to evaluation as a Subcontractor or Joint Contractor.

¹ Second tier subcontractors

SUBCONTRACTOR LISTING FOR AREA 3
 (Attach additional sheets if necessary.)

	NAME OF FIRM	NATURE OF WORK
SUBCONTRACTOR:		
27.	_____	_____
	1a ¹ . _____	_____
28.	_____	_____
	2a. _____	_____
29.	_____	_____
	3a. _____	_____
30.	_____	_____
	4a. _____	_____
31.	_____	_____
	5a. _____	_____
32.	_____	_____
	6a. _____	_____
33.	_____	_____
	7a. _____	_____

NOTES:

The Name of Firm and Nature of Work shall be indicated for all listed firms. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor.

For each listed firm, the Bidder declares the respective firm is a Sub- or Joint Contractor and subject to evaluation as a Subcontractor or Joint Contractor.

¹ Second tier subcontractors

JOINT CONTRACTOR LISTING FOR AREA 3
 (Attach additional sheets if necessary.)

	NAME OF FIRM	NATURE OF WORK
JOINT CONTRACTOR:		
1.	_____	_____
	1a ¹ . _____	_____
34.	_____	_____
	2a. _____	_____
35.	_____	_____
	3a. _____	_____
36.	_____	_____
	4a. _____	_____
37.	_____	_____
	5a. _____	_____
38.	_____	_____
	6a. _____	_____
39.	_____	_____
	7a. _____	_____

NOTES:

The Name of Firm and Nature of Work shall be indicated for all listed firms. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor.

For each listed firm, the Bidder declares the respective firm is a Subcontractor or Joint Contractor and subject to evaluation as a Subcontractor or Joint Contractor.

¹ Second tier subcontractors

SUBCONTRACTOR LISTING FOR AREA 4
(Attach additional sheets if necessary.)

	NAME OF FIRM	NATURE OF WORK
40.	_____	_____
	1a ¹ . _____	_____
41.	_____	_____
	2a. _____	_____
42.	_____	_____
	3a. _____	_____
43.	_____	_____
	4a. _____	_____
44.	_____	_____
	5a. _____	_____
45.	_____	_____
	6a. _____	_____
46.	_____	_____
	7a. _____	_____

NOTES:

The Name of Firm and Nature of Work shall be indicated for all listed firms. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor.

For each listed firm, the Bidder declares the respective firm is a Sub- or Joint Contractor and subject to evaluation as a Subcontractor or Joint Contractor.

¹ Second tier subcontractors

JOINT CONTRACTOR LISTING FOR AREA 4
 (Attach additional sheets if necessary.)

	NAME OF FIRM	NATURE OF WORK
JOINT CONTRACTOR:		
1.	_____	_____
	1a ¹ . _____	_____
47.	_____	_____
	2a. _____	_____
48.	_____	_____
	3a. _____	_____
49.	_____	_____
	4a. _____	_____
50.	_____	_____
	5a. _____	_____
51.	_____	_____
	6a. _____	_____
52.	_____	_____
	7a. _____	_____

NOTES:

The Name of Firm and Nature of Work shall be indicated for all listed firms. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor.

For each listed firm, the Bidder declares the respective firm is a Subcontractor or Joint Contractor and subject to evaluation as a Subcontractor or Joint Contractor.

¹ Second tier subcontractors

The undersigned hereby certifies that the bid prices contained in the attached proposal schedule have been carefully checked and are submitted as correct and final.

This declaration is made with the understanding that the undersigned is subject to the penalty of perjury under the laws of the United States and is in violation of the Hawaii Penal Code, Section 710-1063, unsworn falsification to authorities, of the Hawaii Revised Statutes, for knowingly rendering a false declaration.

Bidder (Company Name)

Authorized Signature

Title

Business Address

Business Telephone

Email

Date

Contact Person (If different from above.)

Phone: _____ Email: _____

NOTE:

If Bidder is a CORPORATION, the legal name of the corporation shall be set forth above, the corporate seal affixed, together with the signature(s) of the officer(s) authorized to sign contracts for the corporation. Please attach to this page current (not more than six months old) evidence of the authority of the officer(s) to sign for the corporation.

If Bidder is a PARTNERSHIP, the true name of the partnership shall be set forth above, with the signature(s) of the general partner(s). Please attach to this page current (not more than six months old) evidence of the authority of the partner authorized to sign for the partnership.

If Bidder is an INDIVIDUAL, the bidder's signature shall be placed above.

If signature is by an agent, other than an officer of a corporation or a partner of a partnership, a **POWER OF ATTORNEY** must be on file with the Department before opening bids or submitted with the bid. Otherwise, the Department may reject the bid as irregular and unauthorized.

PROPOSAL SCHEDULE – AREA 1

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
201.0100	Clearing and Grubbing	FA	FA	FA	\$ 50,000.00
209.0100	Installation, Maintenance, Monitoring, and Removal of BMP	FA	FA	FA	\$ 100,000.00
301.0100	Hot Mix Asphalt Base Course (up to 6" thickness) (489 – 1,916 TN)	1,916	TN	\$ _____	\$ _____
301.0102	Hot Mix Asphalt Base Course (greater than 6" up to 12" thickness) (2,146 – 5,001 TN)	5,001	TN	\$ _____	\$ _____
401.0400	HMA Pavement, Mix No. IV (up to 3" thickness) (1,062 – 2,475 TN)	2,475	TN	\$ _____	\$ _____
401.0402	HMA Pavement, Mix No. IV (greater than 3" up to 6" thickness) (2,120 – 4,941 TN)	4,941	TN	\$ _____	\$ _____
401.0410	PMA Pavement, Mix No. IV PG 64E-22 (4,249 – 8,955 TN)	8,955	TN	\$ _____	\$ _____
401.0500	HMA Pavement, Mix No. V Leveling (2,797 – 6,518 TN)	6,518	TN	\$ _____	\$ _____
401.0900	Pavement Smoothness Incentive	Allow	Allow	Allow	\$ 100,000.00
401.0910	Third-Party Profile Testing and Equipment	Allow	Allow	Allow	\$ 20,000.00
401.0920	Third-Party Dispute Resolution Profile Testing	Allow	Allow	Allow	\$ 20,000.00
404.0100	Slurry Seal (6,333 – 12,500 SY)	12,500	SY	\$ _____	\$ _____
408.0100	Crack Sealing – Less than 1/2" (750 – 1,500 LF)	1,500	LF	\$ _____	\$ _____
408.0200	Crack Sealing – 1/2" to 3/4" (750 – 1,500 LF)	1,500	LF	\$ _____	\$ _____
414.0110	Excavation of Weakened Pavement Areas (1,467 – 2,442 CY)	2,442	CY	\$ _____	\$ _____
415.0110	Cold Planing (23,467 – 54,677 SY)	54,677	SY	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 1

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
604.4010	Adjusting Manhole Cast Iron Frame and Cover (1 – 10 EA)	10	EA	\$ _____	\$ _____
613.0100	Centerline and Reference Survey Monuments (6 – 12 EA)	12	EA	\$ _____	\$ _____
613.0200	Reconstructing Centerline and Reference Survey Monuments (6 – 12 EA)	12	EA	\$ _____	\$ _____
615.0100	16-Inch Milled Rumble Strip, Centerline (750 – 2,500 LF)	2,500	LF	\$ _____	\$ _____
615.0110	12-Inch Milled Rumble Strip, Edgeline (500 – 2,500 LF)	2,500	LF	\$ _____	\$ _____
627.0100	Vehicular Counting and Classification System Sensor Replacement	FA	FA	FA	\$ 50,000.00
629.1000	4-Inch Pavement Striping (Thermoplastic Extrusion) (50 – 880 LF)	880	LF	\$ _____	\$ _____
629.1006	4-Inch Pavement Striping (Thermoplastic Hot Spray) (10 – 100 LF)	100	LF	\$ _____	\$ _____
629.1008	4-Inch Pavement Striping (Profiled Thermoplastic) (125 – 630 LF)	630	LF	\$ _____	\$ _____
629.1010	Double 4-Inch Pavement Striping (Thermoplastic Extrusion) (10,560 – 20,592 LF)	20,592	LF	\$ _____	\$ _____
629.1016	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray) (750 – 2,000 LF)	2,000	LF	\$ _____	\$ _____
629.1020	6-Inch Pavement Striping (Thermoplastic Extrusion) (21,120 – 41,184 LF)	41,184	LF	\$ _____	\$ _____
629.1026	6-Inch Pavement Striping (Thermoplastic Hot Spray) (500 – 1,500 LF)	1,500	LF	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 1

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
629.1030	8-Inch Pavement Striping (Thermoplastic Extrusion) (50 – 150 LF)	150	LF	\$ _____	\$ _____
629.1036	8-Inch Pavement Striping (Thermoplastic Hot Spray) (700 – 1,450 LF)	1,450	LF	\$ _____	\$ _____
629.1050	12-Inch Pavement Striping (Thermoplastic Extrusion) (80 – 240 LF)	240	LF	\$ _____	\$ _____
629.1100	Pavement Word (Thermoplastic Extrusion) (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.1110	Pavement Arrow (Thermoplastic Extrusion) (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.1120	Pavement Symbol (Thermoplastic Extrusion) (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.1130	Yield Line (Thermoplastic Extrusion) (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.1140	Crosswalk Marking (Thermoplastic Extrusion) (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.1150	Thermoplastic Rumble Bars (360 – 720 LF)	720	LF	\$ _____	\$ _____
629.2020	Type C Pavement Marker (1,056 – 2,060 EA)	2,060	EA	\$ _____	\$ _____
629.2030	Type D Pavement Marker (2,112 – 4,120 EA)	4,120	EA	\$ _____	\$ _____
629.2040	Type F Pavement Marker (4 – 8 EA)	8	EA	\$ _____	\$ _____
629.2050	Type H Pavement Marker (1 – 100 EA)	100	EA	\$ _____	\$ _____
629.3100	Removing and Disposing of Existing Pavement Striping (1 – 100 LF)	100	LF	\$ _____	\$ _____
629.3110	Removing and Disposing of Existing Pavement Words (1 – 10 EA)	10	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 1

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
629.3120	Removing and Disposing of Existing Pavement Arrows (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.3130	Removing and Disposing of Existing Pavement Symbols (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.3140	Removing and Disposing of Existing Yield Line Markings (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.3150	Removing and Disposing of Existing Crosswalk Markings (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.3200	Removing and Disposing of Existing Pavement Markers (1 – 100 EA)	100	EA	\$ _____	\$ _____
632.0122	Reflector Marker (RM-3) with flexible Delineator (50 – 70 EA)	70	EA	\$ _____	\$ _____
636.1000	Additional E-Construction Programs, Additional Licenses, or Additional Equipment	FA	FA	FA	\$ 10,000.00
645.2000	Traffic Control	FA	FA	FA	\$ 100,000.00
671.1000	Protection of Threatened and Endangered Species	FA	FA	FA	\$ 50,000.00
697.1000	Surveying	FA	FA	FA	\$ 50,000.00

PROPOSAL SCHEDULE – AREA 1

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
	Total Amount for Comparison of Bids – Area 1				\$ _____
	<p>NOTE:</p> <ol style="list-style-type: none"> 1. Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid. 2. Bids shall include all Federal, State, County and other applicable taxes and fees. 3. The Total Amount for Comparison of Bids will be used to determine the lowest responsible bidder per area. 4. If a discrepancy occurs between Unit Price (B) and the Amount (A x B), the Unit Price (B) shall govern. 				

PROPOSAL SCHEDULE – AREA 2

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
201.0100	Clearing and Grubbing	FA	FA	FA	\$ 50,000.00
203.0100	Installation, Maintenance, Monitoring, and Removal of BMP	FA	FA	FA	\$ 100,000.00
301.0100	Hot Mix Asphalt Base Course (up to 6" thickness) (306 – 919 TN)	919	TN	\$ _____	\$ _____
301.0102	Hot Mix Asphalt Base Course (greater than 6" up to 12" thickness) (613 – 1,839 TN)	1,839	TN	\$ _____	\$ _____
401.0400	HMA Pavement, Mix No. IV (up to 3" thickness) (364 – 1,092 TN)	1,092	TN	\$ _____	\$ _____
401.0402	HMA Pavement, Mix No. IV (greater than 3" up to 6" thickness) (606 – 1,817 TN)	1,817	TN	\$ _____	\$ _____
401.0410	PMA Pavement, Mix No. IV PG 64E-22 (442 – 2,239 TN)	2,239	TN	\$ _____	\$ _____
401.0500	HMA Pavement, Mix No. V Leveling (350 – 1,629 TN)	1,629	TN	\$ _____	\$ _____
401.0900	Pavement Smoothness Incentive	Allow	Allow	Allow	\$ 100,000.00
401.0910	Third-Party Profile Testing and Equipment	Allow	Allow	Allow	\$ 20,000.00
401.0920	Third-Party Dispute Resolution Profile Testing	Allow	Allow	Allow	\$ 20,000.00
404.0100	Slurry Seal (50,000 – 150,000 SY)	150,000	SY	\$ _____	\$ _____
408.0100	Crack Sealing – Less than 1/2" (6,000 – 18,000 LF)	18,000	LF	\$ _____	\$ _____
408.0200	Crack Sealing – 1/2" to 3/4" (6,000 – 18,000 LF)	18,000	LF	\$ _____	\$ _____
414.0110	Excavation of Weakened Pavement Areas (419 – 1,257 CY)	1,257	CY	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 2

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
415.0110	Cold Planing (1,005 – 3,016 SY)	3,016	SY	\$ _____	\$ _____
604.4010	Adjusting Manhole Cast Iron Frame and Cover (1 – 10 EA)	10	EA	\$ _____	\$ _____
613.0100	Centerline and Reference Survey Monuments (1 – 10 EA)	10	EA	\$ _____	\$ _____
613.0200	Reconstructing Centerline and Reference Survey Monuments (1 – 10 EA)	10	EA	\$ _____	\$ _____
615.0100	16-Inch Milled Rumble Strip, Centerline (10,000 – 30,000 LF)	30,000	LF	\$ _____	\$ _____
615.0110	12-Inch Milled Rumble Strip, Edgeline (14,000 – 42,000 LF)	42,000	LF	\$ _____	\$ _____
627.0100	Vehicular Counting and Classification System Sensor Replacement	FA	FA	FA	\$ 50,000.00
629.1000	4-Inch Pavement Striping (Thermoplastic Extrusion) (50 – 880 LF)	880	LF	\$ _____	\$ _____
629.1006	4-Inch Pavement Striping (Thermoplastic Hot Spray) (10 – 100 LF)	100	LF	\$ _____	\$ _____
629.1008	4-Inch Pavement Striping (Profiled Thermoplastic) (125 – 630 LF)	630	LF	\$ _____	\$ _____
629.1010	Double 4-Inch Pavement Striping (Thermoplastic Extrusion) (1,000 – 3,000 LF)	3,000	LF	\$ _____	\$ _____
629.1016	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray) (6,650 – 19,950 LF)	19,950	LF	\$ _____	\$ _____
629.1020	6-Inch Pavement Striping (Thermoplastic Extrusion) (16,920 – 50,760 LF)	50,760	LF	\$ _____	\$ _____
629.1026	6-Inch Pavement Striping (Thermoplastic Hot Spray) (2,000 – 6,000 LF)	6,000	LF	\$ _____	\$ _____

STP-0700(089)

10/24/22

P-20

PROPOSAL SCHEDULE – AREA 2

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
629.1030	8-Inch Pavement Striping (Thermoplastic Extrusion) (200 – 600 LF)	600	LF	\$ _____	\$ _____
629.1036	8-Inch Pavement Striping (Thermoplastic Hot Spray) (3,080 – 9,240 LF)	9,240	LF	\$ _____	\$ _____
629.1050	12-Inch Pavement Striping (Thermoplastic Extrusion) (10 – 30 LF)	30	LF	\$ _____	\$ _____
629.1100	Pavement Word (Thermoplastic Extrusion) (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.1110	Pavement Arrow (Thermoplastic Extrusion) (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.1120	Pavement Symbol (Thermoplastic Extrusion) (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.1130	Yield Line (Thermoplastic Extrusion) (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.1140	Crosswalk Marking (Thermoplastic Extrusion) (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.1150	Thermoplastic Rumble Bars (360 – 1,080 LF)	1,080	LF	\$ _____	\$ _____
629.2020	Type C Pavement Marker (1,200 – 3,600 EA)	3,600	EA	\$ _____	\$ _____
629.2030	Type D Pavement Marker (1,600 – 4,800 EA)	4,800	EA	\$ _____	\$ _____
629.2040	Type F Pavement Marker (4 – 12 EA)	12	EA	\$ _____	\$ _____
629.2050	Type H Pavement Marker (1 – 100 EA)	100	EA	\$ _____	\$ _____
629.3100	Removing and Disposing of Existing Pavement Striping (30,000 – 90,000 LF)	90,000	LF	\$ _____	\$ _____
629.3110	Removing and Disposing of Existing Pavement Words (1 – 10 EA)	10	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 2

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
629.3120	Removing and Disposing of Existing Pavement Arrows (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.3130	Removing and Disposing of Existing Pavement Symbols (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.3140	Removing and Disposing of Existing Yield Line Markings (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.3150	Removing and Disposing of Existing Crosswalk Markings (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.3200	Removing and Disposing of Existing Pavement Markers (1 – 100 EA)	100	EA	\$ _____	\$ _____
632.0122	Reflector Marker (RM-3) with flexible Delineator (1 – 10 EA)	10	EA	\$ _____	\$ _____
636.1000	Additional E-Construction Programs, Additional Licenses, or Additional Equipment	FA	FA	FA	\$ 10,000.00
645.2000	Traffic Control	FA	FA	FA	\$ 100,000.00
671.1000	Protection of Threatened and Endangered Species	FA	FA	FA	\$ 50,000.00
697.1000	Surveying	FA	FA	FA	\$ 50,000.00

PROPOSAL SCHEDULE – AREA 2

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
	Total Amount for Comparison of Bids – Area 2				\$ _____
	<p>NOTE:</p> <ol style="list-style-type: none"> 1. Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid. 2. Bids shall include all Federal, State, County and other applicable taxes and fees. 3. The Total Amount for Comparison of Bids will be used to determine the lowest responsible bidder per area. 4. If a discrepancy occurs between Unit Price (B) and the Amount (A x B), the Unit Price (B) shall govern. 				

PROPOSAL SCHEDULE – AREA 3

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
201.0100	Clearing and Grubbing	FA	FA	FA	\$ 50,000.00
203.0100	Installation, Maintenance, Monitoring, and Removal of BMP	FA	FA	FA	\$ 100,000.00
301.0100	Hot Mix Asphalt Base Course (up to 6" thickness) (185 – 6,225 TN)	6,225	TN	\$ _____	\$ _____
301.0102	Hot Mix Asphalt Base Course (greater than 6" up to 12" thickness) (429 – 12,548 TN)	12,548	TN	\$ _____	\$ _____
401.0400	HMA Pavement, Mix No. IV (up to 3" thickness) (220 – 6,412 TN)	6,412	TN	\$ _____	\$ _____
401.0402	HMA Pavement, Mix No. IV (greater than 3" up to 6" thickness) (366 – 12,300 TN)	12,300	TN	\$ _____	\$ _____
401.0410	PMA Pavement, Mix No. IV PG 64E-22 (1,769 – 16,362 TN)	16,362	TN	\$ _____	\$ _____
401.0500	HMA Pavement, Mix No. V Leveling (1,399 – 12,938 TN)	12,938	TN	\$ _____	\$ _____
401.0900	Pavement Smoothness Incentive	Allow	Allow	Allow	\$ 100,000.00
401.0910	Third-Party Profile Testing and Equipment	Allow	Allow	Allow	\$ 20,000.00
401.0920	Third-Party Dispute Resolution Profile Testing	Allow	Allow	Allow	\$ 20,000.00
404.0100	Slurry Seal (25,330 – 218,640 SY)	218,640	SY	\$ _____	\$ _____
408.0100	Crack Sealing – Less than 1/2" (3,000 – 27,500 LF)	27,500	LF	\$ _____	\$ _____
408.0200	Crack Sealing – 1/2" to 3/4" (3,000 – 27,500 LF)	27,500	LF	\$ _____	\$ _____
414.0110	Excavation of Weakened Pavement Areas (253 – 8,508 CY)	8,508	CY	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 3

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
415.0110	Cold Planing (608 – 112,672 SY)	112,672	SY	\$ _____	\$ _____
604.4010	Adjusting Manhole Cast Iron Frame and Cover (1 – 10 EA)	10	EA	\$ _____	\$ _____
613.0100	Centerline and Reference Survey Monuments (2 – 107 EA)	107	EA	\$ _____	\$ _____
613.0200	Reconstructing Centerline and Reference Survey Monuments (2 – 107 EA)	107	EA	\$ _____	\$ _____
615.0100	16-Inch Milled Rumble Strip, Centerline (3,000 – 39,000 LF)	39,000	LF	\$ _____	\$ _____
615.0110	12-Inch Milled Rumble Strip, Edgeline (2,000 – 10,000 LF)	10,000	LF	\$ _____	\$ _____
627.0100	Vehicular Counting and Classification System Sensor Replacement	FA	FA	FA	\$ 50,000.00
629.1000	4-Inch Pavement Striping (Thermoplastic Extrusion) (200 – 17,600 LF)	17,600	LF	\$ _____	\$ _____
629.1006	4-Inch Pavement Striping (Thermoplastic Hot Spray) (10 – 100 LF)	100	LF	\$ _____	\$ _____
629.1008	4-Inch Pavement Striping (Profiled Thermoplastic) (500 – 8,300 LF)	8,300	LF	\$ _____	\$ _____
629.1010	Double 4-Inch Pavement Striping (Thermoplastic Extrusion) (280 – 81,020 LF)	81,020	LF	\$ _____	\$ _____
629.1016	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray) (3,000 – 41,088 LF)	41,088	LF	\$ _____	\$ _____
629.1020	6-Inch Pavement Striping (Thermoplastic Extrusion) (7,760 – 170,216 LF)	170,216	LF	\$ _____	\$ _____
629.1026	6-Inch Pavement Striping (Thermoplastic Hot Spray) (2,000 – 10,000 LF)	10,000	LF	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 3

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
629.1030	8-Inch Pavement Striping (Thermoplastic Extrusion) (200 – 19,900 LF)	19,900	LF	\$ _____	\$ _____
629.1036	8-Inch Pavement Striping (Thermoplastic Hot Spray) (2,800 – 5,800 LF)	5,800	LF	\$ _____	\$ _____
629.1050	12-Inch Pavement Striping (Thermoplastic Extrusion) (40 – 12,720 LF)	12,720	LF	\$ _____	\$ _____
629.1100	Pavement Word (Thermoplastic Extrusion) (2 – 58 EA)	58	EA	\$ _____	\$ _____
629.1110	Pavement Arrow (Thermoplastic Extrusion) (4 – 232 EA)	232	EA	\$ _____	\$ _____
629.1120	Pavement Symbol (Thermoplastic Extrusion) (8 – 30 EA)	30	EA	\$ _____	\$ _____
629.1130	Yield Line (Thermoplastic Extrusion) (1 – 15 LN)	15	LN	\$ _____	\$ _____
629.1140	Crosswalk Marking (Thermoplastic Extrusion) (5 – 114 LN)	114	LN	\$ _____	\$ _____
629.1150	Thermoplastic Rumble Bars (360 – 4,320 LF)	4,320	LF	\$ _____	\$ _____
629.2020	Type C Pavement Marker (528 – 11,274 EA)	11,274	EA	\$ _____	\$ _____
629.2030	Type D Pavement Marker (656 – 35,334 EA)	35,334	EA	\$ _____	\$ _____
629.2040	Type F Pavement Marker (2 – 51 EA)	51	EA	\$ _____	\$ _____
629.2050	Type H Pavement Marker (160 – 4,220 EA)	4,220	EA	\$ _____	\$ _____
629.3100	Removing and Disposing of Existing Pavement Striping (23,300 – 221,700 LF)	221,700	LF	\$ _____	\$ _____
629.3110	Removing and Disposing of Existing Pavement Words (4 – 51 EA)	51	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 3

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
629.3120	Removing and Disposing of Existing Pavement Arrows (23 – 219 EA)	219	EA	\$ _____	\$ _____
629.3130	Removing and Disposing of Existing Pavement Symbols (8 – 30 EA)	30	EA	\$ _____	\$ _____
629.3140	Removing and Disposing of Existing Yield Line Markings (1 – 15 LN)	15	LN	\$ _____	\$ _____
629.3150	Removing and Disposing of Existing Crosswalk Markings (5 – 109 LN)	109	LN	\$ _____	\$ _____
629.3200	Removing and Disposing of Existing Pavement Markers (2,161 – 7,701 EA)	7,701	EA	\$ _____	\$ _____
632.0122	Reflector Marker (RM-3) with flexible Delineator (20 – 155 EA)	155	EA	\$ _____	\$ _____
636.1000	Additional E-Construction Programs, Additional Licenses, or Additional Equipment	FA	FA	FA	\$ 10,000.00
645.2000	Traffic Control	FA	FA	FA	\$ 100,000.00
671.1000	Protection of Threatened and Endangered Species	FA	FA	FA	\$ 50,000.00
697.1000	Surveying	FA	FA	FA	\$ 50,000.00

PROPOSAL SCHEDULE – AREA 3

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
	Total Amount for Comparison of Bids – Area 3				\$ _____
	<p>NOTE:</p> <ol style="list-style-type: none"> 1. Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid. 2. Bids shall include all Federal, State, County and other applicable taxes and fees. 3. The Total Amount for Comparison of Bids will be used to determine the lowest responsible bidder per area. 4. If a discrepancy occurs between Unit Price (B) and the Amount (A x B), the Unit Price (B) shall govern. 				

PROPOSAL SCHEDULE – AREA 4

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
201.0100	Clearing and Grubbing	FA	FA	FA	\$ 50,000.00
203.0100	Installation, Maintenance, Monitoring, and Removal of BMP	FA	FA	FA	\$ 100,000.00
301.0100	Hot Mix Asphalt Base Course (up to 6" thickness) (995 – 7,666 TN)	7,666	TN	\$ _____	\$ _____
301.0102	Hot Mix Asphalt Base Course (greater than 6" up to 12" thickness) (1,990 – 15,331 TN)	15,331	TN	\$ _____	\$ _____
401.0400	HMA Pavement, Mix No. IV (up to 3" thickness) (985 – 7,589 TN)	7,589	TN	\$ _____	\$ _____
401.0402	HMA Pavement, Mix No. IV (greater than 3" up to 6" thickness) (1,966 – 15,147 TN)	15,147	TN	\$ _____	\$ _____
401.0410	PMA Pavement, Mix No. IV PG 64E-22 (3,280 – 25,270 TN)	25,270	TN	\$ _____	\$ _____
401.0500	HMA Pavement, Mix No. V Leveling (2,594 – 19,981 TN)	19,981	TN	\$ _____	\$ _____
401.0900	Pavement Smoothness Incentive	Allow	Allow	Allow	\$ 100,000.00
401.0910	Third-Party Profile Testing and Equipment	Allow	Allow	Allow	\$ 20,000.00
401.0920	Third-Party Dispute Resolution Profile Testing	Allow	Allow	Allow	\$ 20,000.00
404.0100	Slurry Seal (6,333 – 12,500 SY)	12,500	SY	\$ _____	\$ _____
408.0100	Crack Sealing – Less than 1/2" (750 – 1,500 LF)	1,500	LF	\$ _____	\$ _____
408.0200	Crack Sealing – 1/2" to 3/4" (750 – 1,500 LF)	1,500	LF	\$ _____	\$ _____
414.0110	Excavation of Weakened Pavement Areas (1,360 – 10,476 CY)	10,476	CY	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 4

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
415.0110	Cold Planing (21,760 – 167,622 SY)	167,622	SY	\$ _____	\$ _____
604.4010	Adjusting Manhole Cast Iron Frame and Cover (1 – 10 EA)	10	EA	\$ _____	\$ _____
613.0100	Centerline and Reference Survey Monuments (2 – 20 EA)	20	EA	\$ _____	\$ _____
613.0200	Reconstructing Centerline and Reference Survey Monuments (2 – 20 EA)	20	EA	\$ _____	\$ _____
615.0100	16-Inch Milled Rumble Strip, Centerline (4,000 – 8,000 LF)	8,000	LF	\$ _____	\$ _____
615.0110	12-Inch Milled Rumble Strip, Edgeline (4,300 – 10,600 LF)	10,600	LF	\$ _____	\$ _____
627.0100	Vehicular Counting and Classification System Sensor Replacement	FA	FA	FA	\$ 50,000.00
629.1000	4-Inch Pavement Striping (Thermoplastic Extrusion) (700 – 3,520 LF)	3,520	LF	\$ _____	\$ _____
629.1006	4-Inch Pavement Striping (Thermoplastic Hot Spray) (10 – 100 LF)	100	LF	\$ _____	\$ _____
629.1008	4-Inch Pavement Striping (Profiled Thermoplastic) (1,200 – 2,520 LF)	2,520	LF	\$ _____	\$ _____
629.1010	Double 4-Inch Pavement Striping (Thermoplastic Extrusion) (1,440 – 43,010 LF)	43,010	LF	\$ _____	\$ _____
629.1016	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray) (4,000 – 8,000 LF)	8,000	LF	\$ _____	\$ _____
629.1020	6-Inch Pavement Striping (Thermoplastic Extrusion) (2,880 – 75,056 LF)	75,056	LF	\$ _____	\$ _____
629.1026	6-Inch Pavement Striping (Thermoplastic Hot Spray) (3,200 – 11,200 LF)	11,200	LF	\$ _____	\$ _____

STP-0700(089)

10/24/22

P-30

PROPOSAL SCHEDULE – AREA 4

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
629.1030	8-Inch Pavement Striping (Thermoplastic Extrusion) (200 – 5,170 LF)	5,170	LF	\$ _____	\$ _____
629.1036	8-Inch Pavement Striping (Thermoplastic Hot Spray) (2,800 – 8,400 LF)	8,400	LF	\$ _____	\$ _____
629.1050	12-Inch Pavement Striping (Thermoplastic Extrusion) (30 – 6,230 LF)	6,230	LF	\$ _____	\$ _____
629.1100	Pavement Word (Thermoplastic Extrusion) (10 – 30 EA)	30	EA	\$ _____	\$ _____
629.1110	Pavement Arrow (Thermoplastic Extrusion) (2 – 30 EA)	30	EA	\$ _____	\$ _____
629.1120	Pavement Symbol (Thermoplastic Extrusion) (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.1130	Yield Line (Thermoplastic Extrusion) (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.1140	Crosswalk Marking (Thermoplastic Extrusion) (4 – 22 LN)	22	LN	\$ _____	\$ _____
629.1150	Thermoplastic Rumble Bars (360 – 1,800 LF)	1,800	LF	\$ _____	\$ _____
629.2020	Type C Pavement Marker (144 – 4,584 EA)	4,584	EA	\$ _____	\$ _____
629.2030	Type D Pavement Marker (400 – 7,265 EA)	7,265	EA	\$ _____	\$ _____
629.2040	Type F Pavement Marker (2 – 18 EA)	18	EA	\$ _____	\$ _____
629.2050	Type H Pavement Marker (200 – 1,240 EA)	1,240	EA	\$ _____	\$ _____
629.3100	Removing and Disposing of Existing Pavement Striping (1 – 100 LF)	100	LF	\$ _____	\$ _____
629.3110	Removing and Disposing of Existing Pavement Words (1 – 10 EA)	10	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 4

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
629.3120	Removing and Disposing of Existing Pavement Arrows (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.3130	Removing and Disposing of Existing Pavement Symbols (1 – 10 EA)	10	EA	\$ _____	\$ _____
629.3140	Removing and Disposing of Existing Yield Line Markings (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.3150	Removing and Disposing of Existing Crosswalk Markings (1 – 10 LN)	10	LN	\$ _____	\$ _____
629.3200	Removing and Disposing of Existing Pavement Markers (1 – 100 EA)	100	EA	\$ _____	\$ _____
632.0122	Reflector Marker (RM-3) with flexible Delineator (5 – 25 EA)	25	EA	\$ _____	\$ _____
636.1000	Additional E-Construction Programs, Additional Licenses, or Additional Equipment	FA	FA	FA	\$ 10,000.00
645.2000	Traffic Control	FA	FA	FA	\$ 100,000.00
671.1000	Protection of Threatened and Endangered Species	FA	FA	FA	\$ 50,000.00
697.1000	Surveying	FA	FA	FA	\$ 50,000.00

PROPOSAL SCHEDULE – AREA 4

ITEM NO.	ITEM	APPROX. QUANTITY (A)	UNIT	UNIT PRICE (B)	AMOUNT (A x B)
	Total Amount for Comparison of Bids – Area 4				\$ _____
	<p>NOTE:</p> <ol style="list-style-type: none"> 1. Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid. 2. Bids shall include all Federal, State, County and other applicable taxes and fees. 3. The Total Amount for Comparison of Bids will be used to determine the lowest responsible bidder per area. 4. If a discrepancy occurs between Unit Price (B) and the Amount (A x B), the Unit Price (B) shall govern. 				

PROPOSAL SCHEDULE – SUMMARY

	ITEM				AMOUNT
	TOTAL AMOUNT FOR COMPARISON OF BIDS – AREA 1				\$ _____
	TOTAL AMOUNT FOR COMPARISON OF BIDS – AREA 2				\$ _____
	TOTAL AMOUNT FOR COMPARISON OF BIDS – AREA 3				\$ _____
	TOTAL AMOUNT FOR COMPARISON OF BIDS – AREA 4				\$ _____

1 **PROPOSAL SCHEDULE**

2
3 The bidder is directed to Subsection 105.16 – Subcontracts.

4
5 If the bid price for any proposal item having a maximum allowable bid
6 indicated therefore in any of the contract documents is in excess of such a
7 maximum amount, the bid price for such proposal item shall be adjusted to reflect
8 the limitation thereon. The comparison of bids to determine the successful bidder
9 and the amount of contract to be awarded shall be determined after such
10 adjustments are made, and such adjustments shall be binding upon the bidder.

11
12 The "TOTAL AMOUNT FOR COMPARISON OF BIDS" will be used to
13 determine the lowest responsible bidder per area.

14
15 Notes:

- 16
17 1. Bid prices are for travel time, mileage and furnishing all labor, tools,
18 traffic controls, all applicable taxes, fees and equipment necessary
19 for all work shown and called for in accordance with the true intent
20 and meaning of the specifications.
21
22 2. Bidder may bid on any or all areas. To be considered, bidder must
23 submit a bid for all items within an area. Separate contracts will be
24 awarded for each area. If a bidder is determined the lowest bidder
25 for multiple areas, one combined contract will be awarded.
26
27 3. Any contract which is awarded shall be an open-ended contract since
28 the exact value of work to be performed during the contract period
29 cannot be determined beforehand. The unit price for each item of
30 work on any particular work order shall be that which corresponds to
31 the quantity of work for that item actually performed for each work
32 order.
33
34 4. The sum of all work and materials required to perform the required
35 repairs are issued on a "single work order." A single work order shall
36 be a work order submitted by the Engineer for work that can be
37 performed by the Contractor without relocating a distance of more
38 than 1 mile between any two adjacent repair locations.

39
40 The bidder is directed to Section 717 – Cullet and Cullet-Made Materials
41 regarding recycling of waste glass.



Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement Trucking Company

This commitment is subject to the award and receipt of a signed contract from the Hawaii Department of Transportation (HDOT) for the subject project. DBEs must be certified by the bid opening date.

Project #:	County:
NAICS CODE/DESCRIPTION OF WORK:	SECONDARY NAICS CODE:

*All quantities and units should match the bid tab item whenever possible.

The prime contractor shall inform HDOT the dates when the trucking firm starts and completes all work under the subcontract.

Estimated Beginning Date (Month/Year):	Estimated Completion Date (Month/Year):
---	--

TRUCKING COMPANY:	Item No.	Item Description	Unit	Unit Price / Rate	Amount
				\$	\$
				\$	\$
				\$	\$
TOTAL COMMITMENT AMOUNT					\$

1. Number of hours contracted or quantities to be hauled: _____
2. Number of fully operational trucks to be used: _____ Tractor/trailers: _____ Dump trucks: _____
3. Number of fully operational trucks owned by DBE: _____ Dump trucks: _____ Tractors/trailers: _____
4. If Owner Operators or additional trucking companies are to be used answer the following:

Name of Trucking Company	DBE Y/N	Estimated Dollar Amount to be Contracted	Number and Type of Trucks (specify)
		\$	
		\$	

The prime contractor certifies by signature on this agreement to utilize the DBE trucking company as listed on the agreement form. If a DBE trucking company is unable to perform the work as listed on this agreement form, the prime contractor will follow the substitution/replacement approval process as outlined in the contract DBE requirements. **IMPORTANT! The signatures of the DBE, prime contractor, and subcontractor (only if the DBE will be a second tier sub) confirms that all information on this Agreement is true and correct. Parties should sign Agreement in the order in which they are listed.**

DBE NAME:	Name/Title (please print):
Address:	Signature:
Phone: Fax:	
Email:	
Prime Contractor:	Name/Title (please print):
Address:	Signature:
Phone: Fax:	
Email:	
Subcontractor (only if the DBE will be a second tier sub):	Name/Title (please print):
Address:	Signature:
Phone: Fax:	
Email:	

HDOT retains the information collected through this form. With few exceptions, you are entitled on request to be informed about the information that we collect about you.



**Disadvantaged Business Enterprise (DBE)
Confirmation and Commitment Agreement
Trucking Company
INSTRUCTIONS**

The purpose of this agreement is to secure the commitment of the bidder/offeror to utilize the listed DBE trucking company, and the DBE's confirmation that it will perform work for the bidder/offeror on this project. The information on this form shall be provided by the DBE.

Project #	Self-explanatory
County	County where project is located
NAICS Code/Description of Work	Primary North American Industry Classification System code under which DBE is certified to perform and description of work to be done
Secondary NAICS Code	List other NAICS codes firm is certified to perform
Estimated Beginning Date (Month/Year)	Date DBE shall begin work on the project
Estimated Completion Date (Month/Year)	Date DBE's work will be completed
Trucking Company	Name of DBE trucking company
Item No.	List pay item number
Item Description	Description of item
Unit	Unit of measure – e.g. weight or hours
Unit Price/Rate	Cost per unit or hourly rate
Amount	Total amount per pay item
Total Commitment Amount	Sum of all pay items and total commitment of bidder/offeror to DBE
Number of hours contracted or quantities to be hauled	Approximate number of hours or tonnage to be hauled
Number of fully operational trucks to be used:	Total number of trucks to be used for the project
Tractor/Trailers	Number of tractor trailers to be used
Dump Trucks	Number of dump trucks to be used
Number of fully operational trucks owned by DBE	Number of listed DBE's trucks to be used on this project
Name of Trucking Company	If other trucking companies (DBE or non-DBE) are to be leased, list name and information about type of trucks in this section
Estimated Dollar Amount to be Contracted	Provide information about estimated cost to lease trucks
Number of Dump Trucks, Tractor/Trailer	Self-explanatory
DBE NAME	DBE Company name
Name/Title	Name and title of DBE's representative
Address	Self-explanatory
Phone	Self-explanatory
Fax	Self-explanatory
Email	Self-explanatory
Signature	Signature of DBE's representative
Date	Date agreement is signed
Prime Contractor	Company name

Name/Title	Name and title of prime contractor's representative
Address	Self-explanatory
Phone	Self-explanatory
Fax	Self-explanatory
Email	Self-explanatory
Signature	Signature of prime contractor's representative
Date	Date agreement is signed
Subcontractor (only if the DBE will be a second tier sub):	Name of subcontractor only if the listed DBE trucking company will be performing work under this subcontractor
Name/Title	Name and title of the subcontractor's representative
Address	Self-explanatory
Phone	Self-explanatory
Fax	Self-explanatory
Email	Self-explanatory
Signature	Signature of subcontractor
Date	Date agreement is signed



Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement Subcontractor, Manufacturer, or Supplier

This commitment is subject to the award and receipt of a signed contract from the Hawaii Department of Transportation (HDOT) for the subject project. DBEs must be certified by the bid opening date.

Project #:	County:
NAICS CODE/DESCRIPTION OF WORK:	SECONDARY NAICS CODE:

*All quantities and units should match the bid tab item whenever possible.

The prime contractor shall inform HDOT of the dates when the subcontractor starts and completes all work under the subcontract.

Estimated Beginning Date (Month/Year):	Estimated Completion Date (Month/Year):
---	--

SUBCONTRACTOR:	Item No.	Item	Approx. Quantity	Unit	Unit Price	Amount
					\$	\$
					\$	\$
					\$	\$
					\$	\$
TOTAL COMMITMENT AMOUNT						\$

MANUFACTURER:	Item No.	Item	Approx. Quantity	Unit	Unit Price	Amount
					\$	\$
					\$	\$
TOTAL COMMITMENT AMOUNT						\$

SUPPLIER:	Item No.	Item	Approx. Quantity	Unit	Unit Price	Amount
					\$	\$
					\$	\$
TOTAL COMMITMENT AMOUNT						\$

The prime contractor certifies by signature on this agreement that subcontracts will be executed between the prime contractor and the DBE subcontractors as listed on the agreement form. If a DBE subcontractor is unable to perform the work as listed on this agreement form, the prime contractor will follow the substitution/replacement approval process as outlined in the contract DBE requirements. **IMPORTANT! The signatures of the DBE, prime contractor, and subcontractor (only if the DBE will be a second tier sub) confirms that all information on this Agreement is true and correct. Parties should sign Agreement in the order in which they are listed.**

DBE NAME:	Name/Title (please print):
Address:	Signature:
Phone: Fax:	
Email:	Date:
Prime Contractor:	Name/Title (please print):
Address:	Signature:
Phone: Fax:	
Email:	Date:
Subcontractor (only if the DBE will be a second tier sub):	Name/Title (please print):
Address:	Signature:
Phone: Fax:	
Email:	Date:

HDOT retains the information collected through this form. With few exceptions, you are entitled on request to be informed about the information that we collect about you.



Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement Subcontractor, Manufacturer, or Supplier INSTRUCTIONS

The purpose of this agreement is to secure the commitment of the bidder/offeror to utilize the listed DBE, and the DBE's confirmation that it will perform work for the bidder/offeror on this project. The information on this form shall be provided by the DBE.

Project #	Self-explanatory
County	County where project is located
NAICS Code/Description of Work	Primary North American Industry Classification System code under which DBE is certified to perform and description of work to be done
Secondary NAICS Code	List other NAICS codes firm is certified to perform
Estimated Beginning Date (Month/Year)	Date DBE shall begin work on the project
Estimated Completion Date (Month/Year)	Date DBE's work will be completed
Subcontractor	Name of DBE subcontractor (company name)
Item No.	List pay item number
Item	Description of item
Approx. Quantity	Self-explanatory
Unit	List unit of measure
Unit Price	Cost per unit
Amount	Total amount per pay item
Total Commitment Amount	Sum of all pay items and total commitment of bidder/offeror to DBE
Manufacturer	Name of DBE manufacturer
Supplier	Name of DBE supplier (aka regular dealer)
DBE NAME	DBE Company name
Name/Title	Name and title of DBE's representative
Address	Self-explanatory
Phone	Self-explanatory
Fax	Self-explanatory
Email	Self-explanatory
Signature	Signature of DBE's representative
Date	Date agreement is signed
Prime Contractor	Company name
Name/Title	Name and title of prime contractor's representative
Address	Self-explanatory
Phone	Self-explanatory
Fax	Self-explanatory
Email	Self-explanatory
Signature	Signature of prime contractor's representative
Date	Date agreement is signed
Subcontractor (only if the DBE will be a second tier sub):	Name of subcontractor only if the listed DBE will be performing work under this subcontractor as a second tier subcontractor/supplier/manufacturer

Name/Title	Name and title of the subcontractor's representative that the listed DBE will work under as a second tier subcontractor/supplier/manufacture
Address	Self-explanatory
Phone	Self-explanatory
Fax	Self-explanatory
Email	Self-explanatory
Signature	Signature of subcontractor's representative
Date	Date agreement is signed

Summary of Good Faith Efforts (GFE)

As required by the specifications “*Disadvantaged Business Enterprise Requirements*,” documentation of GFE shall be submitted by the close of business, 4:30 P.M. HST five (5) days of bid opening. **The bidder/offeror shall respond to the following questions and describe efforts to obtain DBE participation whether or not the DBE project goal is met.** Responses must be sufficient to properly evaluate the bidder’s/offeror’s good faith efforts. Copies of correspondence return receipts, telephone logs, or other documentation will be required to support GFE. Attach additional sheets, if necessary. Based on responses given, HDOT shall make a determination of the bidders’ GFE. **Failure to provide required information sufficient to evaluate the bid/proposal shall be cause for bid/proposal rejection.**

1. Did you submit the required information by the close of business, 4:30 P.M. HST, five (5) days after bid opening (i.e. DBE name, address, NAICS code, description of work, project name, and number)?
2. Explain your GFE if any, to solicit through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform part or all of the work to be included under the contract.
 - a. Explain your GFE if any, to solicit the participation of potential DBEs as early in the procurement process as practicable.
 - b. Explain your GFE if any, to allow sufficient time for the DBEs to properly inquire about the project and respond to the solicitation.
 - c. Explain your GFE if any, to take appropriate steps to follow up with interested DBEs in a timely manner to facilitate participation by DBEs in this project.
3. Explain your GFE if any, to identify and break up portions of work that can be performed by DBEs in order to increase the likelihood that a DBE will be able to participate, and that the DBE goal could be achieved (e.g. breaking out contract items into economically feasible units to facilitate DBE participation even when you might otherwise prefer to self-perform these work items).
4. Explain your GFE if any, to make available or provide interested DBEs with adequate information about the plans, specifications, and requirements of the project in a timely manner, and assist them in responding to your solicitation.
5. Explain your GFE if any, to negotiate in good faith with interested DBEs. Evidence of such negotiations includes documenting:
 - a) the names, addresses and telephone numbers of DBEs that were contacted; b) a description of the information that was provided to DBEs regarding the plans and specifications; and c) detailed explanation for not utilizing individual DBEs on the project.
6. Did you solely rely on price in determining whether to use a DBE? If yes please explain. The fact that there may be additional or higher costs associated with finding and utilizing DBEs are not, by themselves, sufficient reasons for your refusal to utilize a DBE or

NAME and SIGNATURE of AUTHORIZED REPRESENTATIVE of PRIME CONTRACTOR:

DATE:

failure to meet the DBE goal, provided that such additional costs are not unreasonable. Also, the ability or desire to perform a portion of the work with your own forces, that could have been undertaken by an available DBE, does not relieve you of the responsibility to make good faith efforts to meet the DBE goal, and to make available and solicit DBE participation in other areas of the project to meet the DBE goal.

7. Did you reject DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities? If yes, please explain. The DBEs standing within the industry, membership in specific groups, organizations or associates, and political or social affiliation are not legitimate basis for the rejection or non-solicitation of bids from particular DBEs.

8. Explain your GFE to assist interested DBEs in obtaining bonding, lines of credit, or insurance.

9. Explain your GFE if any, to assist interested DBEs in obtaining necessary equipment, supplies, materials or related assistance or services.

10. If you selected a non-DBE over a DBE subcontractor, please provide the quotes of each DBE and non-DBE subcontractor submitted to you for work on the contract; and for each DBE that was contacted but not utilized for a contract, provide a detailed written explanation for each DBE detailing the reasons for not utilizing or allowing the DBE to participate in the contract.

11. Explain your GFE if any, to effectively use the services of available minority/women community organizations, minority/women business groups, contractors' groups, and local, state and federal minority/women business assistance offices or other organizations to provide assistance in recruitment and placement of DBEs.

NAME and SIGNATURE of AUTHORIZED REPRESENTATIVE of PRIME CONTRACTOR:

DATE:



**Disadvantaged Business Enterprise (DBE)
Contract Goal Verification and Good Faith Efforts (GFE)
Documentation For Construction
INSTRUCTIONS**

Project #	Self-explanatory
County	County where project is located
DBE Project Goal	Indicate DBE goal listed in the proposal on P-1
Prime Contractor	Name of prime contractor
Name of Subcontractor, Supplier, Manufacturer, and Trucking Company	Company name of subcontractor, supplier, manufacturer, or trucking firm
DBE (Y/N)	Y for yes and N for no
Bid Item Number and Description	Pay item and description
Approx. Quantity/ Hours	Self-explanatory
Unit	Unit of measure
Unit Price/ Rate	Self-explanatory
Dollar Amount	Total dollar amount committed to subcontractor, supplier, manufacturer, or trucking firm
A. Dollar amount of the work to be performed by DBE subcontractors, manufacturers, and trucking companies, plus 60% of the dollar amount of DBE suppliers	Total amount of DBE participation
B. Sum of all work items less mobilization, force account items, allowance items	List total of work items minus mobilization, force accounts and allowances. DBE credit shall not be given for mobilization, force account items, and allowance items.
A/B = DBE contract goal	Self-explanatory
Name and Signature of Authorized Representative of Prime Contractor	Self-explanatory (Note: bidder must sign and date every page of form.)
Date	Date form is signed
Summary of Good Faith Efforts (GFE)	Complete by answering questions in detail and providing documentation to support how bidder demonstrated good faith efforts to meet the goal, irrespective of whether or not the goal was met.

SURETY BID BOND

Bond No. _____

KNOW ALL BY THESE PRESENTS:

That we, _____
(Full name or legal title of offeror)

as Offeror, hereinafter called the Principal, and

(Name of bonding company)

as Surety, hereinafter called Surety, a corporation authorized to transact business as a Surety in the State of Hawaii, are held and firmly bound unto

(State/county entity)

as Owner, hereinafter called Owner, in the penal sum of

(Required amount of bid security)

Dollars (\$ _____), lawful money of the United States of America, for the payment of which sum well and truly to be made, the said Principal and the said Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS:

The Principal has submitted an offer for _____

(Project by number and brief description)

NOW, THEREFORE:

The condition of this obligation is such that if the Owner shall reject said offer, or in the alternate, accept the offer of the Principal and the Principal shall enter into a contract with the Owner in accordance with the terms of such offer, and give such bond or bonds as may be specified in the solicitation or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof as specified in the solicitation then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed this _____ day of _____, _____

(Seal) _____
Name of Principal (Offeror)

Signature

Title

(Seal) _____
Name of Surety

Signature

Title

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HONOLULU, HAWAII

SAMPLE FORMS

Contract

Performance Bond (Surety)

Performance Bond

Labor and Material Payment Bond (Surety)

Labor and Material Payment Bond

Disclosure of Lobbying Activities (Standard Form - LLL and LLL-A)

Statement of Compliance (Form WH-348)

Chapter 104, HRS Compliance Certificate

C O N T R A C T

THIS AGREEMENT, made this _____ day _____ 20_____, by and between the STATE OF HAWAII, by its Director of Transportation, hereinafter referred to as "STATE," and _____ whose business and/or post office address is _____

_____ hereafter referred to as "CONTRACTOR":

WITNESSETH: That for and in consideration of the payments hereinafter mentioned, the CONTRACTOR hereby covenants and agrees with the STATE to complete in place, furnish and pay for all labor and materials necessary for

or such a part thereof as shall be required by the STATE, the total amount of which labor, material and construction shall be computed at the unit and/or lump sum prices set forth in the attached proposal schedule and shall be the sum of _____ DOLLARS (\$ _____) as follows:

which sum shall be provided from the following fund(s):

all in accordance with the specifications, the special provisions, if any, the notice to bidders, the instructions to bidders, the proposal, and plans for _____, on file in the office of the Director of Transportation. These documents, together with all alterations, amendments, and additions thereto and deductions therefrom, are attached hereto or incorporated herein by reference and made a part of this contract.

The CONTRACTOR hereby covenants and agrees to complete such construction within _____ (_____) working days from the date indicated in the notice to proceed from the STATE subject, however, to such extensions as may be provided for under the specifications.

For and in consideration of the covenants, undertaking and agreements of the CONTRACTOR herein set forth and upon the full and faithful performance thereof by the CONTRACTOR, the STATE hereby agrees to pay the CONTRACTOR the sum of _____ DOLLARS (\$ _____) in lawful money, but not more than such part of the same as is actually earned according to the STATE'S determination of the actual quantities of work performed and materials furnished by the CONTRACTOR at the unit or lump sum prices set forth in the attached proposal schedule. Such payment, including any extras, shall be made, subject to such additions or deductions hereto or hereafter made in the manner and at the time prescribed in the specifications and this contract. In any event, extras shall not exceed _____ DOLLARS (\$ _____) in lawful money and shall be provided from the following fund(s):

Where Federal funds are involved, it is covenanted and agreed by and between the parties hereto that the sums of

shall be paid out of the applicable Federal funds, and that this contract shall be construed to be an agreement to pay said sums to the Contractor only out of the aforesaid Federal funds if and when such Federal funds shall be received from the Federal Government, and that this contract shall not be construed to be a general agreement to pay said portions at all events out of any funds other than those which may be so received from the Federal Government; provided, that if the Federal share of the cost of the project is not immediately forthcoming from the Federal Government, the STATE may advance the CONTRACTOR the anticipated Federal reimbursement of the cost of the completed portions of the work from funds which have been appropriated by the STATE for its pro rata share.

The CONTRACTOR further agrees to execute the attached non-gratuity affidavit form prior to payment of the final estimate by the STATE.

All words used herein in the singular number shall extend to and include the plural. All words used in the plural number shall extend to and include the singular. The use of any gender shall extend to and include all genders.

IN WITNESS WHEREOF, the parties hereto have caused this instrument to be duly executed the day and year first above written.

STATE OF HAWAII

By _____
Director of Transportation

By _____

By _____

APPROVED AS TO FORM

Deputy Attorney General

PERFORMANCE BOND (SURETY)
(6/21/07)

KNOW TO ALL BY THESE PRESENTS:

That _____,
(Full Legal Name and Street Address of Contractor)

as Contractor, hereinafter called Principal, and _____

(Name and Street Address of Bonding Company)

as Surety, hereinafter called Surety, a corporation(s) authorized to transact business as a
surety in the State of Hawaii, are held and firmly bound unto the _____,
(State/County Entity)

its successors and assigns, hereinafter called Obligee, in the amount of _____

_____ DOLLARS (\$ _____), to which payment Principal and Surety bind themselves,
their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by
these presents.

WHEREAS, the above-bound Principal has signed a Contract with Obligee on
_____, for the following project: _____

hereinafter called Contract, which Contract is incorporated herein by reference and made a part
hereof.

NOW THEREFORE, the condition of this obligation is such that:

If the Principal shall promptly and faithfully perform, and fully complete the Contract in
strict accordance with the terms of the Contract as said Contract may be modified or amended
from time to time; then this obligation shall be void; otherwise to remain in full force and effect.

Surety to this Bond hereby stipulates and agrees that no changes, extensions of time, alterations, or additions to the terms of the Contract, including the work to be performed thereunder, and the specifications or drawings accompanying same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, extensions of time, alterations, or additions, and agrees that they shall become part of the Contract.

In the event of Default by the Principal, of the obligations under the Contract, then after written Notice of Default from the Obligees to the Surety and the Principal and subject to the limitation of the penal sum of this bond, Surety shall remedy the Default, or take over the work to be performed under the Contract and complete such work, or pay moneys to the Obligees in satisfaction of the surety's performance obligation on this bond.

Signed this _____ day of _____, _____.

(Seal)

Name of Principal (Contractor)

*

Signature

Title

(Seal)

Name of Surety

*

Signature

Title

***ALL SIGNATURES MUST BE ACKNOWLEDGED
BY A NOTARY PUBLIC**

PERFORMANCE BOND

KNOW ALL BY THESE PRESENTS:

That we, _____
(full legal name and street address of Contractor)

as Contractor, hereinafter called Contractor, is held and firmly bound unto the

(State/County entity)

its successors and assigns, as Oblige, hereinafter called Oblige, in the amount

_____ DOLLARS
(\$ _____),
(Dollar amount of Contract)

lawful money of the United States of America, for the payment of which to the said Oblige, well and truly to be made, Contractor binds itself, its heir, executors, administrators, successors and assigns, firmly by these presents. Said amount is evidenced by:

- Legal Tender;**

- Share Certificate** unconditionally assigned to or made payable at sight to _____
Description: _____;

- Certificate of Deposit, No.** _____, dated _____
issued _____ by _____ drawn on _____ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- Cashier's Check No.** _____, dated _____
drawn _____ on _____ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- Teller's Check No.** _____, dated _____
drawn _____ on _____ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- Treasurer's Check No.** _____, dated _____
drawn _____ on _____ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- Official Check No.** _____, dated _____
drawn _____ on _____ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- **Certified Check No.** _____, dated _____, accepted by a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

WHEREAS:

The Contractor has by written agreement dated _____ entered into a contract with Obligee for the following Project: _____

_____ hereinafter called Contract, which Contract is incorporated herein by reference and made a part hereof.

NOW THEREFORE,

The Condition of this obligation is such that, if Contractor shall promptly and faithfully perform the Contract in accordance with, in all respects, the stipulations, agreements, covenants and conditions of the Contract as it now exists or may be modified according to its terms, and shall deliver the Project to the Obligee, or to its successors or assigns, fully completed as in the Contract specified and free from all liens and claims and without further cost, expense or charge to the Obligee, its officers, agents, successors or assigns, free and harmless from all suits or actions of every nature and kind which may be brought for or on account of any injury or damage, direct or indirect, arising or growing out of the doing of said work or the repair or maintenance thereof or the manner of doing the same or the neglect of the Contractor or its agents or servants or the improper performance of the Contract by the Contractor or its agents or servants or from any other cause, then this obligation shall be void; otherwise it shall be and remain in full force and effect.

AND IT IS HEREBY STIPULATED AND AGREED that suit on this bond may be brought before a court of competent jurisdiction without a jury, and that the sum or sums specified in the said Contract as liquidated damages, if any, shall be forfeited to the Obligee, its successors or assigns, in the event of a breach of any, or all, or any part of, covenants, agreements, conditions, or stipulations contained in the Contract or in this bond in accordance with the terms thereof.

The amount of this bond may be reduced by and to the extent of any payment or payments made in good faith hereunder.

Signed and sealed this _____ day of _____,
_____.

(Seal) _____
Name of Contractor

* _____
Signature

Title

*ALL SIGNATURES MUST BE
ACKNOWLEDGED BY A NOTARY PUBLIC

LABOR AND MATERIAL PAYMENT BOND (SURETY)
(6/21/07)

KNOW TO ALL BY THESE PRESENTS:

That _____,
(Full Legal Name and Street Address of Contractor)

as Contractor, hereinafter called Principal, and _____

(Name and Street Address of Bonding Company)

as Surety, hereinafter called Surety, a corporation(s) authorized to transact business as a surety in the State of Hawaii, are held and firmly bound unto the _____,
(State/County Entity)

its successors and assigns, hereinafter called Oblige, in the amount of _____

_____ Dollars (\$_____), to which payment Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the above-bound Principal has signed Contract with the Oblige on _____ for the following project: _____

hereinafter called Contract, which Contract is incorporated herein by reference and made a part hereof.

NOW THEREFORE, the condition of this obligation is such that if the Principal shall promptly make payment to any Claimant, as hereinafter defined, for all labor and materials supplied to the Principal for use in the performance of the Contract, then this obligation shall be void; otherwise to remain in full force and effect.

1. Surety to this Bond hereby stipulates and agrees that no changes, extensions of time, alterations, or additions to the terms of the Contract, including the work to be performed thereunder, and the specifications or drawings accompanying same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, extensions of time, alterations, or additions, and agrees that they shall become part of the Contract.

2. A "Claimant" shall be defined herein as any person who has furnished labor or materials to the Principal for the work provided in the Contract.

Every Claimant who has not been paid amounts due for labor and materials furnished for work provided in the Contract may institute an action against the Principal and its Surety on this bond at the time and in the manner prescribed in Section 103D-324, Hawaii Revised Statutes, and have the rights and claims adjudicated in the action, and judgment rendered thereon; subject to the Obligee's priority on this bond. If the full amount of the liability of the Surety on this bond is insufficient to pay the full amount of the claims, then after paying the full amount due the Obligee, the remainder shall be distributed pro rata among the claimants.

Signed this _____ day of _____, _____.

(Seal)

Name of Principal (Contractor)

*

Signature

Title

(Seal)

Name of Surety

*

Signature

Title

***ALL SIGNATURES MUST BE ACKNOWLEDGED
BY A NOTARY PUBLIC**

LABOR AND MATERIAL PAYMENT BOND

KNOW ALL BY THESE PRESENTS:

That we, _____
(full legal name and street address of Contractor)

as Contractor, hereinafter called Contractor, is held and firmly bound unto _____
(State/County entity)

its successors and assigns, as Obligee, hereinafter called Obligee, in the amount
_____ DOLLARS (\$ _____),
(Dollar amount of Contract)

lawful money of the United States of America, for the payment of which to the said Obligee, well and truly to be made, Contractor binds itself, its heir, executors, administrators, successors and assigns, firmly by these presents. Said amount is evidenced by:

- Legal Tender;**

- Share Certificate** unconditionally assigned to or made payable at sight to _____
Description: _____

- Certificate of Deposit, No.** _____, dated _____
issued by _____
drawn on _____
a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- Cashier's Check No.** _____, dated _____
drawn on _____
a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- Teller's Check No.** _____, dated _____
drawn on _____
a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- Treasurer's Check No.** _____, dated _____
drawn on _____
a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- Official Check No.** _____, dated _____
drawn on _____
a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

- Certified Check No.** _____, dated _____
accepted by a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to _____;

WHEREAS:

The Contractor has by written agreement dated _____ entered into a contract with Obligee for the following Project: _____

hereinafter called Contract, which Contract is incorporated herein by reference and made a part hereof.

NOW THEREFORE,

The condition of this obligation is such that, if Contractor shall promptly and faithfully perform the Contract in accordance with, in all respects, the stipulations, agreements, covenants and conditions of the Contract as it now exists or may be modified according to its terms, free from all liens and claims and without further cost, expense or charge to the Obligee, its officers, agents, successors or assigns, free and harmless from all suits or actions of every nature and kind which may be brought for or on account of any injury or damage, direct or indirect, arising or growing out of the doing of said work or the repair or maintenance thereof or the manner of doing the same or the neglect of the Contractor or its agents or servants or the improper performance of the Contract by the Contractor or its agents or servants or from any other cause, then this obligation shall be void; otherwise it shall be and remain in full force and effect.

AND IT IS HEREBY STIPULATED AND AGREED that suit on this bond may be brought before a court of competent jurisdiction without a jury, and that the sum or sums specified in the said Contract as liquidated damages, if any, shall be forfeited to the Obligee, its successors or assigns, in the event of a breach of any, or all, or any part of, covenants, agreements, conditions, or stipulations contained in the Contract or in this bond in accordance with the terms thereof.

AND IT IS HEREBY STIPULATED AND AGREED that this bond shall inure to the benefit of any and all persons entitled to file claims for labor performed or materials furnished in said work so as to give any and all such persons a right of action as contemplated by Sections 103D-324(d) and 103D-324(e), Hawaii Revised Statutes.

The amount of this bond may be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payments of mechanics' liens which may be filed of record against the Project, whether or not claim for the amount of such lien be presented under and against this bond.

Signed this _____ day of _____, _____.

(Seal) _____
Name of Contractor

* _____
Signature

Title

*ALL SIGNATURES MUST BE
ACKNOWLEDGED BY A NOTARY PUBLIC

DISCLOSURE OF LOBBYING ACTIVITIES
 Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
 (See reverse for public burden disclosure.)

Approved by
 0348-0046

1. Type of Federal Action: <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	2. Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	3. Report Type: <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change For Material Change Only: year _____ quarter _____ date of last report _____
4. Name and Address of Reporting Entity: <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, <i>if known</i> : Congressional District, <i>if known</i> :		5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime Congressional District, <i>if known</i> :
6. Federal Department/Agency:	7. Federal Program Name/Destination: CFDA Number, <i>if applicable</i> :	
8. Federal Action Number, <i>if known</i> :	9. Award Amount, <i>if known</i> : \$	
10. a. Name and address of Lobbying Entity (if individual, last name, first name, MI):		b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI):
(attach Continuation Sheet(s) SF-LLL-A, if necessary)		
11. Amount of Payment (<i>check all that apply</i>): \$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned	13. Type of Payment (<i>check all that apply</i>): <input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other; specify: _____	
12. Form of Payment (<i>check all that apply</i>): <input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ value _____		
14. Brief Description of Services Performed or to be Performed and Date(s) of Service, including officer(s), employees(s) or Member(s) contacted, for Payment Indicated in Item 11: (attach Continuation Sheet(s) SF-LLL-A, if necessary)		
15. Continuation Sheet(s) SF-LLL-A attached: <input type="checkbox"/> Yes <input type="checkbox"/> No		
16. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature: _____ Print Name: _____ Title: _____ Telephone No.: _____ Date: _____	
Federal Use Only:		Authorized for Local Reproduction Standard Form - LLL

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Use the SF-LLL-A Continuation Sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee", then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal Agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10.
 - (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influence the covered Federal action.
 - (b) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
14. Provide a specific and detailed description of the services that the lobbyist has performed, or will be expected to perform, and the date(s) of any services rendered. Include all preparatory and related activity, not just time spent in actual contact with Federal officials. Identify the federal official(s) or employee(s) contacted or the officer(s), employee(s), or Member(s) or Congress that were contacted.
15. Check whether or not a SF-LLL-A Continuation Sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction (0348-0046), Washington, D.C. 20503.

DISCLOSURE OF LOBBYING ACTIVITIES
CONTINUATION SHEET

Approved by
0348-0046

Reporting Entity: _____ Page _____ of _____

STATEMENT OF COMPLIANCE

Date _____

I, _____ do hereby state:

(Name of signatory party) (Title)
(1) That I pay or supervise the payment of the persons employed by _____ on
(Contractor or subcontractor)
the _____; that during the payroll period commencing on the _____ day of _____,
(Building or work)
_____ and ending the _____ day of _____, all persons employed on said project have been paid the
full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said
_____ from the full weekly wages earned by any person and that no deductions have
(Contractor or subcontractor)
been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in
Regulations, Part 3 (29 CFR Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948.63
Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. 2760), and described below:

(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborers or mechanic conform with the work he performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.

(4) That:

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS

In addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above-
Referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to
appropriate program for the benefit of such employees, except as noted in Section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

Each Laborer or mechanic listed in the above referenced payroll has been paid as indicated on the payroll, an
amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe
benefits as listed in the contract, except as noted in Section 4(c) below.

(c) EXCEPTIONS

EXCEPTION (CRAFT)	EXPLANATION
REMARK	

NAME AND TITLE	SIGNATURE
THE WILFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 231 OF TITLE 31 OF THE UNITED STATES CODE.	

INSTRUCTIONS FOR PREPARATION OF STATEMENT OF COMPLIANCE

This statement of compliance meets needs resulting from the amendment of the Davis-Bacon Act to include fringe benefits provisions. Under this amended law, the contractor is required to pay fringe benefits as predetermined by the Department of Labor, in addition to payment of the minimum rates. The contractor's obligation to pay fringe benefits may be met by payment of the fringes to the various plans, funds, or programs or by making these payments to the employees as cash in lieu of fringes.

The contractor should show on the face of his payroll all monies paid to the employees whether as basic or as cash in lieu of fringes. The contractor shall represent in the statement of compliance that he is paying to others fringes required by the contract and not paid as cash in lieu of fringes. Detailed instructions follow:

Contractors who pay all required fringe benefits:

A contractor who pays fringe benefits to approved plans, funds, or programs in amounts not less than were determined in the applicable wage decision of the Secretary of Labor shall continue to show on the face of his payroll the basic cash hourly rate and overtime rate paid to his employees, just as he has always done. Such a contractor shall check paragraph 4(a) of the statement to indicate that he is also paying to approved plans, funds, or programs not less than the amount predetermined as fringe benefits for each craft. Any exception shall be noted in Section 4(c).

Contractors who pay no fringe benefits:

A contractor who pays no fringe benefits shall pay to the employee and insert in the straight time hourly rate column of his payroll an amount not less than the predetermined rate for each classification plus the amount of fringe benefits determined for each classification in the applicable wage decision. Inasmuch as it is not necessary to pay time and a half on cash paid in lieu of fringes, the overtime rate shall be not less than the sum of the basic predetermined rate, plus the half time premium on the basic or regular rate plus the required cash in lieu of fringes at the straight time rate. To simplify computation of overtime, it is suggested that the straight time basic rate and cash in lieu of fringes be separately stated in the hourly rate column, thus \$3.25/.40. In addition, the contractor shall check paragraph 4(b) of the statement to indicate that he is paying fringe benefits in cash directly to his employees. Any exceptions shall be noted in Section 4(c).

Use of Section 4(c), Exceptions

Any contractor who is making payment to approved plans, funds, or programs in amounts less than the wage determination requires is obliged to pay the deficiency directly to the employees as cash in lieu of fringes. Any exceptions to Section 4(a) or 4(b), whichever the contractor may check, shall be entered in Section 4(c). Enter in the Exception column the craft, and enter in the Explanation column the hourly amount paid the employees as cash in lieu of fringes, and the hourly amount paid to plans, funds, or programs as fringes.

CHAPTER 104, HRS COMPLIANCE CERTIFICATE

The undersigned bidder does hereby certify to the following:

1. Individuals engaged in the performance of the contract on the job site shall be paid:

A. Not less than the wages that the director of labor and industrial relations shall have determined to be prevailing for corresponding classes of laborers and mechanics employed on public works projects; and

B. Overtime compensation at one and one-half times the basic hourly rate plus fringe benefits for hours worked on Saturday, Sunday, or a legal holiday of the State or in excess of eight hours on any other day.

2. All applicable laws of the federal and state governments relating to workers' compensation, unemployment compensation, payment of wages, and safety shall be fully complied with.

DATED at Honolulu, Hawaii, this _____ day of _____, 20__.

«CONTRACTOR»
Name of Corporation, Partnership, or Individual

Signature and Title of Signer

Notary Seal
NOTARY ACKNOWLEDGEMENT

Subscribed and sworn before me this _____ day of _____
Notary signature _____
Notary public, State of _____
My Commission Expires: _____

Notary Seal
NOTARY CERTIFICATION

Doc. Date: _____ #Pages: _____
Notary Name: _____ Circuit _____
Doc. Description: _____

Notary signature _____
Date _____