

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

ADDENDUM NO. 1

For

**PAVEMENT REPAIRS
AT VARIOUS LOCATIONS
ISLAND OF HAWAII
HWY- HM- 2012- 03**

The following amendments shall be made to the Bid Documents:

1. Special Provisions

- a. Replace existing Section 110 – Pavement Repair at Various Locations, dated 3/28/2012, with new Section 110 – Pavement Repair at Various Locations, dated 4/19/2012.
- b. Replace existing Section 416 – Scarify Existing Pavement, dated 2/10/2012, with new Section 416 – Scarify Existing Pavement, dated 4/19/2012.

2. Proposal

- a. Replace existing Proposal Pages P-14 to P-15 dated 3/13/2012 with new Proposal Pages P-14 to P-15 dated 4/19/2012.

3. Pre Bid Minutes

- 1. Attached are the April 19, 2012 Pre-Bid Meeting Minutes and Attendance Sheet for your information.

Please acknowledge receipt of this Addendum No.1 by recording the date of its receipt in the space provided on page P- 4 of the Proposal.



GLENN M. OKIMOTO, Ph.D.
Director of Transportation

1 **SECTION 110 - PAVEMENT REPAIR AT VARIOUS LOCATIONS**
2

3 **110.01 Scope of Work.** The work shall consist of furnishing all labor,
4 necessary equipment, materials and traffic control, to repair pavement at various
5 locations as requested. All work shall be performed in a professional manner
6 and in accordance with this document. All asphalt and asphalt concrete base
7 debris shall be removed daily at all locations. See Section 110.03 - Area of
8 Coverage.
9

10 The Contractor shall work as directed by the Highways Division's Hawaii
11 District Maintenance Superintendent. The Contractor, as per Section 110.04
12 Safety and Convenience, shall provide traffic control and its cost shall be inclusive
13 of asphalt concrete pavement work cost.
14

15 Pavement repair shall consist of one of the following:
16

17 **1. 1-1/2" Hot Mix Asphalt Pavement.** Cold plane damaged or
18 deteriorated pavement areas 1-1/2 inches and resurface with new 1-1/2
19 inches Hot Mix Asphalt (HMA) Pavement, Mix No. IV. The minimum width
20 of the cold planed area shall be nine (9.0') feet wide to include both vehicle
21 wheel ruts in the reconstructed area. The new resurfaced finish grade shall
22 be the existing road grade. Pavement surface that varies more than 3/16
23 inch from testing edge of straightedge between two contacts exceeds
24 surface tolerance.
25

26 Schedule the work so that the areas are resurfaced before the
27 completion of the day's work.
28

29 **2. 3" Hot Mix Asphalt Pavement.** Cold plane damaged or
30 deteriorated pavement areas 3 inches and resurface with new 3 inches Hot
31 Mix Asphalt (HMA) Pavement, Mix No. IV. The minimum width of the cold
32 planed area shall be nine (9.0') feet wide, to include both vehicle wheel ruts
33 in the reconstructed area. The new resurfaced finish grade shall be the
34 existing road grade. Pavement surface that varies more than 3/16 inch
35 from testing edge of straightedge between two contacts exceeds surface
36 tolerance.
37

38 Schedule the work so that the areas are resurfaced before the
39 completion of the day's work.
40

41 **3. 4" Hot Mix Asphalt Pavement.** Cold plane damaged or
42 deteriorated pavement areas 4 inches and resurface with new 4 inches Hot
43 Mix Asphalt (HMA) Pavement, Mix No. IV. The minimum width of the cold
44 planed area shall be nine (9.0') feet wide, to include both vehicle wheel ruts
45 in the reconstructed area. The new resurfaced finish grade shall be the
46 existing road grade. Pavement surface that varies more than
47 3/16 inch from testing edge of straightedge between two contacts

exceeds surface tolerance.

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

4. Reconstruction of Weakened Pavement Areas. Excavate at a depth of 6-1/2 inches, backfill the excavated weakened pavement areas with 5 inches Hot Mix Asphalt Base Course, and resurface with 1-1/2 inches HMA Pavement, Mix No. IV. The new resurfaced finish grade shall be the existing road grade. Pavement surface that varies more than 3/16 inch from testing edge of straightedge between two contacts exceeds surface tolerance.

See Figure 1, for Typical Reconstruction Area.

5. Scarify Existing Pavement. Scarify pavement as directed. The intention of his work is to enhance skid resistance on the highway. Scarifying shall be parallel to the direction of traffic flow, shall be accomplished with a cold planer, and at an amplitude not to exceed one-quarter inch (1/4") or as directed by the State Highways supervisor. The pavement shall be scarified at a width of 10-feet on the travel way only, and all existing pavement markings shall be preserved (in other words, scarify between the yellow and white stripes only). A seal coat of emulsified asphalt, diluted with water at a ratio of 1:1, shall be applied to the scarified areas.

6. Cut Cores in Existing Pavement. Cut four-inch (4") diameter sample cores to the full depth of the existing pavement. The intention of this work is to determine the condition of the underlying pavement structure and base. The number of cores and the location of the sampling shall be as directed. The core hole shall be filled with hot mix AC of the type used in the paving of the section being repaired.

If existing pavement marking are removed during pavement repair or other work done under this contract, the Contractor shall install temporary pavement markings.

110.02 Contract Period and Option to Extend. The period of the contract shall be for 12 months commencing from the date indicated in the "Notice to Proceed" from the Department. There is an option to extend for 2 additional 12 month periods, without re-bidding, upon mutual agreement in writing prior to the contract expiration date, provided the initial bid price remains the same. The maximum contract period is 36 months.

95 Failure by the Contractor to execute the amendment to extend the
96 contract within the number of days specified under Section 103.07 Failure to
97 Execute Contract may be cause for cancellation of the written agreement to
98 extend the contract and may be subject to disqualification from bidding future
99 projects for a 2 year period in accordance with Section 102.12 Disqualification
100 of Bidders.

101
102 **110.03 Area of Coverage.** The project requires the Contractor to repair
103 pavement at various locations on the Island of Hawaii. Work shall be grouped
104 into two (2) areas along the corresponding routes as shown on the attached map
105 of the Island of Hawaii (Figure 3). Note: There are numerous side streets with or
106 without route numbers along State highways where State Jurisdiction extends
107 various distances into side streets. The two areas are:

108
109 (A) **Area 1:** Area 1 is comprised of all of the State Highways on the
110 **EAST** Island of Hawaii in the Districts of Hamakua, North Hilo,
111 South Hilo, Puna, and Kau, from the district
112 boundary at the 52.0 mile marker on Highway 19 at
113 Ahualoa Road in the vicinity of Waimea, to the district
114 boundary at the 82.6 mile marker on Highway 11 in Kau,
115 and includes State Route 240, Honoka'a Waipio Road,
116 and State Route 220, Akaka Falls Road.

117
118 (B) **Area 2:** Area 2 is comprised of all the State Highways on the
119 **WEST** Island of Hawaii in the Districts of North Kohala,
120 South Kohala, North Kona, and South Kona, from the
121 district boundaries on Highway 19 and Highway 190 in
122 the vicinity of Waimea to the district boundary on
123 Highway 11 at the 86.2 mile marker in Kau, and includes
124 all of State Routes 250, 270, and 160.

125
126 **110.04 Safety and Convenience.** The Contractor shall at all times conduct
127 his work to assure the least possible obstruction to public traffic. The Safety
128 and convenience of the general public and the protection of persons and
129 property is of utmost importance, and the Contractor shall provide appropriate
130 traffic control and safety measures. The Contractor and his employees shall
131 treat members of the public in a fair and polite manner. Workers shall present
132 a professional appearance and conduct themselves in a professional manner at
133 all times.

134
135 All Traffic control and safety measures shall be done in conformance with
136 the "Administrative Rules of Hawaii Governing the Use of Traffic Control Devices
137 at Work Sites on or Adjacent to Public Streets and Highways" adopted by the
138 Director of Transportation, and the current U.S. Federal Highway Administration
139 "Manual on Uniform Traffic Control Devices (MUTCD), 2003 Edition, including
140 Revision 1 dated August 31, 2004. Costs for traffic control shall include set-up
141 and removal of all signs, cones, delineators, barricades, flag persons, police

officers, arrow boards, etc., and shall be included in the pavement repair proposal price. See Section 645 – Work Zone Traffic Control.

Do not close traffic lanes or slow down traffic during the following peak hours:

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 is daily except Saturdays, Sundays and holidays.

Night work is not required for this project, but may be considered on a case-by-case basis if in the best interests of all concerned.

The Contractor must notify all private property owners in the vicinity where pavement repair is performed in the event that pavement repair may hinder access to their property. The Contractor must also secure permission prior to entering private property in order to repair pavement.

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. Normal working days and hours for the project are defined as Monday through Friday, 8:30 A.M. to 3:00 P.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. A work order (see Figure 2) shall be issued for all pavement repair work. The work order shall indicate the location of the prospective repair by route number, section, and mile marker. The area and nature of the work shall be as indicated on the form. BMP's shall be as required in the contractor's Permit to Work On State Highways. Additional BMP's such as snake bags will be required to protect drainage structures such as drywells and culverts within the work zone. All work shall be coordinated by Mr. Theodore Miller, Hawaii Highways Division Maintenance Superintendent, Hawaii District Office, 50 Makaala Street, Hilo, Hawaii 96720. Work shall not

188 be performed unless the Contractor receives an approved work order. The
189 Superintendent shall authorize any increases in total price.
190

191
192 **110.08 Basis of Payment.** Payment shall be made by purchase order.
193 The Contractor shall submit monthly progress payments to the Hawaii District
194 Office, 50 Makaala Street, Hilo, Hawaii 96720, if services are rendered.
195 (See Subsection 109.08 Progress Payments).
196

197
198 **END OF SECTION 110**

1 Make this section part of the Standard Specifications.

2
3 **"SECTION 416 – SCARIFY EXISTING PAVEMENT**

4
5 **416.01 Description.** This section is for removing specified thickness of
6 existing pavement by cold planing according to the contract. The intention
7 of this work is to enhance skid resistance on the highway.

8 **416.02 Materials.** None specified.

9
10 **416.03 Construction Requirement.**

11
12 **(A) Equipment.** The equipment used for scarifying the existing
13 pavement may be either equipment specifically designed for this
14 purpose, or may be equipment similar to or the same as the
15 equipment used for Section 415 – Cold Planing of Existing
16 Pavement.

17
18 **(B) Planed Surface and Removed Material.** Scarifying shall be
19 done at an amplitude not to exceed one quarter inch (1/4") or as
20 directed by the Highways supervisor. Scarifying shall be parallel
21 to the direction of traffic and shall be done so that the existing
22 pavement markings remain (in other words, scarify between the
23 yellow and white stripes only). The surface produced shall be
24 such that a 10-foot straight edge laid longitudinally and laterally
25 shall have variances of less than 0.50 inch (except in crown area).
26 The removed material shall be stockpiled at a location specified
27 by the Highways supervisor. Scarify the entire width of the lane
28 specified in one day.

29
30 **(C) Vacuum Sweeping.** Vacuum sweep the scarified areas
31 immediately after scarifying. The vacuum sweep shall not
32 preclude dust control operations.

33
34 **(D) Seal Coat.** The contractor shall spray a seal coat of emulsified
35 asphalt (SS-1 or CSS-1) to the scarified areas. The material
36 shall be diluted with water at a ratio of 1:1.

37
38 **416.04 Measurement.** The Engineer will measure the scarified pavement
39 per square yard.

40
41
42 **416.05 Payment.** The Engineer will pay for the accepted scarified
43 pavement at the contract unit price per square yard complete
44 and in place. "
45

46 **END OF SECTION 416**

HWY-HM-2012-03

416-1a

4/19/2012

PAVEMENT REPAIR AT VARIOUS LOCATIONS
Area 1
Island of Hawaii
Project No. HWY-HM-2012-03

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
401.0400	1-1/2" HMA Pavement, Mix No. IV			
401.0400 - a	Less Than 1,760 Square Yards	1	S.Y.	\$ _____
401.0400 - b	1,761 - 5,280 Square Yards	1	S.Y.	\$ _____
401.0400 - c	5,281 - 12,320 Square Yards	1	S.Y.	\$ _____
401.0400 - d	Over 12,320 Square Yards	1	S.Y.	\$ _____
401.0500	3" HMA Pavement, Mix No. IV			
401.0500 - a	Less Than 1,760 Square Yards	1	S.Y.	\$ _____
401.0500 - b	1,761 - 5,280 Square Yards	1	S.Y.	\$ _____
401.0500 - c	5,281 - 12,320 Square Yards	1	S.Y.	\$ _____
401.0500 - d	Over 12,320 Square Yards	1	S.Y.	\$ _____
401.0600	4" HMA Pavement, Mix No. IV			
401.0600 - a	Less Than 1,760 Square Yards	1	S.Y.	\$ _____
401.0600 - b	1761 - 5280 Square Yards	1	S.Y.	\$ _____
401.0600 - c	5,281 - 12,300 Square Yards	1	S.Y.	\$ _____
401.0600 - d	Over 12,320 Square Yards	1	S.Y.	\$ _____
414.0100	Reconstruction of Weakened Pavement Areas			
414.0100 - a	Less Than 250 Square Yards	1	S.Y.	\$ _____
414.0100 - b	251 - 500 Square Yards	1	S.Y.	\$ _____
414.0100 - c	501 - 750 Square Yards	1	S.Y.	\$ _____
414.0100 - d	Over 750 Square Yards	1	S.Y.	\$ _____
416.0100	Scarify Existing Pavement	1	S.Y.	\$ _____
417.0100	Cut Cores in Existing Pavement	1	Each	\$ _____
645.1000	Electronic Message Board (per day)	1	Each	\$ _____
SUM OF ALL ITEMS FOR COMPARISON OF BIDS - AREA 1				\$ _____

PAVEMENT REPAIR AT VARIOUS LOCATIONS
Area 2
Island of Hawaii
Project No. HWY-HM-2012-03

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
401.0400	1-1/2" HMA Pavement, Mix No. IV			
401.0400 - a	Less Than 1,760 Square Yards	1	S.Y.	\$ _____
401.0400 - b	1,761 - 5,280 Square Yards	1	S.Y.	\$ _____
401.0400 - c	5,281 - 12,320 Square Yards	1	S.Y.	\$ _____
401.0400 - d	Over 12,320 Square Yards	1	S.Y.	\$ _____
401.0500	3" HMA Pavement, Mix No. IV			
401.0500 - a	Less Than 1,760 Square Yards	1	S.Y.	\$ _____
401.0500 - b	1,761 - 5,280 Square Yards	1	S.Y.	\$ _____
401.0500 - c	5,281 - 12,320 Square Yards	1	S.Y.	\$ _____
401.0500 - d	Over 12,320 Square Yards	1	S.Y.	\$ _____
401.0600	4" HMA Pavement, Mix No. IV			
401.0600 - a	Less Than 1,760 Square Yards	1	S.Y.	\$ _____
401.0600 - b	1761 - 5280 Square Yards	1	S.Y.	\$ _____
401.0600 - c	5,281 - 12,300 Square Yards	1	S.Y.	\$ _____
401.0600 - d	Over 12,320 Square Yards	1	S.Y.	\$ _____
414.0100	Reconstruction of Weakened Pavement Areas			
414.0100 - a	Less Than 250 Square Yards	1	S.Y.	\$ _____
414.0100 - b	251 - 500 Square Yards	1	S.Y.	\$ _____
414.0100 - c	501 - 750 Square Yards	1	S.Y.	\$ _____
414.0100 - d	Over 750 Square Yards	1	S.Y.	\$ _____
416.0100	Scarify Existing Pavement	1	S.Y.	\$ _____
417.0100	Cut Cores in Existing Pavement	1	Each	\$ _____
645.1000	Electronic Message Board (per day)	1	Each	\$ _____
SUM OF ALL ITEMS FOR COMPARISON OF BIDS - AREA 2				\$ _____

DEPARTMENT OF TRANSPORTATION
MEMORANDUM FOR THE RECORD

DATE: April 19, 2012

HIGHWAYS
DIVISION
HAWAII DISTRICT
BRANCH OR SECTION

NON-MANDATORY PRE-BID CONFERENCE for:

PAVEMENT REPAIRS
AT VARIOUS LOCATIONS
HWY-HM-2012-03

DATE, TIME & PLACE:

April 19, 2012, 11:00 a.m., Hawaii District Office (50 Makaala St., Hilo, HI. 96720)

PARTICIPANTS:

See attached Sign-In Sheet

BRIEF SUMMARY OF MEETING:

1. Question: Do we get paid for mobilization?
Response: There is no separate bid item for mobilization; therefore, the cost of mobilization should be calculated for each bid item.
2. Question: What about BMP's?
Response: see Addendum No.1, Special Provisions Section 110.07 for BMP requirements.

Meeting adjourned at 12:00 p.m.

