

1 Make this section part of the standard specifications:
2

3 **“SECTION 110 – PAVEMENT REPAIR AT VARIOUS LOCATIONS**
4

5 **110.01 Scope of Work.** The work shall consist of furnishing all labor, necessary
6 equipment, materials and traffic control, to repair pavement at various locations as
7 requested. All work shall be performed in a professional manner in accordance with
8 current practices and this document. All asphalt and asphalt concrete base debris shall
9 be removed daily at all locations. See Section 110.03 – Area of Coverage.
10

11 The Contractor shall work as directed by the Highways Division’s Kauai District
12 Project Engineer. The Contractor, as per Section 110.04 Safety and Convenience,
13 shall provide traffic control and its cost shall be inclusive of asphalt concrete pavement
14 work cost.
15

16 The Contractor shall possess an “A” General Engineering Contractor’s license, or
17 a “C-3” or “C-3a” license for the full term of the contract, and shall have possessed the
18 license and have performed similar work for at least two years prior to the bid date.
19 Failure to meet this requirement shall be cause for disqualification.
20

21 Pavement repair shall consist of one of the following:
22

23 **A.. 2-1/4” Hot Mix Asphalt Pavement.** Cold plane damaged or deteriorated
24 pavement areas 2-1/4 inches and resurface with new 2-1/4 inches Hot Mix
25 Asphalt (HMA) Pavement, Mix No. IV. Place new asphalt pavement to match
26 existing grade.
27

28 Schedule the work so that all cold planed areas are resurfaced before the
29 completion of the day's work.
30

31 **B.. Reconstruction of Weakened Pavement Areas.** Excavate to a depth
32 of 8 inches. Compact exposed untreated aggregate base course by adjusting
33 the moisture content to a level suitable for compaction and using compression-
34 type rollers at speeds less than 6 feet per second and vibratory rollers at speeds
35 less than 3 feet pe second. compact each layer of material full width with one of
36 the following until there is no visible evidence of further consolidations:
37

38 (1) Four roller passes of a vibratory roller having a minimum dynamic
39 force of 40,000 pounds impact per vibration and a minimum frequency of
40 1000 vibrations per minute.
41

42 (2) Eight roller passes of a 20-ton compression type roller;
43

44 (3) Eight roller passes of a vibratory roller having a minimum dynamic
45 force of 30,000 pounds per impact per vibration and a minimum frequency
46 of 1000 vibrations per minute.
47

Backfill to the original profile grade and cross slope with Hot Mix Base Course and HMA Pavement Mix No. IV to meet Figure 1, Typical Reconstruction Area.

Backfill excavated areas with either Hot Mix Base Course or HMA pavement Mix IV to the original profile grade and cross slope at the completion of each day's work. Remove and replace the top 2 ¼" of Hot Mix Base Course used to temporarily backfill to the original profile grade and cross slope when placing the final surface course.

Install either temporary or permanent pavement markings at the end of each working day. If temporary pavement markings are placed, install permanent markings within 7 calendar days. Removal of existing markings, installing and removing temporary markings, and installing permanent markings will not be measured for payment and is subsidiary to other contract items.

Schedule the work so that the excavated areas are backfilled with either Hot Mix Base Course or HMA pavement Mix No. IV before the completion of the day's work.

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 two 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.

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

110.03 Area of Coverage. The project requires the Contractor to repair pavement at various locations on the Island of Kauai. Work shall be grouped into three areas along with the corresponding routes as shown on the attached map of the island of Kauai (Figure 2). Note: There are numerous side streets with or without route numbers along State highways where State Jurisdiction extends various distances into side streets. The three areas are:

(A) Area 1*:

Route 50	Kaumualii Highway
Route 51	Kapule Highway
Route 56	Kuhio Highway
Route 58	Nawiliwili Road
Route 570	Ahukini road

(B) **Area 2:**

Route 540 Halewili Road
Route 541 Waialo Road
Route 580 Kuamoo Road
Route 583 Maalo Road
Route 5600 Temporary Kapaa Bypass Road

(C) **Area 3:**

Route 550 Waimea canyon Drive/Kokee Road
Route 560 Kuhio Highway

*Note: Night work is required for Area 1. Refer to Section 110.04 – Safety and Convenience

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

All Traffic Control and safety measures shall be done in conformance with the “Administrative Rules of Hawaii Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways” adopted by the Director of Transportation, and the current U.S. Federal Highway Administration “Manual on Uniform Traffic Control Devices (MUTCD), 2003 Edition, including Revision 1 dated August 31, 2004. Costs for traffic control shall include set-up and removal of all signs, cones, delineators, barricades, flag persons, police officers, arrow boards, etc., and shall be included in the sign replacement proposal price. See Section 645 – Traffic Control Devices.

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.

For Area 1, all work which requires the closure of lanes shall be performed at night. Night work shall be done from 9:00 P.M. to 5:00 A.M. of the following day. No night work is permitted from September 15 through December 15.

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 shall 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. Normal Working hours for Work Area 1 is defined as 9:00 P.M. to 5:00 A.M., as specified under Section 110.04. Refer to Section 645 – Work Zone Traffic Control. Authorized Highways personnel will contact the Contractor to schedule work, as needed. All work shall be performed during normal working hours.

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. At the direction of the Engineer, the Contractor shall prepare a work order (Figure 3) for each pavement repair or group of pavement repairs in the same location. The work order shall also include the construction time schedule. At certain work sites, erosion control plans or BMP plans will be requested by the Engineer. Submit the work order for approval to the Highways Division Kauai District Maintenance Engineer, Kauai District Office, 1720 Haleukana Street, Honolulu, Hawaii 96819. Work shall not be performed unless the Contractor receives an approved work order

110.08 Basis of Payment. Payment shall be made by purchase order. The Contractor shall submit monthly progress payment requests to the Kauai District Office, 1720 Haleukana Street, Lihue, Hawaii 96766, if services are rendered. (See Subsection 109.08 - Progress Payments)."

END OF SECTION 110