

## ARTICLE XIV – PAVEMENT REPAIRS

14.1 GENERAL - The work to be done under this Article consists of furnishing all labor, materials, equipment and other expenses necessary to repair existing damaged asphalt pavement at the Young Bros. storage yard, Kaunakakai Harbor, Molokai.

### 14.2 MATERIALS

- A. Bituminous Tack Coat – Bituminous tack coat shall be a slow-setting emulsified asphalt, Type SS1-H, conforming to Section 407 of the Standard Specifications.
- B. Hot Mix Asphalt Base Course – Hot mix asphalt base course shall conform to Section 301 of the Standard Specifications.
- C. Hot Mix Asphalt Pavement – Hot mix asphalt pavement shall be Mix IV conforming to Section 401 of the Standard Specifications.

### 14.3 CONSTRUCTION CRITERIA

- A. The finished pavement shall be constructed to maintain the existing drainage patterns as shown on the drawing.
- B. The completed thickness of the pavement overlay varies. Uniform slopes shall be maintained on the finished pavement surfaces. Thinner and thicker pavement surfaces shall be provided to maintain uniform slopes, fill low spots, and minimize ponding.
- C. Where more than one course of new asphalt pavement is placed, a tack coat shall be provided between each course.
- D. The new pavement shall be placed to provide a smooth riding transition between the new pavement and the existing area.
- E. The new pavement shall be feathered into existing catch basins, utilities manholes and water valve boxes.

### 14.4 CONSTRUCTION

- A. Pavement Repairs - Pavement repairs shall be constructed as shown on the drawing and as specified herein.
  - 1. The existing asphalt pavement shall be sawcut at the repair limits as shown on the drawing. The existing asphalt pavement material shall be removed to a depth of 8 inches below the existing grade and to the pavement repair limits as shown on the drawing. Existing asphalt pavement and aggregate base course material shall be removed by cold planning in accordance with Section 415.03 of the Standard Specifications. The Contractor shall exercise caution while cold planning

existing pavement material to prevent damage to existing adjacent asphalt pavement, concrete light pole base and footing, and concrete pier apron and pavement. The removed asphalt pavement and aggregate base course material shall be hauled away from the job site and disposed of in a lawful manner by the Contractor.

2. The remaining portion of the existing asphalt pavement shall be cleaned of all loose material, water, dirt, excess dust or objectionable matter.
3. The top layer of the existing aggregate base course material shall be recompacted to at least 95% relative compaction. Results shall be provided to the Construction Engineer. If the material is found to be unsuitable, the material shall be removed and disposed of. New aggregate base course shall be placed and compacted to at least 95% relative compaction.
4. New 4-inch thick HMAB course shall be placed in accordance with Section 301.03 (Construction) "Hot Mix Asphalt Base Course" of the Standard Specifications.
5. Clean the pavement repair area of all loose material, water, dirt, excess dust and other objectionable material.
6. A bituminous tack coat shall be applied on the prepared surface in accordance with Section 407.03 (D) "Application of Tack Coat" of the Standard Specifications.
7. A State Mix IV asphalt leveling course shall be installed at all low spots and uneven surfaces, as directed by the Construction Engineer.
8. New 4-1/2-inch minimum thickness State Mix IV HMA pavement shall be placed in accordance with Section 401.03 (Construction) "Hot Mix Asphalt (HMA) Pavement" of the Standard Specifications. The finished pavement shall be smooth, dense, uniformly graded, and well drained. The pavement shall be placed to meet the criteria in paragraph 14.3 above.
9. The new asphalt pavement shall be allowed to cure for a minimum of one (1) day prior to allowing vehicular traffic or loads on to the new pavement surfaces. The Contractor shall furnish and erect barriers to prevent vehicles from entering the repaired area.

14.5 PAYMENT - Payment for pavement repairs shall be made as specified in Article X of these Specifications.