

INDEX TO CLAUSES

PART 1 - GENERAL

- 1.1 Description
- 1.2 Submission and Design Requirements

PART 2 - PRODUCTS

- 2.1 Materials

PART 3 - EXECUTION

- 3.1 Construction

PART 4 – QUALITY ASSURANCE

- 4.1 General

PART 5 – MEASUREMENT FOR PAYMENT

- 5.1 General

## PART 1 - GENERAL

### 1.1 Description

- .1 Asphalt concrete patching shall consist of supply and placement, by hand or machine, of asphalt concrete under the following conditions.
- .1 Repair and replace asphalt concrete to the grade of the existing asphalt surface, such as potholes, utility trench reinstatement, and cross cuts for culvert installation.
  - .2 Correct depressions in the existing asphalt concrete surface in localized areas.
  - .3 On paving contracts, match the new asphalt concrete surface to the existing pavement beyond the roadway pavement edge such as driveways and intersections with public roads.
  - .4 On paving contracts, prior to the application of a leveling or surface course, match the grade of the existing asphalt concrete surface where the match strip is less than 3 m in width such as matching the edge of pavement to new curb or to an additional lane or new ramp, and a full depth localized repair.
- .2 Patching is defined as Isolated Areas. Individual sections less than 300 m<sup>2</sup> or as directed by the Engineer placed in a continuous operation.
- .3 This standard does not address any safety concerns related to the use of its contents. It is the responsibility of the user of this specification to establish appropriate safe work practices applicable to the work detailed within.

### 1.2 Submissions and Design Requirements

- .1 The Contractor will provide the submissions as required by Section S-1 of the HRM specifications for the asphalt concrete patching materials specified in the Contract for review and acceptance by the Engineer.

## PART 2 - PRODUCTS

### 2.1 Materials

- .1 Asphalt Patching Material
- Asphalt concrete patching materials shall be a Type C-HF or Type D-HF designed to Traffic Category B using a PG 58-28S asphalt cement, or as specified in the Contract.

## PART 3 - EXECUTION

### 3.1 Construction

- .1 Areas where existing asphalt material has been removed shall be swept and/or blown (air pressure) clean of any

- loose debris, leaving clean square edges and a solid foundation.
2. Prior to placing the asphalt concrete patching material, the areas of the existing pavement shall be tack coated per Item 5.5 of Section S-1 of the HRM specifications. All cleaned, exposed areas shall be entirely covered with tack coat per Item 5.5 of Section S-1, which shall be permitted to break prior to the placement of asphalt patching material.
  - .3 After the tack coat has broken (turned from brown to black), the Contractor shall place Asphalt Concrete Patching by machine, wherever possible to ensure a smooth, uniform surface after compaction. Hand placement must be agreed to by the Engineer prior to construction.
  - .4 All new asphalt material shall be placed such that compacted material in place matches the grade of the adjoining existing asphalt pavement surface with a smooth transition, within a tolerance of 6 mm as measured using a 3 m straightedge. All joints shall be properly constructed and compacted such that there are no gaps between the existing asphalt and the new asphalt material.
  - .5 All new asphalt material shall be placed and compacted to 92.5% of the Maximum Theoretical Density determined in accordance with ASTM D3203. At the discretion of the Engineer random core samples may be taken to compare percent compaction measured using a nuclear densometer. Asphalt material shall be placed in lifts (lift thickness dependent on depth of patch) and shall be rolled using both a rubber tire roller to obtain maximum compaction and a steel drum roller to obtain smoothness. Combination rollers are acceptable, provided compaction and smoothness requirements can be achieved.

#### PART 4 – QUALITY ASSURANCE

##### 4.1 General

- .1 HRM will carry out Quality Assurance testing on the asphalt patching material and the constructed patches, as deemed necessary by the Engineer, to monitor compliance with this specification.

#### PART 5 – MEASUREMENT OF PAYMENT

##### 5.1 General

- .1 Payment for all works carried out in accordance with this specification will be paid for per the payment items detailed in Section 01 22 00 Measurement and Payment, of the Contract.

\*\*\*\* END OF SECTION S-17 \*\*\*\*