

## SECTION 7 - ASPHALT CONCRETE PATCHING

### 1.0 DESCRIPTION

Asphalt concrete patching shall consist of the supply and placement, by hand or machine, of asphalt concrete under the following conditions:

- Repair or replace asphalt concrete within the limits and to the grade of existing asphalt concrete surface (ie. pot holes, cross-cuts for culverts).
- Correct depressions in the existing asphalt concrete surface in "isolated areas". Isolated areas shall be defined as individual sections less than 300 m<sup>2</sup> (ie. sags, areas of wheel rutting).
- On repaving contracts, match (blend) existing pavement outside the normal edge of roadway to the grade of the new asphalt concrete surface. (ie. driveways but not to include intersections with public roads).
- On paving contracts, match new asphalt concrete surface to the existing pavement outside the normal edge of roadway. (ie. driveways).
- On paving or repaving 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. (ie. matching the edge of pavement to new curb or to an additional lane or new ramp).

### 2.0 REFERENCES

All reference standards shall be current issue or latest revision at the first date of tender advertisement. This specification refers to the following standards, specifications or publications:

- Division 4 Section 1, Emulsified Asphalt
- Division 4 Section 4, Asphalt Concrete-Hot Mixed-Hot Placed
- Division 4 Section 19, Asphalt Concrete End Product Specification (EPS)

### 3.0 SUBMISSIONS AND DESIGN REQUIREMENTS

### 4.0 MATERIALS

### 5.0 CONSTRUCTION METHODS

Prior to placing the hot mix patching material, the areas of the existing pavement shall be tack coated with RS-1 conforming to Division 4 Section 1.

Asphalt Concrete, Type B, Type B-HF, Type C or Type C-HF conforming to Division 4 Section 4, shall be used for Asphalt Concrete Patching. The Contractor shall place Asphalt Concrete Patching by machine, wherever possible, at the discretion of the Engineer to ensure a smooth, uniform surface after compaction.

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.

All cleaned, exposed areas shall be entirely covered with emulsified asphalt tack, which shall be permitted to cure prior to the placement of asphalt concrete mix. Asphalt Concrete Mix shall be produced in accordance with the Department's Standard Specification, Division 4 Section 4 - Asphalt Concrete Hot Mixed - Hot Placed (Method Specification) or Division 4 Section 19 - Asphalt Concrete End Product Specification.

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 +/-3 mm. All joints shall be properly constructed and compacted such that there are no gaps between the existing asphalt and the new asphalt material.

All new asphalt material shall be placed and compacted to 92.5% of the Maximum Theoretical Density determined in accordance with ASTM D 3203. At the discretion of the Engineer random core samples may be taken to compare measure percent compaction. Asphalt material shall be placed in lifts (lift thickness will depend 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.

### 6.0 QUALITY CONTROL/QUALITY ASSURANCE

### 7.0 METHOD OF MEASUREMENT

The quantity of Asphalt Concrete Patching for which payment will be made shall be the number of tonnes of asphalt concrete placed and accepted by the Engineer.

### 8.0 BASIS OF PAYMENT

Asphalt Concrete Patching will be paid for at the contract unit price per tonne for the Asphalt Concrete actually incorporated and accepted in the work, which price shall be full compensation for furnishing of all materials (except the supply of asphalt cement) blend sand, emulsified asphalt tack, approved anti-stripping additive (if required), heating, handling, transporting, mixing, surface preparation, placing, and rolling of all materials, the supplying of all equipment, plant, labour, and incidentals necessary to complete the work.

The Contractor shall, at his own expense, provide,

install and maintain such approved scales and all suitable facilities as may be required to enable the Engineer to determine accurately the mass of Asphalt Concrete loaded in each truck.

**9.0 WARRANTY**