

SECTION 02510

ASPHALTIC CONCRETE PAVING

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Asphaltic Concrete Paving.

1.2 RELATED SECTIONS

- A. Section 02211 - Rough Grading: Preparation of Site for Paving.
- B. Section 02223 - Backfilling: Compacted Subbase for Paving.
- C. Section 02225 – Trenching.
- D. Section 02231 - Aggregate Base Course.
- E. Section 02575 - Pavement Repair.

1.3 UNIT PRICE - MEASUREMENT AND PAYMENT

- A. Hot Mix Asphalt:
  - 1. Basis of Measurement: At the unit price bid per ton as stated in the proposal.
  - 2. Basis of Payment: Includes all material, equipment and labor as necessary to supply, place, compact, and test the hot mix asphalt for road construction on the prepared aggregate base.

1.4 REFERENCES

- A. Current edition of the MDOT Standard Specifications for Construction.

1.5 QUALITY ASSURANCE

- A. Perform work in accordance with MDOT and Eaton County Road Commission standards.
- B. Mixing Plant: Conform to MDOT standards.
- C. Obtain materials from same source throughout.

1.6 REGULATORY REQUIREMENTS

- A. Conform to applicable code for paving work on public property.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Do not place asphalt when base surface temperature is less than 40° F or surface is wet or frozen.

## 2. PART 2 PRODUCTS

### 2.1 MATERIALS

- A. In accordance with the current MDOT Standard Specifications for Construction and Eaton County Road Commission standards.

### 2.2 ACCESSORIES

- A. Bond Coats: In accordance with MDOT standards.

### 2.3 ASPHALT PAVING MIX

- A. Use dry material to avoid foaming. Mix uniformly.
- B. Leveling Course: MDOT Mix No. 3C.
- C. Wearing Course: MDOT Mix No. 4C.

### 2.4 SOURCE QUALITY CONTROL

- A. Provide mix design for asphalt under provisions of Section 01400 – Quality Control.
- B. Submit proposed mix design of each class of mix for review prior to commencement of Work.
- C. Test samples in accordance with MDOT standards.

## 3. PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify base conditions under provisions of Section 01039 – Coordination and Meetings and Section 02231 – Aggregate Base Course.
- B. Verify that compacted aggregate base is dry and ready to support paving and imposed loads.
- C. Verify gradients and elevations of base are correct.

### 3.2 PREPARATION –BOND COAT

- A. Apply bond coat in accordance with manufacturer's instructions AI MS-2, Eaton County Road Commission, and MDOT standards.
- B. Apply bond coat to contact surfaces of curbs, gutters and existing pavement.
- C. Use clean sand to blot excess primer.

### 3.3 PLACING ASPHALT PAVEMENT - DOUBLE COURSE

- A. Place hot mix asphalt at thicknesses as shown in the plans.
- B. Place hot mix asphalt pavement within 24 hours of applying coat. Bond coat shall be applied far enough ahead of the paving operation to allow it to cure prior to paving.

- C. Place MDOT 3C- Leveling Course - hot mix asphalt at a maximum rate of 3 inches compacted thickness per lift.
- D. Place MDOT 4C – Wearing Course - hot mix asphalt at a maximum rate of 2 1/4 inches compacted thickness per lift.
- E. If the temperature of the previously placed mat falls below 170°F prior to placement of the adjacent mat, apply bond coat to the vertical edge before placing mixture on the adjacent Section.
- F. Install gutter drainage grilles and frames, manhole frames, and valve and monument boxes in correct position and elevation.
- G. Compact pavement by rolling as specified in the current MDOT Standard Specifications. Do not displace or extrude pavement from position. Hand compact in areas inaccessible to rolling equipment.
- H. Develop rolling with consecutive passes to achieve even and smooth finish, without roller marks.

#### 3.4 TOLERANCES

- A. Flatness: Maximum variation of 1/8 inch measured with 10 foot straight edge.
- B. Scheduled Compacted Thickness: Within 1/8 inch.
- C. Variation from True Elevation: Within 1/4 inch.

#### 3.5 FIELD QUALITY CONTROL

- A. Field inspection and testing will be performed under provisions of Section 01400 - Quality Control.
- B. Take samples and perform tests in accordance with and MDOT Standard Specifications for Construction.

#### 3.6 PROTECTION

- A. Immediately after placement, protect pavement from mechanical injury for one day.

END OF SECTION