

## SECTION 32 12 00 - FLEXIBLE PAVING

## PART 1 - GENERAL

## 1.01 DESCRIPTION OF WORK:

- A. Provide and install hot mix asphalt (HMA) pavement as specified and as directed by the ENGINEER. This work includes:
  - 1. HMA pavement including driveways, roadways, trench patches, parking, and sidewalks

## 1.02 REFERENCES:

- A. Specification Sections:
  - 1. Earth Moving: Section 31 20 00
- B. State of Maine Department of Transportation "Standard Specifications," most recent revision
- C. State of Maine Department of Transportation "Supplemental Specifications – Corrections, Additions & Revisions to Standard Specifications – Latest Edition"
- D. AASHTO M320-Standard Specification for PGAB.
- E. City of Portland Technical and Design Standards, latest edition (available online <http://me-portland.civicplus.com/757/Technical-Design-Standards>).

## 1.03 SUBMITTALS:

- A. Material Certificates: Certificates signed by material producer and CONTRACTOR stating that each material complies with specified requirements.
- B. Design Mix: Provide design mix for each grade of pavement to be used at least 20 days prior to start of paving.
- C. Certified Weigh Slips: If required by the ENGINEER, provide for each truck load of bituminous material.

## 1.04 JOB CONDITIONS:

- A. Weather and Seasonal Limitations: Follow MDOT "Standard Specification" Section 401.06.
- B. Tack Coat Limitations:
  - 1. Apply bituminous prime and tack coats only when the ambient temperature in the shade is at least 50°F for 12 hours immediately prior to application.
  - 2. Do not apply when the base surface is wet or contains an excess of moisture which would prevent uniform distribution and the required penetration.

## PART 2 - PRODUCTS

- 2.01 AGGREGATE BASE AND SUBBASE: Refer to Section 31 20 00.

## 2.02 ASPHALT CEMENT:

- A. General: Comply with materials requirements, MDOT "Standard Specification", Section 702.

## 2.03 BITUMINOUS PAVEMENTS:

- A. Comply with materials requirements, MDOT "Standard Specification", current revision, Section 401, Superpave Mixes, used as indicated on the Drawings.
  - 1. HMA 19mm
  - 2. HMA 12.5mm

## 2.04 BITUMINOUS TACK COAT:

- A. General: MDOT "Standard Specifications" Section 702.04.

## 2.05 MARKING PAINT:

- A. General: Alkyd-resin type, ready-mixed complying with AASHTO M 248, Type I.
- B. Color: White for shoulder striping, bicycle lane demarcation, and directional arrows; blue for handicapped parking symbols; yellow for other lane demarcation striping.

## PART 3 - EXECUTION

## 3.01 BASE AND SUBBASE:

- A. General: Do not begin paving operations until base and subbase have been accepted.

## 3.02 BITUMINOUS PAVEMENTS:

- A. General: MDOT Standard Specifications.
- B. Base Course: Section 401.
- C. Surface Course: Section 403.
- D. Saw cuts and butt joints shall be used in existing pavement as indicated on the Drawings to facilitate the installation of new pavement.

## 3.03 BITUMINOUS TACK COAT:

- A. General: Apply tack coat immediately prior to placing pavement adjacent to curbing, gutters, manholes, pavement, etc. for adequate bond. Generally a tack coat will not be required for pavement placed immediately following the rolling of the underlying course.
- B. MDOT Standard Specification Section 409.
- C. Rate of Application: 0.05 to 0.15 gallons per square yard.

## 3.04 TRENCH PATCHING:

A. Permanent Patching:

1. Remove all existing pavement and regrade base material and compact as required.
2. Provide base and surface courses to the depths shown on the Drawings. No surface pavement placement shall be without the prior approval of the ENGINEER.

3.05 TRAFFIC AND PARKING LOT MARKINGS:

- A. Cleaning: Sweep and clean surface to eliminate loose material and dust.
- B. Striping: Use chlorinated-rubber base traffic lane-marking paint, factory-mixed, quick-drying, and non-bleeding.

Do not apply marking paint until layout and placement have been verified with ENGINEER and OWNER.

Apply paint with mechanical equipment to produce uniform straight edges. Apply at manufacturer's recommended rates to provide minimum 12 to 15 mils dry thickness.

END OF SECTION 321200