

SECTION 321216

ASPHALT PAVING

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The Specifications sections “General Conditions to the Construction Contract”, “Special Conditions” and “Division 01 – General Requirements” form a part of this section by this reference thereto and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. Section Includes:
 - 1. Hot-mix asphalt paving.
 - 2. Pavement-marking paint.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include technical data and tested physical and performance properties.
 - 1. Job-Mix Designs: Certification, by authorities having jurisdiction, of approval of each job mix proposed for the Work.
 - 2. Pavement marking paint: product information.

1.4 REFERENCES

- A. Commonwealth of Pennsylvania Department of Transportation, Specification, Publication 408, latest issue; hereinafter referred to as “Specification, Publication 408.”

1.5 QUALITY CONTROL

- A. Manufacturer Qualifications: A paving-mix manufacturer registered with and approved by Pennsylvania Department of Transportation.

- B. Regulatory Requirements: Comply with materials, workmanship, and other applicable requirements of Specification, Publication 408 for asphalt paving work.
 - 1. Measurement and payment provisions and safety program submittals included in standard specifications do not apply to this Section.
- C. Preinstallation Conference: Conduct conference at Project site.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Do not apply asphalt materials if subgrade is wet or excessively damp, if rain is imminent or expected before time required for adequate cure, or if the following conditions are not met:
 - 1. Asphalt Base Course: Minimum surface temperature of 35 deg F and rising at time of placement.
 - 2. Asphalt Surface Course: Minimum surface temperature of 40 deg F at time of placement.
- B. Pavement-Marking Paint: Proceed with pavement marking only on clean, dry surfaces and at a minimum ambient or surface temperature 50 deg F, and not exceeding 95 deg F.

PART 2 - PRODUCTS

2.1 SUPERPAVE BASE COURSE

- A. Superpave base course shall meet the requirements of Specification, Publication 408, Section 309.2.

2.2 SUPERPAVE WEARING COURSE

- A. Superpave wearing course shall meet the requirements of Specification, Publication 408, Section 409.2.

2.3 AUXILIARY MATERIALS

- A. Latex Pavement-Marking Paint:
 - 1. Marking paint shall meet the requirements of Specification, Publication 408, Section 962.2.
 - 2. Color: As indicated on the Drawings.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Proof-roll subgrade below pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
- B. Proceed with paving only after unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

- A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared subgrade is ready to receive paving.

3.3 PLACING SUPERPAVE BASE COURSE

- A. Machine place in a manner that meets the requirements of Specification, Publication 408, Section 309.3.

3.4 PLACING SUPERPAVE WEARING COURSE

- A. Machine place in a manner that meets the requirements of Specification, Publication 408, Section 409.3.

3.5 JOINTS

- A. Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
- B. Construction joints shall meet the requirements of Specification, Publication 408, Section 409.3(k).

3.6 PAVEMENT MARKING

- A. Do not apply pavement-marking paint until layout, colors, and placement have been verified with Architect/Engineer.
- B. Allow paving to age for 30 days before starting pavement marking.
- C. Sweep and clean surface to eliminate loose material and dust.

- D. Apply paint with mechanical equipment in a manner that meets the requirements of Specification, Publication 408, Section 962.3.

3.7 FIELD QUALITY CONTROL

- A. Testing Agency: Contractor will engage a qualified testing agency to perform tests and inspections.
- B. Replace and compact hot-mix asphalt where core tests were taken.
- C. Remove and replace or install additional hot-mix asphalt where test results or measurements indicate that it does not comply with specified requirements.

END OF SECTION 321216