

**SECTION 411**  
**ASPHALT PRIME COAT**

**411.01**      **DESCRIPTION** - The text of this subsection is revised to read as follows:

This work shall consist of applying an emulsified asphalt prime coat of a grade conforming to AASHTO M 140 or ASTM D 977.

**411.02**      **MATERIAL** - Add the following to this subsection:

- a. Emulsified asphalt for the prime coat shall be type SS-1H conforming to the requirements of AASHTO M 140.
- b. Emulsified asphalt 702.03

**CONSTRUCTION REQUIRMENTS**

**411.03**      **EQUIPMENT** - Delete this Subsection to read as follows.

- a. Asphalt Distributor:
  - (1) Capable of heating asphalt evenly;
  - (2) Adjustable full circulation spray bar to 15-foot width;
  - (3) Positive controls including tachometer, pressure gauge, volume measuring device, or calibrated tank to uniformly deposit asphalt over the full width within 0.02 gallons per square yard of the required rate; and
  - (4) Thermometer for measuring the asphalt temperature in the tank.
- b. Rotary Power Broom:
  - (1) Self-propelled; and
  - (2) Capable of controlling the vertical broom pressure.
- c. Pneumatic-Tire Rollers:
  - (1) Self-propelled;
  - (2) Minimum compacting width -5 feet; and
  - (3) Gross weight adjustable within the range of 200 to 360 pounds per inch of compaction width.
- d. Other Equipment: Other equipment of proven performance may be used in addition to or in lieu of the specified equipment when approved by the CO.

**411.06      ASPHALT APPLICATION – Revise the first paragraph to read as follows:**

When required, lightly spray the surface with water before applying prime coat. Apply asphalt at a rate of 0.30 to 0.50 gallons per square yard for optimum penetration.

Add the following to this Subsection to read as follows:

Calibrate the asphalt distributor spray bar height, nozzle angle, and pump pressure and check longitudinal and transverse spread rates weekly according to ASTM D 2995. If different asphalt distributors are used, calibrate each before use on the project. Ensure that the length of the spread is no more than can be covered with aggregate immediately after application.

Protect the surfaces of nearby objects to prevent spattering or marring. Spread building paper on the surface for a sufficient distance from the beginning and end of each application so the flow through the distributor nozzles may be started and stopped on the paper.

The CO will approve the exact application rate, temperature, and area to be treated before application and may make adjustments for variations in field conditions. Apply the asphalt uniformly with an asphalt distributor. Move distributor forward at the proper application speed at the time the spray bar is opened. Use care not to apply excess asphalt at the junction of spreads.

Correct skipped areas or deficiencies. Remove and dispose of pare or other material used.

**411.07      ACCEPTANCE – Delete the second paragraph.**

**411.08      MEASUREMENT - Delete the last paragraph.**

Measure prime coat asphalt including the water added for dilution in place by the square yard.

**411.09      PAYMENT - Add the following to this subsection:**

Payment will be made under:

Pay Item No.	Pay Item	Pay Unit
41101	Asphalt Prime Coat, Grade SS-1H	Square Yard

**END OF SECTION 411**