401-R-736 QC/QA HMA PAVEMENT

(Revised 01-20-22)

The Standard Specifications are revised as follows:

SECTION 401, BEGIN LINE 366, DELETE AS FOLLOWS:

401.11 Preparation of Surfaces to be Overlaid

The subgrade shall be shaped to the required grade and sections, free from all ruts, corrugations, or other irregularities, and uniformly compacted and approved in accordance with 207. Milling of an existing pavement surface shall be in accordance with 306. Surfaces on which a mixture is placed shall be free from objectionable or foreign materials at the time of placement.

~~Prior to placing an open graded mixture, the underlying HMA course shall have a full width base seal applied in accordance with 415. The base seal materials shall be applied within three calendar days after all density cores in accordance with 401.16 have been obtained.~~

SECTION 401, BEGIN LINE 470, DELETE AND INSERT AS FOLLOWS:

All 9.5 mm and 12.5 mm surface mixture longitudinal joints that have the joint adhesive applied shall be sealed using SS-1h*, RPE,* or AE-NT asphalt emulsion in accordance with 902.01(b). The sealing operation shall not begin until all density cores in accordance with 401.16 and 401.20 have been obtained and the installation of pavement corrugations, when specified in accordance with 606, has been completed.

The liquid asphalt sealant shall be a minimum width of 24 in., centered on the joint line, and shall be extended, when necessary, to provide coverage beyond the edge of the pavement corrugation. The sealant shall be applied ~~at an application rate of 0.03 ±0.01 gal./sq yd~~ onto a dry surface, free of any foreign or loose material, using a distributor in accordance with 409.03(a). ~~Areas receiving greater than 0.04 gal./sq yd shall be lightly broomed to reduce the effects of excess sealant on the pavement surface.~~ The sealant temperature at the time of application shall be at least 135°F and shall not exceed 180°F. The ambient air and pavement temperatures at the time of application shall be greater than 32°F.

The application rate of the sealant shall be as follows:

Asphalt Emulsion	*Application Rate* (gal./sq yd)*
SS-1h or AE-NT	*0.03 ±0.01***
RPE	*0.15 ±0.01****

* *The asphalt material shall not be diluted.*

** *Areas receiving greater than 0.04 gal./sq yd shall be lightly broomed to reduce the effects of excess sealant on the pavement surface.*

*** *The application rate shall be reduced when sealing milled corrugations in accordance with 606. The application rate shall be 0.11 ±0.01 gal./sq yd.*

Temporary pavement markings in accordance with 801.12 shall be offset a sufficient distance from the longitudinal joint so as not to obstruct the installation of the pavement corrugations or the application of the liquid asphalt sealant.

The *SS-1h or AE-NT* sealant shall be cured a minimum of five days prior to applying the permanent pavement traffic markings in accordance with 808. *The RPE sealant shall be cured a minimum of 48 h prior to applying the permanent pavement traffic markings in accordance with 808.* Where pavement markings are to be grooved in accordance with 808.07(b)1, the minimum cure ~~of five days~~ for the sealant shall not apply.

SECTION 401, BEGIN LINE 583, DELETE AND INSERT AS FOLLOWS:

Within one work day of coring operations the Contractor shall clean, dry, and refill the core holes with *either* HMA of similar or smaller size particles *or bridge deck repair material from the QPL of Rapid Setting Patch Materials. The rapid setting patch material shall be mixed in a separate container and placed in the hole in accordance with the manufacturer's recommendations, consolidated by rodding, and struck-off flush with the adjacent pavement.*