

**DIVISION 400**  
**ASPHALT PAVEMENTS AND SURFACE TREATMENTS**

**SECTION 402**  
**HOT ASPHALT CONCRETE PAVEMENT BY HVEEM OR**  
**MARSHALL MIX DESIGN METHOD**

**MATERIALS**

- 402.02** The following are added to this subsection:
- Asphalt** – Asphalt cement shall be 60/70 penetration grade conforming to AASHTO M20 or ASTM D946.
- High-tensile strength reinforcing (micro) fibers** is required in the mix when placed.
- Polymer** additive is required in the mix when placed.

**CONSTRUCTION REQUIREMENTS**

- 402.12** **PRODUCTION START UP PROCEDURES** - Revise the second paragraph of this subsection to read as follows:
- After approval of the design mix, the Engineer may require the Contractor to produce sufficient mix to construct 150 ft. long control strip, one lane wide, and at the designated thickness before actual production and laying of asphaltic concrete pavement at no additional cost to the Government. Construct control strip on the project at an approved location. The Engineer will then evaluate the texture, workmanship, and applicable properties of the control strip.
- 402.13** **PLACING AND FINISHING** - The following are added to this subsection: The tolerance of the temperature for the mixture leaving the mixer is  $\pm 25^{\circ}\text{F}$ . The tolerance of the temperature for the mixture laid on the prepared base is  $\pm 20^{\circ}\text{F}$ .
- 402.16** **PAVEMENT SMOOTHNESS/ROUGHNESS** - This subsection is amended as follows: After final rolling, measure the smoothness of the surface course or the surface immediately under the anti-skid pavement.
- 402.17** **ACCEPTANCE** - The following is added to this subsection:
- e) Thickness - When measurement is on a square yard basis, the asphaltic concrete placed will be sampled on a statistical basis and tested to determine if pavement thickness conforms to the thickness specified in the contract. The allowable deviation from target value (nominal thickness specified) for pavement thickness shall be a minus 3/8 inch for pavement thickness more than 1 inch thickness, and a minus 1/8 inch for pavement thickness of 1 inch and less.
- Coring, refilling sample holes with suitable material and compacting shall be performed by the Contractor under the supervision of the Engineer without cost to the Government.

**402.19**      **PAYMENT:** Add the following to this subsection:

Payment will be made under:

Pay Item	Pay Unit
Hot Asphalt Concrete Pavement 3-inch thick reinforced With FORTA-FI, Class "A" Grading "C" Type IV smoothness	Square Yard

**END OF SECTION 402**