

SECTION 446
PLACEMENT OF PAVEMENT REINFORCING FABRIC

446.01 DESCRIPTION: The work specified in this section consists of the installation of pavement reinforcing fabric over cracks, joints, and patches in existing pavement either in strips or continuous prior to placement of an overlay.

446.02 MATERIALS: The reinforcing fabric shall be Petromat with a weight of 6 oz. per square yard of fabric or approved equal. Bituminous binder material shall be AC-20 and shall meet the requirements of section 820.01.

446.03 CONSTRUCTION:

- A. Cleaning of the Pavement: The surface of the pavement shall be swept to remove rocks, dirt, debris and other materials which may prevent a clean bonding surface immediately prior to application.
- B. Application of Bituminous Binder: The material used to bond the fabric to the pavement shall be Asphalt Cement Viscosity Grade AV-20 at an initial rate of 0.35 gallons per square yard. The rate of application may be adjusted by the Office of Materials and Research as necessary depending on project conditions.

Where fabric strips are used a template or other suitable method satisfactory to the Engineer must be used to insure uniform application of the bituminous binder. The width of the binder application should not exceed the width of the fabric strip by more than 1 inch on each side. The temperature range of the AC-20 binder at time of application shall be 325°F to 375°F.

- C. Placing the Fabric: Potholes, spalls, or wide cracks which cause a failure of the material to bond to the pavement or will leave a cavity under the material shall be corrected prior to placement of the fabric. Spalls and potholes shall be repaired using asphaltic concrete meeting the requirements of Section 400 or other materials such as cold mixes approved by the Engineer. Cracks shall be filled with AC-20 or rubber-asphalt meeting the requirement of Section 407 as required by the Engineer.

The fabric when placed full width shall be placed on the pavement by a mechanical device in a manner as to cause the fabric to be smooth without wrinkles. The material shall be clean and any folds in the fabric shall be cut and laid flat.

When the plans require the fabric to be placed in strips over joints, cracks, or patches the material shall be centered over the joint or crack within a 2 inch tolerance. The width of the strips shall be that shown on the plans. Over patching, the fabric shall be installed so that a minimum 6-inch overlap exists on all sides of the patch.

Immediately after placement of the fabric the surface shall be broomed or squeezed to cause the fabric to be in total contact with the underlying pavement.

When strips of fabric are placed, caution must be taken to insure that the edges are firmly bonded to the surface.

Any fabric with loose edges or corners should be rebonded or replaced prior to placement of the overlay at the expense of the Contractor.

- D. Overlap: The fabric shall overlap a minimum of six inches at longitudinal joints and a minimum of one foot at transverse joints. All joint overlaps shall be made in a manner so as to prevent pickup by the paving train placing the asphaltic concrete.

446.04 PROTECTION OF FABRIC:

Full Width Fabric Placement:

Work shall be scheduled so that the fabric will be covered with asphaltic concrete on the same day it is placed. Traffic, other than necessary construction equipment or emergency vehicles, will not be allowed on unprotected fabric. Any damaged membrane will be replaced prior to paving at the expense of the contractor.

Fabric Strip Placement:

A minimum curing time of 11/2 hours will be required before an overlay is placed on the fabric strips. Traffic will be allowed to use the section with the fabric strips for a maximum of 2 days. The Contractor shall be responsible for coordinating his activities to conform to these time restrictions. Any damaged membrane will be replaced prior to paving at the expense of the Contractor.

446.05 MEASUREMENT: The quantity of reinforcing fabric and asphalt cement binder complete and in place and accepted will be measured by the square yard. No allowance will be made for laps.

446.06 PAYMENT: Payment will be made at the contract unit price per square yard of reinforcing fabric as provided in Section 446.05. Such price and payment shall be full compensation for all work specified in this section including cleaning the surface and furnishing and placing the asphalt cement binder and pavement reinforcing fabric.

Payment will be made under:

Item No. 446 Pavement Reinforcement Fabric including Bituminous Binder	
.	Per Square Yard