PAVEMENT REINFORCING FABRIC

ITEM 450

PART 1 - GENERAL

WORK INCLUDED: (Sec. 01) Furnish all labor, materials and equipment necessary to install pavement reinforcing fabric and related work as indicated on the Drawings and specified.

DESCRIPTION: (Sec. 02) New work shall be indicated on the Drawings, using material and course thickness as specified hereinafter.

Restoring/replacement work shall be performed with material similar to existing, as indicated on the Drawings, using material and course thickness as specified hereinafter.

QUALITY ASSURANCE: (Sec. 03) All materials shall be new and of the best quality.

REFERENCES: (Sec. 04)

ODOT - Ohio Department of Transportation, Construction and Material Specifications.

ASTM - American Society for Testing and materials.

PART 2 - PRODUCTS

MATERIALS: (SEC. 05)
Pavement reinforcing fabric shall be manufactured from polyester, polypropylene or polypropylene-nylon material. The fabric shall be nonwoven, heat treated on at least one side, and shall conform to the following:

Specification	Requirement
Weight, grams per square meter ASTM Designation: D 3776	102 to 271
Grab tensile strength (25-mm grip), kilonewtons, min. in each direction ASTM Designation: D 4632	0.40
Elongation at break, percent min. ASTM Designation: D 4632	40
Fabric thickness, millimeters ASTM Designation: D 461	0.76 to 2.54

PART 3 - EXECUTION

INSTALLATION: (SEC. 06): Pavement reinforcing fabric shall be placed on existing pavement to be surfaced or between layers of asphalt concrete when the work is shown on the plans or specified in the special provisions, or ordered by the Engineer.

Before placing the pavement reinforcing fabric, a binder of paving asphalt shall be applied to the surface to receive the pavement reinforcing fabric at an approximate rate of 0.25-gallon per square yard of surface covered. The exact rate will be determined by the Engineer. The binder shall be applied to a width equal to the width of the fabric mat plus 3 inches on each side.

Before applying binder, large cracks, spalls and chuckholes in existing pavement shall be repaired as directed by the Engineer.

The fabric shall be aligned and placed with no wrinkles that lap. The test for lapping shall be made by gathering together the fabric in a wrinkle. If the height of the doubled portion of extra fabric is 1/2 inch or more, the fabric shall be cut to remove the wrinkle, then lapped in the direction of paving. Lap in excess of 2 inches shall be removed.

Pavement reinforcing fabric shall not be placed in areas of conform tapers where the thickness of the overlying asphalt concrete is 0.10-foot or less.

If manual laydown methods are used, the fabric shall be unrolled, aligned, and placed in increments of approximately 30 feet.

Adjacent borders of the fabric shall be lapped 2 to 4 inches. The preceding roll shall lap 2 to 4 inches over the following roll in the direction of paving at ends of rolls or at any break. At fabric overlays, both the binder and the fabric shall overlap the previously placed fabric by the same amount.

Seating of the fabric with rolling equipment after placing will be permitted. Turning of the paving machine and other vehicles shall be gradual and kept to a minimum to avoid damage.

A small quantity of asphalt concrete, to be determined by the Engineer, may be spread over the fabric immediately in advance of placing asphalt concrete surfacing in order to prevent fabric from being picked up by construction equipment.

Public traffic shall not be allowed on the bare reinforcing fabric, except that public cross traffic shall be allowed to cross the fabric, under traffic control, after the Contractor has placed a small quantity of asphalt concrete over the fabric.

Care shall be taken to avoid tracking binder material onto the pavement reinforcing fabric or distorting the fabric during seating of the fabric with rolling equipment. If necessary, exposed binder material shall be covered lightly with sand.

PAYMENT: (Sec. 07) Square Yards.