



PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

November 28, 2016

Addendum No. 1

RE: **DD00194**
Halifax County Resurfacing

To Whom It May Concern:


Reference is made to the above-mentioned project. The following changes/additions/deletions have been made:

1. The attached Special Provision SPI 6-14 PAVEMENT INTERLAYER should be added to the proposal as Page 51A, 51B and 51C.

This sheet and attachments shall be made a part of the plans and bid documents and shall be submitted with the bid. Bids submitted without the addenda and attachments will be considered non-responsive.

If there are any questions, please contact me at (252) 237-6164

Sincerely,

DocuSigned by:

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11/28/2016

J. Charles Cauley
Division Four Contracts and Proposals Engineer

JCC/
Attachment



PAVEMENT INTERLAYER:

(10-09-14) (Rev. 2-13-15)

SPI 6-14

Description

Furnish and install a pavement interlayer for reinforcement of an asphalt overlay at locations shown on the plans.

Materials

Pavement Interlayer shall meet the requirements of Option A or Option B or an approved equal. The pavement interlayer shall be resistant to chemicals, mildew and rot, and shall not have any tears or holes that will adversely affect the in-situ performance and physical properties of the installed pavement interlayer.

Pavement interlayer shall be capable of being placed on a milled asphalt surface and overlaid with asphalt, provide reinforcement to the asphalt overlay, and provide waterproofing capabilities.

Furnish with each shipment a Type 3 certification in accordance with Article 106-3 of the 2012 *Standard Specifications* to Engineer at least 14 days prior to beginning work.

OPTION A)

Physical Properties	Test Method	Unit	Minimum Value
Mass / Unit Area	ASTM D5261	oz/yd ²	12.0
Tensile Strength (Single or multi-rib method)	ASTM D6637 (Method A Modified)	lbs/in	340
Tensile Elongation		Percent	<5
Melting Point (Glass Filaments)	ASTM D276	°F	752
Glass by Weight		Percent	>60

OPTION B)

Physical Properties	Test Method	Unit	Value
Mass / Unit Area	ASTM D5261	oz/yd ²	7.0 (min)
Tensile Strength	ASTM D5035	lbs/in	275 (min)
Tensile Elongation		Percent	10 (max)
Melting Point	ASTM D276	°F	>400

Pre-Pave Meeting

Schedule a pre-pave meeting at least 14 days prior to beginning any paving operation that includes a pavement interlayer. Include the Engineer, Roadway Inspector, Subcontractor, Fabric Manufacturer, Experienced Installer, Area Roadway Engineer, Materials and Tests Unit

representative, Pavement Management Unit representative, and State Pavement Construction Engineer.

Pavement Interlayer Installation

A trained and experienced installer, certified by the manufacturer, shall be present on-site during the installation of the pavement interlayer until the crew has a comfort level working with and installing this material.

Inspect the pavement interlayer upon delivery to insure proper material has been received. Pavement interlayer shall be protected with protective wrapping and shall not be exposed to temperatures exceeding 150°F. Storage and handling shall be in accordance with ASTM D4873.

Repair existing pavement distresses such as potholes, depressions, or large cracks with asphalt until flush with existing pavement surface.

The surface to be overlaid with the pavement interlayer shall be cleaned, dry and free of all dirt and debris. At the direction of the Engineer, perform leveling or wedging of asphalt to reduce any irregular surface conditions.

Tack Coat Application

Apply tack coat in accordance with Section 605 of the *2012 Standard Specifications* and the following:

- (A) Use Asphalt Binder, Grade PG 64-22 tack coat material and apply at temperature no greater than 350°F.
- (B) Uniformly apply the tack coat material at a minimum rate of application 0.10 gal/sy or per manufacturer's recommendations, whichever is higher. The application rate may be increased per manufacturer's recommendations, for milled surfaces, or for heavily aged or deteriorated pavements.
- (C) The use of emulsions, cutbacks, or materials containing solvents shall not be permitted for use as tack coat.

The tack coat application temperatures shall be sufficiently hot so as to ensure proper coverage and proper adhesion of the pavement interlayer to the pavement surface. The use of hand sprayers, squeegee or brush-applied tack coat may be used in locations where the distributor truck cannot reach. Every effort shall be made to minimize the application of tack coat by hand-applied means.

The application width of tack coat shall be sufficiently wide to cover the entire width of the pavement interlayer, plus any additional width required for overlapping joints. The tack coat shall be applied only as far in advance of the pavement interlayer installation to ensure a tacky surface at the time of the mat installation. Traffic shall not be permitted to drive on the tack coat at any time.

Clean any excess tack coat from the pavement. In the event that installation operations must be curtailed, prevent vehicular traffic from driving on the affected area where the tack coat and pavement interlayer have been installed.

Install the pavement interlayer over the hot asphalt tack coat in accordance with manufacturer's installation guidelines. Use mechanically powered installation equipment to install the pavement interlayer to the surface. The mechanical equipment shall be capable of installing full width rolls of up to 12.5 feet in width. Where mechanical installation methods cannot be accomplished due to situations that require specially cut sections, install the pavement interlayer by hand. Use brooms or squeegees to remove any air bubbles and ensure the pavement interlayer is completely in contact with the tack-coated surface. Folds or wrinkles that are encountered during lay down operations shall be cut or smoothed and additional tack material shall be applied as needed to achieve a complete bond to the surface.

Overlap longitudinal joints a minimum of 2 inches and transverse joints a minimum of 4 inches to bond seams unless otherwise directed by the Engineer. Overlaps on the transverse roll ends shall be in the direction of the paving operation. All overlapping of pavement interlayer shall be tack coated to ensure proper adhesion.

Blotting the sealant, spreading sand or broadcasting hot mix asphalt over the pavement interlayer shall be used to minimize and prevent construction and or paving tires/tracks from adhering to the tack coat and pulling up the pavement interlayer. In the event that the pavement interlayer is displaced from the surface, additional rolling and hand-brushing shall be required to restore the bond between the surface and pavement interlayer. An additional application of tack may be required to ensure adhesion.

Measurement and Payment

Pavement Interlayer will be measured and paid at the contract unit price per square yard. In measuring this quantity, the length will be the actual length constructed, measured along the surface. The width will be the width measured along the ground that has been acceptably placed. No separate measurement will be made for overlapping pavement interlayer or any additional tack coat or labor required for a satisfactory bond between the surface and pavement interlayer.

Such prices shall include, but not be limited to, furnishing all labor, materials including asphalt and tack coat, tools, equipment and other incidentals necessary to perform the required work.

Payment will be made under:

Pay Item
Pavement Interlayer

Pay Unit
Square Yard