

SECTION 905 -- PROPOSAL (CONTINUED)

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (We) enclose a certified check, cashier's check or bid bond for **five percent (5%) of total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bond within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the State of Mississippi as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO. <u> 1 </u>	DATED <u> 4/14/2015 </u>	ADDENDUM NO. <u> </u>	DATED <u> </u>
ADDENDUM NO. <u> 2 </u>	DATED <u> 4/22/2015 </u>	ADDENDUM NO. <u> </u>	DATED <u> </u>

Number	Description
1	Revised Table of Contents; Add NTB No. 5160; Amendment EBS Download Required.
2	Revised Table of Contents; Revised NTB No. 5158; SP No. 907-410-9 replaces SP No. 907-410-8; Delete Progress Schedule; Amendment EBS Download Required.

TOTAL ADDENDA: 2
 (Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

Contractor

BY _____

Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

_____	President	Address
_____	Secretary	Address
_____	Treasurer	Address

The following is my (our) itemized proposal.

Revised 09/21/2005

HSIP-0059-01(114) / 106818301 Forrest County(ies)

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET
OF SECTION 905 AS ADDENDA)

04/23/2015 09:08 AM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5158

CODE: (SP)

DATE: 4/20/2015

SUBJECT: Contract Time

PROJECT: HSIP-0059-01(114) / 106818301 – Forrest County

The calendar date for completion of work to be performed by the Contractor for this project shall be **August 11, 2015** which date or extended date as provided in Subsection 907-108.06 shall be the end of contract time. It is anticipated that the Notice of Award will be issued no later than be **May 12, 2015** and the effective date of the Notice to Proceed / Beginning of Contract Time will be **June 11, 2015**.

Should the Contractor request a Notice to Proceed earlier than **June 11, 2015** and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed / Beginning of Contract Time date.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-410-9

CODE: (SP)

DATE: 04/23/2015

SUBJECT: High Friction Surface Treatment

Section 410, Bituminous Surface Treatment, of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby deleted in toto and replaced as follows.

SECTION 907-410 -- HIGH FRICTION SURFACE TREATMENT

907-410.01--Description. This work consists of installing a textured, high friction surface treatment in areas designated and detailed on the plans, or in the contract documents. The color of the high friction surface treatment shall be similar to the surface which it will be applied.

907-410.02--Materials. The materials used for the high friction surface treatment shall consist of a two-part binder and aggregate meeting the following requirements.

907-410.02.1--Binder. The binder shall be a two-part cold applied modified exothermic polymer resin binder. The binder shall consist of a thermosetting compound which holds the aggregate firmly in position. The binder shall also meet the following requirements.

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Tensile Strength @ 7 days, psi, minimum	2400	ASTM D 638
Elongation at break point, %, minimum	30	ASTM D 638
Hardness, Shore D, minimum	70	ASTM D 2240
Compressive Strength, psi, minimum	1600	ASTM D 695
Gel Time, minutes, minimum	15	ASTM D 2471
Cure Rate, hours, @ 75°F, maximum	3	ASTM D 1640
Water Absorption, %, maximum	1.0	ASTM D 570
Adhesion Strength, psi, minimum	200	ASTM D4541

907-410.02.2--Aggregate. The aggregate shall be crushed Calcined Bauxite. The aggregate will be delivered to the construction site in clearly labeled bags or sacks. The aggregate shall be clean, dry and free from foreign matter. The aggregate shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Aggregate Abrasion Value, 'C' Grading, maximum, %	20	AASHTO T 96
Aggregate Grading,		AASHTO T 27
No 4 Sieve Size, passing, %	95 - 100	
No 16 Sieve Size, passing, %	0 - 5	

907-410.02.3--Material Acceptance. The Contractor shall furnish to the Engineer three copies of the manufacturer's test report(s) showing results of all required tests and certification that the material meets the specifications. Certified test report(s) and certification shall be furnished for each shipment of component materials.

907-410.03--Construction Requirements. For applications on new asphalt pavements, a mandatory 30-day cure period shall take place prior to the installation of the high friction surface treatment.

907-410.03.1--Equipment. The equipment used to place the high friction surface treatment shall be mechanized, and shall be capable of attaining the production rates for the product as deemed appropriate by the manufacturer. The surface treatment shall be mechanically applied in accordance with manufacturer's recommended methods at the specified thicknesses shown in the contract documents. If no thickness is specified, the thickness shall be in accordance with the manufacturer's recommendation.

907-410.03.2--Construction Methods. The application of the surface treatment shall be in accordance with the manufacturer's recommendations.

The two-part modified polymer binder material shall not be applied on a wet surface, when the ambient and/or surface temperature is below 50°F or above 105°F, or when the anticipated weather conditions would prevent the proper application of the surface treatment as determined by the manufacturer.

Receiving surfaces must be clean, dry and free of all dust, oil, debris and any other material that might interfere with the bond between the polymer binder material and existing surfaces. For asphalt pavements, the existing surfaces shall be cleaned by use of mechanical sweepers, high pressure air or other methods approved by the Engineer prior to the installation. For concrete surfaces, the surface shall first be shot blasted and then cleaned by use of mechanical sweepers, high pressure air or other methods approved by the Engineer. Shot blasting shall be performed no more than seven days prior to the application of the polymer binder.

Any existing pavement markings, as deemed necessary by the Engineer and/or manufacturer's representative, shall be removed. Adequate cleaning of all surfaces will be determined by the Engineer and/or manufacturer's representative.

All existing pavement markings to remain, utilities, drainage structures, curb and any other structure within/adjacent to the treatment location shall be protected against the application of the surface treatment materials.

All inadequately sealed joints and cracks greater than ¼-inch shall be cleaned and filled with an approved crack sealant.

A manufacturer's representative shall be on site to provide technical assistance during the start up operations and as necessary during the surface preparation, material placement and during any necessary remedial work.

907-410.03.1--Application of the Binder. The polymer binder shall be placed in accordance with the manufacturer's recommended methods. The in-place thickness of the mixed polymer shall be approximately 60 mils above the pavement surface. For irregular surfaces, the application rate may be adjusted, as determined by the manufacturer's representative. The two-part modified polymer binder components shall be proportioned to the correct ratio, and mixed using a low-speed, high-torque drill fitted with a helical stirrer at a rate recommended by the manufacturer. The Contractor may choose to mix the polymer binder using a plural component pump system of a type approved by and in accordance with the polymer binder manufacturer.

The homogenously mixed polymer binder shall be uniformly distributed over the pavement section to be treated and within the temperature range specified. Operations shall proceed in such a manner that will not allow the polymer material to chill, set up, dry, or otherwise impair retention of the aggregate. Polymer binder may be uniformly spread onto irregular surfaces by means of a hand-applied, serrated-edged squeegee.

A certification from the two-part modified polymer resin manufacturer shall be supplied to the Engineer stating that the material meets the specifications.

907-410.03.2--Application of the Aggregate. The dry aggregate shall be immediately applied onto the polymer binder prior to the polymer binder reaching its gel time coverage. Do not use vibratory or impact type compaction on the aggregate after placement. Lightweight rollers shall be used to seat the aggregate topping. Complete coverage of the "wet" polymer binder with aggregate is necessary to achieve a uniform surface. No exposed wet spots shall be visible once the aggregate is placed. The application rate shall be such that the retained aggregate will be at least 12 pounds per square yard.

907-410.03.3--Curing. The treatment shall be allowed to cure in accordance with manufacturer recommendations, approximately three hours at an ambient temperature of 75°F and rising. Excess aggregate shall be removed by hand brooms, mechanical sweeping, or suction sweeping before opening to traffic. The treated surfaces shall be protected from traffic and environmental effects until the area has cured.

Excess aggregate can be reused on the next day's installation. The excess aggregate must be clean, uncontaminated and dry. An additional sweeping shall be performed after the system fully cures. The coverage rate of the retained aggregate shall be at least 12 pounds per square yard. Any unused material shall be disposed of by the Contractor.

907-410.03.4--Friction Testing. Within 30 days after construction of the high friction surface treatment, the Department will measure the friction characteristics in accordance with AASHTO Designation: T 242 using a tire meeting the requirements of AASHTO Designation: M 261. The materials used in the high friction surface treatments shall produce a friction number of at least 65.

907-410.04--Method of Measurement. High friction surface treatment will be measured by the square yard, complete in place and accepted.

907-410.05--Basis of Payment. High friction surface treatment, measured as prescribed above, will be paid for at the contract unit price bid per square yard, which price shall be full compensation for furnishing all equipment, tools, labor, materials, and for all pertinent operations necessary to complete the work.

Payment will be made under:

907-410-D: High Friction Surface Treatment * - per square yard

* Additional information may be specified