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09 -

SM No. CMP1025480111

# PROPOSAL AND CONTRACT DOCUMENTS

# FOR THE CONSTRUCTION OF

09

Mill & Overlay approximately 12 miles of SR 25 from US 45 Interchange to US 278, & approximately 1 mile from US 278 to SR 6, known as State Project Nos. MP-1025-48(011) / 306071301, 302, & 303 in Monroe County.

Project Completion: 70 Working Days

# (STATE DELEGATED)

# NOTICE

BIDDERS MUST PURCHASE A BID PROPOSAL FROM MDOT CONTRACT ADMINISTRATION DIVISION TO BID THIS PROJECT.

Electronic addendum updates will be posted on www.gomdot.com

# **SECTION 900**

OF THE CURRENT 2017 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION JACKSON, MISSISSIPPI

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# **SECTION 901 - ADVERTISEMENT**

Electronic bids will be received by the Mississippi Transportation Commission at <u>10:00 o'clock</u> <u>A.M., Tuesday, May 23, 2017</u>, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Mill & Overlay approximately 12 miles of SR 25 from US 45 Interchange to US 278, & approximately 1 mile from US 278 to SR 6, known as State Project Nos. MP-1025-48(011) / 306071301, 302, & 303 in Monroe County.

The attention of bidders is directed to the predetermined minimum wage rate set by the U. S. Department of Labor under the Fair Labor Standards Act.

The Mississippi Department of Transportation hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, age, disability, religion or national origin in consideration for an award.

Plans and specifications are on file in the offices of the Mississippi Department of Transportation.

Bid proposals must be purchased online at  $\frac{\text{ttps://shopmdot.ms.gov}}{\text{sgov}}$ . Specimen proposals may be viewed and downloaded online at no cost at  $\frac{\text{ttps://mdot.ms.gov}}{\text{or purchased online}}$  or purchased online. Proposals are available at a cost of Ten Dollars (\$10.00) per proposal plus a small convenience fee. Cash or checks will not be accepted as payment.

Plans must be purchased online at <<u>https://shopmdot.ms.gov></u>. Costs of plans will be on a per sheet basis plus a small convenience fee. If you have any questions, you can contact the MDOT Plans Print Shop at (601) 359-7460, or e-mail at plans@mdot.state.ms.us. Plans will be shipped upon receipt of payment. <u>Cash or checks will not be accepted as payment</u>.

Bid bond, signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent, with Power of Attorney attached, a Cashier's check or Certified Check for five (5%) percent of bid, payable to STATE OF MISSISSIPPI, must accompany each proposal.

The attention of bidders is directed to the provisions of Subsection 102.07 pertaining to irregular proposals and rejection of bids.

MELINDA L. MCGRATH EXECUTIVE DIRECTOR

# **SECTION 904 - NOTICE TO BIDDERS NO. 1**

CODE: (IS)

DATE: 03/01/2017

# **SUBJECT:** Governing Specifications

The current (2017) Edition of the Standard Specifications for Road and Bridge Construction adopted by the Mississippi Transportation Commission is made a part hereof fully and completely as if it were attached hereto, except where superseded by special provisions, or amended by revisions of the Specifications contained within this proposal. Copies of the specification book may be purchased from the MDOT Construction Division, or online at shopmdot/default.aspx?StoreIndex=1.

A reference in any contract document to controlling requirements in another portion of the contract documents shall be understood to apply equally to any revision or amendment thereof included in the contract.

In the event the plans or proposal contain references to the 2004 Edition of the Standard Specifications for Road and Bridge Construction, it is to be understood that such references shall mean the comparable provisions of the 2017 Edition of the Standard Specifications.

# **SECTION 904 - NOTICE TO BIDDERS NO. 3**

CODE: (SP)

DATE: 01/17/2017

# SUBJECT: Final Clean-Up

Immediately prior to final inspection for release of maintenance, the Contractor shall pick up, load, transport and properly dispose of all litter from the entire highway right-of-way that is within the termini of the project.

Litter shall include, but not be limited to, solid wastes such a glass, paper products, tires, wood products, metal, synthetic materials and other miscellaneous debris.

Litter removal is considered incidental to other items of work and will not be measured for separate payment.

# **SECTION 904 - NOTICE TO BIDDERS NO. 9**

CODE: (IS)

DATE: 03/01/2017

# SUBJECT: Federal Bridge Formula

Bidders are hereby advised that the latest revision of Federal Highway Administration Publication No. FHWA-HOP-06-105, **BRIDGE FORMULA WEIGHTS**, dated August 2006, is made a part of this contract when applicable.

Prior to the preconstruction conference, the Contractor shall advise the Engineer, in writing, what materials, if any, will be delivered to the jobsite via Interstate route(s).

Copies of the **BRIDGE FORMULA WEIGHTS** publication may be obtained by contacting:

Federal Highway Administration 400 7<sup>th</sup> Street, SW Washington, DC 20590 (202) 366-2212

or

http://www.ops.fhwa.dot.gov/Freight/publications/brdg frm wghts/bridge formula all rev.pdf

# An on line **BRIDGE FORMULA WEIGHTS CALCULATOR** is available at

http://ops.fhwa.dot.gov/freight/sw/brdgcalc/calc\_page.htm

# **SECTION 904 - NOTICE TO BIDDERS NO. 12**

CODE: (IS)

# DATE: 03/01/2017

# SUBJECT: MASH Compliant Devices

Bidders are hereby advised that the Standard Specifications may require certain traffic control and permanent safety hardware devices to meet the requirements of the Manual for Assessing Safety Hardware (MASH). However, devices meeting the requirements of NCHRP Report 350 will be allowed until the mandatory effective date for MASH compliance. The following table shows the effective dates for MASH compliant devices.

| Device   | Effective Date for MASH<br>Compliance |
|--|---------------------------------------|
| W-beam barriers, cast-in-place concrete barriers   | December 31, 2017                     |
| W-beam terminals   | June 30, 2018                         |
| Cable barriers, cable barrier terminals, crash cushions  | December 31, 2018                     |
| Bridge rails, transitions, all other longitudinal barriers including<br>portable barriers installed permanently, all other terminals, sign<br>supports, all other breakaway hardware | December 31, 2019                     |

Temporary work zone devices, including portable barriers manufactured after December 31, 2019, must have been successfully tested to the 2016 Edition of MASH. Such devices manufactured on or before this date and successfully tested to NCHRP Report 350 or the 2009 Edition of MASH may continue to be used throughout their normal service lives.

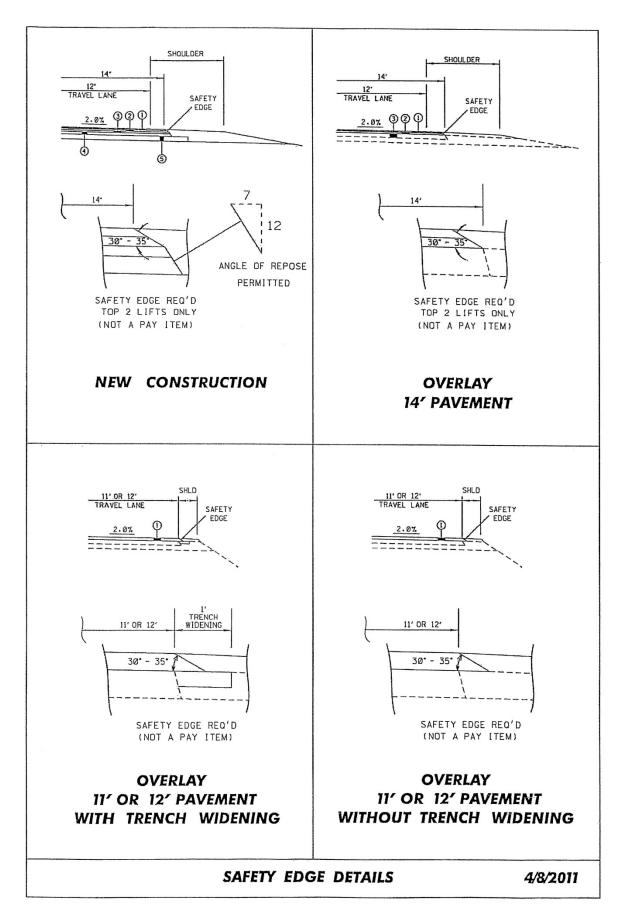
## **SECTION 904 - NOTICE TO BIDDERS NO. 13**

CODE: (IS)

DATE: 03/01/2017

# **SUBJECT:** Safety Edge

Bidders are hereby advised that the Shoulder Wedge (Safety Edge) specified in Section 401, Asphalt Pavements, shall only apply to the top two (2) lifts of asphalt. Open Graded Friction Courses (OGFC) are not to be considered a lift as it pertains to safety edge. Attached is a drawing showing the safety edge. Note that the shoulder dimensions in the bottom two drawings will be less than three feet (3').



# SUPPLEMENT TO NOTICE TO BIDDERS NO. 14

# DATE: 04/24/2017

# PROJECT: MP-1025-48(011) / 306071301, MP-1025-48(011) / 306071302, MP-1025-48(011) / 306071303 – Monroe County

Prior to bidding, the Contractor shall contact the **<u>BNSF Railway Company</u>** concerning insurance coverage required for this project. In case the railroad requires coverage above and beyond that required by the Standard Specifications, the railroad requirements shall be met.

The name insured, description of the work and designation of the job site to be shown on the policy are as follows:

| Name Insured:   | BNSF Railway Company  |
|-----------------|---|
| Description     |   |
| And Designation | : Mill and Overlay SR 25 from US 45 Interchange to US 278, and Mill and Overlay SR 25 from US 278 to SR 6 |
| Mile Post:      | 0614.95<br>Latitude: 33.9331820   |
|                 | Longitude: -88.4812110  |

Notice of starting to work and correspondence pertaining to railroad liability insurance shall be directed to:

Tim Huya BNSF Railway Company 5800 North Main Street Saginaw, TX 76179 (817)352-2902

# **SECTION 904 - NOTICE TO BIDDERS NO. 14**

CODE: (SP)

DATE: 01/17/2017

# **SUBJECT:** Railway-Highway Provisions

Prior to bidding, the Contractor shall contact the Railroad concerning insurance coverage required for this project. In case the railroad requires coverage over and above that required by the Standard Specifications, the railroad requirements shall be met.

The name insured, description of the work and designation of the job site to be shown on the Policy are as follows:

Notice of starting to work, completion of any required forms, and correspondence pertaining to railroad liability insurance shall be directed to the person below.

The Contractor shall not commence, or carry on, any work for installation, maintenance, repair, changing or renewal of any FACILITY, under, over or on RAILROAD property at any location without giving at least ten (10) working days prior notice to the RAILROAD authorized representative at the RAILROAD's office(s) below.

If in the opinion of the RAILROAD, the presence of an authorized representative of the RAILROAD is required to supervise the same, <u>the RAILROAD shall render bills to the Contractor</u> for all expenses incurred by it for such supervision. This includes all labor costs for flagmen or cable locate supplied by the RAILROAD to protect RAILROAD operation, and for the full cost of furnishing, installation and later removal of any temporary supports for said tracks, as the RAILROAD's Chief Engineer's Office may deem necessary.

It will be the Contractor's responsibility to pay all bills associated with railroad flagging and cable locating. Generally, the flagging rate is \$700.00 per day (1 to 8 hours) plus overtime at \$125.00 per hour, however, the Contractor shall contact the RAILROAD to verify all rates.

A flagman is required anytime a Contractor does any work on or near RAILROAD property within twenty-five (25) feet horizontally of the centerline or any work over any railroad track. <u>The RAILROAD</u>, however, also reserves the right to require a flagman for work on RAILROAD property, which is more than twenty-five (25) feet from the centerline of a railroad track when there are other conditions or considerations that would dictate the need for a flagman to safeguard the RAILROAD's operations, property and safety of working personnel.

A cable locate of RAILROAD owned facilities may be required to identify and protect Signal & Communication cables that have been installed to provide power, signal control, wayside communications. These cables are vital to a safe and reliable railway operation. The cable locate will be performed by a qualified RAILROAD employee.

Outside Contractors are prohibited from driving on, along, or across <u>any</u> track that does not have a RAILROAD installed crossing. They may utilize an existing public crossing. The practice of allowing rubber tired equipment to operate over track with no crossing has been banned.

Exceptions to this rule will require the express approval from the RAILROAD Engineers.

# **SECTION 904 - NOTICE TO BIDDERS NO. 44**

CODE: (SP)

DATE: 3/09/2017

# **SUBJECT:** Contract Time

# PROJECT: MP-1025-48(011) / 306071301, MP-1025-48(011) / 306071302 & MP-1025-48(011) / 306071303 – Monroe County

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 907-108.06. It is anticipated that the Notice of Award will be issued no later than *June 13, 2017* and the date for Notice to Proceed / Beginning of Contract Time will be *July 13, 2017*.

Should the Contractor request a Notice to Proceed earlier than <u>July 13, 2017</u> 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.

<u>70</u> Working Days have been allowed for the completion of work on this project.

# **SECTION 904 - NOTICE TO BIDDERS NO. 45**

CODE: (SP)

DATE: 03/06/2017

# **SUBJECT:** Cooperation Between Contractors

# PROJECT: MP-1025-48(011) / 306071301, MP-1025-48(011) / 306071302 & MP-1025-48(011) / 306071303 – Monroe County

The Bidder's attention is hereby called to Subsection 105.07, Cooperation between Contractors, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction.

The Bidder is advised that this project adjoins the following project that is concurrently under construction:

STP-0040-01(023)V21 / 101635302 & STP-0040-01(024) / 101635303 (Pave 2 lanes on SR 25 from 2.5 miles South of Becker to US 278, & Intersection Improvements on SR 25 in Amory).

The Contractor shall cooperate in all respects and shall coordinate construction of all phases of work with the Contractor of the adjoining project.

# **SECTION 904 - NOTICE TO BIDDERS NO. 113**

CODE: (SP)

# DATE: 04/18/2017

# **SUBJECT:** Tack Coat

Bidders are advised that in addition to the products listed on the Department's APL as referenced in Subsection 401.03.1.2 on page 256, the Contractor may use one of the following as a tack coat.

- CSS-1
- CSS-1h
- SS-1
- SS-1h

# SECTION 904 - NOTICE TO BIDDERS NO. 121

CODE: (SP)

DATE: 4/25/2017

# **SUBJECT:** Pay Item Corrections

# PROJECT: MP-1025-48(011) / 306071301, MP-1025-48(011) / 306071302 & MP-1025-48(011) / 306071303 – Monroe County

Bidders are hereby advised that the Summary of Quantities sheets in the Plans do not include pay item no. 907-899-A001, Railway-Highway Provisions. This is in error. A quantity of <u>1 Lump</u> Sum for this pay item has been added to the bid items.

Bidders are also advised that the Summary of Quantities sheets in the Plans do not include pay item no. 620-A001, Mobilization. This is in error. A quantity of <u>1 Lump Sum</u> for this pay item has been added to the bid items.

# **SECTION 904 - NOTICE TO BIDDERS NO. 122**

CODE: (SP)

DATE: 4/25/2017

SUBJECT: Portable Construction Lighting

# PROJECT: MP-1025-48(011) / 306071301, MP-1025-48(011) / 306071302, MP-1025-48(011) / 306071303 – Monroe County

Bidders are hereby advised that portable construction lighting will be required for any and all night work on the project and shall conform to Section 680 of the Standard Specifications. No separate payment will be made for this item of work and shall be included in other items bid.

# **SECTION 904 - NOTICE TO BIDDERS NO. 123**

CODE: (SP)

DATE: 4/25/2017

# **SUBJECT:** Additional Milling Requirements

# PROJECT: MP-1025-48(011) / 306071301, MP-1025-48(011) / 306071302 & MP-1025-48(011) / 306071303 – Monroe County

Bidders are hereby advised of that unless otherwise noted Milled surfaces are to be covered with surface asphalt within five (5) calendar days of removal. The Contractor will be charged a fee of \$5,000.00 for each full and partial day in which the milled surface is left uncovered after the five (5) calendar days.

# SECTION 904 - NOTICE TO BIDDERS NO. 124

CODE: (SP)

DATE: 4/25/2017

# SUBJECT: Lane Closure Restrictions and Requirements

# PROJECT: MP-1025-48(011) / 306071301, MP-1025-48(011) / 306071302, MP-1025-48(011) / 306071303 – Monroe County

Bidders are hereby advised of the following lane closure restrictions for work performed between **Station 10+00 and Station 68+82**:

Unless otherwise noted herein or specific written permission is allowed by the Engineer, no lane closures will be allowed Monday through Thursday 7:00 AM to 7:00 PM for any reason. Night work will be allowed between the hours of 7:00 PM to 7:00 AM Sunday through Thursday. No work will be allowed from 7:00 AM on Friday to 7:00 PM on Sunday. All night work shall be in accordance with Section 680 – Portable Construction Lighting.

If the lane closure restrictions listed above are violated, the Contractor will be charged a fee of **<u>\$500.00</u>** for each full or partial five minute period until the roadway is back in compliance with the lane closure restriction requirement.

For the purposes of this contract, official time shall be the announced time available at the Jackson area telephone number (601) 355-9311.

# **SPECIAL PROVISION NO. 907-624-1**

CODE: (SP)

DATE: 01/17/2017

# SUBJECT: Inverted Profile Thermoplastic Traffic Stripe

Section 907-624, Inverted Profile Thermoplastic Traffic Stripe, is hereby added to and made part of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

<u>907-624.01--Description</u>. Inverted profile thermoplastic pavement markings consists of furnishing materials and placing inverted profile thermoplastic pavement markings in reasonably close conformity with these specifications and the details shown on the plans or established.

Inverted profile thermoplastic pavement markings, high contract, shall consist of furnishing materials and placing inverted profile thermoplastic pavement markings over a black thermoplastic pavement marking in order to enhance the marking's visibility.

# 907-624.02--Materials.

<u>907-624.02.1--General.</u> The inverted profile thermoplastic marking material shall consist of an alkyd/maleic or hydrocarbon based formulation. The material shall be so manufactured as to be applied to the pavement in a molten form, with internal and surface application of glass spheres, and upon cooling to normal pavement temperature, shall produce an adherent, reflectorized pavement marking of specified thickness and width, capable of resisting deformation.

Materials shall be obtained from approved sources as listed on the Department's "List of Approved Sources" for Inverted Profile Thermoplastic Pavement Marking Materials. The material shall not scorch, break down, discolor, or deteriorate when held at the application temperature for four hours or when reheated four times to the application temperature. Temperature-vs-viscosity characteristics of the plastic material shall remain constant when reheated four times, and shall be the same from batch to batch.

The thermoplastic material shall be a product especially compounded for pavement markings. The pavement markings shall maintain their original dimension and shall not smear or spread under normal traffic at temperatures below 140°F. The markings shall have a uniform cross section. Pigment shall be evenly dispersed throughout its thickness. The exposed surface shall be free from tack and shall not be slippery when wet. The material shall not lift from pavement in freezing weather. Cold ductility of the material shall be such as to permit normal movement with the pavement surface without chipping or cracking.

Black thermoplastic compound for the placement of inverted profile thermoplastic pavement markings, high contract, shall consist of a hydrocarbon or alkyd/maleic based formulation.

The manufacturers of the thermoplastic compound, glass beads and epoxy primer sealer shall furnish to the Engineer three copies of certified test reports showing results of all tests specified herein and shall further certify that the materials meet all requirements. The Contractor shall provide the warranty as specified herein to the Engineer.

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<u>907-624.02.2--Inverted Profile Thermoplastic Material.</u> The thermoplastic material shall consist of homogeneously mixed pigments, fillers, resins and glass beads, and shall be available in both white and yellow. The material shall be free from all skins, dirt, and foreign objects. Materials shall conform to AASHTO M 249 with the following modifications:

<u>907-624.02.2.1--Intermixed Glass Beads.</u> The thermoplastic material shall contain a minimum of 40 percent Class H glass beads by weight. Class H glass beads shall meet the requirements of ASTM D 1155, and shall be coated with an adhesion promoting coating which shall also provide moisture resistance as tested by AASHTO M 247, Section 4.4.2. Class H beads shall have a minimum of 70 percent true spheres and the +20 sieve shall be tested visually.

The gradation of the Class H beads shall meet the following:

| <u>U. S. Standard Sieve</u> | <u>% Passing</u> |
|-----------------------------|------------------|
| 12                          | 100              |
| 14                          | 95 - 100         |
| 16                          | 80 - 100         |
| 18                          | 30 - 100         |
| 20                          | 15 - 100         |
| 30                          | 10 - 100         |
| 50                          | 0 - 50           |
| 100                         | 0 - 5            |

<u>907-624.02.2.2--Binder Content.</u> The binder content of the thermoplastic material shall be 19 percent minimum.

<u>907-624.02.2.3--Titanium Dioxide.</u> The titanium dioxide shall meet ASTM D 476, Type II, Rutile grade - 10 percent minimum titanium content.

<u>907-624.02.2.4--Yellow Pigment.</u> The yellow pigment for the yellow thermoplastic material shall be five (5) percent minimum.

<u>907-624.02.2.5--Specific Gravity.</u> The specific gravity of the thermoplastic pavement marking material shall not exceed 2.35.

# 907-624.02.2.6--Flow Characteristics.

<u>907-624.02.2.6.1--Flowability</u>. After heating the thermoplastic material for four (4) hours  $\pm 5$  minutes at 425  $\pm 3^{\circ}$ F and testing flowability, the white thermoplastic shall have a maximum percent residue of 22 percent and the yellow thermoplastic shall have a maximum residue of 24 percent.

<u>907-624.02.2.6.2--Flow Resistance.</u> The material shall exhibit a maximum flow of 10%. The material's ability to form ribs on the markings shall be evaluated by casting a disc of material approximately 3.5 inches wide by 1.0 inch long by and 0.60 inch deep. After the material is cooled to ambient temperature, measure the exact height. The material shall then be stored at 190°F for four (4) hours. After the material is cooled to ambient temperature, re-measure the exact height and express the flow resistance as a flow percentage.

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<u>907-624.02.2.7--Reflectivity.</u> The initial reflectance for the in-place marking shall have a minimum reflectance value of 450 mcd/fc/sq. ft. for white and 350 mcd/fc/sq. ft. for yellow, when measured with a Mirolux Ultra 30 retroreflectometer, or approved equal.

<u>907-624.02.2.8--Wet Reflectivity</u>. The initial reflectance for the in-place marking when wet shall have a minimum reflectance value of 200 mcd/fc/sq. ft. for white and 175 mcd/fc/sq. ft. for yellow, when measured with an approved retroreflectometer. The stripe shall be wetted utilizing a pump type sprayer for five (5) seconds. After 30 seconds, place the retroreflectometer on the stripe and measure the reflectance.

<u>907-624.02.2.9--Inverted Profile</u>. The thermoplastic pavement marking material shall be applied to have individual profiles having a minimum height of 0.140 inches with the recessed inverted profiles having a thickness of 0.025 to 0.050 inches. The profiles shall be well defined, spaced approximately one (1) inch apart, and not excessively run back together.

# <u>907-624.02.3--Black Pavement Marking Material for High Contrast Inverted Profile</u> <u>Pavement Markings.</u>

<u>907-624.02.3.1--General.</u> In the molten state, the material shall not give off fumes that are toxic or otherwise injurious to persons or property. The manufacturer shall provide material safety data sheets for the product.

The temperature versus viscosity characteristic of the plastic material shall remain constant and the material shall not deteriorate in any manner during three reheating processes. There shall be no obvious change in color of the material as a result of up to three reheatings, or in maintaining the material at application temperature up to an aggregate time of four (4) hours, or from batch to batch. The maximum elapsed time after application at which normal traffic will leave no impression or imprint on the new stripe shall be 30 seconds when the air and road surface temperature is approximately  $68 \pm 5^{\circ}$ F. The applied stripe shall remain free from tack and shall not lift from the pavement under normal traffic conditions within a road temperature range of  $-20^{\circ}$ F to  $150^{\circ}$ F. The stripe shall maintain its original dimensions and placement. Cold ductility of the material shall be such as to permit normal dimensional distortion as a result of tire impact within the temperature range specified.

The material shall provide a stripe that has a uniform thickness throughout its cross section.

<u>907-624.02.3.2--Binder.</u> The binder shall be hydrocarbon or alkyd/maleic based. The binder shall consist of a homogeneous mixture of pigment, fillers, resins, waxes and plasticizers. The total

binder content shall be well distributed throughout the compound. The binder shall be free from all foreign objects or ingredients that would cause bleeding, staining or discoloration. The binder shall be 19 percent minimum by weight of the thermoplastic compound.

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<u>907-624.02.3.3--Pigment.</u> The pigment used for black pavement marking compound shall be as required and shall be uniformly distributed throughout the marking compound.

<u>907-624.02.3.4--Filler</u>. The filler to be incorporated with the resins shall be a white calcium carbonate, silica or any approved substitute.

<u>907-624.02.3.5--Specific Gravity.</u> The specific gravity of the marking compound shall not exceed 2.0.

<u>907-624.02.3.6--Softening Point.</u> After heating the marking compound for 4 hours  $\pm 5$  minutes at 375  $\pm 3^{\circ}$ F and testing in accordance with ASTM E 28, the material shall have a minimum softening point of 180°F as measured by the ring and ball method.

<u>907-624.02.3.7--Tensile Bond Strength.</u> After heating the marking compound for 4 hours  $\pm 5$  minutes at 375  $\pm 3^{\circ}$ F, the tensile bond strength shall exceed 180 psi when tested in accordance with ASTM D 4806. The material shall be applied to unprimed, sandblasted Portland cement concrete block at a thickness of 0.0625-inch and at a temperature of 375  $\pm 3^{\circ}$ F. The test shall be conducted at room temperature.

<u>907-624.02.3.8--Impact Resistance.</u> After heating the marking compound for 4 hours  $\pm 5$  minutes at 375  $\pm 3^{\circ}$ F, the impact resistance shall be a minimum of 50 inch-pounds minimum when tested in accordance with ASTM D 2794. No cracks or bond loss shall occur when a 0.0625-inch thick film drawdown is made at 375  $\pm 3^{\circ}$ F on an unprimed sandblasted Portland cement concrete block. The sample is tested with a male indentor 5/8-inch and no female Die at room temperature.

<u>907-624.02.3.9--Identification</u>. Each package of material shall be stenciled with the manufacturer's name, the type of material and specification number, the month and year the material was packaged and lot number. The letters and numbers used in the stencils shall be a minimum of 1/2 inch in height.

<u>907-624.02.3.10--Packaging</u>. The material shall be packaged in suitable containers that will not adhere to the product during shipment and storage. The container of pavement marking material shall weigh approximately 50 lbs. Each container shall designate the color, type of resin, type of application and user information. The label shall warn the user that the material shall be heated in the range of  $350^{\circ}$  to  $425^{\circ}$ F.

<u>907-624.02.3.11--Storage Life.</u> The material shall meet the requirements of this specification for a period of one year. The material must also meet uniformly with no evidence of skins or unmelted particles for this one-year period. The manufacturer shall replace any material not meeting the above requirements.

<u>907-624.02.3.12--Certifications.</u> The material manufacturer shall furnish a certified copy of material test reports to the Engineer.

<u>907-624.02.4--Drop-On Glass Beads.</u> Drop-on glass beads shall be separated into two (2) classes, as follows:

<u>907-624.02.4.1--Class G Glass Beads.</u> Class G glass beads shall be coated with an adhesion promoting coating which shall also provide moisture resistance as tested by AASHTO M 247, Section 4.4.2 and shall exhibit the following characteristics:

- <u>Color and Clarity</u>: The glass beads shall be colorless and clear, and shall be free of carbon residues.
- Index of Refraction: minimum 1.50
- **<u>Roundness</u>**: The glass beads shall have a minimum of 80% true spheres per screen for the two highest sieve quantities, determined visually, and a maximum of 3% angular particles per sieve, determined visually. The remaining sieves shall have a minimum of 75% true spheres, determined visually per aspect ratio using microfiche reader.
- <u>Air Inclusions:</u> 10% maximum
- **Specific Gravity:** The specific gravity of the glass beads shall be a minimum of 2.50.
- Gradation: The gradation of Class G glass beads shall be as follows:

| <b>U. S. Standard Sieve</b> | <u>% Passing</u> |
|-----------------------------|------------------|
| 12                          | 100              |
| 14                          | 100 - 95         |
| 16                          | 100 - 80         |
| 18                          | 100 - 20         |
| 20                          | 90 - 20          |
| 30                          | 100 - 50         |
| Pan                         | 100 - 90         |

All Class G glass beads shall be coated with an adhesion promoting coating.

<u>907-624.02.4.2--Class H Glass Beads.</u> Class H glass beads shall meet the requirements of ASTM D 1155, and shall be coated with an adhesion promoting coating which shall also provide moisture resistance as tested by AASHTO M 247, Section 4.4.2. Class H beads shall have a minimum of 70 percent true spheres and the +20 sieve shall be tested visually.

The gradation of the Class H beads shall meet the following:

| <u>U. S. Standard Sieve</u> | <u>% Passing</u> |
|-----------------------------|------------------|
| 16                          | 99 - 100         |
| 20                          | 75 - 100         |
| 30                          | 55 - 95          |
| 50                          | 10 - 35          |
| 100                         | 0 - 5            |

# 907-624.03--Construction Requirements.

**907-624.03.1--Equipment.** The application equipment shall be specifically designed for placing thermoplastic material in a hot molten state on the pavement surface utilizing a pressure type application method. The thermoplastic stripe shall be formed by a die that is allowed to drag along in proximity with the pavement surface. The die is pulled forward by a special linkage that will allow it to automatically level itself as to float and remain parallel with the pavement surface. The traffic stripe shall be formed by reason that the hot thermoplastic material is forced under pressure through four sides to the die onto the pavement surface. The top of the die shall be enclosed and provide entry means for the hot molten thermoplastic material to enter the die cavity. The bottom of the die shall contain a movable door that is remote controlled so as to start or stop the flow of thermoplastic material onto the pavement surface. When the movable door is open, thermoplastic material can flow through the die and will apply a thermoplastic stripe that will be formed rearward of the advancing die. The pavement surface shall be at the bottom of the die enclosure. Thermoplastic material shall be fed to the die under pressure through flexible oil-jacketed stainless steel hoses. The thermoplastic material must be either pumped or fed from a pressure vessel to the die under pressure in order to obtain the proper adhesion with the pavement surface.

The system shall consist of a low pressure drop-on type glass bead gun, (bead coat #1). The thermoplastic die shall be oil-jacketed on four (4) sides and is formed from a single solid block of steel. The glass bead gun shall dispense glass beads onto the hot thermoplastic stripe from a height of approximately one (1) inch above the pavement surface. The point at which the glass beads strike the surface of the stripe shall be approximately three inches (3") behind the strike point of the thermoplastic material itself. This reflective bead coat #1 shall utilize Class G glass beads as specified herein, and shall provide a surface coating of 50 percent of the thermoplastic stripe surface. Of this 50 percent stripe coverage, at least 50 percent of the beads shall be embedded to a depth of 60 percent of their diameter.

A second curtain coater, low pressure drop-on type glass bead gun capable of applying a continuous sheet or ribbon of glass beads, shall follow at an interval of approximately 10 inches behind the first bead gun. This second glass bead gun shall apply bead coat #2 which will form a continuous drop-on coat of Class H glass beads immediately in front of the profiling device. This second curtain of glass beads shall have a low impact speed so that they are not forced into the stripe under pressure.

A special rotatable wheel profiling device shall be located approximately eight (8) inches behind bead gun #2. This rotatable wheel device shall be approximately seven (7) inches in diameter and shall have a plurality of spaced projections located around its circumference. The profiling device shall be wider than the stripe being applied in order that the stripe shall be adequately covered. The projections on the rotatable profiling device shall have an angular profiling surface set at an angle to the pavement surface. The rotatable profile device shall be mounted with an automatic leveling device to the same carriage assembly as the thermoplastic gun. This is required so that a traffic stripe of accurate and uniform definition can be obtained. The inverted profile grooves shall be pressed into the hot molten thermoplastic stripe within one (1) second of the thermoplastic material application in order to insure proper bead adhesion to the stripe. Using rollers to place grooves in the traffic stripe utilizing a separate vehicle or grooves that are not pressed within one (1) second of the thermoplastic material application will not be allowed. To insure that no thermoplastic material adheres to the wheel as it rotates and profiles the stripe, a small air atomizer water jet shall apply a thin mist coat of water to the rotatable profile wheel. It is the intent of this specification that a minimum amount of water be used and that no water puddles greater than  $\frac{1}{4}$  inch in diameter be allowed to accumulate on the pavement surface in proximity to the freshly placed stripe. Excess water on the pavement surface can cause bond failure of the thermoplastic material.

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All parts of the thermoplastic holding tank including manifolds, hoses, pipes, dies, etc., shall be oil-jacketed to insure accurate temperature control. The thermoplastic material shall be preheated in kettles designed specifically for that purpose. Each kettle of preheated thermoplastic material shall be properly mixed and heated to the correct application temperature. The preheated material shall then be fed to the thermoplastic gun for application.

The striping machine shall contain enough glass beads and water to apply one full kettle of thermoplastic material.

<u>907-624.03.2--Cleaning of Pavement Surface.</u> Immediately before application, the areas to receive markings shall be cleaned thoroughly using equipment capable of cleaning without damaging the pavement surface. This will include, but not be limited to, all vegetation, loose soil, oils, and other debris. On areas of pavement cured with compound, the membrane shall be removed completely by "shot" blasting, sand blasting or other approved method. Striping shall follow as closely as practical after the pavement surface has been cleaned.

<u>907-624.03.3--Application Over Existing Striping</u>. Where shown on the plans or directed by the Engineer, the existing traffic stripe shall be removed by grinding or sandblasting. When placing inverted profile thermoplastic pavement markings on existing pavement that has more than one light coat (pavement not showing through stripe) of striping material, the existing stripe shall be removed to the point that 80 percent of the pavement surface is visible.

Removal of existing stripe will be paid for as a separate item of work.

Where unsatisfactory striping performed by the Contractor must be removed and replaced in accordance with these specifications, the Contractor shall use the removal method described above. No payment will be made for removal or replacement of the Contractor's unsatisfactory striping.

<u>907-624.03.4--Surface Conditions.</u> When placing inverted profile thermoplastic pavement markings, no striping shall be permitted when the pavement surface temperature is less than 60°F. A non-contact infrared pyrometer shall be furnished by the Contractor for use by the Engineer for verification of the temperature. Striping shall not be performed when there is moisture on the pavement surface or when winds exceed 12 mph. When unseen moisture is suspected to be present, a moisture test shall be performed. The test shall be as follows:

- 1) Place a piece of roofing felt on the pavement surface.
- 2) Pour 0.5 gallon of thermoplastic material at application temperature onto the paper.

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4) If moisture is present, striping is not to begin until the surface is moist free.

Documentation of weather and pavement conditions shall be recorded as part of completing the MDOT Inverted Profile Thermoplastic Pavement Marking Inspectors Report.

<u>907-624.03.5--Application</u>. Prior to the placement of pavement markings, the Contractor shall furnish the Engineer three copies of the manufacturer's warranty stating that the manufacturer will guarantee the pavement marking to meet the requirements of this specification.

The thermoplastic material shall be preheated and thoroughly mixed. The application temperature of the thermoplastic material shall be between 400°F and 430°F. A digital thermometer complete with a 24-inch probe shall be furnished by the Contractor for use by the Engineer for verification of the temperature.

When measured at the highest point of the profile, the cold thickness of the in-place thermoplastic stripe shall be a minimum of 0.140 inch for Inverted Profile Thermoplastic Pavement Markings. The thickness of the thermoplastic material in the bottom of the profiles shall range from 0.025 to 0.050 inch. The individual profiles shall be located transversely across the stripe at intervals of approximately one (1) inch. The bottoms of these intervals shall be between 3/32 inch and 5/16 inch wide. In order to drain water and to reflect light, it is normal for the top surface of the inverted profiles to be irregular. The application rate of thermoplastic material for Inverted Profile Thermoplastic Pavement Markings shall be a minimum of  $2700\pm$  pounds per mile for a continuous 6-inch stripe.

The application rate for Class G glass beads (bead coat #1) shall be 300± pounds per mile for 6-inch continuous stripe.

The application rate for Class H glass beads (bead coat #2) shall be 300± pounds per mile for 6-inch continuous stripe.

The thickness of the striping materials shall be verified periodically (at least every 1320 feet) and any thickness more than five (5) percent under the designated thickness shall be reworked. A consistent, uncorrected under-run will not be allowed and the Contractor will be required to install the specified minimum thickness of 0.140 inch. A wet thickness gauge and cold thickness gauge shall be furnished by the Contractor for use by the Engineer for the verification of film thickness.

When striping over existing painted stripe (one light coat), on old oxidized asphalt, on all concrete surfaces or on asphalt surfaces when ambient temperatures are below 70°F, a two component epoxy primer sealer shall be used and installed as recommended in writing by the thermoplastic material manufacturer. The epoxy primer sealer shall be EX255/EX256 as manufactured by Crown Paint Company of Oklahoma City, Oklahoma, or approved equal. The Contractor shall furnish certification of compatibility of the epoxy primer sealer to be used with the thermoplastic material supplied. If an alternate epoxy primer sealer to the EX255/EX256 is used, the Contractor

shall furnish a mill analysis and proof of adequate performance of the alternate epoxy primer sealer when used with thermoplastic pavement markings.

<u>907-624.03.6--Inverted Profile Thermoplastic Traffic Stripe, High Contrast.</u> Before applying the black pavement marking material, the Contractor shall remove any dirt, glaze, grease or any other material that would reduce the adhesion of the thermoplastic to the pavement.

The pavement marking material shall be installed in a molten state by the spray method at a minimum temperature of 350°F and a maximum temperature of 425°F. Scorching or discoloration of material shall be cause for rejection by the Engineer. The machinery shall be constructed so that all mixing and conveying parts, up to and including the thermoplastic gun, maintain the material in the molten state.

The pavement marking materials shall not be applied when air and pavement surface temperatures are below 60°F or when the surface of the pavement contains any evidence of moisture.

The pavement marking material shall be applied at a thickness of not less than 0.040-inch.

The equipment used to install hot applied pavement marking material shall provide continuous mixing and agitation of the material while maintaining a minimum temperature exceeding 400°F. A strainer shall be in place between the main material reservoir and the gun to prevent accumulation and clogging. The equipment shall be constructed for easy accessibility to parts requiring cleaning and maintenance.

After the black thermoplastic pavement markings are applied, inverted profile thermoplastic markings shall be placed over the black thermoplastic pavement markings in accordance with the specifications and to the dimensions and details shown on the plans or established.

<u>907-624.03.7--Warranty</u>. The manufacturer shall warrant that the inverted profile thermoplastic markings will meet the minimum performance level of 150 mcd/fc/sq. ft. dry and 75 mcd/fc/sq. ft. wet for a period of 48 months from the date of final inspection when exposed to normal roadway conditions regardless of the average daily traffic. Failure to meet this requirement will result in the total replacement of the portion of the stripe shown to be below these minimums. All costs of labor, material and other incidentals necessary for the replacement of unacceptable pavement markings shall be at no additional costs to the State.

Compliance will be determined by an average brightness reading over a minimum zone marking length of 300 linear feet, using an approved reflectometer. The zone of measurement referred to includes centerline stripe, edge lines and skip lines.

| Performance Requirements:            | White |     | Yellow |     |
|--------------------------------------|-------|-----|--------|-----|
| _                                    | Dry   | Wet | Dry    | Wet |
| Initial Reflectivity, mcd/fc/sq. ft. | 450   | 200 | 350    | 175 |
| 48-Month Retained Reflectivity       | 150   | 75  | 150    | 75  |

The measurement procedure for this warranty will entail a visual night inspection by a manufacturer representative and a MDOT representative to identify areas of the installation, which appear to be below the specified minimum, warranted reflectance value. All reflectance measurements for dry conditions shall be made on a clean dry surface at a minimum temperature of 40°F. All reflectance measurements for wet conditions shall be made using the setting conditions of Subsection 907-624.02.2.8 at a minimum temperature of 40°F.

Measurement intervals for installations with areas less than, or equal to, three (3) miles shall be at a minimum of three (3) check points for each zone. These check points should include the start point, approximate mid-point and the end point.

Measurement intervals for installations with areas greater than three (3) miles shall be at a minimum of three (3) check points, one at the start point, one at the end point and additional measurements spaced at 3-mile intervals between the start and end points of the area in question.

The number of measurements at each check point for each zone will be as follows:

- (A) Skip Lines: Eighteen (18) measurements, distributed over six (6) skip lines, shall be made at each check point.
- (B) Center Lines and/or Edge Lines: Eighteen (18) measurements shall be made over 300 linear feet of continuous stripe.

When taking reflectivity measurements, the value of the measurement shall be determined by averaging three measurements; one at the left edge of the stripe, one at the center of the stripe and one at the right edge of the stripe.

In addition, the reflectance values measured at each check point shall be averaged by zone to determine conformance to the minimum warranted reflective values.

<u>907-624.04--Method of Measurement.</u> Inverted profile thermoplastic traffic stripe of the type specified will be measured by the mile or by the linear foot, as indicated, from end-to-end of individual stripes. In the case of skip lines the measurement will include skips. The length used to measure centerline and edge stripes will be the horizontal length computed along the stationed control line. Inverted profile thermoplastic detail traffic stripe will be measured by the linear foot from end-to-end of individual stripes. Measurements will be made along the surface of each stripe and will exclude skip intervals where skips are specified. Stripes more than six (6) inches in width will be converted to equivalent lengths of six-inch widths.

<u>907-624.05-Basis of Payment.</u> Inverted profile thermoplastic traffic stripe, measured as prescribed above, will be paid for at the contract unit price per mile or linear foot, as applicable, which shall be full compensation for completing the work.

Payment will be made under:

| 907-624-A: | 6" Inverted Profile Thermoplastic Traffic Stripe, Skip White *           | - per linear foot<br>or mile |
|------------|--|------------------------------|
| 907-624-B: | 6" Inverted Profile Thermoplastic Traffic Stripe,<br>Continuous White *  | - per linear foot<br>or mile |
| 907-624-C: | 6" Inverted Profile Thermoplastic Traffic Stripe, Skip Yellow *          | - per linear foot<br>or mile |
| 907-624-D: | 6" Inverted Profile Thermoplastic Traffic Stripe,<br>Continuous Yellow * | - per linear foot<br>or mile |
| 907-624-E: | Inverted Profile Thermoplastic Detail Traffic Stripe, Color *            | - per linear foot            |

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\* High Contrast may be specified

# **SPECIAL PROVISION NO. 907-626-4**

CODE: (SP)

DATE: 03/06/2017

# SUBJECT: Thermoplastic Blue ADA Markings

Section 626, Thermoplastic Traffic Markings, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-626.04--Method of Measurement.</u> After the last sentence of the last paragraph of Subsection 626.04 on page 495, add the following.

Cold Plastic Legend, Handicap Symbol of the color specified will be measured per each as determined by actual count in place.

<u>907-626.05--Basis of Payment.</u> After the last pay item listed in Subsection 626.05 on page 496, add the following:

907-626-H: Thermoplastic Legend, Handicap Symbol, <u>Color</u> - per each

# **SPECIAL PROVISION NO. 907-899-1**

CODE: (SP)

DATE: 01/17/2017

# **SUBJECT:** Railway-Highway Provisions

Section 907-899, Railway-Highway Provisions, is hereby added to and made part of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows:

# SECTION 907-899--RAILWAY-HIGHWAY PROVISIONS

<u>907-899.01--Description</u>. This special provision addresses the Contractor's involvement with railroad flagging, Contractor Safety Orientation, Contractor Background Investigation, Contractor Roadway Worker on Track Safety Program and Safety Action Plan, and any other requirements set forth by the Railroad and any attached Exhibits.

Prior to bidding, the Contractor shall read and comply with the requirements of the Railroad and any attached Exhibits. The Contractor shall contact the Railroad concerning insurance coverage requirements, Railroad flagging costs, Contractor Safety Orientation, Contractor Background Investigation, Contractor Roadway Worker on Track Safety Program and Safety Action Plan, and any other requirements set forth by the Railroad and any attached Exhibits. In case the railroad requires coverage over and above that required by the Standard Specifications, the railroad requirements shall be met.

If in the opinion of the RAILROAD, the presence of an authorized representative of the RAILROAD is required to supervise the same, <u>the RAILROAD shall render bills to the Contractor</u> for all expenses incurred by it for such supervision. This includes all labor costs for flagmen or cable locate supplied by the RAILROAD to protect RAILROAD operation, and for the full cost of furnishing, installation and later removal of any temporary supports for said tracks, as the RAILROAD's Chief Engineer's Office may deem necessary.

# It will be the Contractor's responsibility to pay all bills associated with the Railroad requirements and any attached Exhibits.

A cable locate of RAILROAD owned facilities may be required to identify and protect Signal & Communication cables that have been installed to provide power, signal control, wayside communications. These cables are vital to a safe and reliable railway operation. The cable locate will be performed by a qualified RAILROAD employee.

Outside Contractors are prohibited from driving on, along, or across <u>any</u> track that does not have a RAILROAD installed crossing. They may utilize an existing public crossing. The practice of allowing rubber tired equipment to operate over track with no crossing has been banned.

The Contractor shall complete and process any required forms addressed by the Railroad or any attached Exhibits. The Contractor shall not commence or carry on any form of work on, under, above or within the designated distance from the Railroad track prior to getting approval from the Railroad.

# 907-899.02--Blank.

<u>907-899.03--Construction Requirements</u>. The Contractor shall read and comply with the requirements of the Railroad and any attached Exhibits.

<u>907-899.04--Method of Measurement.</u> Railway-highway provisions will be measured as a unit lump sum quantity. Measurement for payment will be in accordance with the following schedule:

- a) On the first estimate, twenty five percent (25%) of the amount bid for Railway Highway Provision will be paid.
- b) When twenty five percent (25%) of the original contract amount is earned from all direct pay items, fifty percent (50%) of the amount bid for Railway Highway Provision will be paid.
- c) When fifty percent (50%) of the original contract amount is earned from all direct pay items, one hundred percent (100%) of the amount bid for Railway Highway Provision will be paid.

<u>907-899.05--Basis of Payment.</u> Railway-highway provisions, measured a prescribed above, will be paid for at the contract lump sum price, which price shall be payment in full for all insurance coverage requirements, railroad flagging costs, Contractor safety orientation, Contractor background investigation, Contractor safety programs and plans, and any other requirements set forth by the Railroad and any attached Exhibits, and other incidentals necessary to complete the requirements of this work.

Payment will be made under:

907-899-A: Railway-Highway Provisions

- lump sum

# SECTION 905 - PROPOSAL

|   | Date                   |  |
|---|------------------------|--|
| Mississippi Transportation Commission                                     |                        |  |
| Jackson, Mississippi  |                        |  |
| Sirs: The following proposal is made on behalf of                         |                        |  |
| of  |                        |  |
|   |                        |  |
| for constructing the following designated project(s) within the time(s) h | nereinafter specified. |  |

The plans are composed of drawings and blue prints on file in the offices of the Mississippi Department of Transportation, Jackson, Mississippi.

The Specifications are the current Standard Specifications of the Mississippi Department of Transportation approved by the Federal Highway Administration, except where superseded or amended by the plans, Special Provisions and Notice(s) to Bidders attached hereto and made a part thereof.

I (We) certify that I (we) possess a copy of said Standard and any Supplemental Specifications.

Evidence of my (our) authority to submit the Proposal is hereby furnished. The proposal is made without collusion on the part of any person, firm or corporation. I (We) certify that I (we) have carefully examined the Plans, the Specifications, including the Special Provisions and Notice(s) to Bidders, herein, and have personally examined the site of the work. On the basis of the Specifications, Special Provisions, Notice(s) to Bidders, and Plans, I (we) propose to furnish all necessary machinery, tools, apparatus and other means of construction and do all the work and furnish all the materials in the manner specified. I (We) understand that the quantities mentioned herein are approximate only and are subject to either increase or decrease, and hereby propose to perform any increased or decreased quantities of work at the unit prices bid, in accordance with the above.

I (We) acknowledge that this proposal will be found irregular and/or non-responsive unless a certified check, cashiet's check, or Proposal Guaranty Bond in the amount as required in the Advertisement (or, by law) is submitted electronically with the proposal or is delivered to the Contract Administration Engineer prior to the bid opening time specified in the advertisement.

INSTRUCTION TO BIDDERS: Alternate and Optional Items on Bid Schedule.

- 1. Two or more items entered opposite a single unit quantity WITHOUT DEFINITE DESIGNATION AS "ALTERNATE ITEMS" are considered as "OPTIONAL ITEMS". Bidders may or may not indicate on bids the Optional Item proposed to be furnished or performed WITHOUT PREJUDICE IN REGARD TO IRREGULARITY OF BIDS.
- 2. Items classified on the bid schedule as "ALTERNATE ITEMS" and/or "ALTERNATE TYPES OF CONSTRUCTION" must be preselected and indicated on bids. However, "Alternate Types of Construction" may include Optional Items to be treated as set out in Paragraph 1, above.
- 3. Optional items not preselected and indicated on the bid schedule MUST be designated in accordance with Subsection 102.06 prior to or at the time of execution of the contract.
- 4. Optional and Alternate items designated must be used throughout the project.

I (We) further propose to perform all "force account or extra work" that may be required of me (us) on the basis provided in the Specifications and to give such work my (our) personal attention in order to see that it is economically performed.

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) shall submit electronically with our proposal or deliver prior to the bid opening time a certified check, cashier's check or bid bond for <u>five percent (5%) of total bid</u> 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.

# $S \ E \ C \ T \ I \ O \ N \quad 9 \ 0 \ 5 \ -- \ P \ R \ O \ P \ O \ S \ A \ L \quad (CONTINUED)$

I (We) hereby certify by digital signature and electronic submission via Bid Express of the Section 905 proposal below, that all certifications, disclosures and affidavits incorporated herein are deemed to be duly executed in the aggregate, fully enforceable and binding upon delivery of the bid proposal. I (We) further acknowledge that this certification shall not extend to the bid bond or alternate security which must be separately executed for the benefit of the Commission. This signature does not cure deficiencies in any required certifications, disclosures and/or affidavits. I (We) also acknowledge the right of the Commission to require full and final execution on any certification, disclosure or affidavit contained in the proposal at the Commission's election upon award. Failure to so execute at the Commission's request within the time allowed in the Standard Specifications for execution of all contract documents will result in forfeiture of the bid bond or alternate security.

|  | Respectfully Submitted,   |
|--|---------------------------|
|  | DATE                      |
|  | 6                         |
|  | Contractor<br>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 names, titles and business addresses of the executives are as | State of and the follows: |
| President  | Address                   |
| Secretary  | Address                   |
| Treasurer  | Address                   |

The following is my (our) itemized proposal.

### Proposal(Sheet 2-1)

Mill & Overlay approximately 12 miles of SR 25 from US 45 Interchange to US 278, & approximately 1 mile from US 278 to SR 6, known as State Project Nos. MP-1025-48(011) / 306071301, 302, & 303 in Monroe County.

| Line no. | Item Code     | Adj Code | Quantity | Units<br>Roadway I | Description[Fixed Unit Price]<br>tems                     |
|----------|---------------|----------|----------|--------------------|---|
| 0010     | 202-B050      |          | 250      | Linear Feet        | Removal of Concrete Combination Curb & Gutter             |
| 0020     | 202-B240      |          | 5,900    | Linear Feet        | Removal of Traffic Stripe                                 |
| 0030     | 304-A002      | (GY)     | 1,625    | Cubic Yard         | Granular Material, LVM, Class 3, Group C                  |
| 0040     | 403-A014      | (BA1)    | 25,250   | Ton                | 9.5-mm, MT, Asphalt Pavement                              |
| 0050     | 406-A002      |          | 290,700  | Square Yard        | Cold Milling of Bituminous Pavement, All Depths           |
| 0060     | 406-D001      |          | 16,250   | Square Yard        | Fine Milling of Bituminous Pavement, All Depths           |
| 0070     | 407-A001      | (A2)     | 15,160   | Gallon             | Asphalt for Tack Coat                                     |
| 0080     | 423-A001      |          | 4        | Mile               | Rumble Strips, Ground In                                  |
| 0090     | 618-A001      |          | 1        | Lump Sum           | Maintenance of Traffic                                    |
| 0100     | 618-B001      |          | 3        | Square Feet        | Additional Construction Signs                             |
| 0110     | 619-A1001     |          | 28       | Mile               | Temporary Traffic Stripe, Continuous White                |
| 0120     | 619-A2001     |          | 8        | Mile               | Temporary Traffic Stripe, Continuous Yellow               |
| 0130     | 619-A3001     |          | 2        | Mile               | Temporary Traffic Stripe, Skip White                      |
| 0140     | 619-A4002     |          | 12       | Mile               | Temporary Traffic Stripe, Skip Yellow                     |
| 0150     | 619-A5001     |          | 29,250   | Linear Feet        | Temporary Traffic Stripe, Detail                          |
| 0160     | 619-A6001     |          | 900      | Square Feet        | Temporary Traffic Stripe, Legend                          |
| 0170     | 619-A6002     |          | 6,550    | Linear Feet        | Temporary Traffic Stripe, Legend                          |
| 0180     | 620-A001      |          | 1        | Lump Sum           | Mobilization  |
| 0190     | 626-A004      |          | 2        | Mile               | 6" Thermoplastic Traffic Stripe, Skip White               |
| 0200     | 626-C004      |          | 28       | Mile               | 6" Thermoplastic Edge Stripe, Continuous White            |
| 0210     | 626-D003      |          | 12       | Mile               | 6" Thermoplastic Traffic Stripe, Skip Yellow              |
| 0220     | 626-E004      |          | 7        | Mile               | 6" Thermoplastic Traffic Stripe, Continuous Yellow        |
| 0230     | 626-G001      |          | 1,200    | Linear Feet        | Thermoplastic Detail Stripe, Blue-ADA                     |
| 0240     | 626-G002      |          | 15,050   | Linear Feet        | Thermoplastic Detail Stripe, White                        |
| 0250     | 626-G003      |          | 9,585    | Linear Feet        | Thermoplastic Detail Stripe, Yellow                       |
| 0260     | 626-H003      |          | 75       | Square Feet        | Thermoplastic Legend, Blue-ADA                            |
| 0270     | 626-H004      |          | 845      | Square Feet        | Thermoplastic Legend, White                               |
| 0280     | 626-H005      |          | 7,200    | Linear Feet        | Thermoplastic Legend, White                               |
| 0290     | 627-J001      |          | 1,225    | Each               | Two-Way Clear Reflective High Performance Raised Markers  |
| 0300     | 627-K001      |          | 200      | Each               | Red-Clear Reflective High Performance Raised Markers      |
| 0310     | 627-L001      |          | 1,360    | Each               | Two-Way Yellow Reflective High Performance Raised Markers |
| 0320     | 630-F006      |          | 110      | Each               | Delineators, Guard Rail, White                            |
| 0330     | 907-606-PP007 |          | 295      | Each               | Remove and Replace Guard Rail Blockouts                   |
| 0340     | 907-626-H001  |          | 14       | Each               | Thermoplastic Legend, Blue-ADA Handicap Symbol            |
|          |               |          |          |                    |   |

(Date Printed 04/26/17)

|                  | (Sheet 2-2)               |          |                      |                          | Monroe   |
|------------------|---------------------------|----------|----------------------|--------------------------|--|
| Line no.<br>0350 | Item Code<br>907-899-A001 | Adj Code | <b>Quantity</b><br>1 | <b>Units</b><br>Lump Sum | Description[Fixed Unit Price]<br>Railway-Highway Provisions            |
| 0550             | J07-0JJ-A001              |          |                      | -                        | JP AA NUMBER 1   |
| 0360             | 907-624-A002              |          | 800                  | Linear Feet              | 6" Inverted Profile Thermoplastic Traffic Stripe, Skip White           |
| 0370             | 907-624-B002              |          | 2,850                | Linear Feet              | 6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White     |
| 0380             | 907-624-D002              |          | 2,850                | Linear Feet              | 6" Inverted Profile Thermoplastic Traffic Stripe, Continuous<br>Yellow |
|                  |                           |          | AL                   | FERNATE GROU             | JP AA NUMBER 2   |
| 0390             | 628-G001                  |          | 800                  | Linear Feet              | 6" High Performance Cold Plastic Traffic Stripe, Skip White            |
| 0400             | 628-H001                  |          | 2,850                | Linear Feet              | 6" High Performance Cold Plastic Traffic Stripe, Continuous White      |
| 0410             | 628-J001                  |          | 2,850                | Linear Feet              | 6" High Performance Cold Plastic Traffic Stripe, Continuous<br>Yellow  |
|                  |                           |          |                      |                          | TCHOW  |
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SECTION 905 - COMBINATION BID PROPOSAL (Continued)

| T         | I otal Contract<br>Reduction |    |   |    |    |    |    |    | 0  |  |
|-----------|------------------------------|----|---|----|----|----|----|----|----|--|
| T 1 T4    | I otal Item<br>Reduction     |    |   |    |    |    |    |    |    |  |
| U 7: - 11 | Unit Price<br>Reduction      |    |   |    |    |    |    |    |    |  |
| T T 14    | Unit                         |    |   |    |    |    |    |    |    |  |
|           | Pay Item<br>Number           |    | 6 |    |    |    |    |    |    |  |
|           | Project Number               | 1. | 5 | 3. | 4. | 5. | 6. | 7. | 8. |  |

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

| BID PROPOSAL (Continued) | Project Number Pay Item Unit Unit Price Total Item Total Contract   Number Number Reduction Reduction Reduction |  | 10. |  | (c) If Combination C has been selected, then initial and complete ONE of the following. | I (We) desire to be awarded work not to exceed a total monetary value of \$ | I (We) desire to be awarded work not to exceednumber of contracts. |  |  |  |  |  |  |
|--------------------------|---|--|-----|--|---|---|--|--|--|--|--|--|--|
|--------------------------|---|--|-----|--|---|---|--|--|--|--|--|--|--|

Ś TION BID PROPOSAL SECTION 905 - COMBINA

# TO: EXECUTIVE DIRECTOR, MISSISSIPPI DEPARTMENT OF TRANSPORTATION JACKSON, MISSISSIPPI

# **CERTIFICATE**

If awarded this contract, I (we) contemplate that portions of the contract will be sublet. I (we) certify that those subcontracts which are equal to or in excess of fifty thousand dollars (\$50,000.00) will be in accordance with regulations promulgated and adopted by the Mississippi State Board of Contractors on September 8, 2011.

I (we) agree that this notification of intent <u>DOES NOT</u> constitute <u>APPROVAL</u> of the subcontracts.

| (Individual or Firm) | (Address) |
|----------------------|-----------|
| (Individual or Firm) | (Address) |
| (Individual or Firm) | (Address) |
| (Individual or Firm) | (Address) |

NOTE: Failure to complete the above <u>DOES</u> <u>NOT</u> preclude subsequent subcontracts. Subsequent subcontracts, if any, equal to or in excess of fifty thousand dollars (\$50,000.00) will be in accordance with regulations promulgated and adopted by the Mississippi State Board of Contractors on September 8, 2011.

Contractor \_\_\_\_\_

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION CERTIFICATION

| I, ,   |
|--|
| (Name of person signing bid)   |
| individually, and in my capacity as  |
| (Title of person signing bid)  |
| (Name of Firm, partnership, or Corporation)  |
| do hereby certify under penalty of perjury under the laws of the United States and the State of Mississippi  |
| that, Bidder   |
| (Name of Firm, Partnership, or Corporation)  |
| on Project No. MP-1025-48(011)/ 306071301000, MP-1025-48(011)/ 306071302000 & MP-1025-48(011)<br>/ 306071303000  |
| in <u>Monroe</u> County(ies), Mississippi, has not either directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its corporate officers or principal owners.   |
| Except as noted hereafter, it is further certified that said legal entity and its corporate officers, principal owners, managers, auditors and others in a position of administering federal funds are not currently under suspension, debarment, voluntary exclusion or determination of ineligibility; nor have a debarment pending; nor been suspended, debarred, voluntarily excluded or determined ineligible within the past three years by the Mississippi Transportation Commission, the State of Mississippi, any other State or a federal agency; nor been indicted, convicted or had a civil judgment rendered by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years. |
| Do exceptions exist and are made a part thereof? Yes / No  |
| Any exceptions shall address to whom it applies, initiating agency and dates of such action.   |
| Note: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.   |
| All of the foregoing is true and correct.  |

(1/2016 S)

### SECTION 902

### CONTRACT FOR MP-1025-48(011)/ 306071301000, MP-1025-48(011)/ 306071302000 & MP-1025-48(011)/ 306071303000

### LOCATED IN THE COUNTY(IES) OF Monroe

### STATE OF MISSISSIPPI, COUNTY OF HINDS

This contract entered into by and between the Mississippi Transportation Commission on one hand, and the undersigned contractor, on the other witnesseth;

That, in consideration of the payment by the Mississippi Transportation Commission of the prices set out in the proposal hereto attached, to the undersigned contractor, such payment to be made in the manner and at the time of times specified in the specifications and the special provisions, if any, the undersigned contractor hereby agrees to accept the prices stated in the proposal in full compensation for the furnishing of all materials and equipment and the executing of all the work contemplated in this contract.

It is understood and agreed that the advertising according to law, the Advertisement, the instructions to bidders, the proposal for the contract, the specifications, the revisions of the specifications, the special provisions, and also the plans for the work herein contemplated, said plans showing more particularly the details of the work to be done, shall be held to be, and are hereby made a part of this contract by specific reference thereto and with like effect as if each and all of said instruments had been set out fully herein in words and figures.

It is further agreed that for the same consideration the undersigned contractor shall be responsible for all loss or damage arising out of the nature of the work aforesaid; or from the action of the elements and unforeseen obstructions or difficulties which may be encountered in the prosecution of the same and for all risks of every description connected with the work, exceptions being those specifically set out in the contract; and for faithfully completing the whole work in good and workmanlike manner according to the approved Plans, Specifications, Special Provisions, Notice(s) to Bidders and requirements of the Mississippi Department of Transportation.

It is further agreed that the work shall be done under the direct supervision and to the complete satisfaction of the Executive Director of the Mississippi Department of Transportation, or his authorized representatives, and when Federal Funds are involved subject to inspection at all times and approval by the Federal Highway Administration, or its agents as the case may be, or the agents of any other Agency whose funds are involved in accordance with those Acts of the Legislature of the State of Mississippi approved by the Governor and such rules and regulations issued pursuant thereto by the Mississippi Transportation Commission and the authorized Federal Agencies.

The Contractor agrees that all labor as outlined in the Special Provisions may be secured from list furnished by

It is agreed and understood that each and every provision of law and clause required by law to be inserted in this contract shall be deemed to be inserted herein and this contract shall be read and enforced as though it were included herein, and, if through mere mistake or otherwise any such provision is not inserted, then upon the application of either party hereto, the contract shall forthwith be physically amended to make such insertion.

The Contractor agrees that he has read each and every clause of this Contract, and fully understands the meaning of same and that he will comply with all the terms, covenants and agreements therein set forth.

| Witness our signature   | es this the | day of,                               |
|---|-------------|---------------------------------------|
| Contractor(s)   |             |                                       |
| By  | -           | MISSISSIPPI TRANSPORTATION COMMISSION |
| Title   | By          |                                       |
| Signed and sealed in the presence of:<br>(names and addresses of witnesses) |             | Executive Director                    |
|   |             | Secretary to the Commission           |
|   |             | Commission in session on the day of   |
| Revised 8/06/2003   |             |                                       |

# SECTION 903 PERFORMANCE AND PAYMENT BOND

| CONTRACT BOND FO                      | DR: MP-1025-48(011)/ 306071301000, MP-1025-48(011)/ 306071302000 & MP-1025-48(011)/                 |
|---------------------------------------|---|
| LOCATED IN THE CC                     | <u>306071303000</u><br>UNTY(IES) OF: <u>Monroe</u>  |
| STATE OF MISSISSIP<br>COUNTY OF HINDS | ρĮ,   |
| Know all men by these J               | presents: that we,  |
|                                       | (Contractor)  |
| residing at                           | in the State of   |
| and                                   | (Surety)  |
| residing at                           | (Surety) in the State of,   |
| authorized to do busines              | s in the State of Mississippi, under the laws thereof, as surety, effective as of the contract date |
| shown below, are held a               | nd firmly bound unto the State of Mississippi in the sum of   |
|                                       |   |
| (\$                                   | ) Dollars, lawful money of the United States of America, to be paid to it for which                 |
| payment well and truly                | o be made, we bind ourselves, our heirs, administrators, successors, or assigns jointly and         |
| severally by these preser             | nts.  |
| The conditions of this be             | ond are such, that whereas the said   |
|                                       |   |
| principal, has (have) ent             | ered into a contract with the Mississippi Transportation Commission, bearing the date of            |
| day of                                | A.D hereto annexed, for the construction of certain projects(s) in                                  |
| the State of Mississippi              | as mentioned in said contract in accordance with the Contract Documents therefor, on file in the    |
| offices of the Mississipp             | i Department of Transportation, Jackson, Mississippi.   |

### Now therefore, if the above bounden

in all things shall stand to and abide by and well and truly observe, do keep and perform all and singular the terms, covenants, conditions, guarantees and agreements in said contract, contained on his (their) part to be observed, done, kept and performed and each of them, at the time and in the manner and form and furnish all of the material and equipment specified in said contract in strict accordance with the terms of said contract which said plans, specifications and special provisions are included in and form a part of said contract and shall maintain the said work contemplated until its final completion and acceptance as specified in Subsection 109.11 of the approved specifications, and save harmless said Mississippi Transportation Commission from any loss or damage arising out of or occasioned by the negligence, wrongful or criminal act, overcharge, fraud, or any other loss or damage whatsoever, on the part of said principal (s), his (their) agents, servants, or employees in the performance of said work or in any manner connected therewith, and shall be liable and responsible in a civil action instituted by the State at the instance of the Mississippi Transportation Commission or any officer of the State authorized in such cases, for double any amount in money or property, the State may lose or be overcharged or otherwise defrauded of, by reason of wrongful or criminal act, if any, of the Contractor(s), his (their) agents or employees, and shall promptly pay the said agents, servants and employees and all persons furnishing labor, material, equipment or supplies therefor, including premiums incurred, for Surety Bonds, Liability Insurance, and Workmen's Compensation Insurance; with the additional obligation that such Contractor shall promptly make payment of all taxes, licenses, assessments, contributions, damages,

Revised 09/02/2014

any liquidated damages which may arise prior to any termination of said principal's contract, any liquidated damages which may arise after termination of the said principal's contract due to default on the part of said principal, penalties and interest thereon, when and as the same may be due this state, or any county, municipality, board, department, commission or political subdivision: in the course of the performance of said work and in accordance with Sections 31-5-51 et seq. Mississippi Code of 1972, and other State statutes applicable thereto, and shall carry out to the letter and to the satisfaction of the Executive Director of the Mississippi Department of Transportation, all, each and every one of the stipulations, obligations, conditions, covenants and agreements and terms of said contract in accordance with the terms thereof and all of the expense and cost and attorney's fee that may be incurred in the enforcement of the performance of said contract, or in the enforcement of the conditions and obligations of this bond, then this obligation shall be null and void, otherwise to be and remain in full force and virtue.

| (Contractors) Principal | Surety                          |
|-------------------------|---------------------------------|
| By                      | By                              |
|                         | (Signature) Attorney in Fact    |
|                         | Address                         |
|                         |                                 |
| Title                   |                                 |
| (Contractor's Seal)     | (Printed) MS Agent              |
|                         | (Signature) MS Agent            |
|                         | Address                         |
|                         | •                               |
|                         |                                 |
|                         | (Surety Seal)                   |
|                         | Mississippi Insurance ID Number |
|                         |                                 |
|                         |                                 |
|                         |                                 |
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|                         |                                 |
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Revised 9/02/2014



# **BID BOND**

| KNOW ALL MEN BY THESE PRESENTS, that we_   |  |   |  |
|--|--|---|--|
|  | C  | Contractor  |  |
| _  |  | Address   |  |
| _  | Cit  | y, State ZIP  |  |
| As principal, hereinafter called the Principal, and  |  | Surety  |  |
| a corporation duly organized under the laws of the state   | e of   |   |  |
| as Surety, hereinafter called the Surety, are held and fir   | rmly bound unto <u>State of</u>  | Mississippi, Jackso   | on, Mississippi  |
| As Obligee, hereinafter called Obligee, in the sum of I  | Five Per Cent (5%) of Amo  | ount Bid  |  |
|  | Dollars(\$_  |   | )  |
| for the payment of which sum will and truly to be me<br>executors, administrators, successors and assigns, joint   |  |   | urselves, our heirs  |
| (011) / 306071301, 302, & 303 in Monroe County.<br>NOW THEREFORE, the condition of this obligation is<br>said Principal will, within the time required, enter into<br>performance of the terms and conditions of the contract<br>will pay unto the Obligee the difference in money betw<br>which the Obligee legally contracts with another party to<br>but in no event shall liability hereunder exceed the penal | a formal contract and give a<br>t, then this obligation to be v<br>veen the amount of the bid o<br>to perform the work if the la | good and sufficient<br>oid; otherwise the I<br>f the said Principal | t bond to secure the<br>Principal and Surety<br>and the amount for |
| Signed and sealed thisday of   | , 20,  |   |  |
|  |  | (Principal)   | (Seal)   |
| (Witness)  | By:  | (Name)  | (Title)  |
| (witness)  |  | (inallie)   | (The)  |
|  |  | (Surety)  | (Seal)   |
| (Witness)  | By:  | (Attorney-in-Fa   | ict)   |
|  |  | (MS Agent)  |  |

Mississippi Insurance ID Number

| FORM CSD-612         |                                    | YEAR.   | YEAR 2017 | PROGRE( | PROGRESS SCHEDULE |          |        |           |         | YEAR           |     | PROJECT NUMBER<br>COUNTY |      | MP-1025-48(011) / 305071302, &<br>MP-1025-48(011) / 306071303<br>Monroe | 011) / 30607 | 1303 œ    |            |                 |
|----------------------|------------------------------------|---------|-----------|---------|-------------------|----------|--------|-----------|---------|----------------|-----|--------------------------|------|---|--------------|-----------|------------|-----------------|
| WORK PHASE           |                                    | JAN FEB | MAR APRIL | RIL MAY | JUNE              | JULY     | AUGUST | SEPTEMBER | OCTOBER | NOV DECJAN FEB | MAR | APRIL MAY                | JUNE | JULY  | AUGUST       | SEPTEMBER | OCTOBER NO | NOV DEC         |
| Miscellaneous        | 10-30, 90-180, 320-350             |         |           |         |                   |          |        |           |         | 20             |     |                          |      |   |              |           |            |                 |
| Pavement             | 40-70                              |         |           |         |                   | <b>.</b> |        |           | 83      |                |     |                          |      |   |              |           |            |                 |
| Pavement<br>Markings | 80, 190-310, 360-410               |         |           |         |                   |          |        |           | 63 70   |                |     |                          |      |   |              |           |            |                 |
| <b>b</b>             |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
| LET.                 | May 23, 2017                       |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
| NOA:                 | June 13, 2017                      |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
| NTP/BCT:             | July 13, 2017                      |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
| W.D.:                | 70                                 |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      |                                    |         |           |         |                   |          |        |           |         |                |     |                          |      |   |              |           |            |                 |
|                      | MONTH                              | JAN FEB | MAR APRIL | RIL MAY | nue               | nr       | AUGUST | SEPTEMBER | OCTOBER | NOV DECJAN FEB | MAR | APRIL MAY                | JUNE | JULY  | AUGUST       | SEPTEMBER | OCTOBER NO | NOV DEC WORKING |
| ICIPATED V           | ANTICIPATED WORKING DAYS PER MONTH |         | +         | +       |                   | 3        |        |           |         |                |     | +                        | ł    |   |              |           | _          |                 |

# NOTE: THE ANTICIPATED WORKING DAYS SHOWN ON THIS SCHEDULE ARE FOR INFORMATIONAL PURPOSES ONLY. THE ACTUAL WORKING DAY TOTAL AS ASSESSED BY THE PROJECT ENGINEER ON FORM CSD-765 SHALL GOVERN.