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- 80

SM No. CSP5021500201

# PROPOSAL AND CONTRACT DOCUMENTS

## FOR THE CONSTRUCTION OF

80

Mill & Overlay approximately 11 miles of SR 21 from Dixon to SR 15, known as State Project No. SP-5021-50(020) / 108569301 in Neshoba County.

Project Completion: 94 Working Days

## (STATE DELEGATED)

#### NOTICE

#### BIDDERS MUST COMPLETE AN ONLINE REQUEST FOR PERMISSION 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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## PROJECT: SP-5021-50(020)/108569301 - Neshoba

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Progress Schedule

#### (REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET OF SECTION 905 AS ADDENDA) 07/28/2020 01:51 PM

#### **SECTION 901 - ADVERTISEMENT**

Electronic bids will be received by the Mississippi Transportation Commission at <u>10:00 o'clock</u> <u>A.M., Tuesday, August 25, 2020</u>, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Mill & Overlay approximately 11 miles of SR 21 from Dixon to SR 15, known as State Project No. SP-5021-50(020) / 108569301 in Neshoba 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.

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

Contractors may request permission to bid online at <u>http://shopmdot.ms.gov</u> at no cost. Upon approval, Contractors shall be eligible to submit a bid using Bid Express at <u>http://bidx.com</u>. Specimen proposals may be viewed and downloaded online at no cost at <u>http://mdot.ms.gov</u> or purchased online at <u>http://shopmdot.ms.gov</u> at a cost of Ten Dollars (\$10.00) per proposal plus a small convenience fee. <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

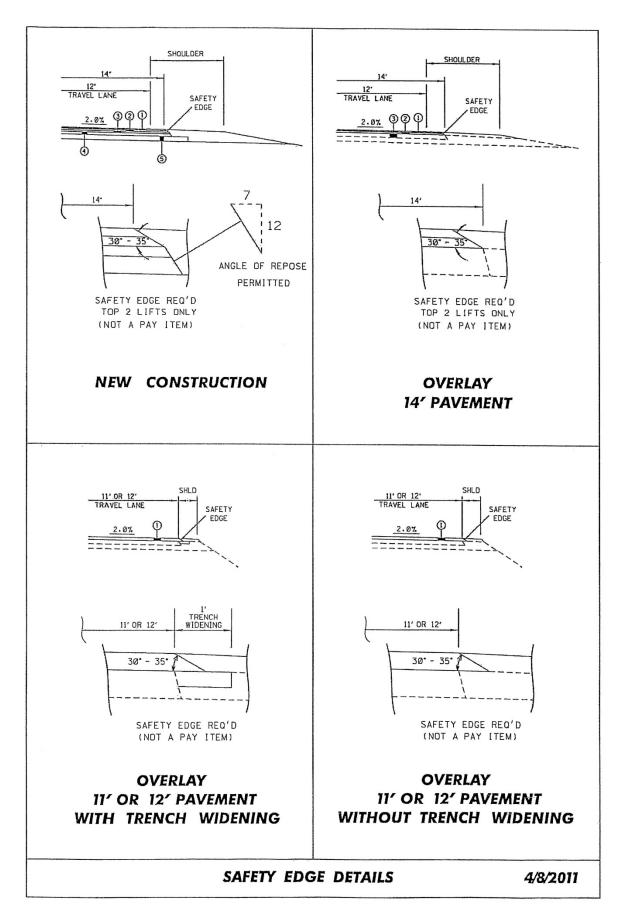
#### **SECTION 904 - NOTICE TO BIDDERS NO. 13**

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').



#### **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. 296**

CODE: (SP)

DATE: 07/25/2017

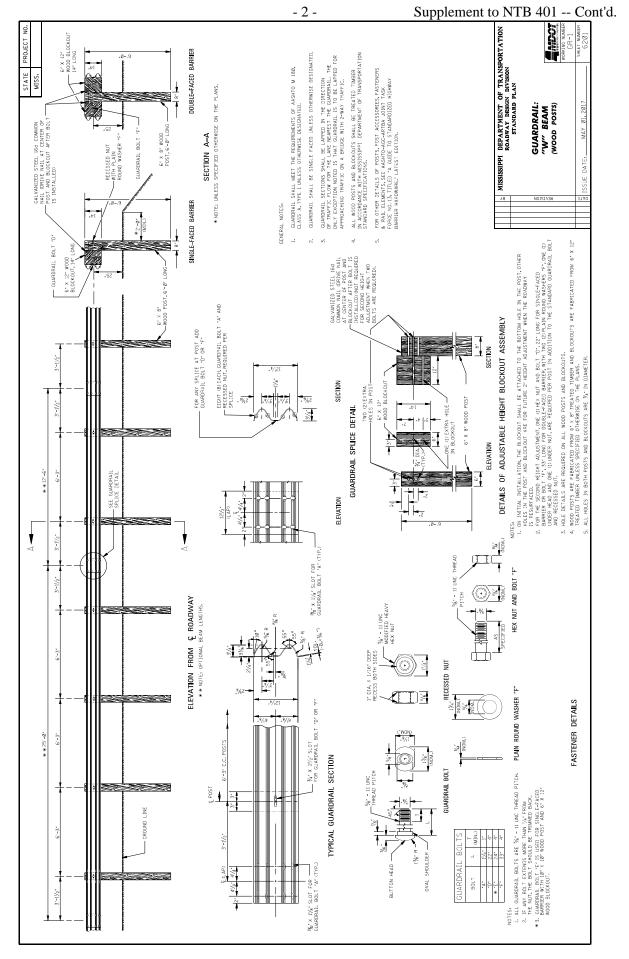
#### SUBJECT: Reduced Speed Limit Signs

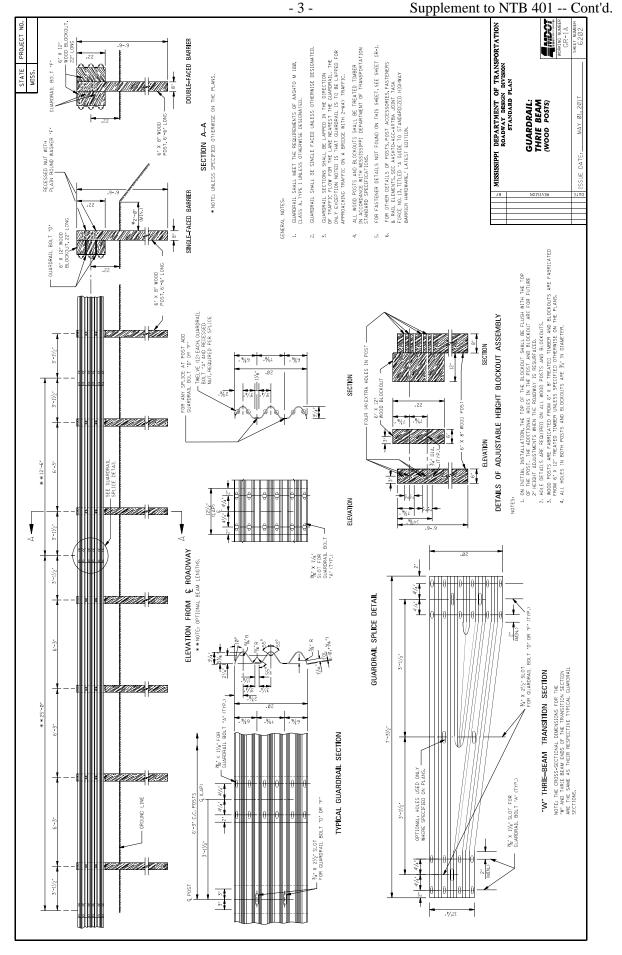
Bidders are advised that when the plans or contract documents require the speed limit on a project to be reduced, the Contractor shall begin work within 48 hours of installing the reduced speed limit signs. Should the Contractor not start work or have no plans to start work within 48 hours of installing the signs, the reduced speed limit signs shall be covered and existing speed limit signs uncovered.

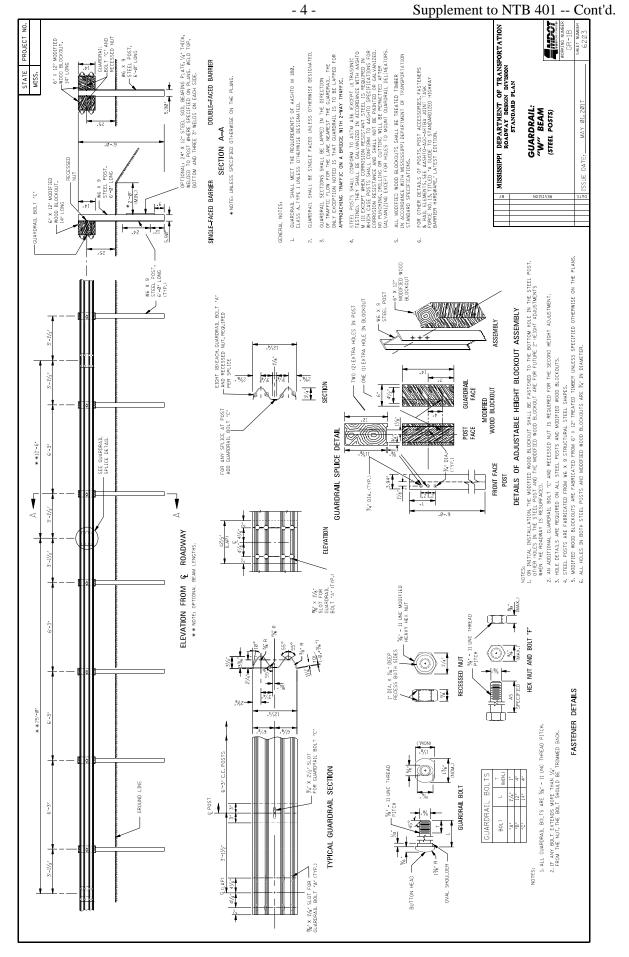
#### SUPPLEMENT TO NOTICE TO BIDDERS NO. 401

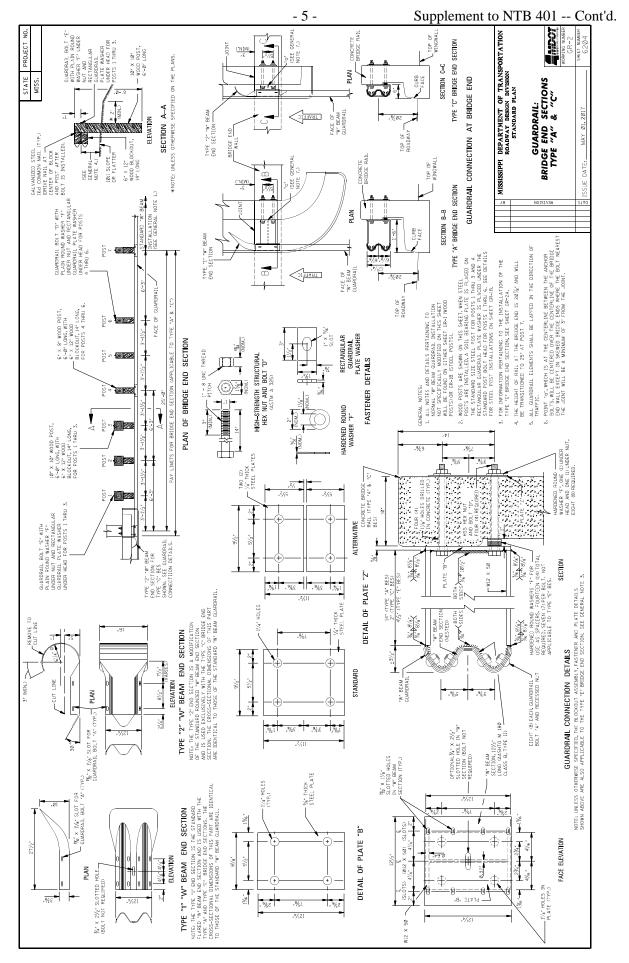
#### DATE: 09/12/2017

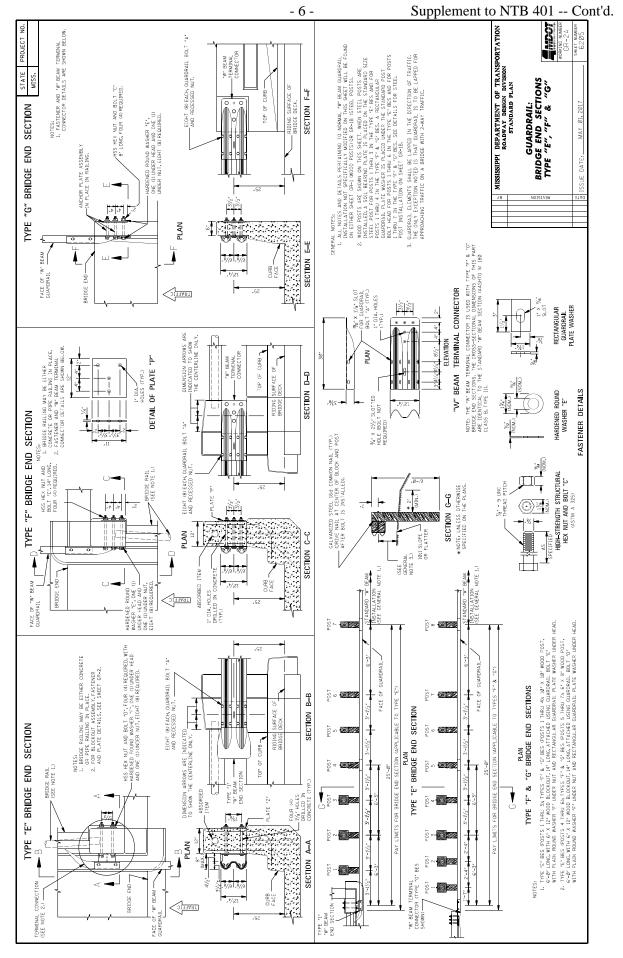
After the last drawing on page 25, add the following.

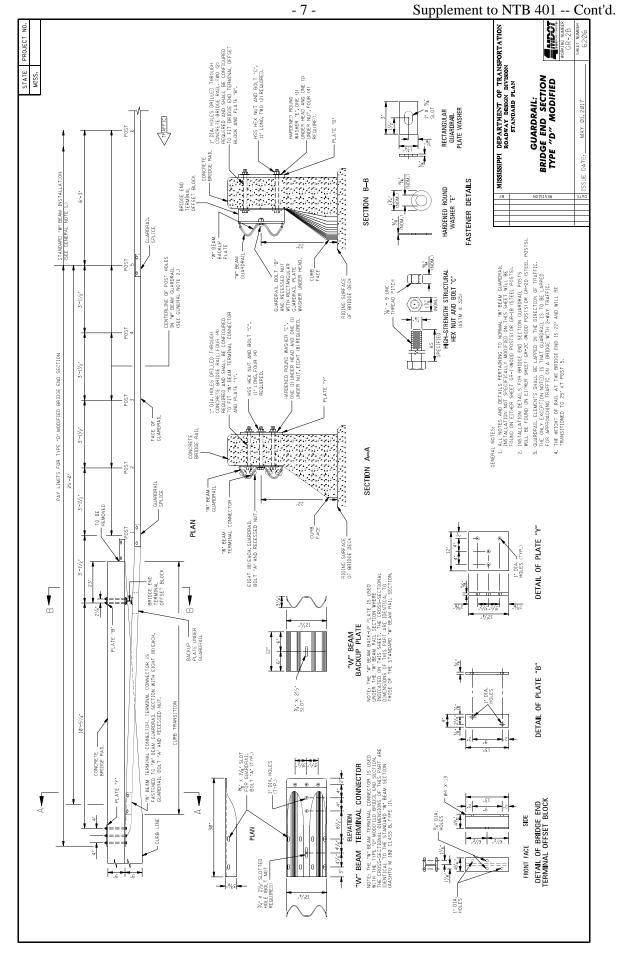


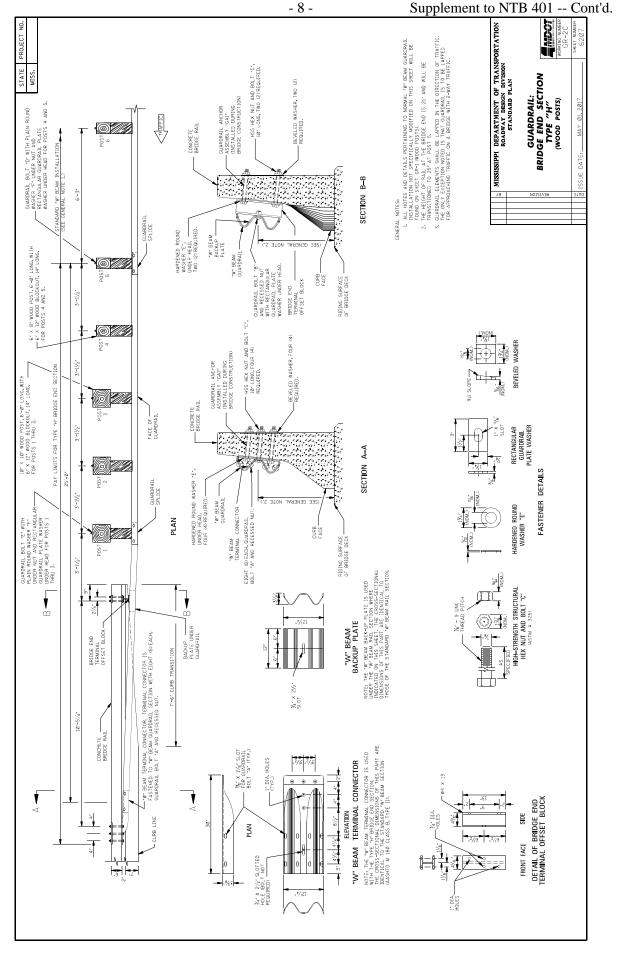


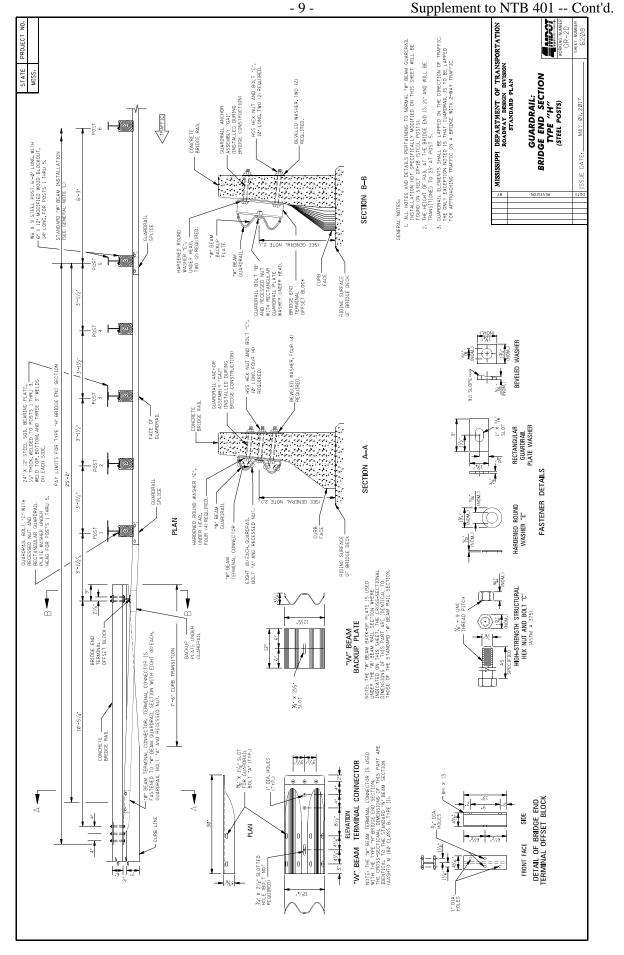


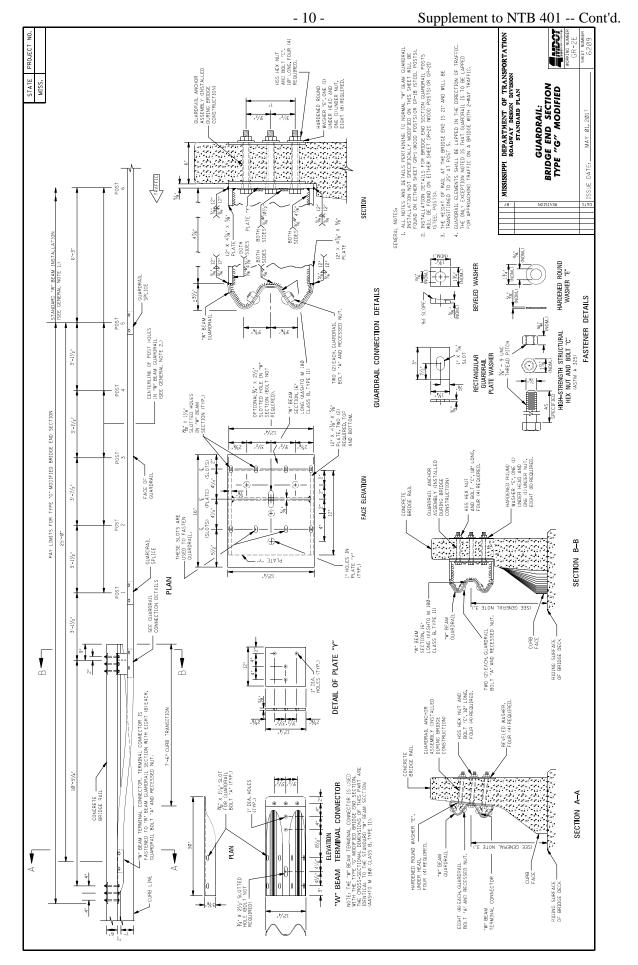


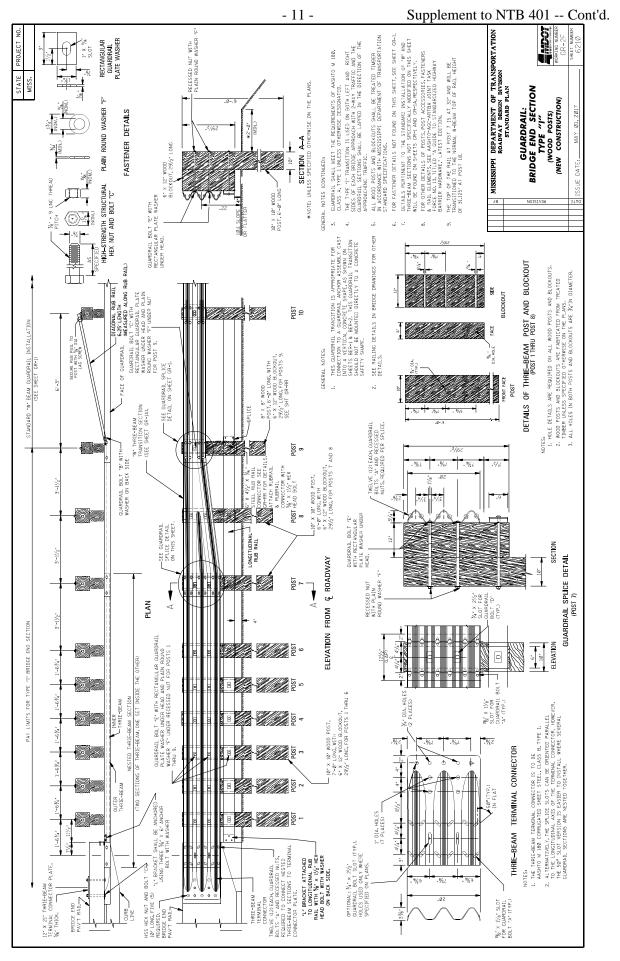


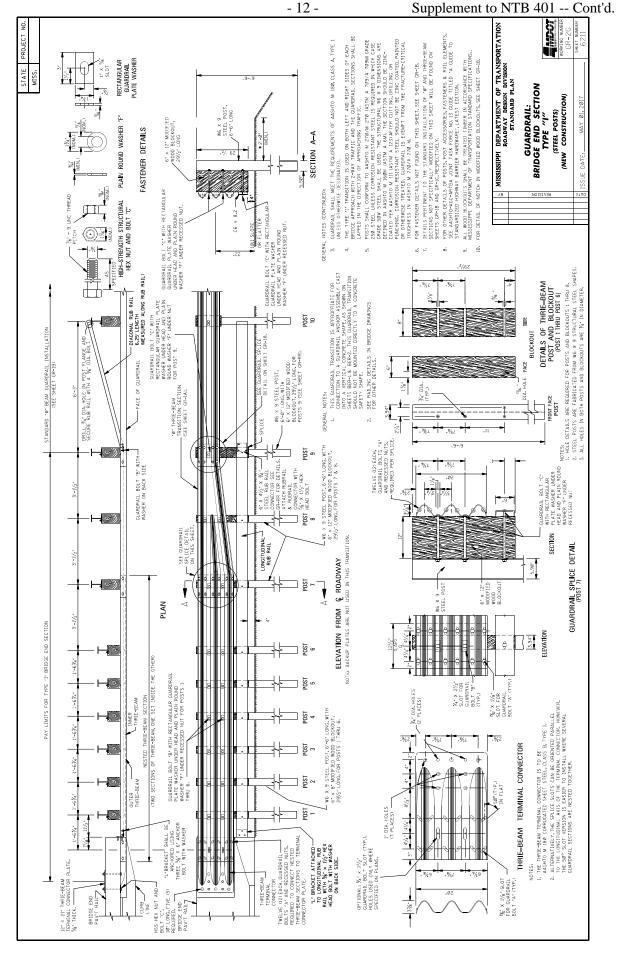


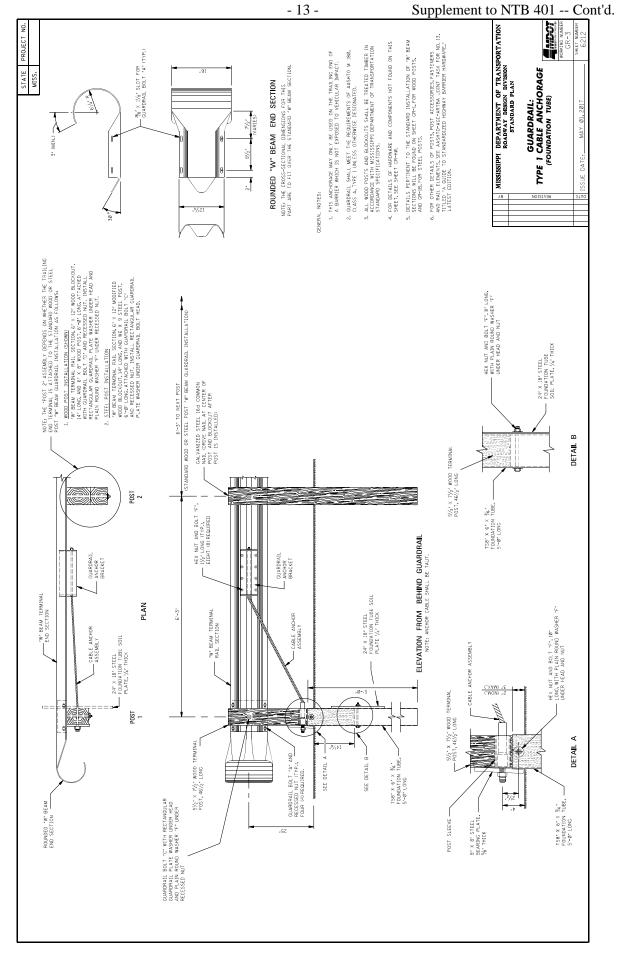


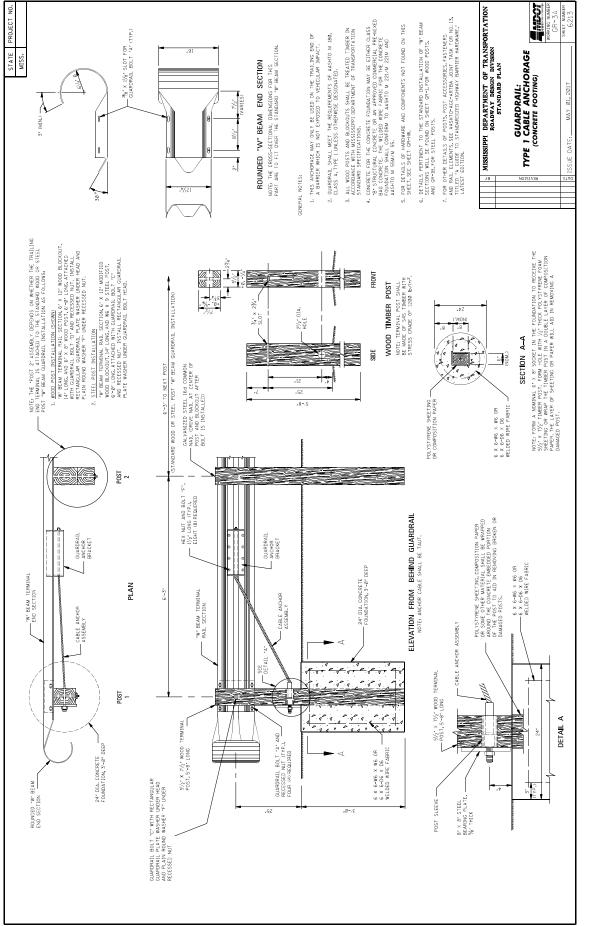




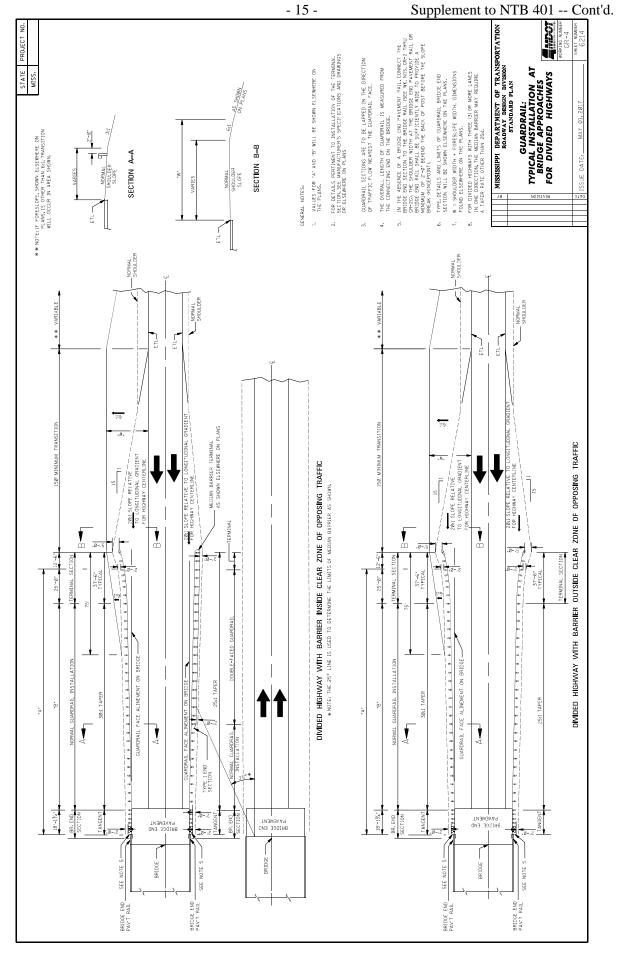


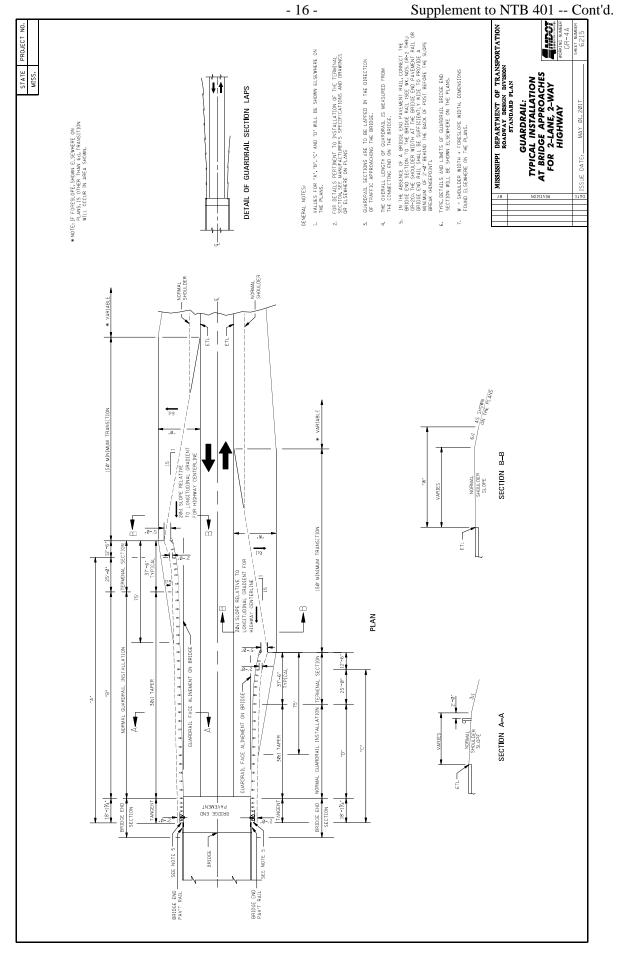


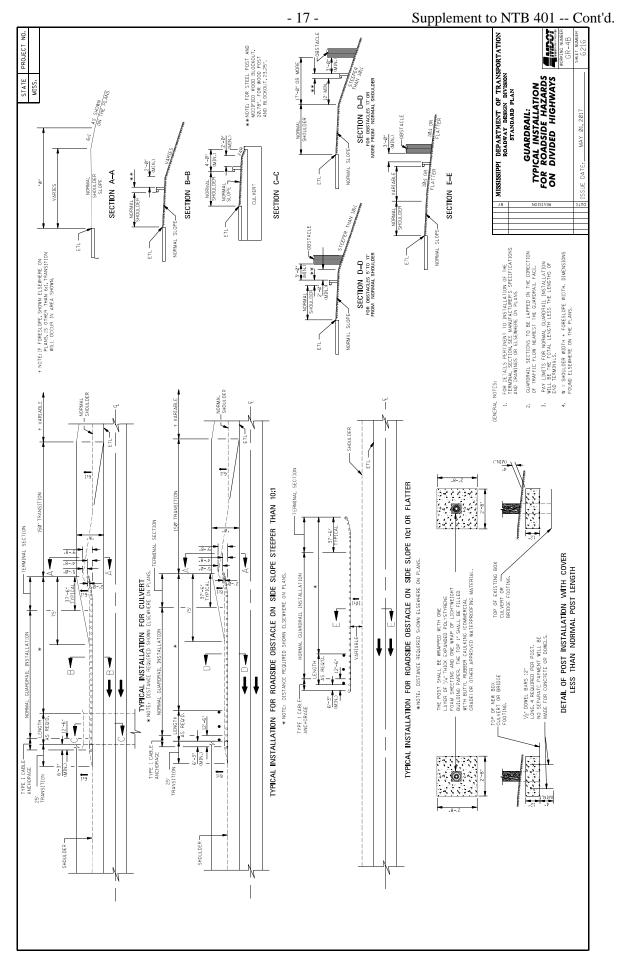


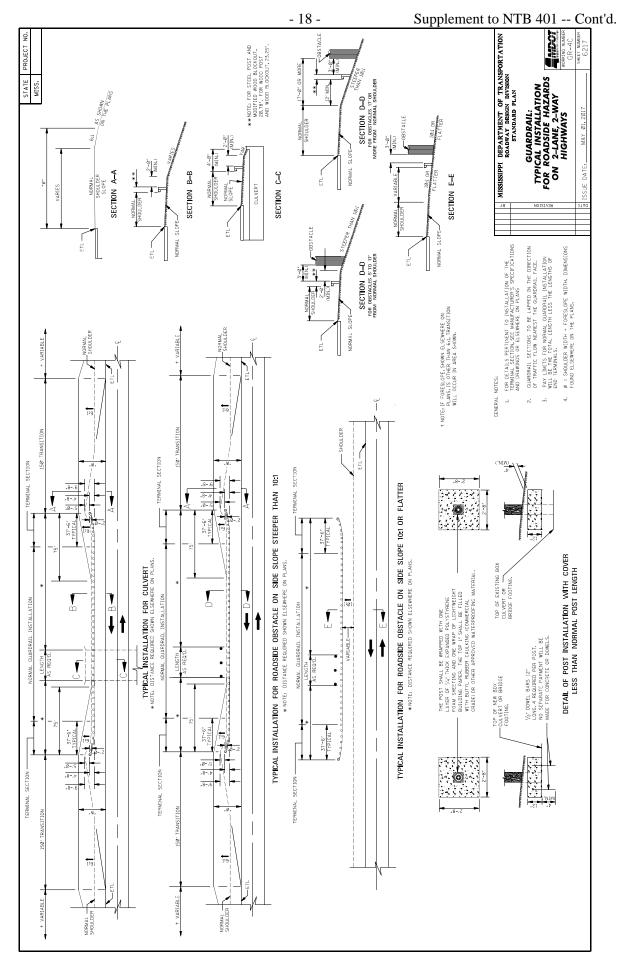


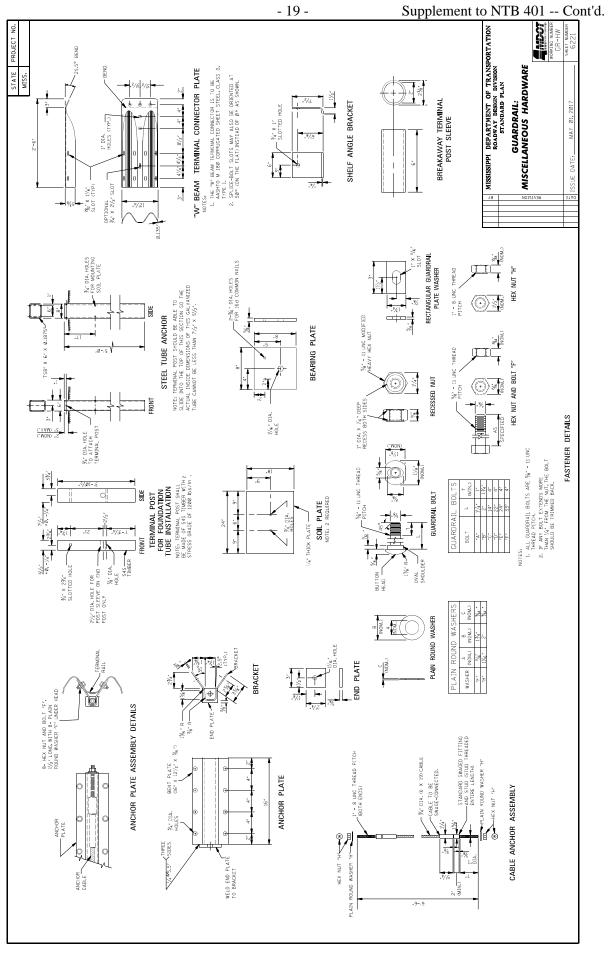
Supplement to NTB 401 -- Cont'd.

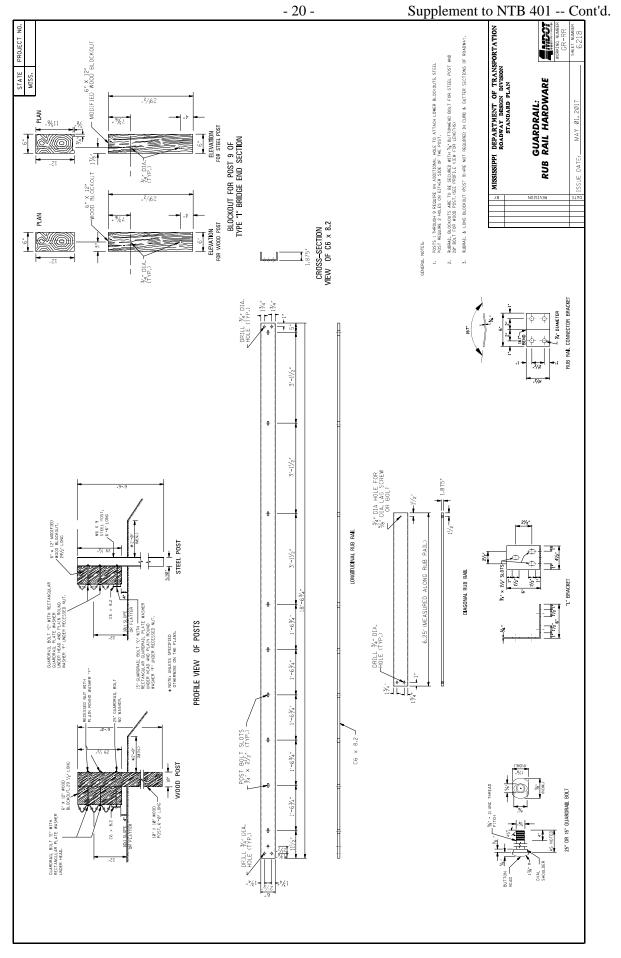


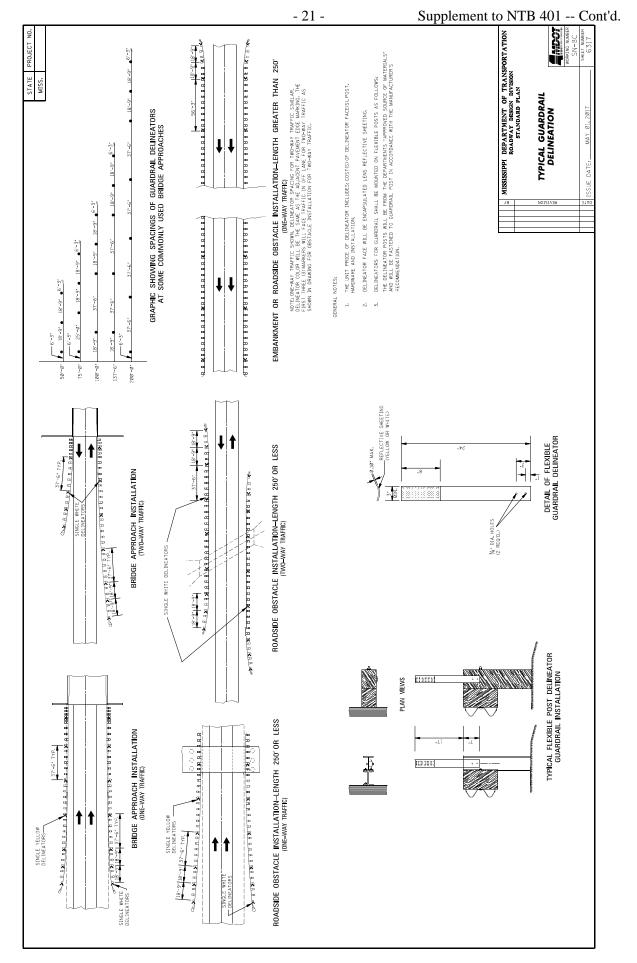












#### **SECTION 904 – NOTICE TO BIDDERS NO. 401**

CODE: (SP)

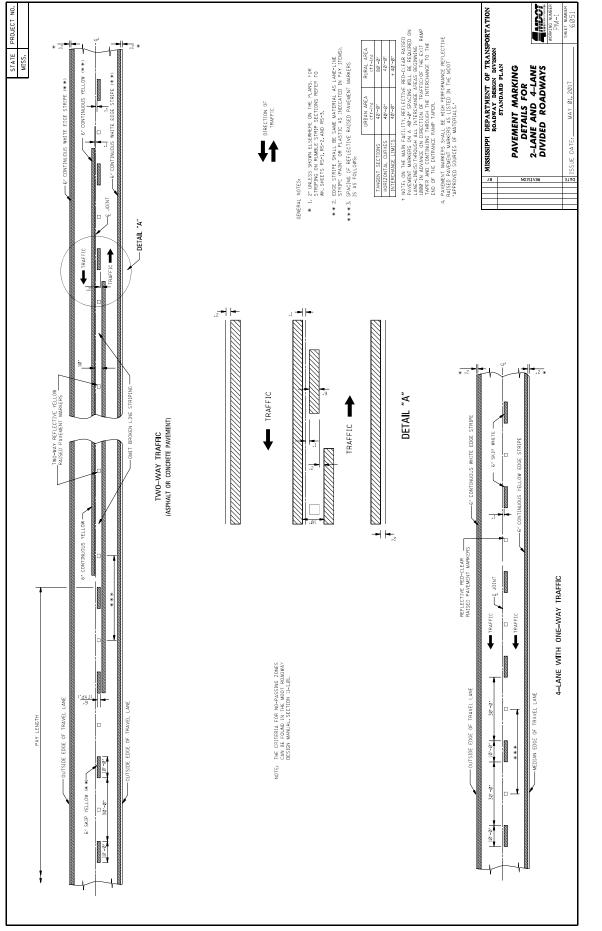
DATE: 09/12/2017

#### **SUBJECT:** Standard Drawings

The Standard Drawings attached hereto shall govern appropriate items of required work.

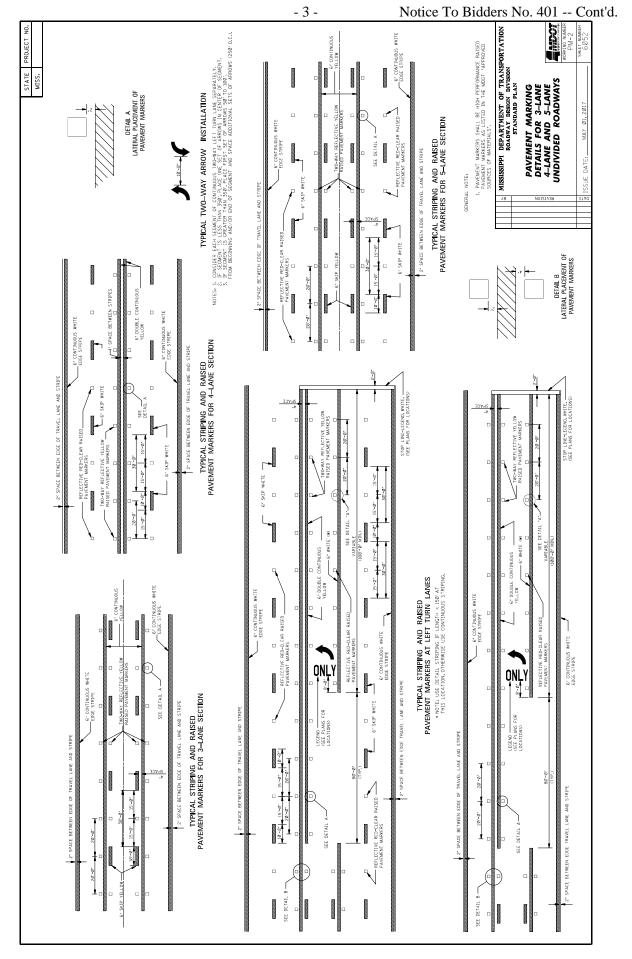
Larger copies of Standard Drawings may be purchased from:

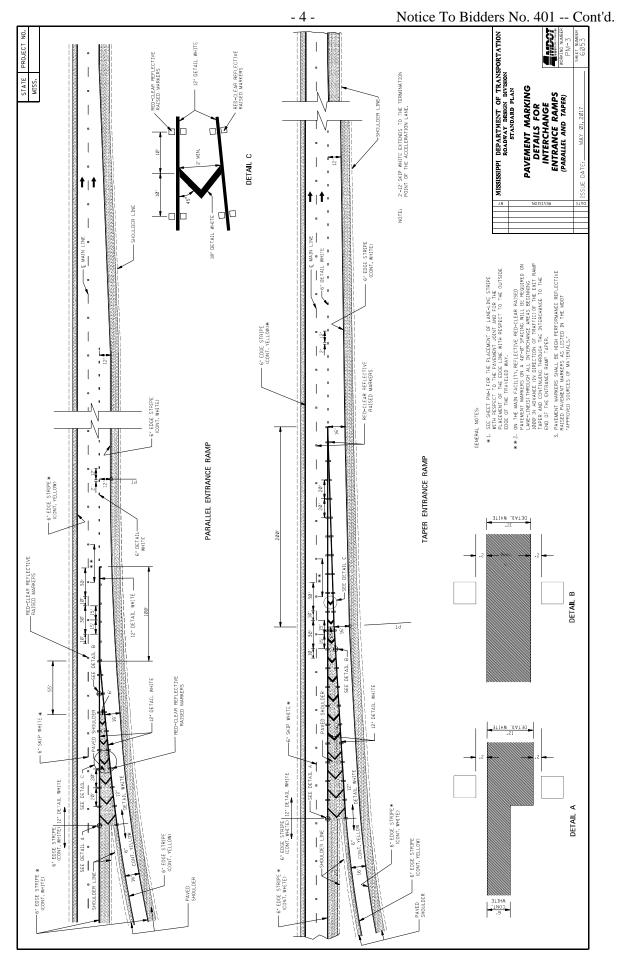
MDOT Plans Print Shop MDOT Shop Complex, Building C, Room 114 2567 North West Street P.O. Box 1850 Jackson, MS 39215-1850 Telephone: (601) 359-7460 or FAX: (601) 359-7461 or e-mail: <u>plans@mdot.state.ms.us</u>

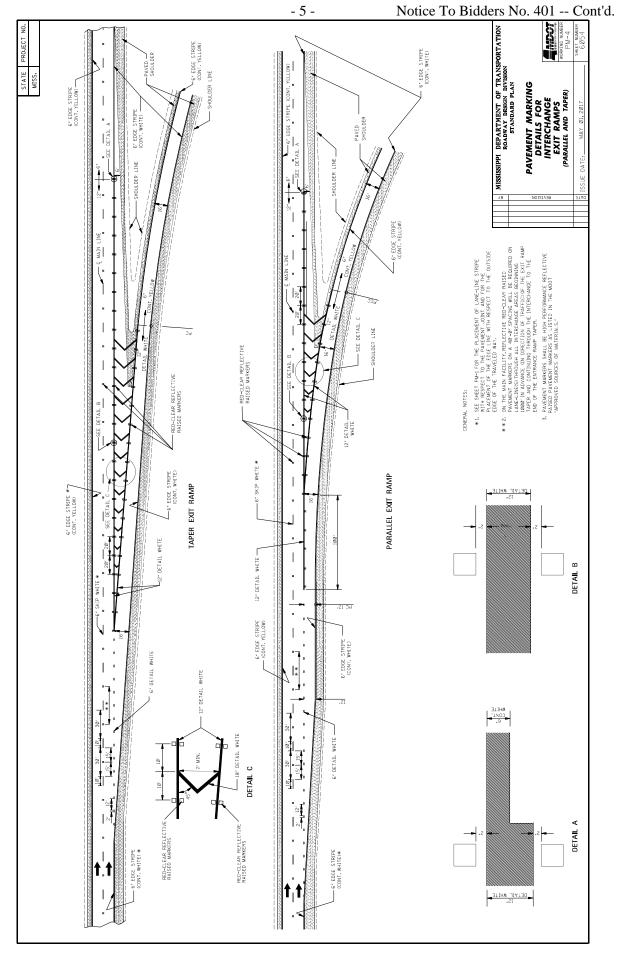


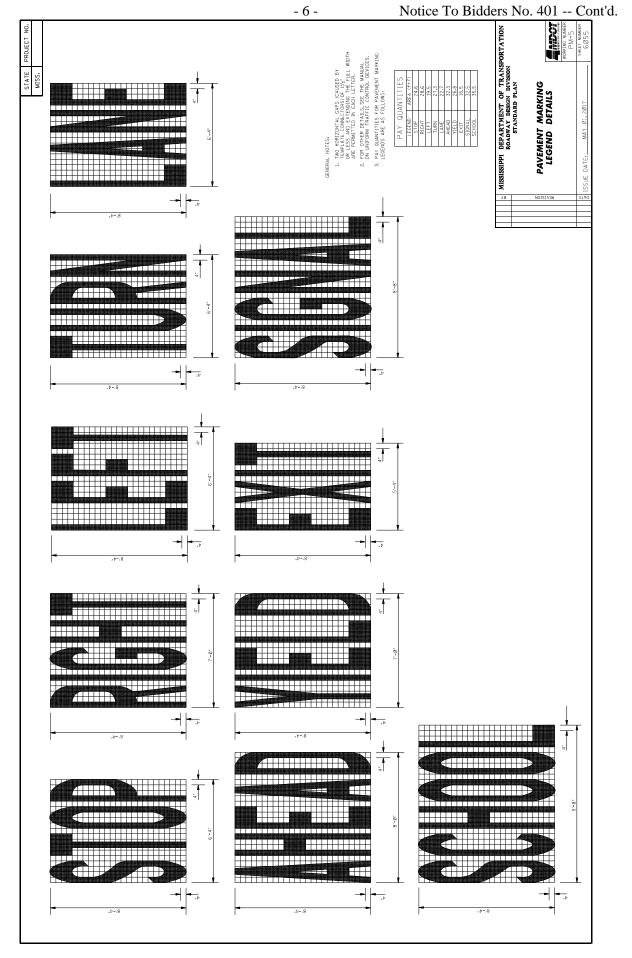
- 2 -

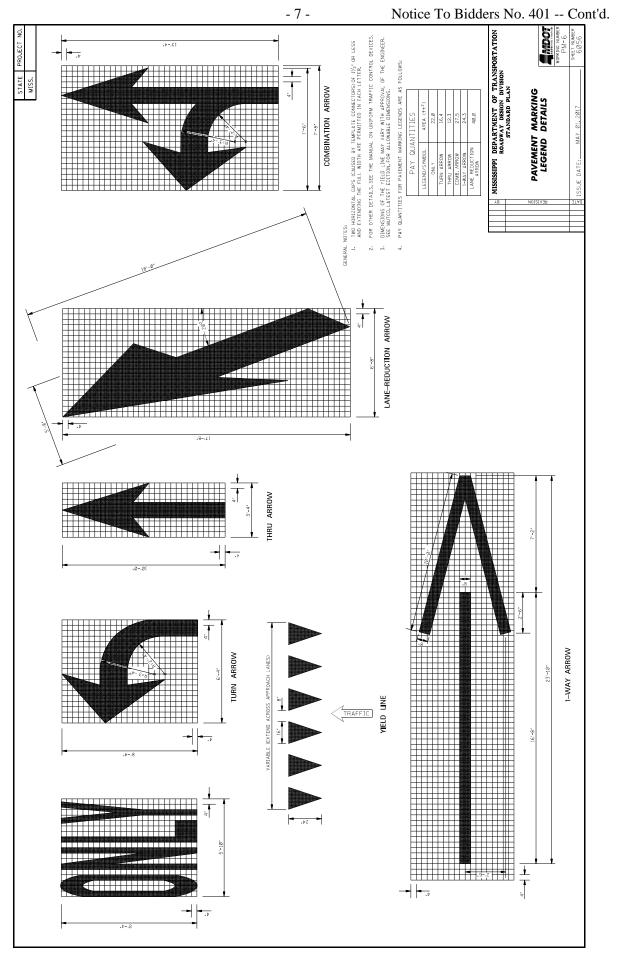
#### Notice To Bidders No. 401 -- Cont'd.

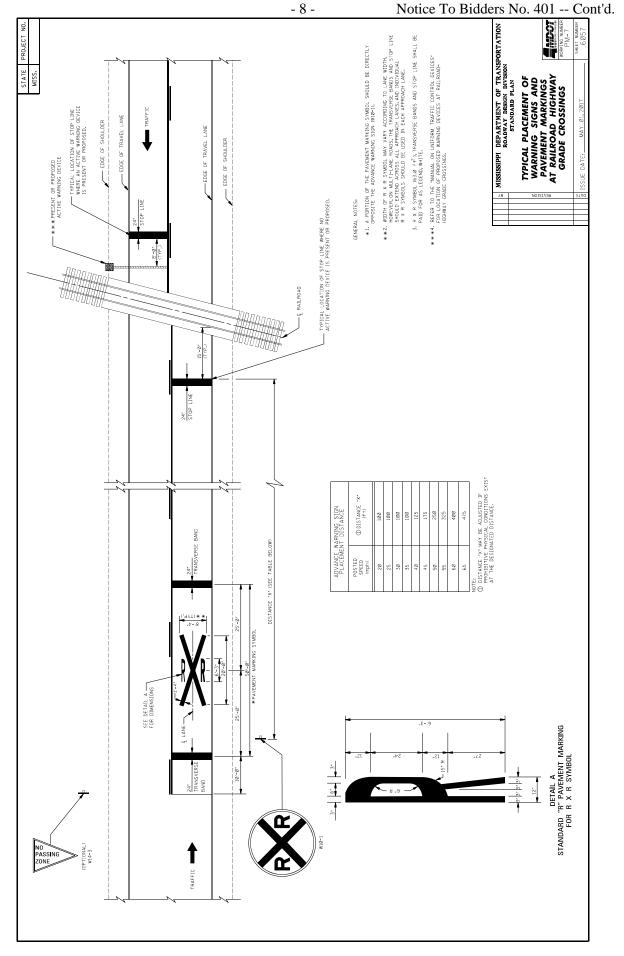


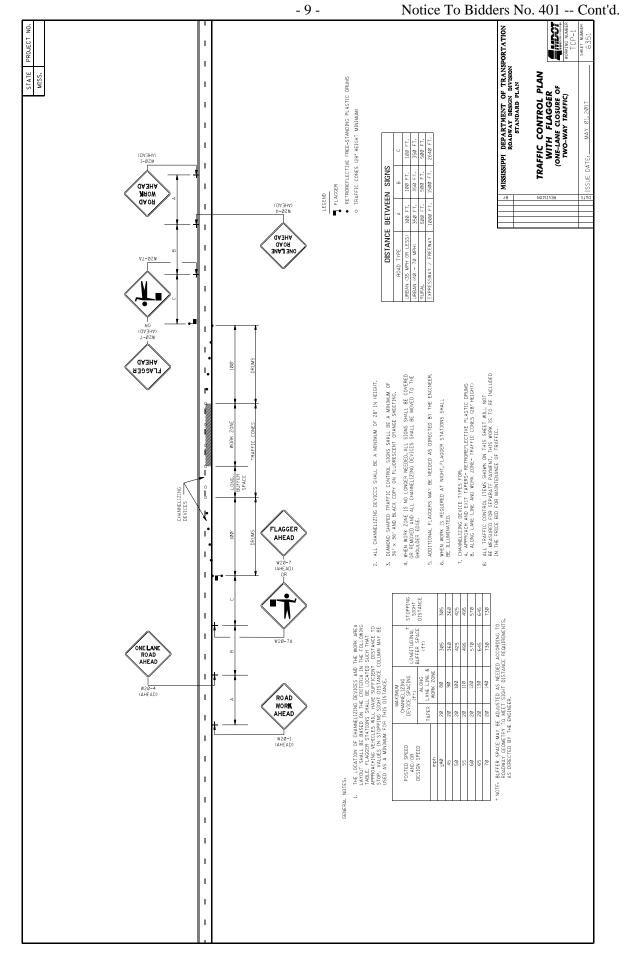


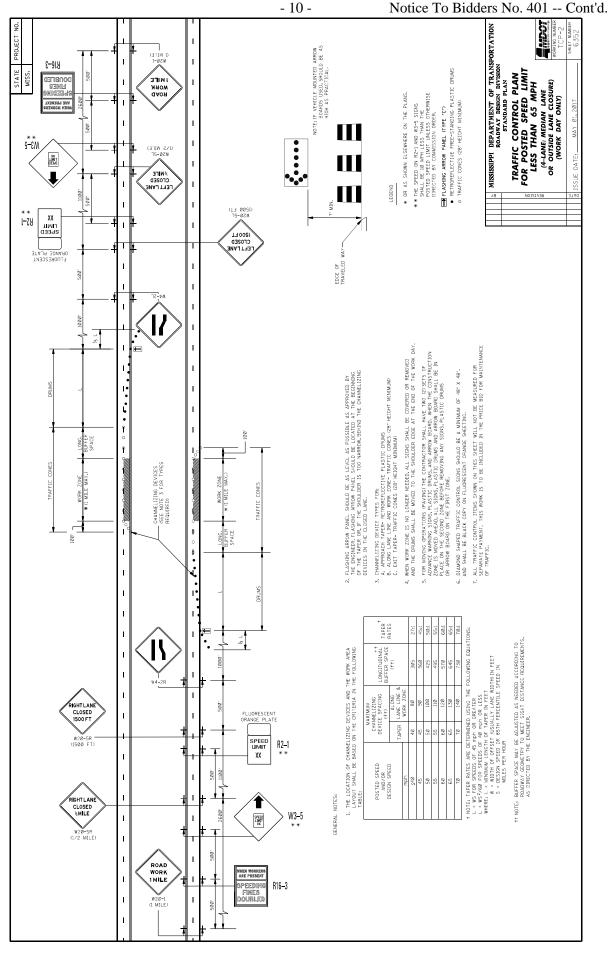


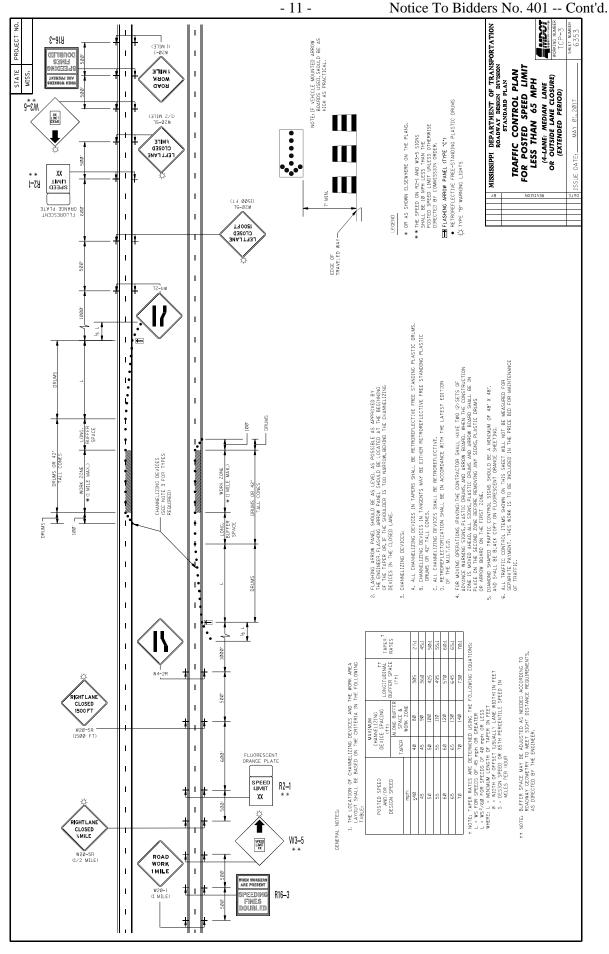


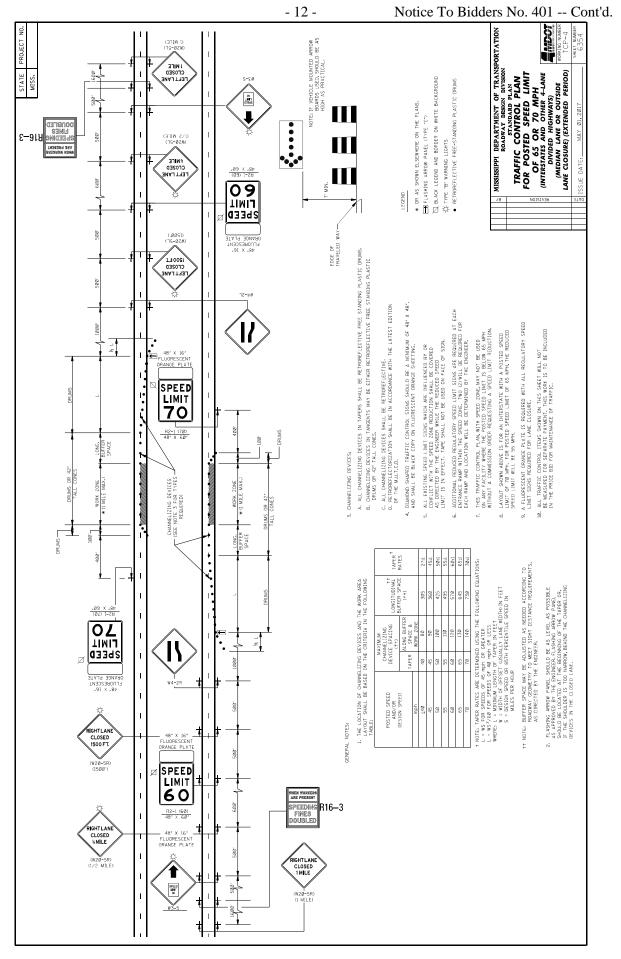


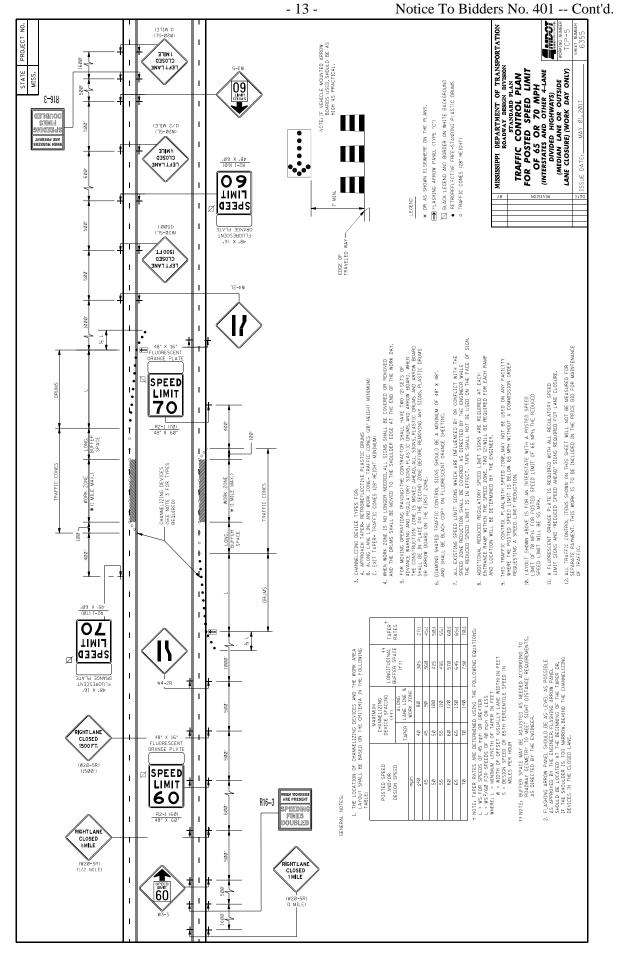


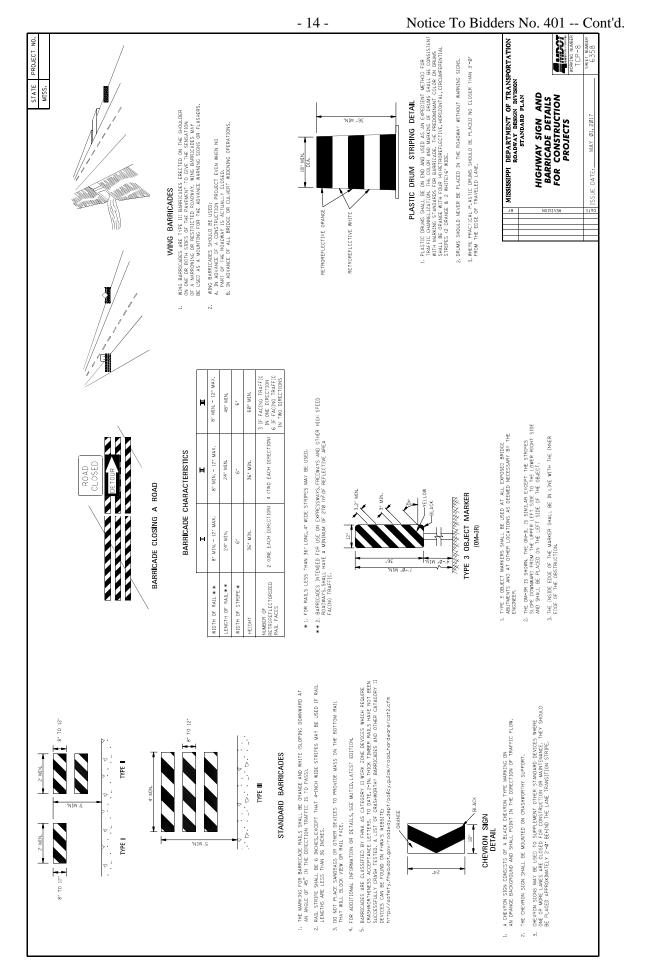


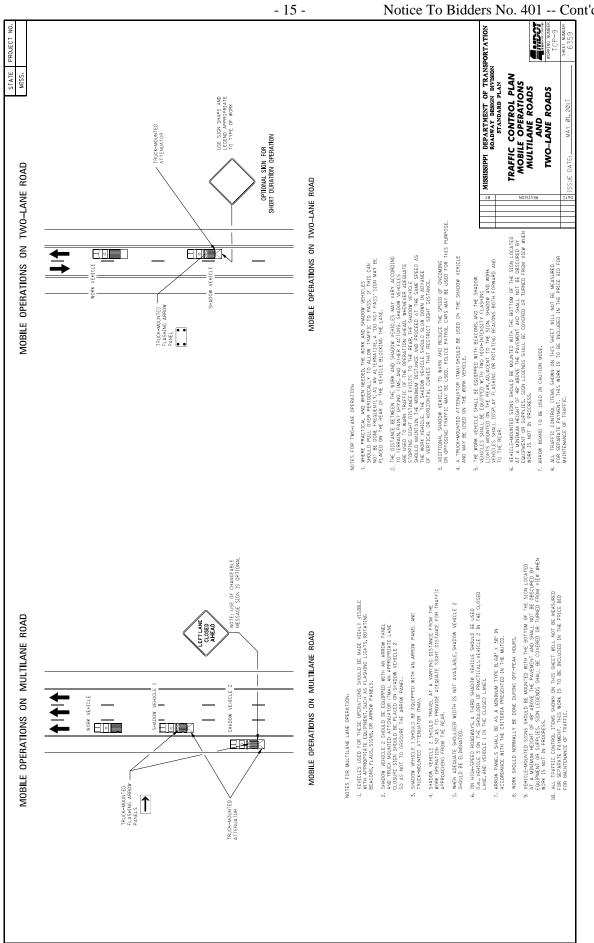


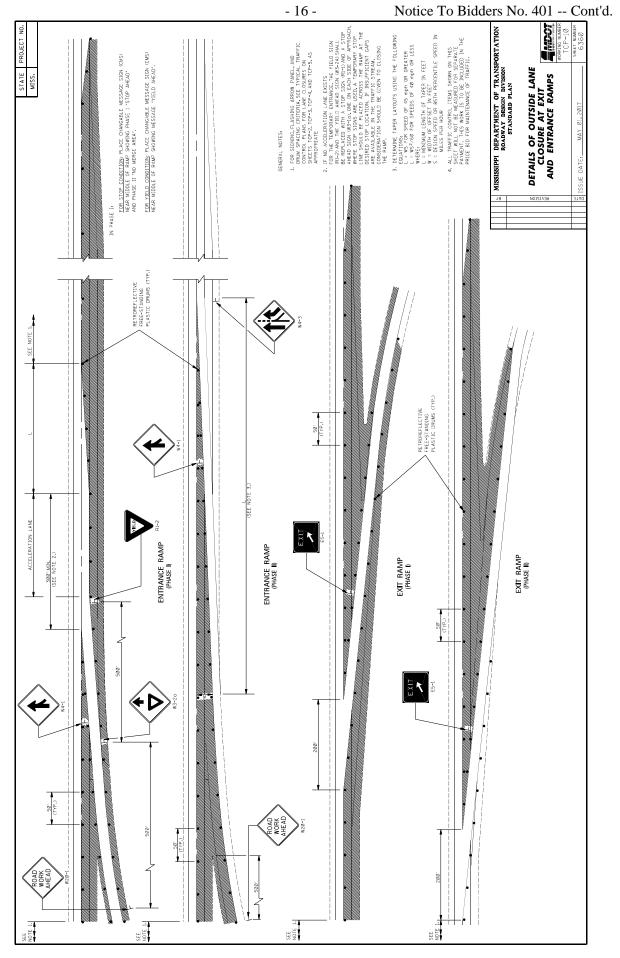


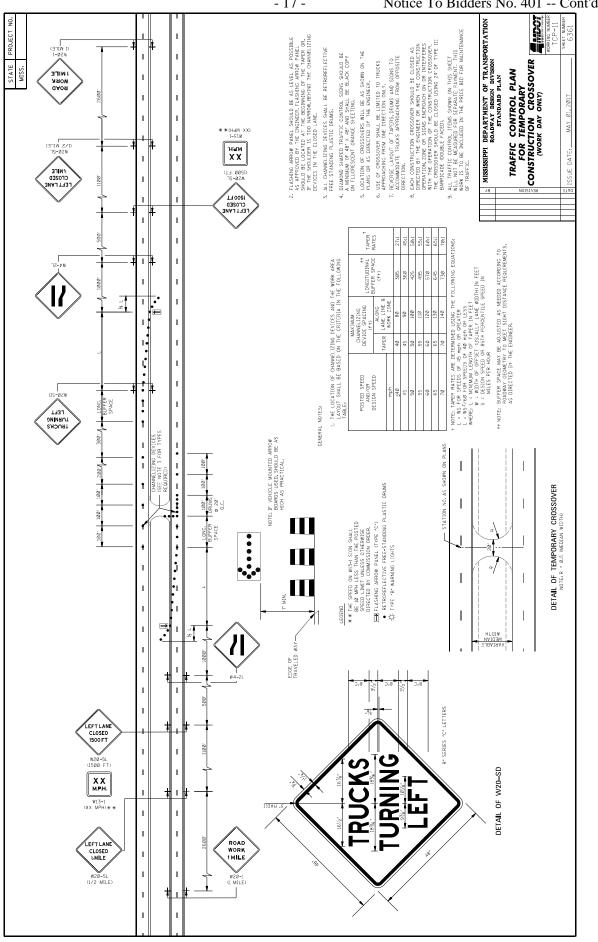




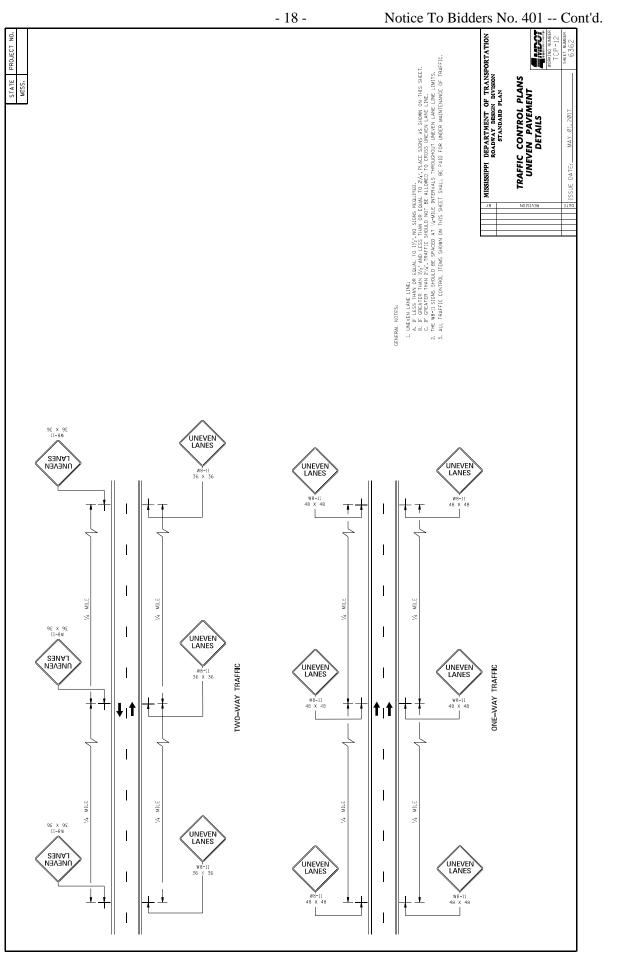


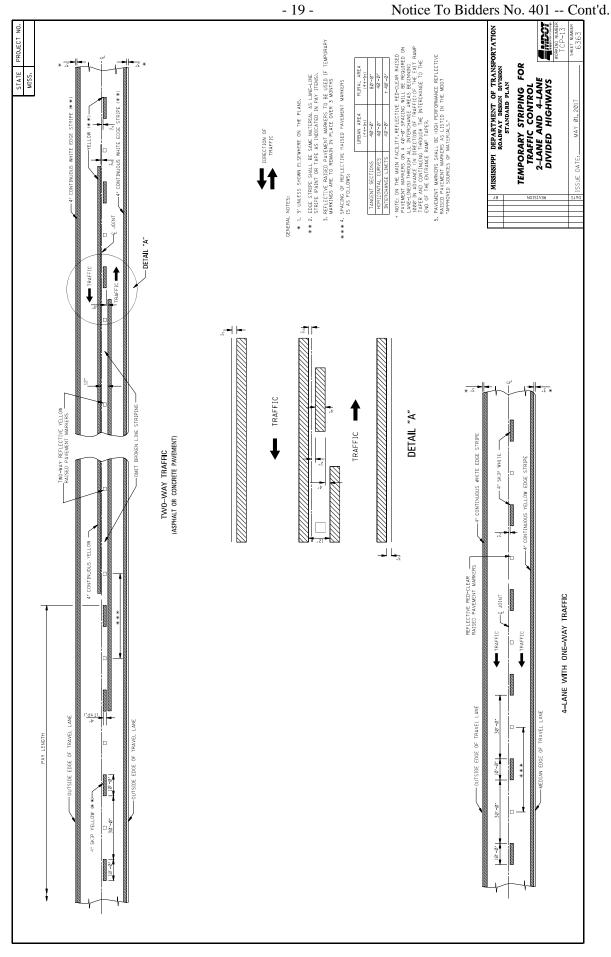


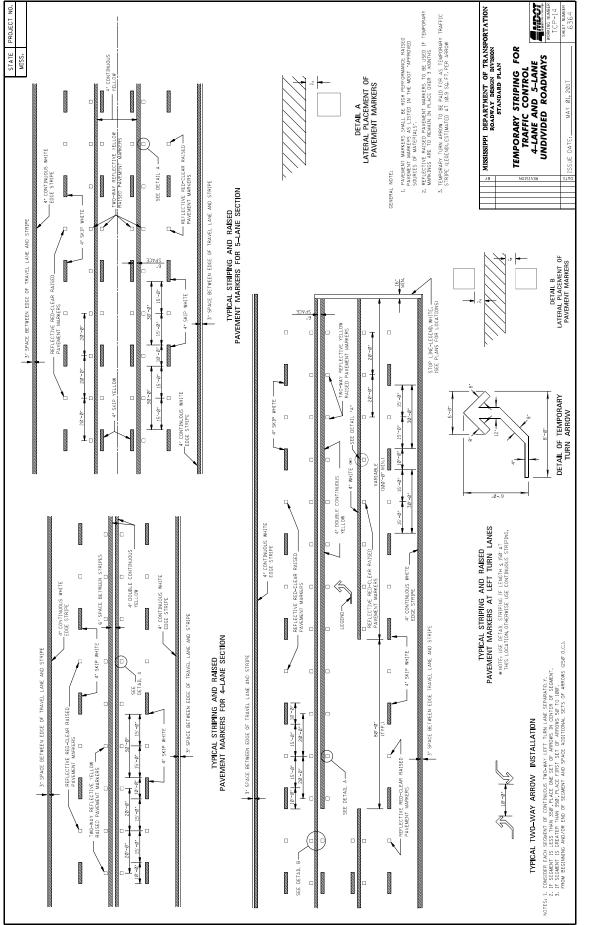




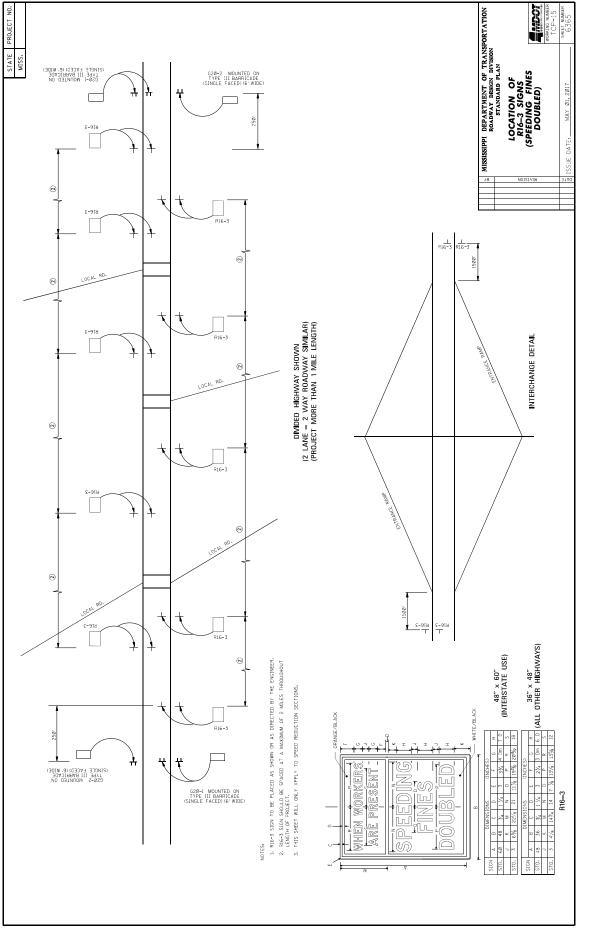
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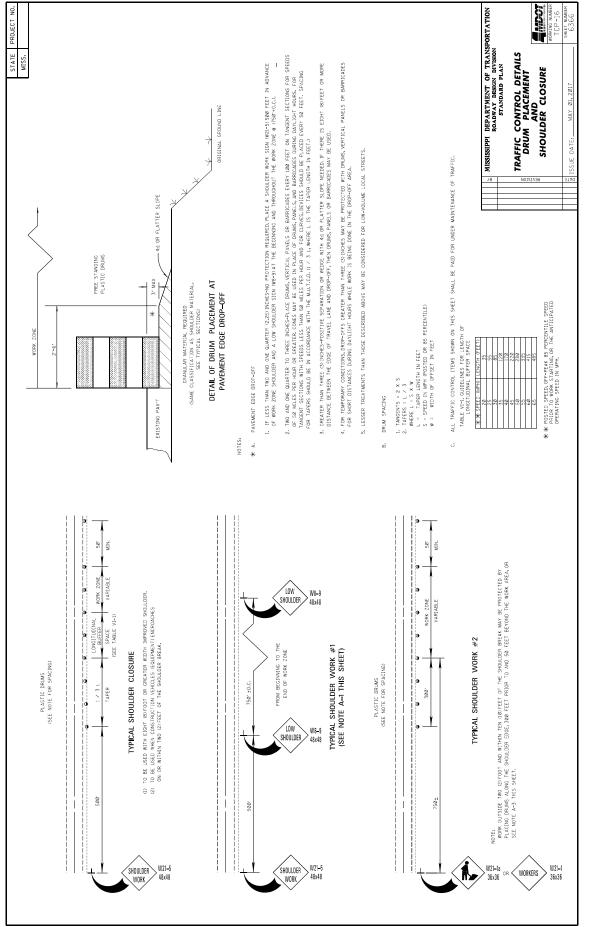




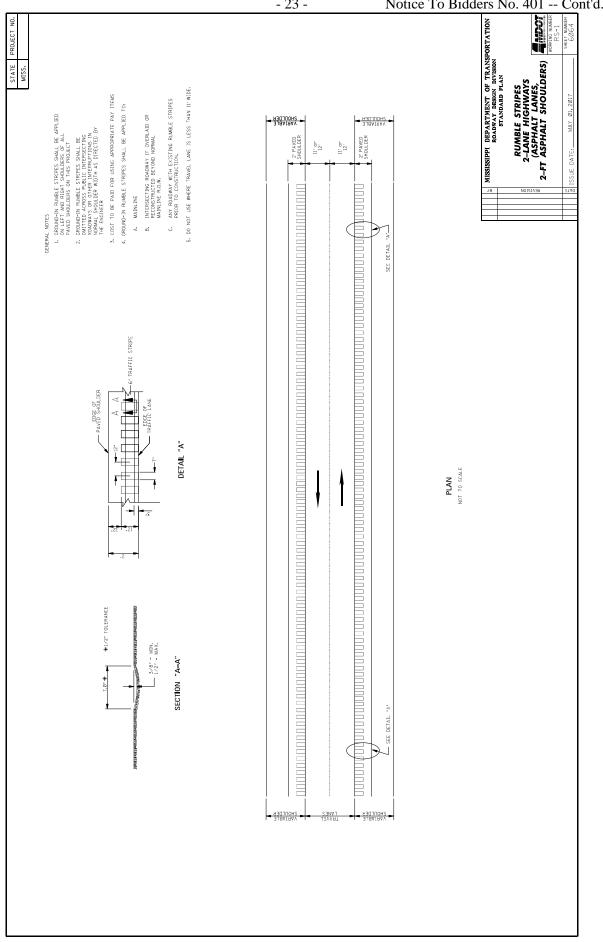
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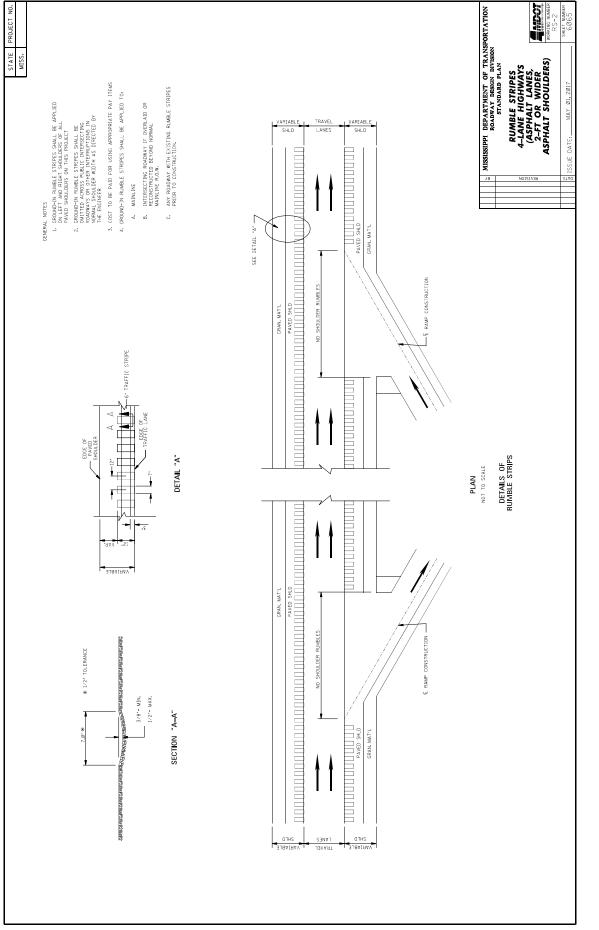
- 21 -



- 22 -

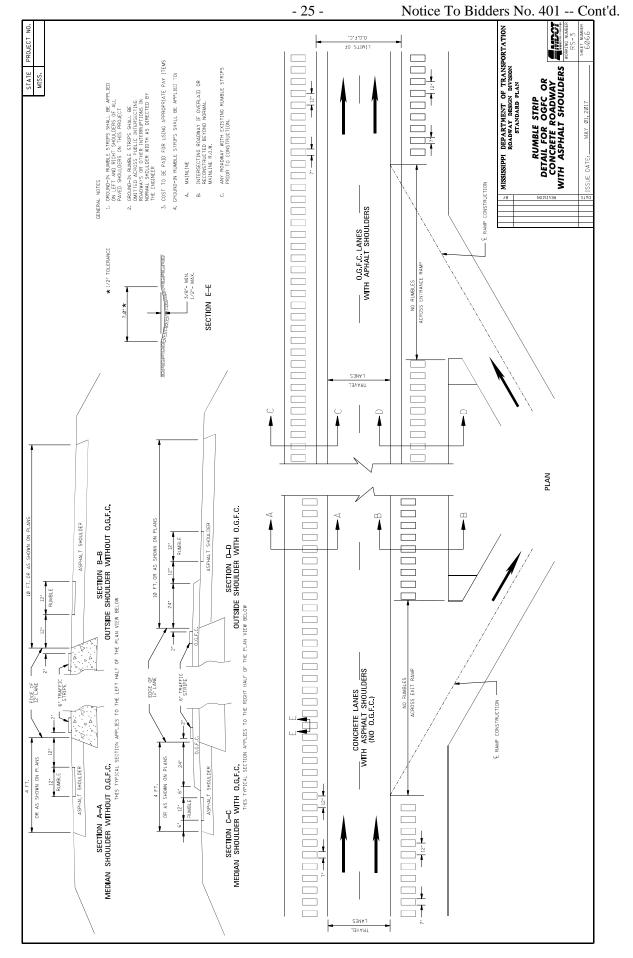


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### Notice To Bidders No. 401 -- Cont'd.



### **SECTION 904 - NOTICE TO BIDDERS NO. 445**

CODE: (SP)

DATE: 10/10/2017

## SUBJECT: Mississippi Agent or Qualified Nonresident Agent

Bidders are hereby advised of the requirements of Subsections 102.08, 103.05.2, and 107.14.2.1 of the *2017 Standard Specifications for Road and Bridge Construction* as it refers to bonding agents. Proposal guaranties, bonds, and liability insurance policies must be signed by a **Mississippi Agent or Qualified Nonresident Agent**.

## **SECTION 904 - NOTICE TO BIDDERS NO. 446**

CODE: (SP)

DATE: 10/18/2017

#### SUBJECT: Traffic on Milled Surface in Urban Areas

Bidders are hereby advised that when the main lanes of a roadway are fine milled, traffic will be allowed to run on a milled surfaces for up to five (5) calendar days. The Contractor will be assessed a penalty of <u>\$5,000 per calendar day</u> afterwards until the milled surfaces are covered with the next lift of asphalt. It shall be the Contractor's responsibility to ensure that the milling operations do not commence until such time as forecasted weather conditions are suitable enough to allow the placement of the asphalt pavement after the milling operations.

# **SECTION 904 - NOTICE TO BIDDERS NO. 516**

CODE: (IS)

### DATE: 11/28/2017

# SUBJECT: Errata and Modifications to the 2017 Standard Specifications

<u>Page</u>	Subsection	Change
16	102.06	In the seventh full paragraph, change "Engineer" to "Director."
33	105.05.1	In the sixth sentence, change "Contract Administration Engineer" to "Contract Administration Director."
34	105.05.2.1	In subparagraph 2, change "SWPPP, ECP" to "SWPPP and the ECP"
35	105.05.2.2	In subparagraphs 2, add " and" to the end of the sentence. In subparagraph 3, remove ", and" and add ".".
90	109.04.2	In the last paragraph of subparagraph (a), place a period "." at the end of the sentence.
93	109.04.2	In the last paragraph of subparagraph (g), place a period "." at the end of the sentence. Also, in the first paragraph of subparagraph (h), place a period "." at the end of the sentence.
97	109.07	Under ADJUSTMENT CODE, subparagraph (A1), change "HMA mixture" to "Asphalt mixtures."
98	109.11	In the third sentence, change "Engineer" to "Director."
219	308.04	In the last sentence of the last paragraph, change "Contractor's decision" to "Engineer's decision."
300	405.02.5.9	In the first sentence of the second paragraph, change "Hot Mix Asphalt" to "Asphalt Mixtures."
502	630.01.1	In the first paragraph, change " <u>AASHTO</u> " to "AASHTO's <u>LRFD</u> ".
636	646.05	Change "each" to "per each" for the pay item units of payment.
640	656.02.6.2	In item 7), change "down stream" to "downstream".
688	630.03.2	Change the subsection number from "630.03.2" to "680.03.2."

725	702.08.3	In the second sentence of the first paragraph, change "hot-mix" to "asphalt."
954	804.02.13.1.6	In the definition for "M" in the % Reduction formulas, change "paragraph 7.3" to "paragraph 5.3."

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## **SECTION 904 - NOTICE TO BIDDERS NO. 1225**

CODE: (SP)

DATE: 11/13/2018

## **SUBJECT:** Early Notice to Proceed

Bidders are advised that if an early notice to proceed is allowed by the Department and the Contractor experiences problems or delays between the early notice to proceed date and the original notice to proceed date, this shall not be justification for any monetary compensation or an extension of contract time.

### **SECTION 904 - NOTICE TO BIDDERS NO. 1226**

CODE: (IS)

#### DATE: 11/16/2018

#### SUBJECT: Material Storage Under Bridges

Bidders are advised that Subsection 106.08 of the Standard Specifications allows the Contractor to store materials and equipment on portions of the right-of-way. However, the Contractor <u>will</u> <u>not</u> be allowed to store or stockpile materials under bridges without written permission from the Project Engineer. The Contractor shall submit a detailed request of all proposed materials to be stored under bridges to the Engineer a minimum of 14 calendar days prior to anticipated storage. This detail shall include, but not limited to, bridge location, material type, material quantity, and duration of storage. The Project Engineer and any other needed Division will review this information and determine whether to grant approval. The Contractor shall not store any material under any bridge without written approval from the Project Engineer.

### **SECTION 904 - NOTICE TO BIDDERS NO. 1241**

CODE: (IS)

DATE: 11/27/2018

### SUBJECT: Fuel and Material Adjustments

Bidder's attention is brought to the last paragraph of Subsection 109.07 of the Standard Specifications which states that no fuel or material adjustment will be made after the completion of contract time. Any fuels consumed or materials incorporated into the work during the monthly estimate period falling wholly after the expiration of contract time will not be subject a fuel or material adjustment.

## **SECTION 904 - NOTICE TO BIDDERS NO. 1963**

CODE: (SP)

DATE: 9/23/2019

### **SUBJECT:** Guardrail Pads

Bidders are hereby advised that prior to construction of the guardrail pads, the Contractor shall coordinate with the guardrail Subcontractor to determine the guardrail pad dimensions necessary to meet MASH compliance.

#### **SECTION 904 - NOTICE TO BIDDERS NO. 2206**

CODE: (IS)

#### **DATE:** 01/14/2020

#### SUBJECT: MASH Compliant Devices

Bidders are hereby advised that compliance associated with the requirements of meeting either the National Cooperative Highway Research Program (NCHRP) Report 350 or the Manual for Assessing Safety Hardware (MASH) for installations of certain traffic control devices and permanent safety hardware devices (guardrails, guardrail terminals, permanent portable barriers, cast-in-place barriers, all other permanent longitudinal barriers, crash cushions, cable barriers, cable barrier terminals, bridge rails, bridge rail transitions, all other terminals, sign supports, and all other breakaway hardware) as listed throughout the Standard Specifications and/or the Standard Drawings, or both, is now replaced with the requirements of meeting the 2016 version of MASH after December 31, 2019. This change applies to new permanent installations and to full replacements of existing installations.

At the preconstruction conference or prior to starting any work on the project, the Contractor shall submit a letter stating that the traffic control devices and permanent safety hardware devices as outlined within the paragraph above that are to be used on the project are certified to meet MASH 2016.

When a MASH 2016-compliant device does not exist for the new permanent installations and/or full replacement installations of permanent safety hardware devices, as listed above, a MASH 2009-compliant or a NCHRP 350-compliant device may be proposed by the Contractor for the project. A written request for such instances must be submitted by the Contractor either at the preconstruction conference or prior to starting any work on the project. The Contractor shall submit the following items to the Project Engineer: (1) a detailed list of the proposed devices and locations thereof; and (2) certification letters indicating that the proposed devices are compliant with either MASH 2009 or NCHRP 350.

When a MASH 2016-compliant device does not exist for the temporary work zone traffic control devices (Category 1, Category 2, and Category 3 devices), a MASH 2009-compliant or a NCHRP 350-compliant device may be proposed by the Contractor for the project. Temporary work zone traffic control devices (Category 1, Category 2, and Category 3 devices) that are MASH 2009-compliant or NCHRP 350-compliant that have been in use prior to December 31, 2019, and that have a remaining service life may be proposed for use throughout their normal service life on the project by the Contractor. For either of these scenarios for temporary work zone traffic control devices, a written request must be submitted by the Contractor either at the preconstruction conference or prior to starting any work on the project. The Contractor shall submit the following items to the Project Engineer: (1) a detailed list of the proposed devices and locations thereof; and (2) certification letters indicating that the proposed devices are compliant with either MASH 2009 or NCHRP 350.

Work will only be allowed to proceed after the Department has granted written concurrence(s) with the proposed request(s) as listed above.

## **SECTION 904 - NOTICE TO BIDDERS NO. 2207**

CODE: (IS)

## DATE: 01/08/2020

## SUBJECT: Reflective Sheeting for Signs

Bidders are hereby advised that the retroreflective sign sheeting used for signs on this project shall be as listed below and shall meet the requirements of Subsection 721.06.

#### **Temporary Construction Signs**

Temporary traffic control (orange) sign sheeting shall be a minimum Type IX Fluorescent Orange sheeting as shown in Special Provision 907-721.

#### Permanent Signs

Permanent signs, except signs on traffic signal poles/mast arms, shall be as follows:

- Brown background sheeting on guide signs shall be a minimum Type VIII sheeting,
- Green and blue background sheeting on guide signs shall be a minimum Type IX sheeting, and
- All white, yellow, fluorescent yellow, and fluorescent yellow/green sheeting shall be Type XI sheeting.

## **SECTION 904 - NOTICE TO BIDDERS NO. 2273**

CODE: (SP)

DATE: 02/12/2020

## SUBJECT: Mississippi Special Fuel Tax Law

Bidder's attention is brought to the second paragraph of Subsection 107.02 of the Standard Specifications which states that all Contractors and Subcontractors must comply with all requirements contained in the Mississippi Special Fuel Tax Law, Section 27-55-501, *et seq.* Attached are two Fact Sheets provided by the Mississippi Department of Revenue (MDOR) with additional information.



# Gasoline and Dyed Diesel Used for Non-Highway Purposes

Mississippi provides a reduced rate for gasoline and dyed diesel used for non-highway purposes. The reduced rates are 6.44 cents per gallon and 5.75 cents per gallon of gasoline or dyed diesel. These fuels are generally taxed at 18 cents per gallon if for on road use.

### **Gasoline Used for Non-Highway Purposes**

You may be entitled to a refund of 11.56 cents per gallon (making this an equivalent to a tax rate of 6.44 cents per gallon) if you desire to purchase gasoline to be used off road. The gasoline must be used for agricultural, maritime, industrial, manufacturing, domestic or non-highway purposes only.

Examples of non-highway include gasoline used in boats, golf carts, machinery used for manufacturing or farm equipment used exclusively in plowing, planting or harvesting farm products.

#### **Refund Gasoline User**

The refund is based on the amount of gallons used. Before a refund is issued, you are required to...

- 1. Obtain a refund gasoline user's permit and a certificate for refund booklet from the Department of Revenue;
- 2. Have a storage tank marked "REFUND GASOLINE"; and,
- 3. Purchase the gasoline from someone who holds a refund gasoline dealer's permit.

No refund will be allowed for gasoline used in motor vehicles owned or operated by a government entity or used in Mississippi government contracts.

#### **Refund Gasoline Dealer**

You must obtain a refund gasoline dealer's permit from the Department of Revenue before selling refund gasoline. At no time should the gasoline be delivered to a tank that is not properly marked. The gasoline must be dyed a distinctive mahogany color at the time of delivery.

The Department of Revenue may waive the dye requirement if the dye may cause damage to the equipment. The refund gasoline user is required to obtain the waiver from the Department of Revenue.

#### **Dyed Diesel Used for Non-Highway Purposes**

Unlike gasoline, you are not required to apply for a refund if you desire to purchase dyed diesel to be used off road. Mississippi provides a reduced rate of 5.75 cents per gallon on dyed diesel used off road. Diesel used on road is subjected to 18 cents per gallon. Dyed diesel used in motor vehicles owned or operated by a government entity or used in Mississippi government contracts will be subjected to 18 cents per gallon.

#### Dyed Diesel Used on the Highway

Any person who purchases, receives, acquires or uses dyed diesel for highway use will be liable to pay 18 cents per gallon <u>and</u> subject to a penalty in the amount of \$1000.

#### **Identifying Dyed Diesel**

Revised March 2017

Storage facilities for dyed diesel must be plainly marked "NONHIGHWAY DIESEL FUEL" or "NONHIGHWAY KEROSENE". Retailers are also required to mark all pumps or dispensing equipment.



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Petroleum Tax Bureau P. O. Box 1033 Jackson, MS 39215-1033 Phone: (601) 923-7150



# **Special Fuel Used on Government Contracts**

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## State and Local Government Contracts

Special fuel purchased, acquired or used in performing contracts with the State of Mississippi, counties, municipalities or any political subdivision is taxed at a rate of 18 cents per gallon. Special fuel includes but is not limited to the following:

- Dyed diesel fuel;
- Kerosene;
- Undyed diesel fuel; and,
- Fuel oil.

State and local government contracts include construction, reconstruction and maintenance or repairs of projects such as roads, bridges, water systems, sewer systems, buildings, drainage canals and recreational facilities. The Department of Revenue may require contractors to remit the excise tax directly to the state in lieu of paying the tax to a distributor.

#### **Special Fuel Direct Pay Permit**

Contractors that remit the excise tax to the state will be issued a Special Fuel Direct Pay Permit. This permit relieves the distributor from collecting the tax and requires the contractor to file a monthly special fuel return. The distributor should include the contractor's permit number on all invoices that are related to tax-free sales.

The contractor is required to furnish a surety or cash bond guaranteeing the payment of the excise tax prior to receiving the Special Fuel Direct Pay Permit. The Department of Revenue may accept a contractors tax bond if the bond covers the excise tax levied on special fuel.

#### **Special Fuel Distributors**

If the contractor does not have a Special Fuel Direct Pay Permit, distributors are required to collect the 18 cents excise tax and remit the tax to the Department of Revenue. The additional 12.25 cents levied on special fuel (excluding undyed diesel) should be reported on schedules 5F and 5G of the special fuel return.

#### **Environmental Protection Fee**

Special fuel distributors are required to collect the environmental protection fee even if the contractor has a Special Fuel Direct Pay Permit. The fee is levied at  $4/10^{\text{ths}}$  of a cent per gallon. The fee is suspended or reinstated when the trust fund has exceeded or fallen below the obligatory balance.

#### **Penalties**

Revised March 2017

Any person who knowingly and willfully purchases untaxed fuel for use in equipment utilized on a road or highway construction site in this state is guilty of a misdemeanor and, upon conviction, shall be fined not less than \$1,000 or more than \$100,000, or imprisoned in the county jail for not more than one year, or both.



This fact sheet is intended to help you become more familiar with Mississippi tax laws and your rights and responsibilities under the laws. Nothing in this fact sheet supersedes, alters, or otherwise changes any provisions of the tax law, regulations, court decisions, or notices.

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Petroleum Tax Bureau P. O. Box 1033 Jackson, MS 39215-1033 Phone: (601) 923-7150

#### **SECTION 904- NOTICE TO BIDDERS NO. 2278**

CODE: (SP)

DATE: 03/04/2020

#### **SUBJECT:** Smoothness Tolerances

Bidders are hereby advised that the smoothness tolerances for this project shall meet the requirements of a Category C project according to Subsection 403.03.2.1. Bidders are responsible for the collection of a preliminary smoothness profile prior to any work being performed.

## SECTION 904- NOTICE TO BIDDERS NO. 2365

CODE: (SP)

DATE: 03/23/2020

## **SUBJECT:** Special Project Signs

Bidders are advised that this project will require Special Project Signs. The signs and posts will be State Furnished and Contractor will only be required to install, maintain, and remove the signs. The signs shall be erected prior to beginning any construction and remain in place for the duration of the project. The signs shall be installed near the beginning and end of the project at locations approved by the Engineer. The signs will remain the property of the Department at the end of the project. All costs for special project signs should be included in the bid price for pay item 618-A: Maintenance of Traffic.



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<sup>6.0&</sup>quot; Radius, 0.8" Border, Blue on White;

<sup>&</sup>quot;Project Funded By" D 2K; "Mississippi Lottery" D 2K; "Thank Your" E 2K; "State Legislator" E 2K;

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

## **SECTION 904 - NOTICE TO BIDDERS NO. 2503**

CODE: (SP)

DATE: 6/01/2020

## SUBJECT: Contract Time

#### **PROJECT:** SP-5021-50(020) / 108569301 – Neshoba 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 108.06. It is anticipated that the Notice of Award will be issued no later than <u>September 8, 2020</u> and the date for Notice to Proceed / Beginning of Contract Time will be <u>October 8, 2020</u>.

Should the Contractor request a Notice to Proceed earlier than <u>October 8, 2020</u> and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed date. Regardless of whether or not an early Notice to Proceed is granted, contract time will start at the original Notice to Proceed date.

All requests for an early Notice to Proceed shall be sent to the Project Engineer who will forward it to the Contract Administration Division.

94 Working Days have been allowed for the completion of work on this project.

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

## SECTION 904 – NOTICE TO BIDDERS NO. 2504

CODE: (SP)

DATE: 04/13/2020

## **SUBJECT:** Scope of Work

#### PROJECT: SP-5021-50(020) / 108569301 -- Neshoba County

The contract documents do not include an official set of plans, but may by reference include some Standard Drawings or Special Drawings. All other references to plans in the contract documents and Standard Specifications for Road and Bridge Construction are to be disregarded.

Work on this project shall consist of the following:

Spot milling/inlaying, scrub sealing, and overlaying approximately 11 miles of existing SR 21 from Dixon (BOP Station 10+00) to the intersection of SR 21 and SR 15 (EOP Station 575+27).

The existing pavement for SR 21 consists of  $4\frac{1}{2}$ " to  $7\frac{1}{2}$ " of asphalt over 6" to 10" of untreated granular material with 11-foot to 12-foot lanes and 1-foot to 3-foot shoulders.

Construction signage shall be installed as per the detail sheets included prior to the beginning of work.

The existing asphalt roadway shall be rehabilitated using the following sequence of event. Failed areas shall be repaired full depth using 12.5-mm, MT, Leveling asphalt. The roadway shall then be spot milled/inlayed by fine milling 2" and inlayed 2" using 12.5-mm, MT, asphalt. A scrub seal shall then be placed on the mainline pavement. After the scrub seal has cured for five (5) working days, the roadway shall then be overlaid 2" using 12.5-mm, MT, asphalt.

The repair of failed asphalt pavement shall be accomplished by saw cutting the asphalt pavement and removing the asphalt full depth. Any existing asphalt pavement adjacent to the asphalt failed area if required shall be removed during the repair process and shall be paid for using pay item 202-B: Removal of Asphalt Pavement, Failed Areas. Any failed base or subgrade should be removed and will be paid for using pay item 203-G: Excess Excavation. The area will be backfilled with 12.5-mm, MT, Leveling asphalt in lifts not to exceed three inches (3"). The joints shall be tacked prior to placement of the asphalt. The Contractor shall only remove the amount of pavement that can be replaced on the same day. The removal sections shall be adequately delineated and protected until the work is completed. Tables showing the location of the failed asphalt areas are attached. No other asphalt failed area repairs shall be added without the approval of the Engineer.

The failed area locations and the spot milled/inlayed locations shall have a fog seal applied in order to prevent the absorption of emulsions applied during the scrub seal. The fog seal placement shall be in accordance with Special Provision No. 907-414. The fog seal shall contain no rejuvenators. Tables showing these locations are shown below.

The polymer modified asphalt rejuvenating scrub seal shall be placed on the full width of the travel lanes as per Special Provision No. 907-414 and the attached typical section. Prior to placing the scrub seal, the cracks in the roadway shall be cleaned using compressed air, or a comparable method, to remove any excess material. The existing thermoplastic pavement markings shall be removed prior to the scrub seal and the method of removal shall be approved by the Engineer and shall be absorbed in other items. The thermoplastic pavement markings shall only be removed in the areas of the daily anticipated run for the scrub seal. If the Contractor elects to remove the entirety of the thermoplastic pavement markings contained in the project limits, temporary pavement markings shall be required and the cost shall be absorbed in other items bid. The scrub seal will not be applied to county roads, guardrail pads, or driveway pads. Scrub Seal will be paid by the square yard of pavement surface to which it is applied under pay item 907-414-A and the bid price shall include all labor, materials, equipment, temporary markers, vegetation removal, thermoplastic removal, cleaning of the pavement surface, presweeping, post-sweeping, removing excess aggregate, doing all the work involved in mixing, applying, and protecting the polymer modified asphalt rejuvenating scrub seal, and all incidentals necessary to complete the work. Prior to any sealing operation, the rectangular "Loose Rock" signs addressed in Special Provision No. 907-414 shall be installed and remain in place until all sealing operations are complete and the roadway overlaid or until directed by the Engineer. The "Loose Rock" signs shall be installed throughout the project limits in both directions at one (1) mile spacing beginning at the BOP and EOP as required. Payment for signs shown in the sign detail drawings shall be made under pay item 618-A: Maintenance of Traffic.

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Traffic on the milled surface shall be limited to five (5) days. The Contractor will be assessed a penalty of <u>\$5,000 per calendar day</u> after the 5-day period until the milled surfaces are covered with the next lift of asphalt. A 150-foot milling tie in shall be required at the BOP, EOP, and at the bridge ends of Bridge #32.7 (Stations 255+35 and 256+97). Scrub seal shall not be placed at the locations of the milled tie ins.

A table showing the locations of curve widening is shown below. The curve widening shall consist of a 2½-inch layer of 12.5-mm, MT, Leveling asphalt, followed by a 2-inch layer of 12.5-mm, MT, Leveling asphalt. The curve widening shall be two feet (2') wide. After the paving operation, any material bladed aside for these areas shall be pulled back to the asphalt pavement edge as directed by the Engineer and all cost shall be absorbed. This operation shall be performed before the scrub seal is placed.

Local paved public roads shall be either milled/inlaid/overlaid or overlaid with 2" of 12.5-mm, MT, asphalt to the end of the existing asphalt pavement, end of MDOT maintenance or to rightof-way or as sown on the attached tables. Where a minimum of five feet (5') of shoulder width can be paved at the beginning of local road radii, a 100-foot asphalt pavement taper shall be constructed. Said taper shall be 6" thick and shall be placed in two (2) 3" lifts of 12.5-mm, MT, asphalt and shall conform to the detail drawings. After the paving operation, any material bladed aside for this area shall be pulled back to the asphalt pavement edge as directed by the Engineer and all cost shall be absorbed. A table showing the locations of the local paved public roads that shall be milled/overlaid is shown below. A table showing the locations of the local paved public roads that shall have a milled key way in order to tie in the overlaid pavement surface to the existing roadway is shown below. Local paved public roads that are milled/inlaid/overlaid shall also have a milled tie in for the final surface lift of asphalt.

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Local public road 2416 located at Station 448+60 shall be paved by placing two (2) 2" lifts of 12.5-mm, MT, asphalt to the end of the MDOT maintenance or to right-of-way or as directed. Local unpaved public roads shall be bladed, shaped, and compacted prior to paving as directed by the Engineer. After the paving operation, any material bladed aside for this area shall be pulled back to the asphalt pavement edge as directed by the Engineer and all cost shall be absorbed.

Temporary pavement markings shall be placed at the end of each day's paving operations and prior to opening the road to traffic. Permanent pavement markings shall be placed after completion of all paving operations as per Subsection 403.03.5.2.

The existing shoulders are to be raised to match the new pavement elevation by placing variable depth crushed stone on the existing shoulders. Placement of the granular material on the finished asphalt course shall not be permitted. The material shall be bladed, rolled, and compacted to a finished slope of four percent (4%). Placement of this material shall be performed to provide a uniform and compacted shoulder with a minimum depth and width of material placed. Shoulders with adequate shoulder material in place shall be bladed to a slope of four percent (4%). The cost of blading will be an absorbed item and is not to be included in the price of pay items bid.

Removal of the existing shoulder material shall be coincident with the milling/overlaying operation to prevent the possible ponding of water. No payment will be made for blading or removal of the existing shoulder material. Any material excavated from the existing shoulder shall be used to raise the existing shoulder to match the new pavement elevation and any surplus material shall be spread along the edge of the shoulders, fore slopes, or other adjacent areas as directed by the Engineer and will be an absorbed item. Material which cannot be placed in adjacent areas and deemed to be excess excavations by the Engineer will be an absorbed item.

Tables are attached showing locations where crushed stone is required to be placed to eliminate excessive drop offs. This operation shall be the first order of business for the project once construction signs are placed.

Guardrails are required to be replaced at various locations within the project (see attached Table for locations/quantities). All guardrail removed is to be replaced the same day and prior to reopening the adjacent lane of traffic. This work shall consist of the following sequence of operations: removal of the existing guardrail and posts, removal of the entire guardrail pad and repaving the guardrail pad, and installation of the new guardrail. Voids created by the removal of posts, concrete anchors, footings, etc. shall be backfilled and tamped in accordance with Section 203 of the Standard Specifications. All guard rails, including rail, terminal end sections, bridge end sections, and metal posts will become property of MDOT and shall be delivered by the Contractor to the MDOT Philadelphia Maintenance Facility located at 1115 Highway 15 Bypass Philadelphia, MS. The Contractor shall coordinate the delivery of these items with MDOT in advance. Concrete anchors, wooden posts, wooden rails will become the property of the property of the set items with the contractor and will be removed from the Project Site. The Contractor shall not damage or disturb the existing guardrail or posts during the grading or the paving operation. The guardrail

pad shall be constructed using 12.5-mm, MT, asphalt and shall be 4" thick. The cost of the removal of the guardrail delineators and object marker signs shall be included in other items bid. The length of guardrail required is based on a terminal section of 37.5' being used. For any other length terminal section, the length of normal guardrail shall be adjusted.

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The joint repair, pay item 907-808-A, shall include the work necessary to repair joints in preparation for the placement of new expansion material, as designated in the detail drawings provided. All concrete approach slab joints shall be sealed. If the bridge has an asphalt approach, the joint between the asphalt and concrete shall not be disturbed. Removal of existing silicone sealed, compression, and AC sealed joint materials will not be paid directly and shall be considered an absorbed item of work.

After the existing joint material has been removed, the joints shall then be saw cut as per the Joint Repair Standard Drawing. Saw cuts will be paid for under pay item 907-823-B: Saw Cut, Type II. The joints are then to be repaired, if necessary, with epoxy mortar or an approved equivalent. This work will be paid for under pay item 907-808-A. The joints shall then be sealed by one of the approved Manufacturers and installed according to the Manufacturer's specifications.

Temporary Portable Rumble Strips, as described in Special Provision No. 907-619, shall be used in advance of each lane closure. Payment shall be made under pay item 907-619-B: Temporary Portable Rumble Strips. At the conclusion of the project, MDOT will take possession of the set of temporary portable rumble strips used for the project.

Any bridges shall be swept off and cleaned at the end of the project to remove any existing debris plus any debris accumulated from construction activities. The sweeping and cleaning of bridges shall be absorbed in other items bid.

## **GENERAL NOTES**

Milling and paving operations shall be performed such that a -2% slope from centerline is provided in normal crown roadway sections. Superelevation through curves shall be maintained as it currently exists or improved as directed.

Temporary asphalt joints (aka paper joints) shall be constructed at the end of each day's milling/overlay operations where the milled/overlaid surface joins the existing asphalt pavement surface. Paper joints shall be a minimum of nine feet (9') in length and for the full width of the milled surface. Paper joints shall be adequately maintained.

The Contractor is responsible for providing shoulder drainage outlets as applicable in milled areas. Payment for these outlets shall be included in the bid price for the milling of bituminous pavement.

The Reclaimed Asphalt Pavement (RAP) material removed by the milling operation shall become the property of the Contractor.

Existing asphalt/concrete driveway connections shall be overlaid in order to match the new mainline pavement height using 12.5-mm, MT, asphalt. The existing asphalt/concrete driveway

connections shall be paved to the shoulder line per the included typical drawing. Pads shall be shaped horizontally and vertically to prevent excessive drop-offs. Granular material shall be placed around the pads to prevent shoulder drop-offs as directed and shall be placed in a timely manner. Drop-offs exceeding  $2\frac{1}{2}$ " shall be corrected within two (2) calendar days of the placement of the pad. Crushed stone will be used as directed by the Engineer to fill in existing low shoulders.

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Potholes that may exist or occur in the existing pavement are to be patched in a timely manner. Patching of potholes shall be considered an absorbed item.

Temporary stripe is required for scrub seal operations. Centerline stripe may be offset as needed to maintain lane delineation, but two sets of centerline markings may not be present at any time. Edge lines on projects requiring shoulders constructed of granular material may be delayed for a period not to exceed three (3) days. Placement of temporary stripes shall be placed as soon as possible but should not be placed until after the final brooming has taken place.

Temporary stripe will be required immediately after the milling or overlay operations and prior to opening the area to traffic. Short term temporary stripe may be offset as required for the sequence of operations; however, temporary stripe placed on the finished surface is to be placed in the same location and layout as permanent stripe.

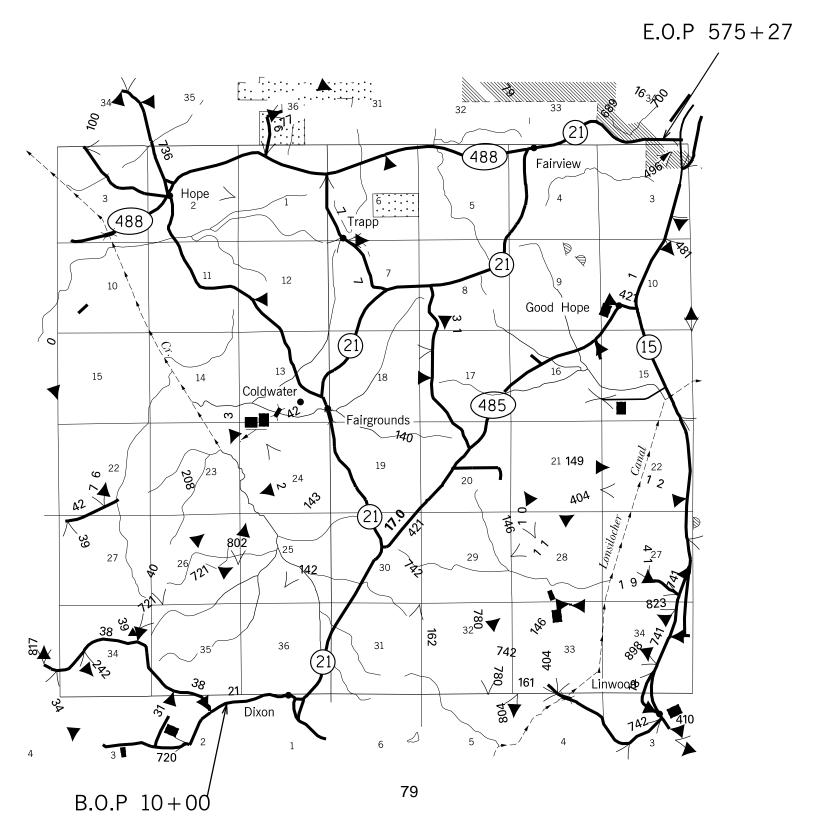
All permanent striping will be thermoplastic. The width of the permanent stripe will be six inches (6") for continuous, edge, and skip stripe. Detail and legend stripe will be as shown in the standard drawings. Permanent raised pavement markers shall be installed on mainline and local public roads after completion of all paving operations.

The Contractor shall erect and maintain construction signing, and provide and maintain all temporary signs and traffic control devices necessary to safely conduct traffic through the work area in accordance with the Traffic Control Plan and the MUTCD. All traffic control devices shall meet current MDOT and MUTCD requirements.

The Contractor shall on a daily basis, remove all debris from within the roadway and a 30-foot clear zone which, in the opinion of the Engineer, is a hazard to the traveling public. This activity shall begin with the beginning of work or the beginning of the contract time, whichever comes first. No direct payment will be made for the debris removal. The cost is to be included in the prices of items bid. Failure of the Contractor to remove debris as prescribed herein shall be just cause for withholding the monthly progress estimate payment or suspending active operations until the debris is satisfactorily removed by the Contractor. As described in the applicable Notice-To-Bidders, final project cleanup is required and will be completed prior to the scheduling of the final inspection.

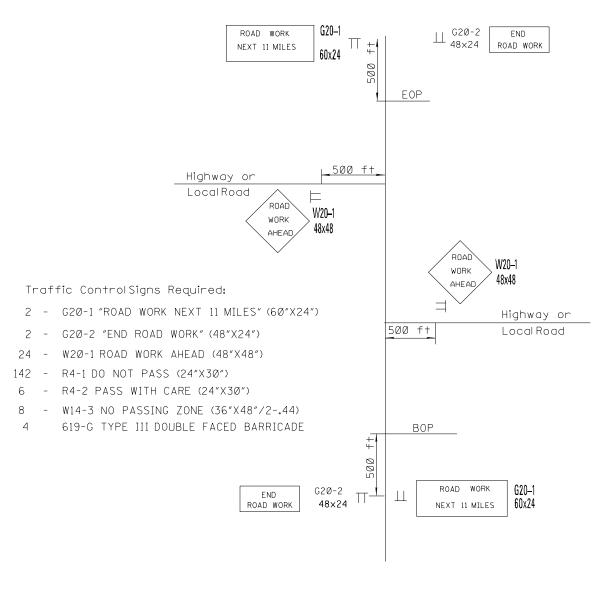
It shall be the responsibility of the Contractor to protect existing structures such as pipes, aprons, signs, utilities, etc. from damage occurring as a result of construction activities. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged during the life of the contract. No payment will be made for replacements and or repairs resulting from such damages.

SR 21 - NESHOBA COUNTY PROJECT LOCATION MAP

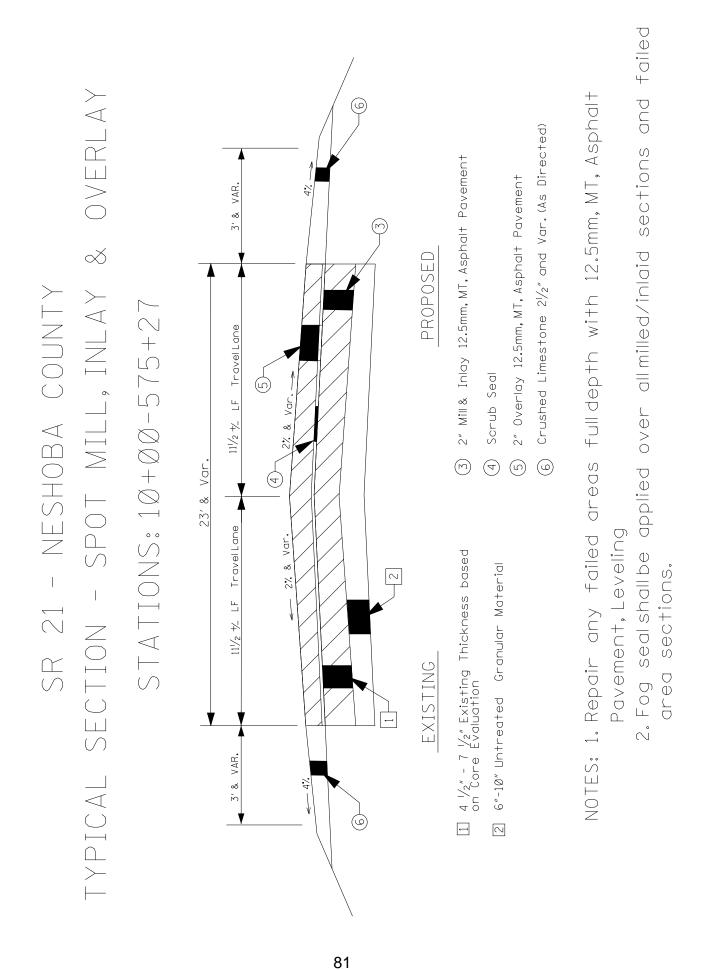


# SR 21 - NESHOBA COUNTY CONSTRUCTION SIGNING

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- NOTES: (1) One (1) W20-1 "ROAD WORK AHEAD" Sign is Required at each LocalRoad, Street or Highway Entering the Project.
  - (2) G20-1 and G20-2 signs mounted on Type III Double Faced Barricade.
  - (3) R4-1 "DO NOT PASS", R4-2 "PASS WITH CARE", and W14-3 "NO PASSING ZONE" signs are required in accordance with Subsection 618.03.3 and as specified in the MUTCD. If No Passing zones are 1000 ft or more, installadditional "DO NOT PASS" signs on maximum spacing of 750 ft.
  - ④ Placement of W20-1 signs on intersecting roads may vary from typical shown as conditions warrant.



	SR 21 FAILED AREA LOCATIONS											
Location	Sta.	То	Sta.	Length (FT)	Width (FT)	Area (SF)	202-B009 Removal of Asphalt, Failed Areas (SY)	503-C010 Saw Cut, Full Depth (LF)	403-B002 12.5mm, MT, Asphalt Pavement, Leveling (TONS)	907-410-C005 Asphalt for Fog Seal, Grade LD-7 or CHPF-1 (Gal.)		
RT LANE	72+46		73+38	92	6	552	61	104	21	7		
RT LANE	130+85		134+00	315	6	1,890	210	327	71	23		
RT LANE	197+75		199+00	125	8	1,000	111	141	38	12		
RT LANE	290+30		290+45	15	11	165	18	52	6	2		
RT LANE	381+35		382+08	73	11.5	840	93	169	31	10		
RT LANE	442+25		442+55	30	6	180	20	42	7	2		
RT LANE	520+00		520+77	77	11.5	886	98	100	33	11		
LT LANE	100+13		100+50	37	7	259	29	51	10	3		
LT LANE	102+36		107+75	539	8	4,312	479	555	162	53		
LT LANE	185+97		186+53	56	7	392	44	70	15	5		
LT LANE	290+30		290+45	15	11	165	18	52	6	2		
LT LANE	295+75		298+00	225	3	675	75	231	25	8		
						Total =	1257	1894	424	138		
	nal Quantitie			1	<u> </u>		126 /ith Field Conditio	189	42	14		

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Note: Locations and Measurements are Approximate and May Vary With Field Conditions

DEPTH = Variable

	HWY 21 CURVE WIDENING LOCATION										
LOCATION	STA.	то	STA.	LENGTH (FT)	WIDTH (FT)	AREA (SF)	403-B003 12.5mm, ST, ASPHALT PAVEMENT, LEVELING (TONS)	907-410-C005 ASPHALT FOR FOG SEAL, GRADE LD-7 OR CHPF-1 (GAL.)			
RT LANE	266+13		271+00	487	2	974	30	12			
RT LANE	294+28		297+92	364	2	728	23	9			
RT LANE	405+37		408+30	293	2	586	18	7			
RT LANE	408+65		413+64	499	2	998	31	12			
RT LANE	517+37		525+91	854	2	1,708	53	21			
LT LANE	294+00		297+92	392	2	784	25	10			
LT LANE	405+37		413+64	827	2	1,654	52	20			
						Total =	232	91			

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SR 21 MAINLINE SPOT MILLING LOCATIONS										
Location	Sta.	То	Sta.	Length (FT)	Width (FT)	Area (SF)	406-D001 Fine Milling of Bituminous Pavement, All Depths (SY)	403-A002 12.5mm, MT, Asphalt Pavement (TONS)	907-410-C005 Asphalt for Fog Seal, Grade LD-7 or CHPF-1 (Gal.)	
RT LANE	10+00		12+55	255	11.5	2,933	326	37	36	
RT LANE	18+50		20+50	200	11.5	2,300	256	29	28	
RT LANE	30+53		32+03	150	11.5	1,725	192	22	21	
RT LANE	83+00		86+40	340	11.5	3,910	434	50	48	
RT LANE	92+00		98+60	660	11.5	7,590	843	97	93	
RT LANE	105+00		114+10	910	11.5	10,465	1,163	133	128	
RT LANE	145+92		147+42	150	11.5	1,725	192	22	21	
RT LANE	253+85		255+35	150	11.5	1,725	192	22	21	
RT LANE	256+97		258+65	168	11.5	1,932	215	25	24	
RT LANE	364+70		366+30	160	11.5	1,840	204	23	22	
RT LANE	400+50		403+30	280	11.5	3,220	358	41	39	
RT LANE	414+43		415+93	150	11.5	1,725	192	22	21	
RT LANE	469+00		470+50	150	11.5	1,725	192	22	21	
RT LANE	482+65		485+00	235	11.5	2,703	300	34	33	
RT LANE	494+00		496+75	275	11.5	3,163	351	40	39	
RT LANE	504+75		506+25	150	11.5	1,725	192	22	21	
RT LANE	514+86		516+36	150	11.5	1,725	192	22	21	
RT LANE	521+12		522+62	150	11.5	1,725	192	22	21	
RT LANE	533+01		534+51	150	11.5	1,725	192	22	21	
RT LANE	536+00		538+42	242	11.5	2,783	309	35	34	
RT LANE	573+77		575+27	150	11.5	1,725	192	22	21	
LT LANE	10+00		11+50	150	11.5	1,725	192	22	21	
LT LANE	37+00		40+20	320	11.5	3,680	409	47	45	
LT LANE	49+50		51+00	150	11.5	1,725	192	22	21	
LT LANE	90+65		92+15	150	11.5	1,725	192	22	21	
LT LANE	97+70		100+00	230	11.5	2,645	294	34	32	
LT LANE	253+85		255+35	150	11.5	1,725	192	22	21	
LT LANE	256+97		258+65	168	11.5	1,932	215	25	24	
LT LANE	346+08		347+58	150	11.5	1,725	192	22	21	
LT LANE	351+88		353+38	150	11.5	1,725	192	22	21	
LT LANE	437+00		442+55	555	11.5	6,383	709	81	78	
LT LANE	449+80		451+30	150	11.5	1,725	192	22	21	
LT LANE	469+00		470+50	150	11.5	1,725	192	22	21	
LT LANE	485+03		486+53	150	11.5	1,725	192	22	21	
LT LANE	512+78		514+28	150	11.5	1,725	192	22	21	
LT LANE	573+77		575+27	150	11.5	1,725	192	22	21	
		E				Total =	10411	1195	1145	
			e Used As Dir				1041 eld Conditions	119	115	

- 11 -

Note: Locations and Measurements are Approximate and May Vary With Field Conditions

DEPTH = 2"

SR 21 COUNTY ROAD MILLING LOCATIONS									
County Road	Sta.	Area (SF)	406-D001 Fine Milling of Bituminous Pavement, All Depths (SY)	403-A002 12.5mm, MT, Asphalt Pavement (TONS)					
412	158+00	803	89	10					
420	195+75	1,516	168	19					
359	205+90	778	86	10					
422	233+31	1,022	114	13					
147	263+59	7,056	784	90					
Fair Ground Road	263+59	4,710	523	60					
365	366+17	2,782	309	35					
1333	372+36	658	73	8					
SR 488	482+85	10,025	1,114	128					
		Totol		074					
Ac	ditional Quantities	Total = Total =	3260 326	374 37					

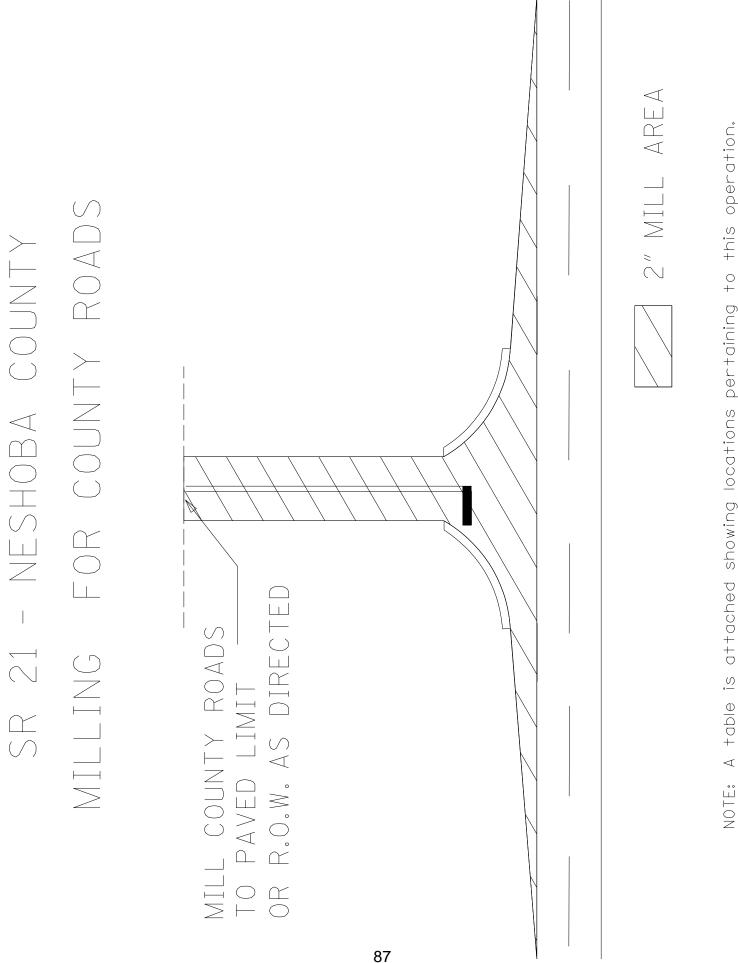
- 12 -

ote: Locations and Measurements are Approximate and May Vary With Field Condition
DEPTH = 2"

SR 21 COUNTY ROAD MILLED TIE IN LOCATIONS								
County Road	Sta.	Area (SF)	406-D001 Fine Milling of Bituminous Pavement, All Depths (SY)	403-A002 12.5mm, MT, Asphalt Pavement (TONS)				
338	53+52	592	6	8				
339	55+60	1,507	6	19				
339	58+50	1,065	6	14				
129	62+56	1,033	6	13				
129	64+00	2,347	6	30				
410	97+40	1,585	6	20				
485	166+23	5,204	6	66				
414	257+85	7,357	6	94				
404	279+23	1,899	6	24				
424	293+70	2,070	6	26				
367	340+52	2,503	6	32				
369	448+89	1,532	6	20				
BIA 0228	455+35	2,904	6	37				
373	485+50	1,777	6	23				
		Total =	84	426				
A Note: Locations and M	dditional Quantities		8	43				

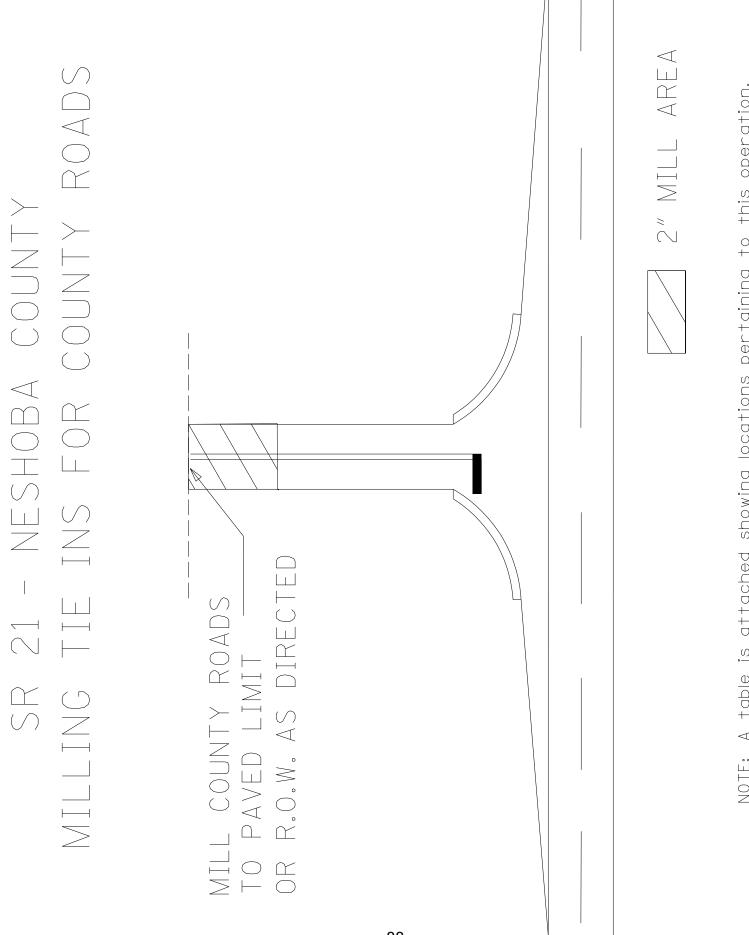
- 13 -

Note: Locations and Measurements are Approximate and May Vary With Field Conditions **DEPTH = 2**"



- 14 -

A table is attached showing locations pertaining to this operation.

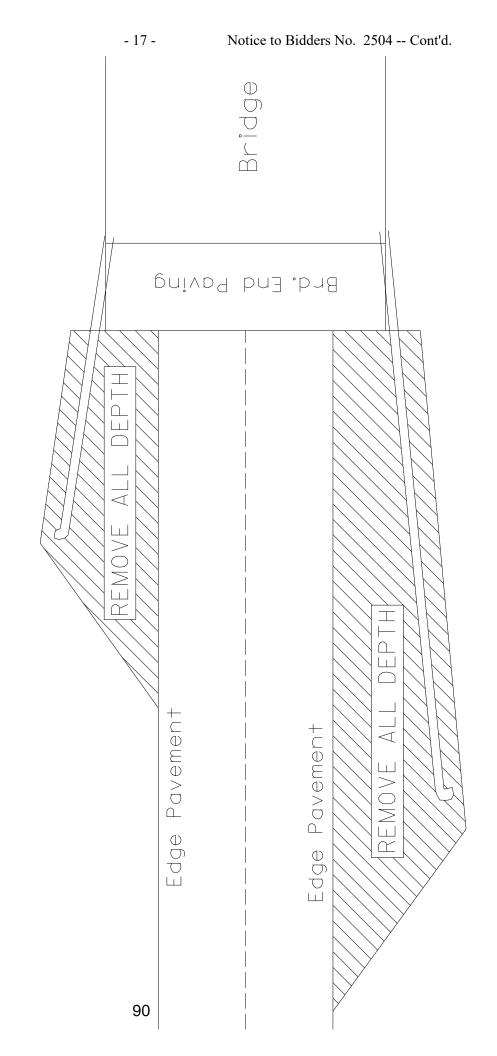


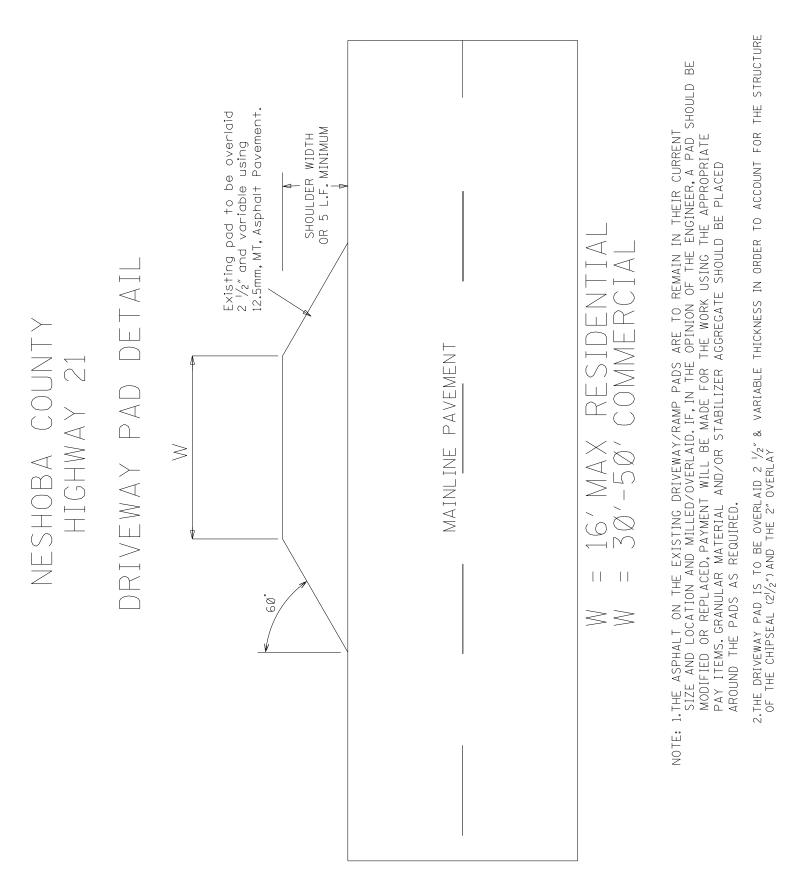
- 15 -

NOTE: A table is attached showing locations pertaining to this operation.

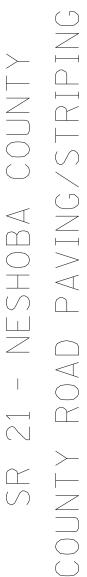
			403-0002	1: Aspl	49	09		109			
				202-B007 Removal of Asphalt Pavement, All Depths (SY)	217	266		483	02-B158		
		NO	<b>Object Markers</b>	OM-3L (EA)	1	1		2	v Item No. 2		
		ALLATI	Object I	OM-3R (EA)	1	1		2	or under Pav		
		ID INST/	Deliniators, White (EA)		ω	8		16	s will be paid fo		
	SR 21	<b>RAIL REMOVAL AND INSTALLATION</b>		Terminal End Section, Flared (EA)	2	2		4	* Removal of guardrails, including rails, posts, and terminal ends will be paid for under Pay Item No. 202-B158		
		GUARD RAIL RI	"W" Beam (LF)		127.5	101.5		229	uding rails,pc		
			GUARD	GUARD		Type "H" Bridge End (EA)	2	2		4	f quardrails, incl
					Removal (LF)	240	214		454	* Removal o	
			Direction	SOUTH BOUND	NORTH BOUND		TOTALS				
				Bridge No.	32.7	32.7		Τ(			

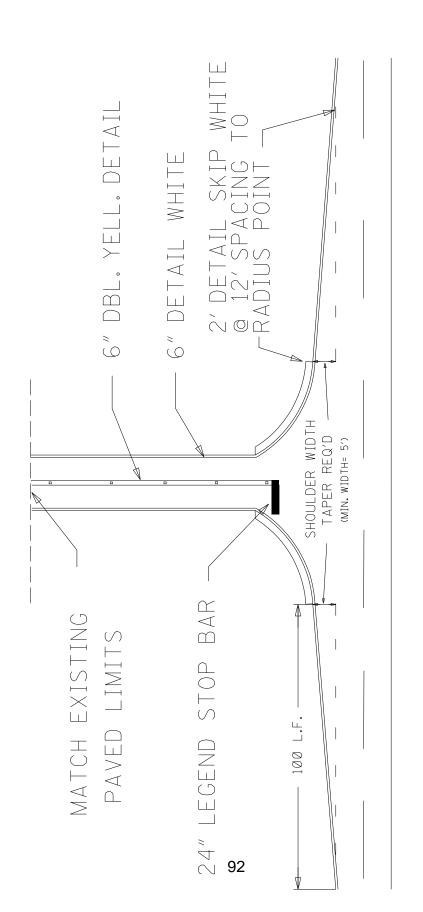
REMOVE & REPAVE BRIDGE GUARDRAIL PAD SR 21 - NESHOBA COUNTY





91





BE 6" of 12.5mm,MT, NOTE: 100' TAPERS TO BE CONSTRUCTED WHERE 5' SHOULDER WIDTH IS NOTE: DETAIL SKIP SHALL BE PLACED ON LOCAL ROADS WITH TAPERS. AVAILABLE AT THE BEGINNING OF LOCAL ROAD RADIUS. SHALL ASPHALT PAVEMENT THICKNESS IN TAPER Asphalt Pavement in two 3" lifts. NOTE:

SR 21 CRUSHED STONE LEFT LANE PRE-LEVELING LOCATIONS									
Location	Sta.	То	Sta.	Length (FT)	Width (FT)	304-E003 Granular Material, LVM, Crushed Stone (CY)			
LT LN	27+36		28+50	114	2	3			
LT LN	36+50		41+00	450	2	11			
LT LN	43+00		45+30	230	2	6			
LT LN	46+75		48+75	200	2	5			
LT LN	57+50		60+00	250	2	6			
LT LN	63+00		64+55	155	2	4			
LT LN	72+00		84+00	1200	2	29			
LT LN	93+50		95+75	225	2	6			
LT LN	101+50		124+00	2250	2	55			
LT LN	127+40		135+00	760	2	19			
LT LN	140+00		143+50	350	2	9			
LT LN	147+70		153+00	530	2	13			
LT LN	163+00		166+00	300	2	7			
LT LN	175+00		178+00	300	2	7			
LT LN	182+00		185+75	375	2	9			
LT LN	208+00		211+00	300	2	7			
LT LN	235+50		242+00	650	2	16			
LT LN	247+00		254+00	700	2	17			
LT LN	278+30		298+00	1970	2	48			
LT LN	306+00		309+30	330	2	8			
LT LN	371+00		374+50	350	2	9			
LT LN	404+80		417+00	1220	2	30			
LT LN	435+50		444+00	850	2	21			
LT LN	540+00		554+50	1450	2	35			
۰.۲۲ الم ۲	nal Quantitia			aatad Dy The	TOTAL=	379			
Additional Quantities To Be Used As Directed By The Engineer: 38									

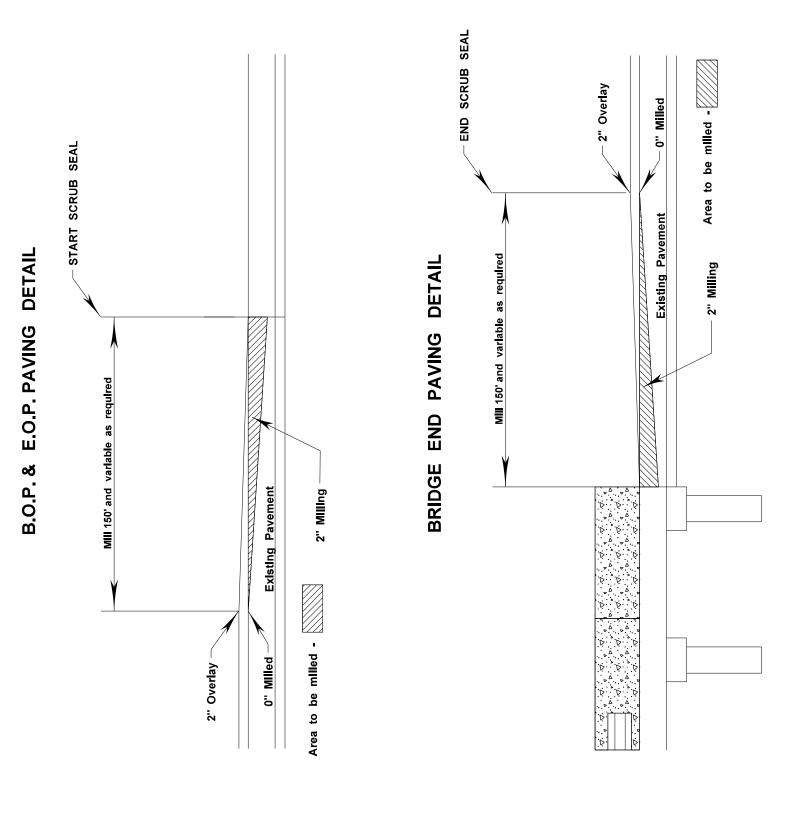
- 20 -

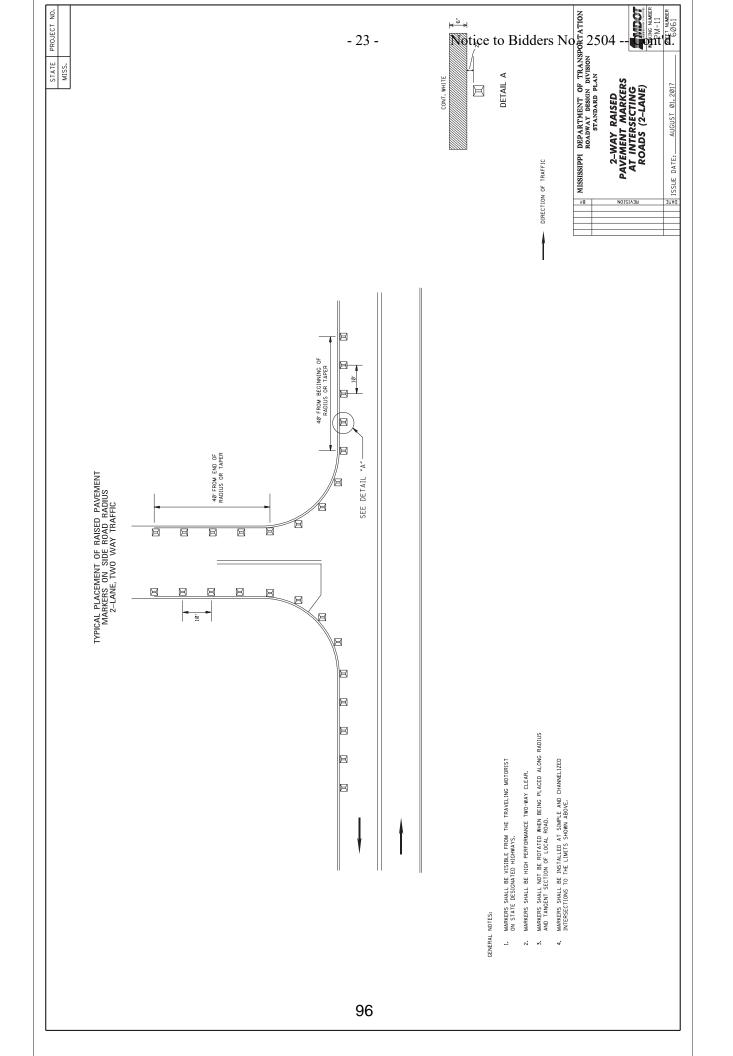
Note: Locations and Measurements are Approximate and May Vary With Field Conditions

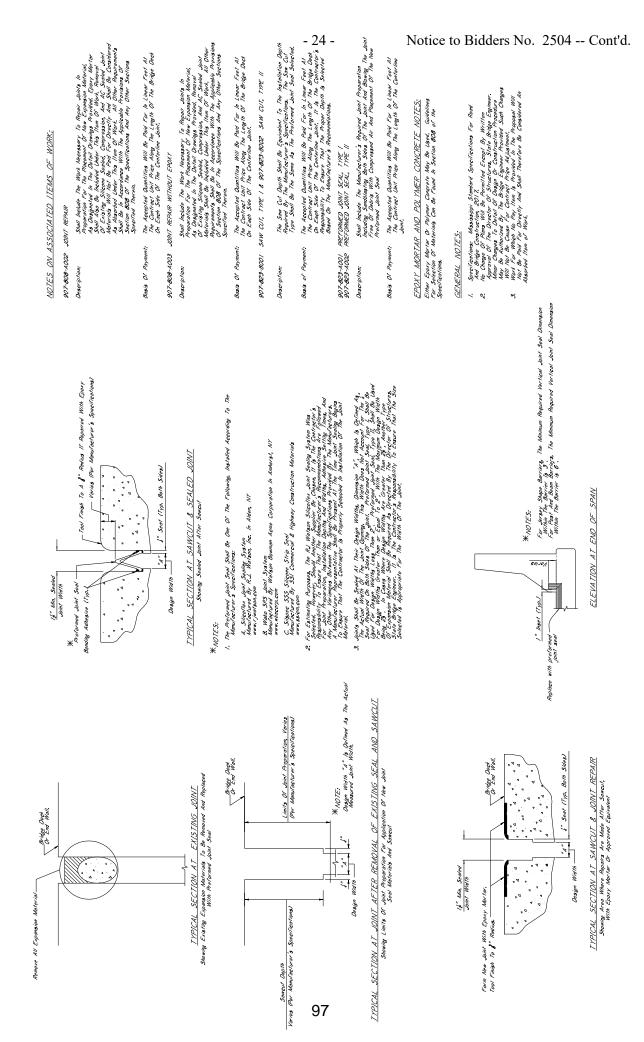
SR 21 CRUSHED STONE RIGHT LANE PRE-LEVELING LOCATIONS									
Location	Sta.	То	Sta.	Length (FT)	Width (FT)	304-E003 Granular Material, LVM, Crushed Stone (CY)			
RT LN	17+50		20+50	300	2	7			
RT LN	31+50		34+00	250	2	6			
RT LN	39+50		42+64	314	2	8			
RT LN	51+00		57+00	600	2	15			
RT LN	86+00		89+50	350	2	9			
RT LN	92+50		95+75	325	2	8			
RT LN	127+40		132+00	460	2	11			
RT LN	140+00		143+00	300	2	7			
RT LN	144+50		150+50	600	2	15			
RT LN	153+00		161+00	800	2	20			
RT LN	176+00		179+80	380	2	9			
RT LN	208+00		214+75	675	2	17			
RT LN	222+00		231+75	975	2	24			
RT LN	249+00		253+00	400	2	10			
RT LN	259+00		262+85	385	2	9			
RT LN	264+70		271+00	630	2	15			
RT LN	273+30		275+30	200	2	5			
RT LN	282+66		289+00	634	2	15			
RT LN	313+75		316+00	225	2	6			
RT LN	338+00		341+30	330	2	8			
RT LN	343+80		346+65	285	2	7			
RT LN	405+40		427+60	2220	2	54			
RT LN	453+00		456+85	385	2	9			
RT LN	475+50		489+50	1400	2	34			
RT LN	501+25		503+50	225	2	6			
RT LN	514+00		537+00	2300	2	56			
RT LN	558+40		575+27	1687	2	41			
- ۱۹۹۲ م	nal Quantities		a Haad Ar Di	a ato al Dec The	TOTAL=	431			
				-		43 h Field Conditions			

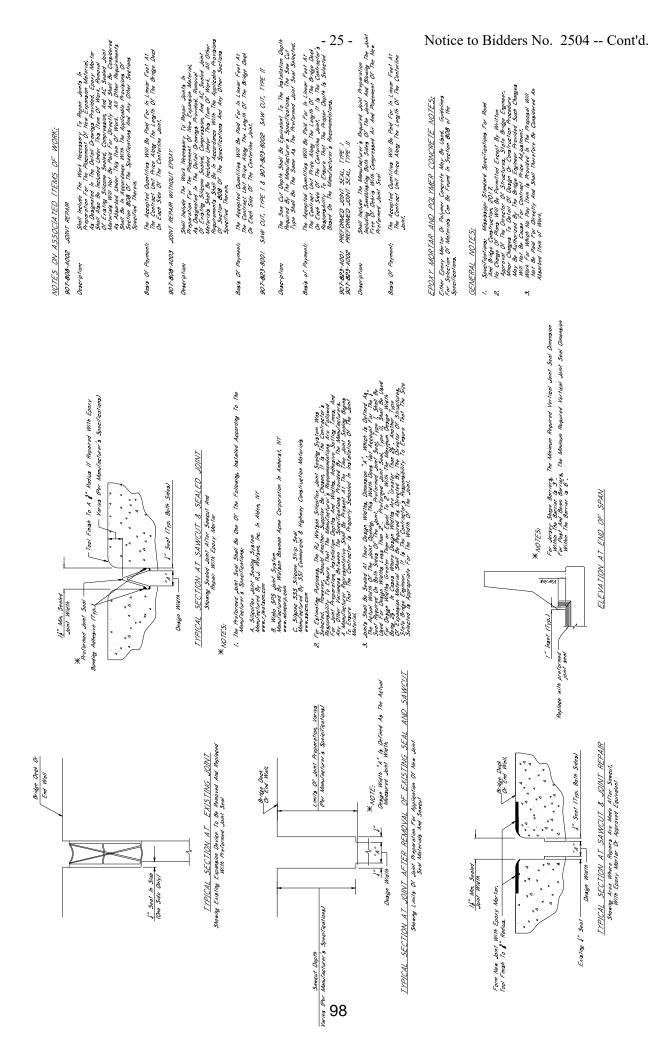
- 21 -

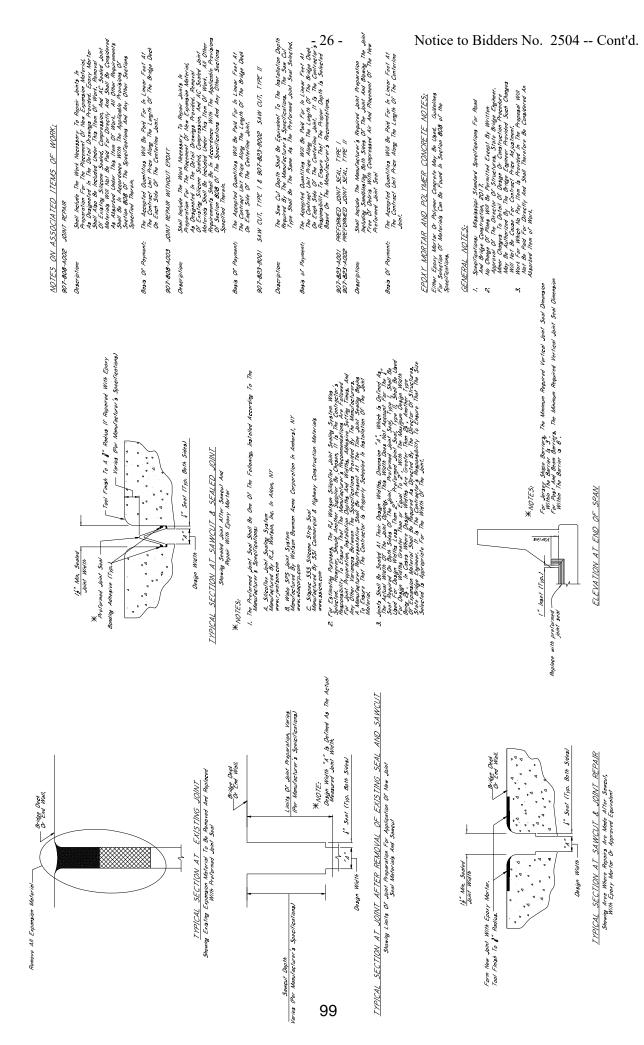
Note: Locations and Measurements are Approximate and May Vary With Field Conditions

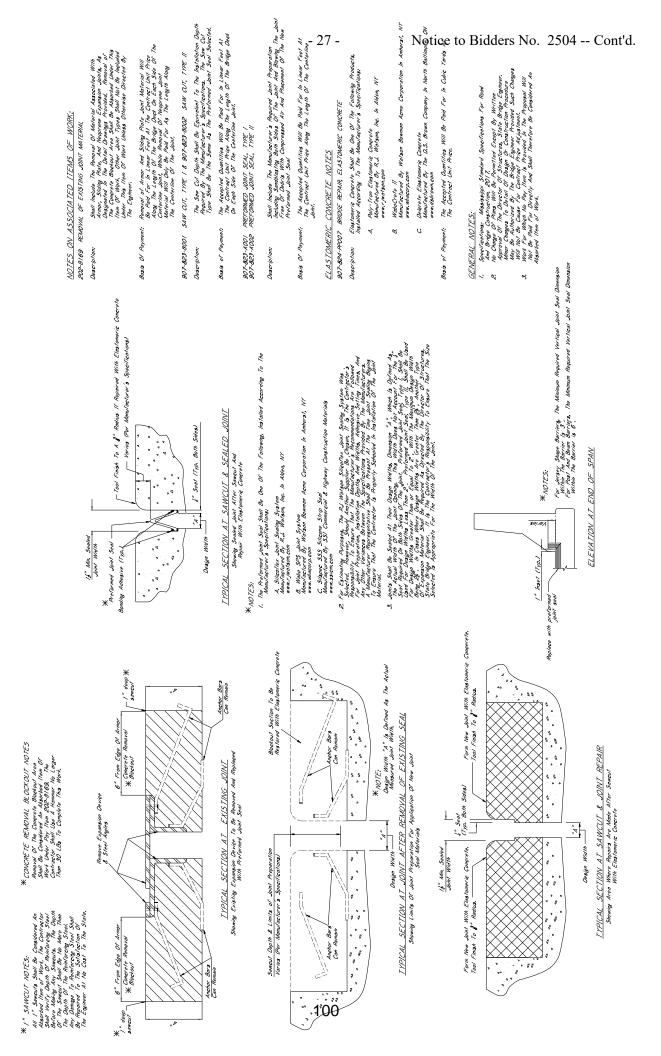


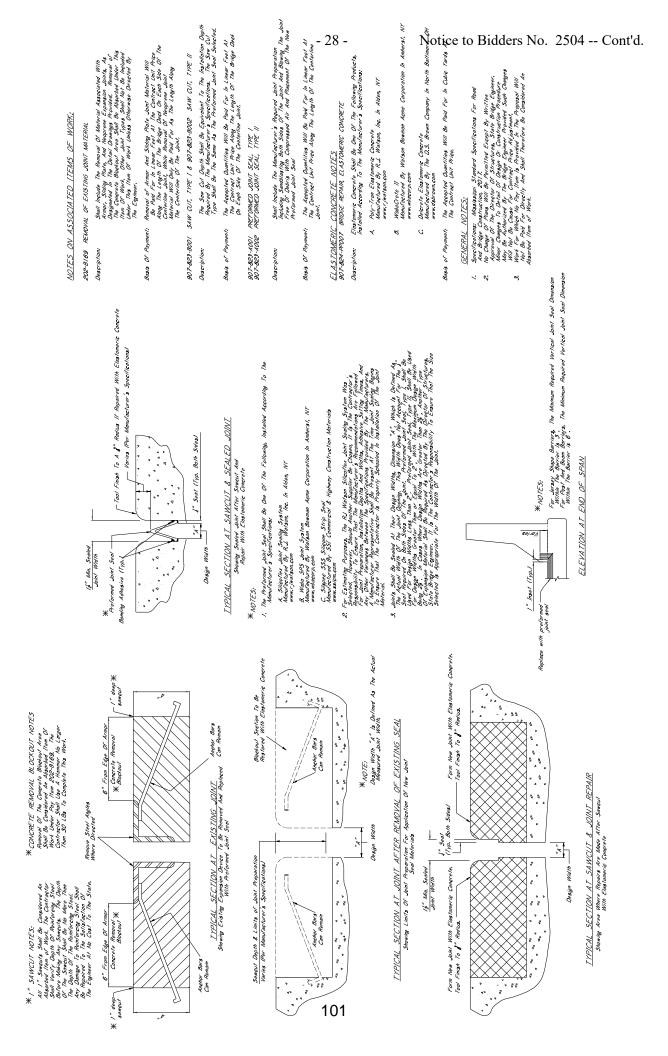


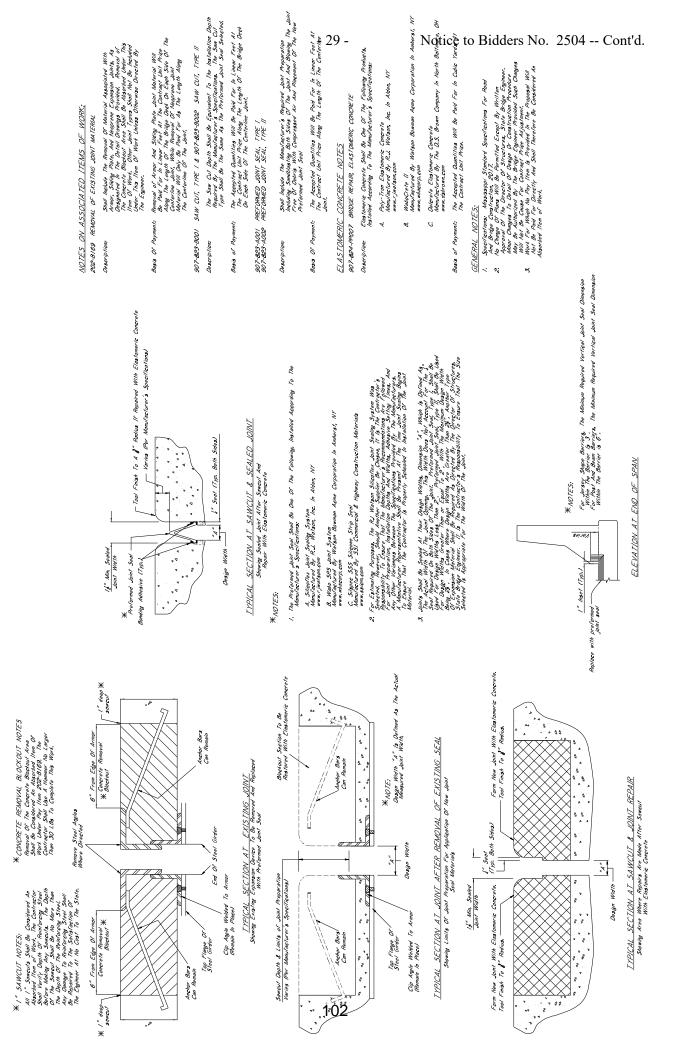


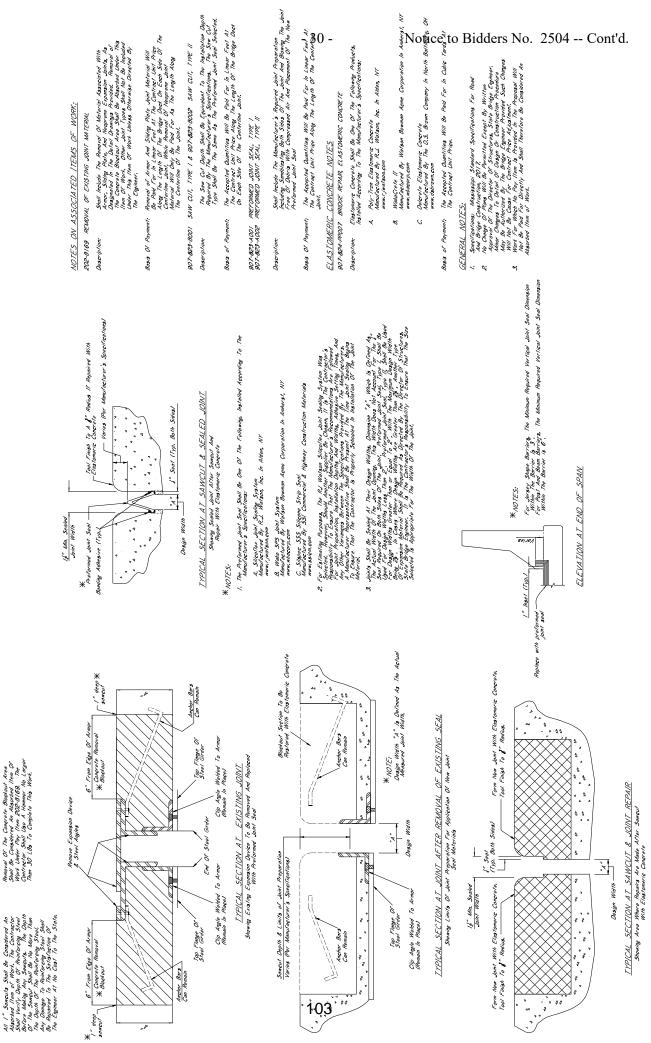






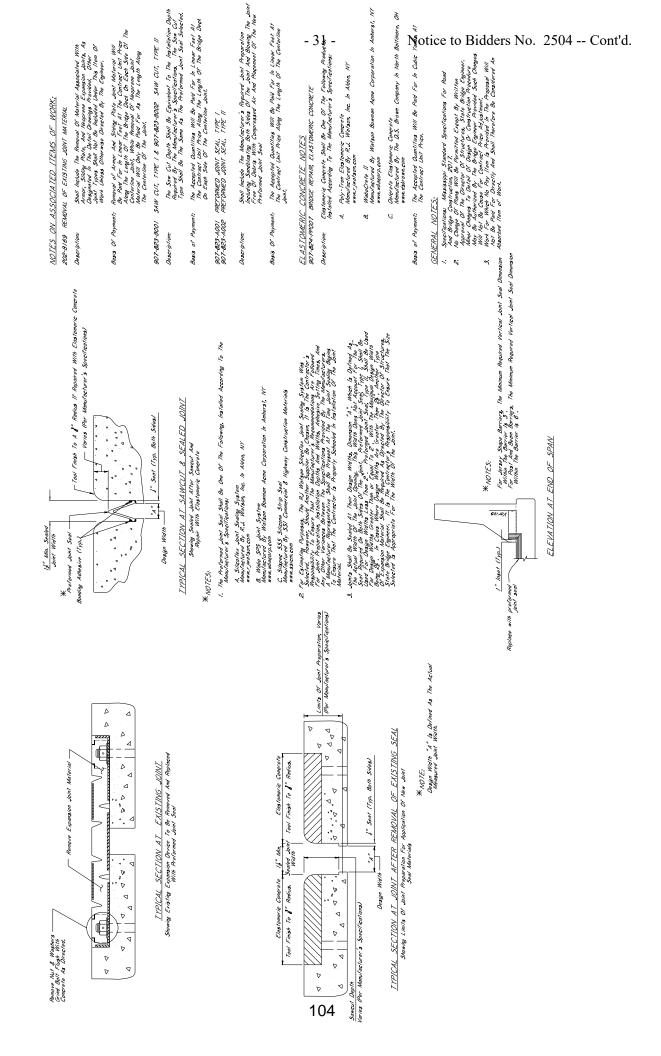


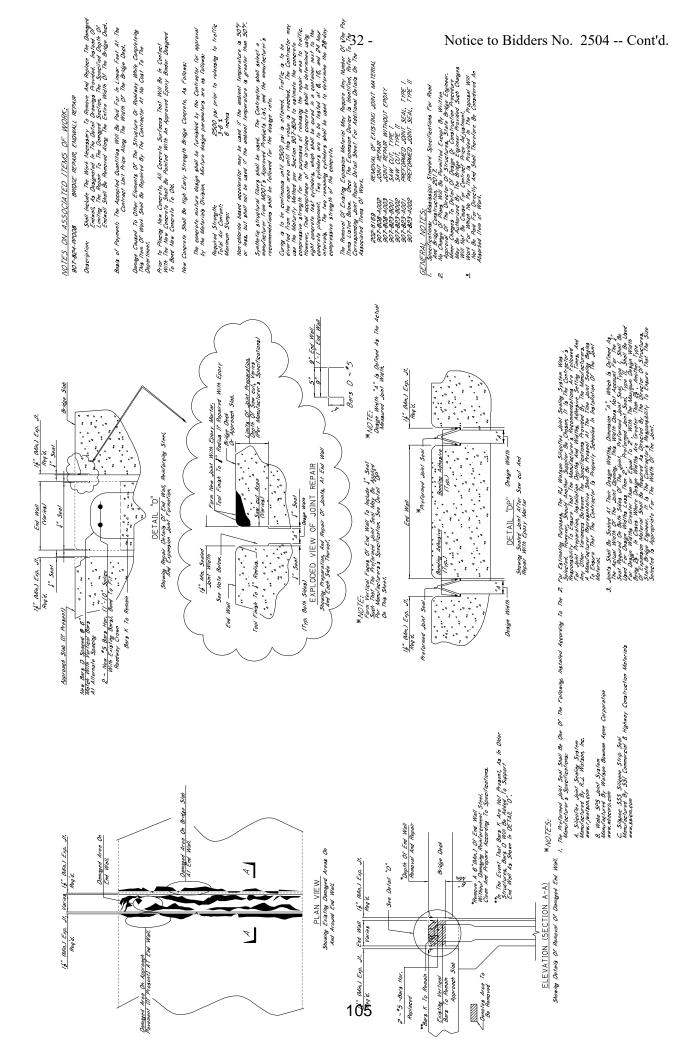




# CONCRETE REHOUAL BLOCKOUT NOTES Seminal OF The Concrete Blockout Area Seminal OF The Concrete Blockout Area Seminal Considered A Alsoneth The OF Work Under Tay The Alsoneth The OF Them 50 LB To Complete This Work.

\* I" SAWCUT NOTES.





## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

## SECTION 904 - NOTICE TO BIDDERS NO. 2505

CODE: (SP)

DATE: 06/18/2019

SUBJECT: Temporary Construction Signs

#### PROJECT: SP-5021-50(020) / 108569301 -- Neshoba County

Bidders are hereby advised of the following regarding the Temporary Construction Signs required:

Should the Bidders elect to install Temporary Construction Signs by first driving short u-channel sections and then bolting the longer, correct height u-channel sections to them, the Bidders are advised that these short sections shall be a minimum of five (5) feet from the ground level when driven and the splice must consist of a minimum of eighteen (18) inches of overlap with a total of four (4) bolts. Bidders are also advised that it is mandatory that these short sections be removed at the completion of the project.

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

## SECTION 904 - NOTICE TO BIDDERS NO. 2506

CODE: (SP)

DATE: 7/16/2019

**SUBJECT: Underground Utilities** 

#### **PROJECT:** SP-5021-50(020) / 108569301 -- Neshoba County

Bidders are hereby advised that utility lines owned and maintained by MDOT may be present within the project limits. These utilities are not located by Mississippi 811. It shall be the Contractor's responsibility to coordinate with MDOT to have the utility lines located and marked prior to beginning work. The Contractor shall give a minimum of three (3) working days of advance notice for locate requests. The contacts for MDOT utility lines are as follows:

Underground Power Lines:

Michael Lee – 601-683-3341 – <u>mlee@mdot.ms.gov</u> Vince Herrington – 601-683-3341 – <u>vherrington@mdot.ms.gov</u>

Underground Communication Lines:

Celina Sumrall – 601-359-1454 – <u>csumrall@mdot.ms.gov</u> Lauren Landers – 601-359-1454 – <u>llanders@mdot.ms.gov</u> Henry Lewis – 601-359-1454 – <u>hlewis@mdot.ms.gov</u>

Underground Signal Lines:

Amrik Singh – 601-359-1454 – <u>asingh@mdot.ms.gov</u> Kenneth Welch – 601-359-1454 – <u>kwelch@mdot.ms.gov</u>

## **SPECIAL PROVISION NO. 907-102-2**

CODE: (IS)

DATE: 11/22/2017

#### SUBJECT: Bidding Requirements and Conditions

Section 102, Bidding Requirements and Conditions, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-102.01--Prequalification of Bidders.</u> Delete the last sentence of the third paragraph of Subsection 102.01 on page 13, and substitute the following.

The Bidder's Certificate of Responsibility number must be on file with the Department's Contract Administration Division prior to request for permission to bid.

<u>907-102.02--Contents of Proposal Forms</u>. Delete the fourth paragraph in Subsection 102.02 on page 13, and substitute the following.

Prospective bidders must complete an online request for permission to be eligible to bid a project. Upon approval, the bidder will be authorized to submit a bid electronically using Bid Express at <a href="http://bidx.com">http://bidx.com</a>.

## **SPECIAL PROVISION NO. 907-103-2**

CODE: (SP)

DATE: 06/22/2017

## SUBJECT: Award and Execution of Contract

Section 103, Award and Execution of Contract, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-103.01--Consideration of Proposal.</u> Delete the second and third paragraphs of Subsection 103.01 on page 19, and substitute the following.

<u>907-103.01.1--For Projects Constructed Without Federal Funds.</u> Resident Contractors actually domiciled in Mississippi are to be granted preference over nonresidents in awarding of Contracts financed 100% with State funds.

In consideration of proposals that are equal to or in excess of \$50,000 and financed 100% with State funds, a nonresident bidder domiciled in a state having laws granting preference to local Contractors will be considered for such contracts on the same basis as the nonresident bidder's state awards contracts to Mississippi Contractors bidding under similar circumstances. When a nonresident Contractor submits a bid equal to or in excess of \$50,000 on a contract financed 100% with State funds, a copy of the current laws from the state of domicile and an explanation thereof pertaining to treatment of nonresident Contractors shall be attached. If no preferential treatment is provided for Contractors in the state of domicile and contracts are awarded to the lowest responsible bidder, a statement to this effect shall be attached. Should the attachment not accompany the bid when submitted, the Contractor shall have 10 days following the opening of the bids to furnish the required information to the Contract Administration Director for attachment to the bid. Failure to provide the attachment within 10 days will result in the nonresident Contractor's bid being rejected and not considered for award. As used herein, the term "resident Contractor" includes a nonresident person, firm or corporation that has been qualified to do business in this State and has maintained a permanent full-time office in the State of Mississippi for two years prior to the submission of the bid, and the subsidiaries and affiliates of such a person, firm or corporation.

#### **SPECIAL PROVISION NO. 907-109-1**

CODE: (IS)

DATE: 05/08/2019

#### **SUBJECT:** Measurement and Payment

Section 109, Measurement and Payment, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-109.01--Measurement of Quantities</u>. Delete the sixth full paragraph of Subsection 109.01 on page 88, and substitute the following.

If appropriate based on the specific circumstances of the project, the Contractor may request that material specified to be measured by the cubic yard or ton be converted to the other measure. The Contractor must submit this request to the Engineer. The Engineer will provide an approval or denial in writing. The decision is in the sole discretion of the Engineer. If approved, factors for this conversion will be determined by the District Materials Engineer and agreed to by the Contractor. The conversion of the materials along with the conversion factor will be incorporated into the Contract by supplemental agreement. The supplemental agreement must be executed before such method of measurement is used.

## **SPECIAL PROVISION NO. 907-414-1**

CODE: (SP)

## DATE: 05/02/2017

## SUBJECT: Polymer Modified Asphalt Rejuvenating Scrub Seal

Section 907-414, Scrub Seal, is hereby added to and made a part of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

## SECTION 907-414 -- POLYMER MODIFIED ASPHALT REJUVENATING SCRUB SEAL

<u>907-414.01--Description</u>. This work shall consist of, but not be limited to, furnishing all labor, materials, equipment and transportation for the application of a polymer modified asphalt rejuvenating scrub seal. All ingredients shall be properly proportioned, mixed, and spread on the paved surface in accordance with this Specification and as directed by the Engineer.

#### <u>907-414.02--Materials.</u>

<u>907-414.02.1--Aggregate</u>. Unless otherwise noted, the aggregate material shall be one of the seal aggregate cover materials listed in and meeting the requirements of Subsection 703.14 of the Standard Specifications.

<u>907-414.02.2--Asphalt Emulsion for Scrub Seal.</u> The asphalt emulsion for scrub seal shall meet the requirements of the following table and shall be composed of a polymer modifier, a petroleum based rejuvenating agent, and asphalt.

Test on Emulsion	Method	Speci	fication
		(min)	(max)
Viscosity @77 (SFS)	AASHTO T 59	50	350
Residue, w% <sup>(1)</sup>	AASHTO T 59	60	-
Storage Stability, 24 h, %	AASHTO T 59	-	1.0
Sieve, w%	AASHTO T 59		0.1
Oil distillate, w%	AASHTO T 59		0.5
Test on Residue <sup>(1)</sup>			
Viscosity @ 140°F, P	AASHTO T 202	-	3000
Penetration @ 4°C (39.2°F),	AASHTO T 59	30	-
200 g, 60 sec			
<b>Test on Polymer Modifier</b>			
Swelling in rejuvenating	ASTM D 471 <sup>(2)</sup>	-	40%
agent, %; 48 hours exposure @ 104°F	Modified		intact film
Test on Rejuvenating Agent			
Flash point, COC, °F	AASHTO T 48	380	-
Viscosity @ 140°F, CST	AASHTO T 201	50	175
Saturate, % by weight	ASTM D 2007	-	30
Asphaltenes	ASTM D 2007	-	1.0
Test on Residue			
Weight Change, %			6.5
Viscosity Ratio			3

- 2 -

- Exception to AASHTO T59: Bring the temperature on the lower thermometer slowly to 350°F plus or minus 10°F. Maintain at this temperature for 20 minutes. Complete total distillation in 60 plus or minus 5 minutes from first application of heat.
- (2) Polymer Modifier Testing: Suitable substrate for film formation shall be polyethylene boards, silicone rubber sheeting, glass, or any substrate which produces a cured film of uniform cross-section. Polymer film shall be prepared from latex as follows:

Resistance to Swelling: Polymer films shall be formed by using a 50 mil drawdown bar and drawing down 50 mils of the latex on polyethylene boards. Films shall be cured for 14 days at 75°F and 50% humidity. Samples for resistance to swelling in rejuvenating agent shall be 1" by 2" rectangles cut from the cured film. Cut at least 3 specimens for each sample to be tested for swelling. Fill 3- 8 oz ointment tins with at least a  $\frac{1}{2}$ " deep of rejuvenating agent. Swelling samples shall be weighed and then placed in the ointment tins on top of the rejuvenating agent. Then, add at least another  $\frac{1}{2}$ " deep of rejuvenating agent over each of the latex samples. The ointment tins shall be covered and placed in an oven at 104°F for the specified 48 hours +/- 15 minutes. The ointment tins are allowed to cool to 75°F and then the latex films are removed from the tins. Unabsorbed rejuvenating agent is removed from the intact latex film by scraping with a rubber policeman and blotting with paper towels. If the latex film does not remain intact during removal from the tins or while removing the unabsorbed rejuvenating agent the sample shall be rejected. After the rejuvenating agent is removed from the sample shall be rejected as weight increase of the polymer film; report mass increase as a percent by weight of the original latex film mass upon exposure of films to the rejuvenating agent.

When a fog seal is required, the asphalt emulsion shall meet the requirements of Subsection 702.07.

<u>907-414.02.2.1--Certification and Acceptance.</u> The Emulsion supplier shall submit a certification that the polymer modified rejuvenating emulsion meets the requirements of the specification. The certification shall be submitted to the Engineer prior to starting the work. The Engineer will sample the polymer modified rejuvenating emulsion according to Department procedures. Final acceptance of the emulsion for scrub seal will be based on the Manufacturer's Certification and testing conducted by the Department.

- 3 -

<u>907-414.03--Construction Requirements.</u> The attached sign drawings shall be used during scrub seal operations. Prior to any sealing operation, the rectangular "Loose Rock" signs shall be installed and remain in place until all sealing operations are complete. Prior to any daily sealing operation, the portable "Loose Rock" signs shall be installed in accordance with the attached drawings. Portable signs shall be installed and remain in place on a daily basis in the active sealing area. Payment for signs shown on the sign detail drawings shall be made under pay item no. 618-A, Maintenance of Traffic.

<u>907-414.03.1--Preparation</u>. The work shall be done in the following order: Prepare the pavement surface; apply the asphalt emulsion for scrub seal and scrub the applied emulsion with a scrub broom as specified herein; apply the aggregate, roll the aggregate, broom the aggregate with a secondary broom when specified; and sweep up and dispose of excess aggregate. Excess aggregate shall be removed from the project unless otherwise approved by the Engineer.

Prior to the scrub seal operation, the Contractor shall remove any and all vegetation within the limits of the scrub seal installation. The use of herbicides will be allowed at the discretion of the Engineer.

If used, the herbicide shall be applied at least 10 days prior to the scrub seal operation, or as directed by the manufacturer of the approved herbicide. The application of the herbicide shall be performed in accordance with all applicable regulations. Any and all fines or clean-up costs for unlawful misuse or discarding of herbicides shall be the sole responsibility of the Contractor. Mixtures and spread rates for the herbicides shall be determined by the manufacturer's specifications. Wash down of equipment or discarding of herbicides shall not enter catch basins or positive drainage facilities.

Prior to the scrub seal operation, the Contractor shall remove all existing thermoplastic striping, thermoplastic legends and raised pavement markers within the scrub seal limits. Removal shall be performed to the satisfaction of the Engineer.

Prior to the scrub seal operation, all drain inlet covers, monument covers, and all other utility covers shall be protected from the Contractor's scrub seal operations by applying a sheet of plastic over the exposed facilities, or other methods approved by the Engineer. All traces of plastic, residual emulsion and aggregate shall be removed from covered objects after the application of the scrub seal and/or prior to final inspection of the project.

Immediately prior to the scrub sealing operations, the Contractor shall sweep the entire pavement surface.

<u>907-414.03.2--Application</u>. The scrub seal shall be applied from edge of pavement to edge of pavement. The edges of the scrub seal application shall be maintained in a neat and uniform line. Scrub seal shall not be applied on concrete gutters or pads unless directed by the Engineer.

The application of the asphalt emulsion for scrub seal shall be applied only when the ambient and pavement temperatures are above 70°F.

The asphalt emulsion for scrub seal shall be applied with a distributor truck at the following target rates. The actual emulsion application rate shall be determined from the surface demands and aggregate used. Any adjustments of the application rate shall be approved by the Engineer, and manufacturer's representative if necessary.

The optimum application rate of bituminous material is dependent on the chosen seal aggregate gradation as well as the condition of the pavement in which the bituminous surface treatment is to be applied. The application rate of the bituminous material may be adjusted by the Engineer based on field conditions at the time of construction. Following are target application rates for bituminous material.

Seal Aggregate Gradation	Bituminous Material	Target Application Rate (gal/yd <sup>2</sup> )	Tolerance
Size No. 7	Emulsified Asphalt	0.33	<u>+</u> 0.03
Size No. 8 or 89	Emulsified Asphalt	0.30	<u>+</u> 0.03

Note: Emulsified Asphalt shall not be diluted. A sample of emulsified asphalt should be obtained from the Contractor's distributor on the first day of production and thereafter at a frequency not to exceed 1 sample per 50,000 gallons. Because the time between sampling of the emulsified asphalt and the testing of the material can affect the test results, samples should be sent to the MDOT Central Lab for testing as soon as possible.

The asphalt emulsion for scrub seal temperature when applied shall be a minimum of 140° to 180°F. For smaller areas, the emulsion may be applied with a wand. The emulsion shall be immediately broomed to fill cracks and voids. The emulsion scrub broom shall be as described below.

Immediately following the application of the emulsion to the road surface, the material shall be scrubbed with a scrub broom for the purpose of forcing the emulsion into the existing surface and distributing the emulsion evenly over variable road surface contours.

The application of the asphalt emulsion for scrub seal and scrub broom operation shall cease 40 feet prior to the end of the application. The remaining asphalt emulsion for scrub seal shall be dragged out by the scrub broom, and the remaining emulsified material required to complete the pass shall be applied only by the distributor truck, at the specified rate.

Immediately following the scrubbing of emulsion, aggregate shall be applied at the following application rates.

Size 7 Slag, Stone, Gravel or Expanded Clay	$= 0.30 \pm 0.02 \text{ ft}^3 / \text{yd}^2$
Size 8 Expanded Clay	$= 0.25 \pm 0.02 \text{ ft}^3 / \text{yd}^2$
Size 89 Slag, Stone, or Gravel	$= 0.25 \pm 0.02 \text{ ft}^3 / \text{yd}^2$

The actual aggregate application rate shall be as required by the surface demands and the emulsion used. The rate shall be adjusted, within the specified limit, up or down so that no "bleed through" occurs during rolling.

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During the first day of production and at least once a week thereafter, the application rate of the aggregate shall be verified by the Department to assure that the appropriate application rate of the aggregate is applied. The rate can be verified by placing a tarp of at least  $1.0 \text{ yd}^2$  area on the roadway surface. After allowing the aggregate spreader to pass over the tarp, the aggregate on the tarp should be collected and weighed to determine the weight of aggregate. The measured weight should then be compared to the target weight calculated using the following formula.

 $W = 0.85(G_{sb})(U_w)(R)(A)(e)$ 

Where:

W = target weight of aggregate in lbs.

 $G_{sb}$  = bulk specific gravity of aggregate

 $U_w$  = Unit weight of water at 70°F = 62.3 lbs./ft<sup>3</sup>

- R = target application rate in  $ft^3/yd^2$
- A = area of tarp in  $yd^2$
- e = air voids in loose aggregate = 0.4

 $G_{sb}$  for gravel = 2.650  $G_{sb}$  for limestone = 2.700

Note: Bulk specific gravities of expanded clay and steel slag should be obtained from the seal aggregate supplier.

Upon determining the target weight, it should be compared to the actual measured weight. If the difference in the target weight and the actual measured weight is over 2.5 pounds, the aggregate distributor should be adjusted such that the spread rate is within the above tolerance. The above procedure shall be repeated until the spread rate is within the allowable tolerance.

If at any point during production, excessive aggregate is noted, the aggregate application rate should be verified and the spread rate adjusted. The intent is to minimize the amount of excess aggregate. Excess aggregate removed from the roadway surface after brooming shall be removed from the job site and should not be reused in the aggregate operation.

The dry aggregate shall be spread uniformly to cover the bituminous material with the quantity of mineral aggregate specified by the Engineer. All deficient areas shall be covered by additional material. All excess cover material shall be removed from the surface and stockpiled or used as directed.

A minimum of two self-propelled pneumatic-tired rollers shall be used for the required rolling of the aggregate. The pneumatic-tired rollers shall be in good working condition and actively rolling at all times during the scrub seal operation. The pneumatic-tired rollers shall be minimum 5-ton rollers. The pneumatic-tired rollers shall be operated in such a manner to prevent the dislodging of newly applied aggregate.

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If specified, a fog seal will be placed at a rate of 0.11 gallons per square yard, or as directed by the Project Engineer. The fog seal shall not be placed until after final brooming.

<u>907-414.03.3--Stockpile Sites.</u> Sites for stockpiles of materials shall be grubbed and cleaned prior to storing the aggregates, and the ground shall be firm, smooth, and well drained.

<u>907-414.03.4--Equipment</u>. The following equipment shall be used for the scrub-seal operations.

- A. <u>Asphalt Distributor</u>. The asphalt distributor for application of the emulsion shall have a full circulation spray bar that is adjustable to at least sixteen feet (16') wide in two (2) feet increments and capable of heating and circulating the emulsion simultaneously. It must have computerized rate control for adjusting and controlling the application from the cab within 0.01 gallons per square yard increments. The distributor shall also be equipped with a volume measuring device and a thermometer for measuring the emulsion temperature in the tank.
- B. <u>Scrub Broom</u>. A scrub broom as described herein shall be used to scrub the emulsion after application. The scrub broom frame shall be constructed of metal. The scrub broom shall be attached to and pulled by the distributor truck. The scrub broom must be equipped with a means of raising and lowering the scrub broom at desired points. It shall be towable in the elevated position to the next area of construction. The weight of the broom assembly shall be such that it does not squeegee the emulsion off the roadway surface.

The main body of the scrub broom shall have a frame size as shown in the drawing at the end of this special provision. The nearest and furthest members, paralleling the back of the distributor truck, and diagonal members shall be equipped with street brooms. The leading member and the trailing member shall have broom heads angled at 10 to 15 degrees off the centerline of the supporting member. The diagonal members shall have broom heads attached in line with the centerline of the supporting member. Each individual street broom attached to the scrub broom assembly shall be 3.5 inches wide x 6.5 inches high x 16 inches long and have stiff nylon bristles. Bristle height is to be maintained at a minimum of five inches (5"). The scrub broom shall be equipped with hinged wing assemblies attached to the main body not to exceed 4.5 feet per side, with diagonals and equipped with street brooms. The purpose of the maximum rigid frame width and the hinged wing extensions is not only for maximum width of 16 feet but to maintain the scrubbing process evenly as contours and cross-sections change across the existing road surface.

C. <u>Aggregate Spreader</u>. A self-propelled aggregate spreader with front discharge that can evenly distribute aggregate.

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E. Power Broom. Two (2) mechanically powered kick-brooms or vacuum type brooms.

<u>907-414.03.5--Opening to Traffic.</u> Unless otherwise advised, the Contractor's operations shall be schedule such that all lanes of traffic are open to the traveling public at the end of each day. Considering time needed for curing and preparation prior to opening traffic, the Contractor should not apply bituminous material two (2) hours before dusk, or longer, to allow sufficient time for bonding of the aggregates.

After the scrub seal has been rolled and the bituminous material has cured a minimum of one (1) hour, or longer if necessary to sufficiently hold the aggregate in place, the Contractor shall perform an initial brooming operation consisting of lightly sweeping excess aggregate material from the surface. After the initial brooming has been completed, public traffic will be allowed on the roadway.

Immediately the next morning, a final brooming shall be performed to remove any remaining excess aggregate material from the previous day's seal operation.

<u>907-414.04--Method of Measurement.</u> Scrub seal shall be measured by the square yard.

Accepted quantities for asphalt for fog seal will be measured by the gallon as prescribed in Subsection 109.01. Unless otherwise specified, distributor tank measurement will be used. The volume of material over five percent (5%) above the quantity ordered for each shot will be deducted from measured quantities, except that 15 percent will be allowed for irregular areas where hand spraying is necessary.

<u>907-414.05--Basis of Payment.</u> Scrub seal, measured as prescribed above, will be paid for at the contract bid price per square yard, which shall be full compensation for furnishing all labor, materials, equipment, temporary markers, vegetation removal, cleaning of the surface, presweeping, post-sweeping, doing all the work involved in mixing, applying and protecting the polymer modified asphaltic rejuvenating scrub seal, and all incidentals necessary to complete the work.

Asphalt for fog seal will be paid for at the contract unit price per gallon, which shall be full compensation for furnishing all labor, materials, equipment, applying and protecting the fog seal, and all incidentals necessary to complete the work.

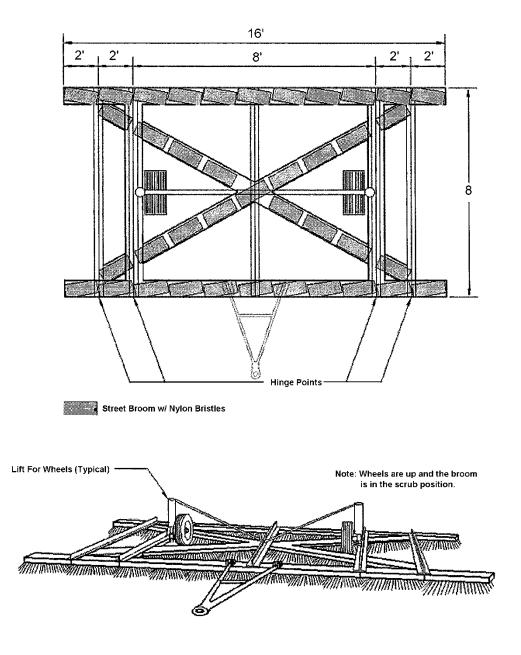
Payment will be made under:

907-414-A: Scrub Seal

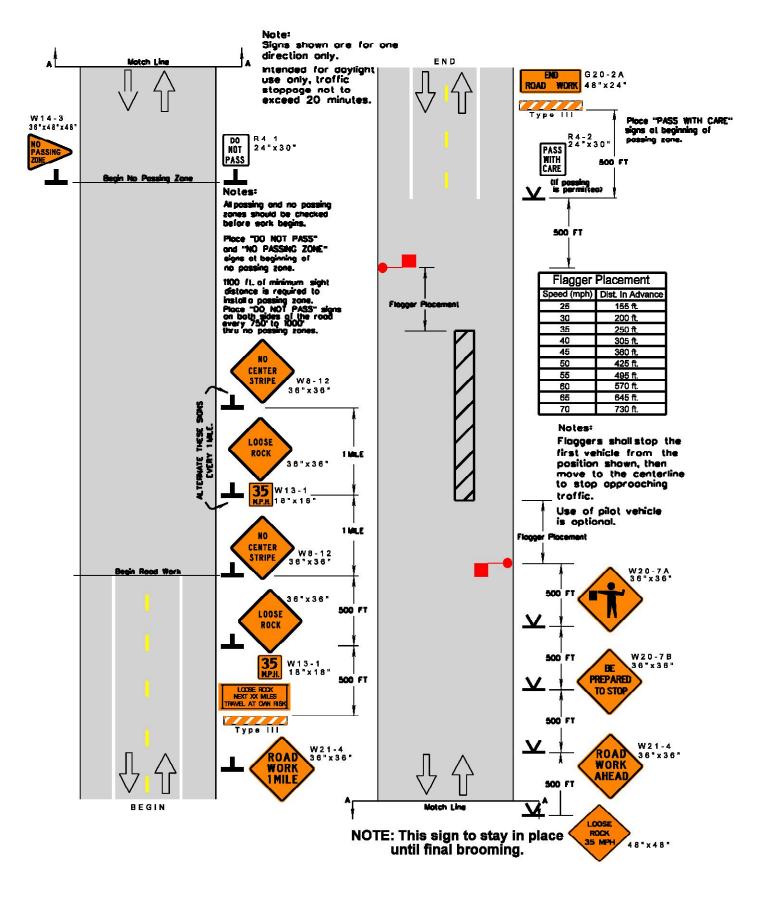
907-414-B: Asphalt for Fog Seal

- per square yard

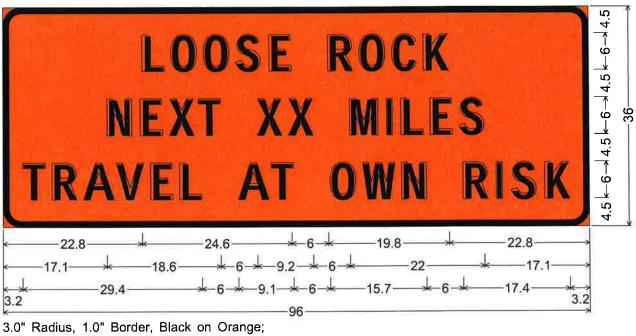
- per gallon



Scrub Broom



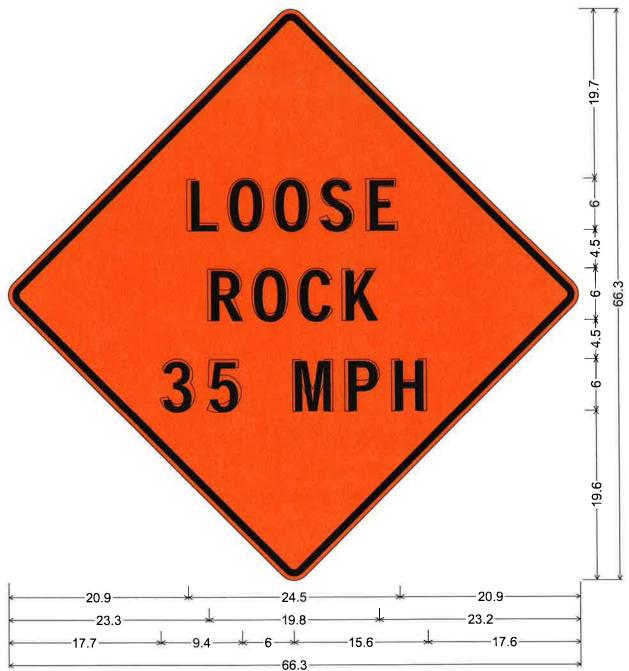
-9-



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"LOOSE ROCK" D; "NEXT XX MILES" D; "TRAVEL AT OWN RISK" D; Table of letter and object lefts.

<b>L</b> 22.8	<b>0</b> 27.	6	<b>0</b> 33.0	<b>S</b> 38	3.3	<b>E</b> 43	.7 <b>R</b> 53	3.4	<b>0</b> 58.	.5	<b>C</b> 63.9	9 <b>K</b> 9 6	9.0							
<b>N</b> 17.1	<b>E</b> 22.5	5	<b>K</b> 27.3	<b>T</b> 32	.1	<b>X</b> 41.	7 <b>X</b> 46	.9	<b>M</b> 56.9	9   I 9   6	63.0	L 65	5.3	<b>E</b> 70.	1	<b>S</b> 74.	9			
<b>T</b> 3.2	<b>R</b> 8.0	<b>A</b> 13	.2 <b>V</b>	8.6	<b>E</b> 24	4.2	L 29.0	<b>A</b> 38	3.6	<b>T</b> 44.	0 5	<b>)</b> 53.7	<b>W</b> 5	9.0	N 6	5.4	<b>R</b> 75.4	<b>I</b> 80.9	<b>S</b> 83.2	<b>K</b> 88.6



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48.0" across sides 1.9" Radius, 0.8" Border, 0.5" Indent, Black on Orange; "LOOSE" D; "ROCK" D; "35 MPH" D;

Table of letter and object lefts.

<b>L</b>	<b>0</b>	<b>0</b>	<b>S</b>	<b>E</b>
20.9	25.7	31.0	36.4	41.8
<b>R</b>	<b>0</b>	<b>C</b>	<b>K</b>	
23.3	28.4	33.8	38.9	
<b>3</b>	<b>5</b>	M	<b>P</b>	<b>H</b>
17.7	23.1	33.1	39.2	44.6

## **SPECIAL PROVISION NO. 907-619-6**

CODE: (SP)

DATE: 03/21/2018

## **SUBJECT:** Temporary Portable Rumble Strips

Section 619, Traffic Control for Construction Zones, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-619.02--Materials. After Subsection 619.02.15 on page 472, add the following.

<u>907-619.02.16--Temporary Portable Rumble Strips.</u> Temporary portable rumble strips shall be RoadQuake manufactured by PSS and meet the following requirements:

- capable of being installed without adhesives or bolts,
- have a minimum weight of 100 pounds,
- have a minimum overall length of 11 feet,
- have a minimum width of 12 inches, and
- have a maximum height of 3/4 inch.

Temporary portable rumble strips shall be installed in accordance with the attached details, or as directed by the Engineer.

<u>907-619.03--Construction Requirements.</u> After Subsection 619.03.11 on page 476, add the following.

<u>907-619.03.16--Temporary Portable Rumble Strips.</u> Temporary portable rumble strips shall be placed at locations shown on the traffic control plans, attached drawing, or as directed by the Engineer. The rumble strips shall be removed when lane closures are removed, relocated when lane closures are relocated, or as directed by the Engineer.

Prior to placement of the rumble strips, the roadway shall be cleaned to be free of dust, sand, and other materials that may cause slippage. The minimum roadway temperature at the time of installation shall be in accordance with manufacturer recommendations.

A minimum of three (3) temporary portable rumble strips shall be arranged in an array. The spacing of temporary portable rumble strips in each array shall be on 15-foot centers. One array of three (3) strips shall be used in each lane. The rumble strips shall be regularly monitored and maintained to ensure they stay in place under traffic.

<u>907-619.04--Method of Measurement.</u> At the end of Subsection 619.04 on page 478, add the following.

Temporary Portable Rumble Strips will be measured for payment by the linear foot only when a pay item for temporary portable rumble strips is included in the contract. Otherwise, temporary portable rumble strips will be included in the cost of pay item 618-A, Maintenance of Traffic. The quantity of temporary portable rumble strips will be the length of rumble strips approved by the Engineer to be in-place on the project at any one time.

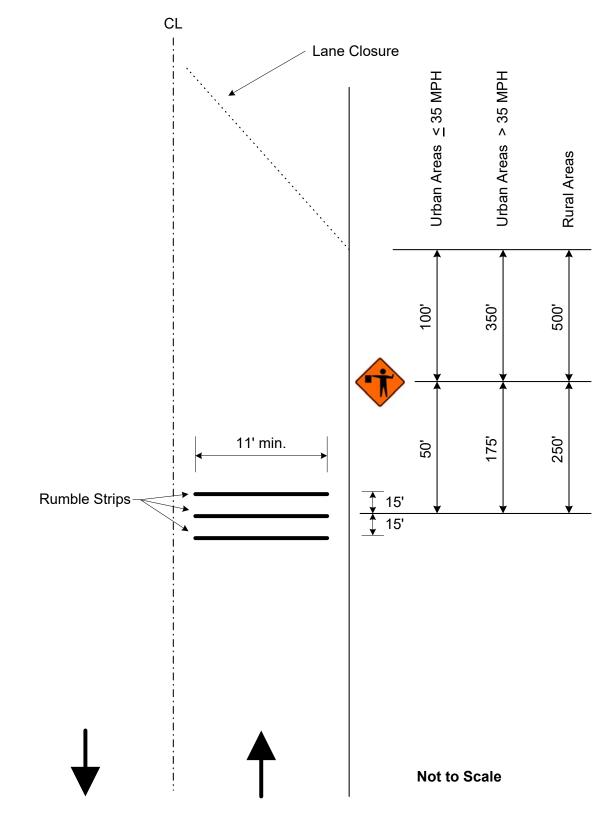
<u>907-619.05--Basis of Payment.</u> After the fifth paragraph of Subsection 619.05 on page 478, add the following.

Temporary Portable Rumble Strips measured as prescribed above, will be paid for at the contract unit price per linear foot, which price shall be full compensation for cleaning the roadway surface, installing the rumble strips, maintenance and repair of the strips, cleaning and resetting of the strips, removal and replacement, and for all labor, equipment, tools, and incidentals necessary to complete the work.

After the last pay item listed on page 480, add the following.

907-619-B: Temporary Portable Rumble Strips

- per linear foot



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**Detail of Temporary Portable Rumble Strips** 

## **SPECIAL PROVISION NO. 907-701-2**

CODE: (IS)

DATE: 01/08/2020

#### SUBJECT: Hydraulic Cement

Section 701, Hydraulic Cement, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-701.01--General</u>. In the first sentence of the second paragraph of Subsection 701.01 on page 718, change "mills" to "plants."

In the second sentence of the sixth paragraph of Subsection 701.01 on pages 718 and 719, change "shall" to "will."

#### 907-701.02--Portland Cement.

#### 907-701.02.1-General.

<u>907-701.02.1.2--Alkali Content</u>. Delete the sentence in Subsection 701.02.1.2 on page 719, and substitute the following.

The Equivalent alkali content for all cement types in this Subsection shall not exceed 0.60%.

<u>907-701.02.2--Replacement by Other Cementitious Materials</u>. Delete the paragraph in Subsection 701.02.2 on page 719, and substitute the following.

The maximum replacement of cement by weight is 25% for fly ash or 50% for ground granulated blast furnace slag (GGBFS). Replacement contents below 20% for fly ash or 45% for GGBFS may be used, but will not be given any special considerations, such as the maximum acceptance temperature for portland cement concrete containing pozzolans in Subsection 804.02.13.1.5. Special considerations shall only apply for replacement of cement by fly ash or GGBFS.

Delete Subsection 701.02.2.1 on pages 719 and 720, and substitute the following.

# <u>907-701.02.2.1--Portland Cement Concrete Exposed to Soluble Sulfate Conditions or Seawater</u>.

When portland cement concrete is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall be as follows in Table 1. Class C fly ash shall not be used as a replacement for cement in any of the sulfate exposure conditions listed in Table 1.

Sulfate Exposure	Water-soluble sulfate (SO <sub>4</sub> ) in soil, % by mass	Sulfate (SO <sub>4</sub> ) in water, ppm	Cementitious material required
Moderate and Seawater	0.10 - 0.20	150 - 1,500	Type I cement with one of the following replacements of cement by weight: 24.5 - 25.0% Class F fly ash, or 49.5 - 50.0% GGBFS or Type II <sup>*,**</sup> cement
Severe	0.20 - 2.00	1,500 - 10,000	Type I cement with a replacement by weight of 49.5 - 50.0% GGBFS, or Type II <sup>*</sup> cement with one of the following replacements of cement by weight: 24.5 - 25.0% Class F fly ash, or

Table 1- Cementitious Materials for Soluble Sulfate Conditions or Seawater

- 2 -

\* Type III cement conforming to AASHTO M85 with a maximum 8% tricalcium aluminate (C<sub>3</sub>A) may be used in lieu of Type II cement as allowed in Subsection 701.02.1; this cement is given the designation "Type III(MS)."

49.5 - 50.0% GGBFS

\*\* Class F fly ash or GGBFS may be added as a replacement for cement as allowed in Subsection 907-701.02.2.

Delete Subsection 701.02.2.2 on page 720, and substitute the following.

<u>907-701.02.2.2--Portland</u> Cement for Soil Stabilization Exposed to Soluble Sulfate Conditions or Seawater. When portland cement for use in soil stabilization is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall meet the requirements of Subsection 701.02.2.1.

## 907-701.04--Blended Hydraulic Cement.

907-701.04.1--General. Delete Subsection 701.04.1.1 on page 720, and substitute the following.

<u>**907-701.04.1.1--Types of Blended Hydraulic Cement.</u> Blended hydraulic cements (blended cements) shall be of the following types and conform to AASHTO M 240:</u>** 

- Type IL Portland-limestone cement
- Type IP Portland-pozzolan cement
- Type IS Portland blast-furnace slag cement

Blended cement Types IL, IP, and IS meeting the "MS" sulfate resistance requirement listed in AASHTO M 240, Table 3 shall have the "(MS)" suffix added to the type designation.

<u>907-701.04.1.2--Alkali Content</u>. Delete the sentence in Subsection 701.04.1.2 on page 720, and substitute the following.

All blended cement types shall be made with clinker that would result in cement meeting the requirements of Subsection 701.02.1.2 when used in the production of AASHTO M 85, Type I or Type II cement.

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<u>907-701.04.2--Replacement by Other Cementitious Materials</u>. Delete the paragraph in Subsection 701.04.2 on page 720, and substitute the following.

The maximum replacement of blended cement Type IL by weight is 35% for fly ash or 50% for GGBFS. Replacement contents below 20% for fly ash or 45% for GGBFS may be used, but will not be given any special considerations, such as the maximum acceptance temperature for blended cement concrete containing pozzolans in Subsection 804.02.13.1.5. Special considerations shall only apply for replacement of blended cement by fly ash or GGBFS.

No additional cementitious materials, such as portland cement, blended cement, fly ash, GGBFS, or others, shall be added to or as a replacement for blended cement Types IP and IS.

Delete Subsection 701.04.2.1 on pages 720 and 721, and substitute the following.

<u>907-701.04.2.1--Blended Cement Concrete Exposed to Soluble Sulfate Conditions or</u> <u>Seawater</u>. When blended cement concrete is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall be as follows in Table 2. Class C fly ash shall not be used as a replacement for cement in any of the sulfate exposure conditions listed in Table 2.

Sulfate	Water-soluble	Sulfate (SO <sub>4</sub> )	Cementitious material required
Exposure	sulfate (SO <sub>4</sub> ) in	in water, ppm	_
	soil, % by mass		
Moderate	0.10 - 0.20	150 - 1,500	Type IL $(MS)^*$ cement,
and			Type IL cement with one of the following
Seawater			replacements of cement by weight:
			24.5 - 35.0% Class F fly ash, or
			49.5 - 50.0% GGBFS,
			Type IP (MS) cement,
			or
			Type IS (MS) cement
Severe	0.20 - 2.00	1,500 - 10,000	Type IL cement with a replacement of
			cement by weight of 49.5 - 50.0% GGBFS,
			or
			Type IL (MS) cement with one of following
			replacements of cement by weight:
			24.5 - 35.0% Class F fly ash, or
			49.5 - 50.0% GGBFS

 Table 2- Cementitious Materials for Soluble Sulfate Conditions or Seawater

\* Class F fly ash or GGBFS may be added as a replacement for cement as allowed in Subsection 907-701.04.2.

Delete Subsection 701.04.2.2 on page 721, and substitute the following.

#### 907-701.04.2.2--Blended Cement for Soil Stabilization Exposed to Soluble Sulfate Conditions

**or Seawater.** When blended cement for use in soil stabilization is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall meet the requirements of Subsection 701.04.2.1.

Delete Subsection 701.04.3 on page 721.

#### **SPECIAL PROVISION NO. 907-702-4**

CODE: (IS)

#### DATE: 09/11/2018

#### **SUBJECT:** Bituminous Materials

Section 702, Bituminous Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-702.04--Sampling.</u> Delete the sentence in Subsection 702.04 on page 722, and substitute the following.

Sampling of bituminous materials shall be as set out in AASHTO R 66.

<u>907-702.07--Emulsified Asphalt.</u> Delete the last sentence in Subsection 702.07 on page 724, and substitute the following.

Asphalt for fog seal shall conform to the requirements of Subsection 907-702.12, Table V.

<u>907-702.12--Tables.</u> Delete Table V in Subsection 702.12 on page 729, and substitute the following.

	LI	)-7	СН	PF-1	
Test Requirements	Min.	Max.	Min.	Max.	Test Method
Viscosity, Saybolt Furol, @ 25°C, Sec.	10	100	-	100	AASHTO T 72
Storage Stability Test, 24 hr, %	-	1	-	1	AASHTO T 59
Settlement, 5 day, %	-	5	-	-	AASHTO T 59
Oil Distillate, %	-	1	-	-	AASHTO T 59
Sieve Test, % *	-	0.3	-	0.1	AASHTO T 59
Residue by Distillation, %	40	-	40	-	AASHTO T 59
Test on Residue from Distillation					
Penetration @ 25°C, 100g, 5 sec	-	20	40	90	AASHTO T 49
Softening Point, °C	65	-	-	-	ASTM D 36
Solubility in trichloroethylene, %	97.5	-	-	-	AASHTO T 44
Elastic Recovery @ 25°C, %	-	-	40	-	AASHTO T 301
Original DSR @ 82° (G*/Sinδ, 10 rad/sec)	1	-	-	-	AASHTO T 111

# TABLE VSPECIFICATION FOR FOG SEAL

\* The Sieve Test result is tested for reporting purposes only and may be waived if no application problems are present in the field.

#### **SPECIAL PROVISION NO. 907-703-1**

CODE: (IS)

DATE: 06/13/2018

#### **SUBJECT:** Gradation

Section 703, Aggregates, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

## 907-703.03--Course Aggregates for Hydraulic Cement Concrete.

## 907-703.03.2--Detail Requirements.

<u>907-703.03.2.4--Gradation</u>. In the table in Subsection 703.03.2.4 on page 734, add 100 for the percent passing by weight on the  $1\frac{1}{2}$ -inch sieve for Size No. 67 aggregates.

#### **SPECIAL PROVISION NO. 907-705-1**

CODE: (IS)

DATE: 06/13/2018

#### **SUBJECT:** Stone Riprap

Section 705, Stone Blanket Protection and Filter Blanket Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-705.04--Stone Riprap</u>. Delete the last sentence of the first paragraph of Subsection 705.04 on page 750, and substitute the following.

Quality requirements for rock to be furnished under these specifications will come from a preapproved source and be visually approved prior to use.

#### **SPECIAL PROVISION NO. 907-707-2**

CODE: (IS)

DATE: 06/05/2019

#### **SUBJECT: Joint Materials**

Section 707, Joint Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>**907-707.02.3--Wood</u>**. Delete paragraph (b) of Subsection 707.02.3 on page 755, and substitute the following:</u>

(b) Dimensions shall be as shown on the plans Dimensions shown on the plans are "dressed" sizes in accordance with Table 3 of the American Softwood Lumber Standard, SP-20. At the discretion of the Engineer, a 3/4-inch dressed board may be used in lieu of a 1-inch dressed board. A tolerance of plus or minus 1/16 inch thickness and plus or minus 1/8 inch width will be permitted. For slip-form paving a tolerance of minus 1/4 inch on each end in length will be permitted.

<u>907-707.06--Flexible Plastic Gasket for Joining Conduit</u>. Delete the third paragraph of Subsection 707.06 on page 756, and substitute the following.

The Department may require the performance test described in ASTM C 990.

#### **SPECIAL PROVISION NO. 907-711-2**

CODE: (IS)

#### DATE: 09/11/2018

#### SUBJECT: Plain Steel Wire

Section 711, Reinforcement and Wire Rope, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

#### 907-711.02--Deformed and Plain Carbon-Steel Bars for Concrete Reinforcing.

## <u>907-711.02.3--Steel Welded and Non-Welded Wire Reinforcement, Plain and Deformed, for</u> <u>Concrete</u>.

<u>907-711.02.3.1--Plain Steel Wire.</u> Delete the sentence in Subsection 711.02.3.1 on pages 780 and 781, and substitute the following.

Plain steel wire and plain steel welded wire shall conform to the requirements of AASHTO M 336.

#### **SPECIAL PROVISION NO. 907-720-2**

CODE: (IS)

#### DATE: 09/11/2018

#### SUBJECT: Acceptance Procedure for Glass Beads

Section 720, Pavement Marking Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

#### 907-720.01--Glass Beads.

<u>907-720.01.4--Acceptance Procedures.</u> Delete the last sentence of the paragraph in Subsection 720.01.4 on page 841, and substitute the following.

Acceptance sampling and testing of glass beads will be in accordance with the Department's Materials Division Inspection, Testing, and Certification Manual, Section 2.9.2 -- Glass Beads.

#### **SPECIAL PROVISION NO. 907-721-2**

CODE: (IS)

#### DATE: 01/08/2020

#### **SUBJECT:** Materials for Signing

Section 721, Materials for Signing, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

#### 907-721.06--Reflective Sheeting.

<u>907-721.06.2--Performance Requirements.</u> Delete Table 4 and Table 5 in Subsection 721.06.2 on pages 860 & 861, and substitute the following.

#### MINIMUM COEFFICIENTS OF RETROREFLECTION Candela per foot candle per square foot (cd/fc/ft<sup>2</sup>) Per ASTM Designation D4956

#### TABLE 4 Type IX Sheeting

Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Fluorescent Yellow/Green	Fluorescent Yellow	Fluorescent Orange
0.2°	-4.0°	380	285	38	76	17	300	230	115
0.2°	+30.0°	215	162	22	43	10	170	130	65
0.5°	-4.0°	240	180	24	48	11	190	145	72
0.5°	+30.0°	135	100	14	27	6.0	110	81	41
1.0°	-4.0°	80	60	8.0	16	3.6	64	48	24
1.0°	+30.0°	45	34	4.5	9.0	2.0	36	27	14

#### TABLE 5 Type XI Sheeting

Observation Angle	Entrance Angle	White	Yellow	Green	Red	Blue	Brown	Fluorescent Yellow/Green	Fluorescent Yellow	Fluorescent Orange
0.2°	-4.0°	580	435	58	87	26	17	460	350	175
0.2°	+30.0°	220	165	22	33	10	7.0	180	130	66
0.5°	-4.0°	420	315	42	63	19	13	340	250	125
0.5°	+30.0°	150	110	15	23	7.0	5.0	120	90	45
1.0°	-4.0°	120	90	12	18	5.0	4.0	96	72	36
1.0°	+30.0°	45	34	5.0	7.0	2.0	1.0	36	27	14

#### **SPECIAL PROVISION NO. 907-808-1**

CODE: (IS)

DATE: 11/01/2018

#### **SUBJECT:** Joint Repair

Section 808, Joint Repair, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-808.04--Method of Measurement</u>. Delete the paragraph in Subsection 808.04 on page 1009, and substitute the following.

When a pay item is included in the plans, joint repair will be measured by the linear foot and mortar mix will be measured by the gallon. The volume of measurement for the epoxy/sand mortar mix will be determined from the summation of the volumes of the epoxy components and the volume of sand will not be measured for payment.

<u>907-808.05--Basis of Payment</u>. Delete the paragraph in Subsection 808.05 on page 1009, and substitute the following.

When a pay item is included in the plans, joint repair, measured as prescribed above, will be paid for at the contract unit price per linear foot, which price shall be full compensation for furnishing and placing all materials, labor, tools, equipment, and all incidentals necessary to complete the work.

When a pay item is included in the plans, mortar mix, measured as prescribed above, will be paid for at the contract unit price per gallon, which price shall be full compensation for furnishing all materials including sand and forming materials, and all incidentals necessary to complete the work. No payment will be made for the sand used in the epoxy mortar mix.

The price bid for each item of work shall include the cost of continuous maintenance of traffic and protective services as required by the Department's Traffic Control Plan. This shall include all required individual traffic control devices.

Payment will be made under:

907-808-A: Joint Repair

907-808-B: Mortar Mix

- per linear foot

- per gallon

#### SPECIAL PROVISIONS NO. 907-823-6

CODE: (SP)

**DATE:** 07/18/2019

#### SUBJECT: Preformed Joint Seal

Section 907-823, Preformed Joint Seal, is hereby added to and becomes a part of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

#### SECTION 907-823--PREFORMED JOINT SEAL

<u>907-823.01--Description</u>. This work consists of furnishing and installing preformed joint seals in accordance with these specifications and the details shown in the Plans or drawings provided.

<u>907-823.02--Materials</u>. The Contractor shall furnish a manufacturer's certification stating that the material used meets the requirements of this specification.

The preformed joint seal shall be one of the following, or an approved equal. The size of the seal, Type I or Type II, shall be determined based on the size of the joint opening, as detailed in the Plans or drawings provided. It is the Contractor's responsibility to ensure that the size selected is appropriate for the width of the joint. Type I shall be used for joint openings less than two inches (2"). Type II shall be used for joint openings greater than two inches (2"), with the maximum joint opening being two and one-half inches  $(2\frac{1}{2}")$ . In cases where the joint opening is greater than two and one-half inches  $(2\frac{1}{2}")$ , another type of expansion material shall be required as directed by the Director of Structures, State Bridge Engineer.

- Silicoflex Joint Sealing System Manufactured by R.J. Watson, Inc. in Alden, NY www.rjwatson.com
- Wabo®SPS Joint System Manufactured by Watson Bowman Acme Corporation in Amherst, NY www.wbacorp.com
- Silspec SSS Silicone Strip Seal Manufactured by SSI Commercial & Highway Construction Materials in Tulsa, OK www.ssicm.com

<u>907-823.03--Construction Methods</u>. Preformed joint seals shall be installed in accordance with the manufacturer's recommendations. The material shall seal the deck surface, gutters, and curbs to prevent moisture or other contaminants from leaking through the joints. The joint seal shall be installed in such a manner that the top surface of the material is within the minimum and maximum depths below the roadway or bridge surface recommended by the manufacturer.

Saw cutting for the joint repair shall be accomplished by sawing at the locations and depth shown

on the joint repair detail sheets in the plans or in the contract documents. Saw cuts shall be as near vertical as possible at the saw line of the repair area. The saw cut depth shall be equivalent to the installation depth required by the manufacturer's specifications, and the type specified shall be the same as the type specified for preformed joint seal.

- 2 -

<u>907-823.04--Method of Measurement</u>. Preformed joint seal of the type specified will be measured in linear feet along the length of the centerline joint.

Saw cuts of the type specified will be measured by the linear foot along the length of the bridge deck on each side of the centerline joint.

<u>907-823.05--Basis of Payment</u>. Preformed joint seal, measured as prescribed above, will be paid for at the contract unit price per linear foot, which shall be full compensation for furnishing all labor, equipment, tools, materials, and incidentals necessary to complete the work.

Saw cuts, measured as prescribed above, will be paid for at the contract unit price per linear foot, which shall be full compensation for furnishing all labor, equipment, tools, materials, and incidentals necessary to complete the work.

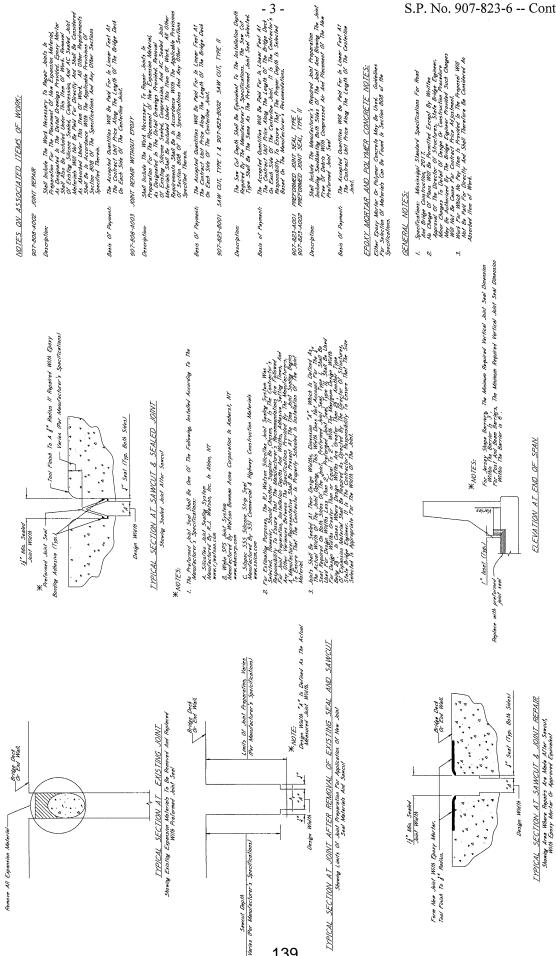
Payment will be made under:

907-823-A: Preformed Joint Seal, Type \_\_\_\_

- per linear foot

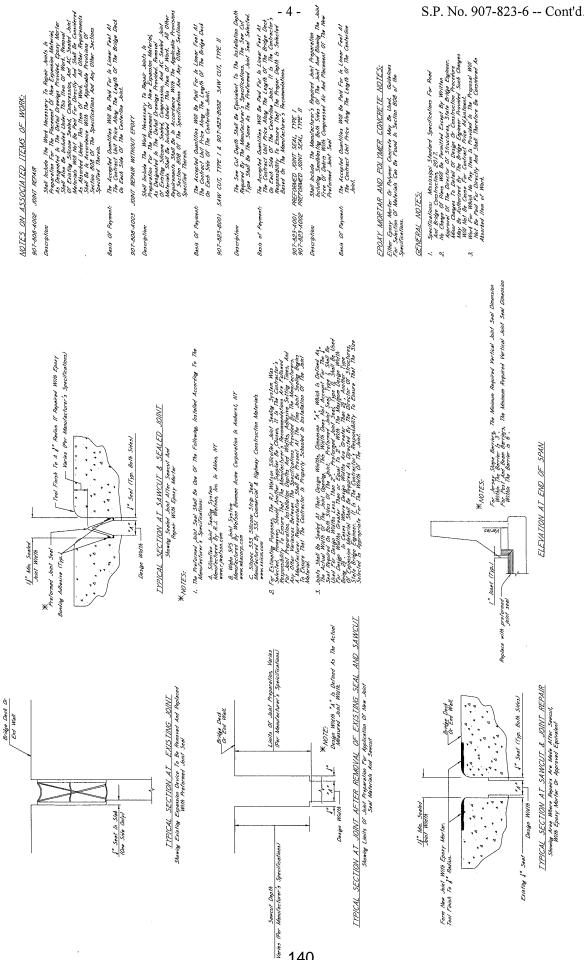
907-823-B: Saw Cut, Type \_\_\_\_\_

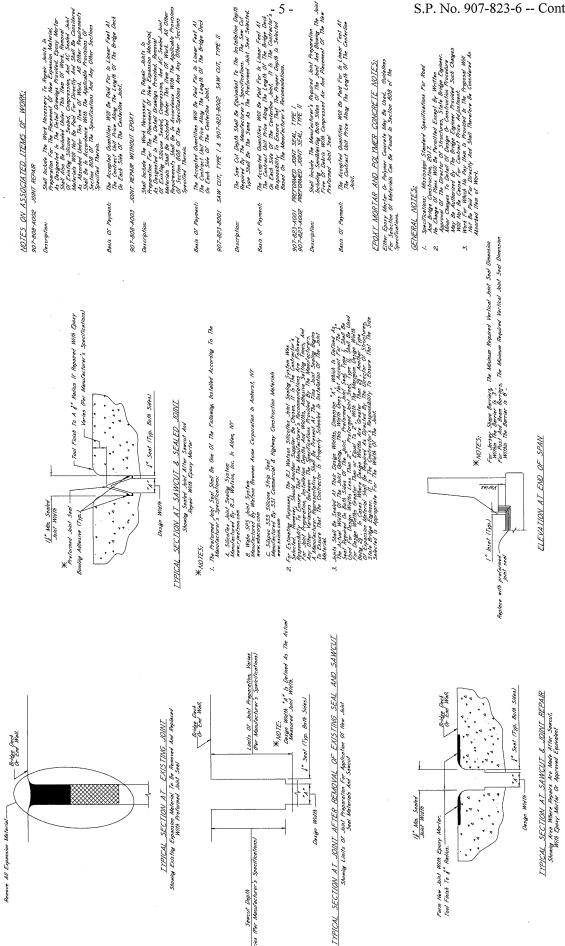
- per linear foot



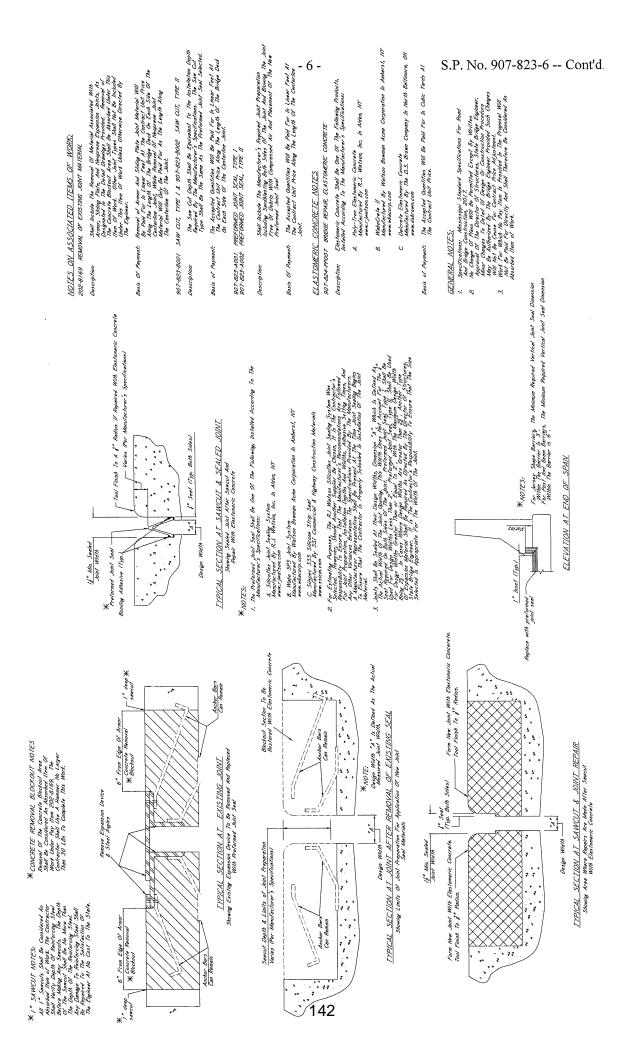
139

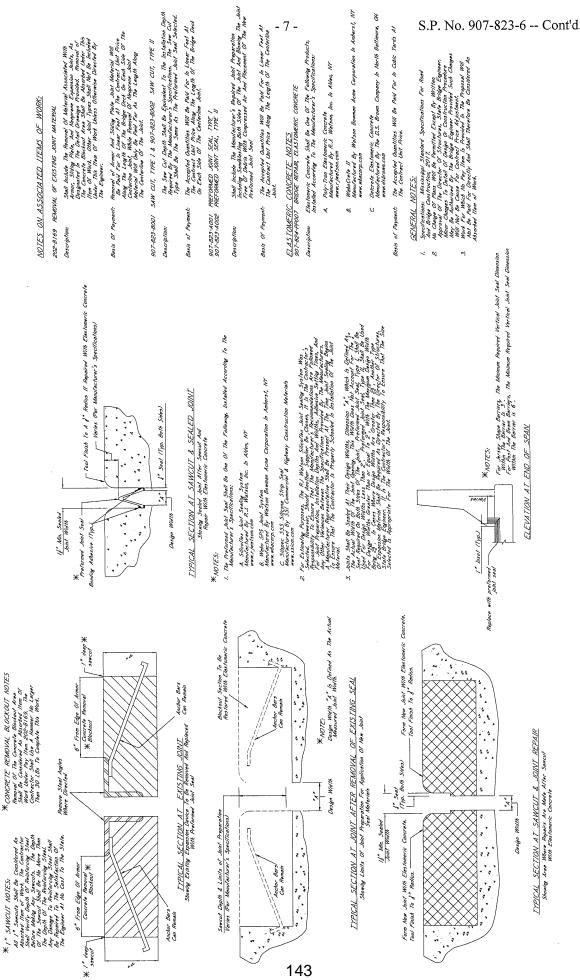
S.P. No. 907-823-6 -- Cont'd

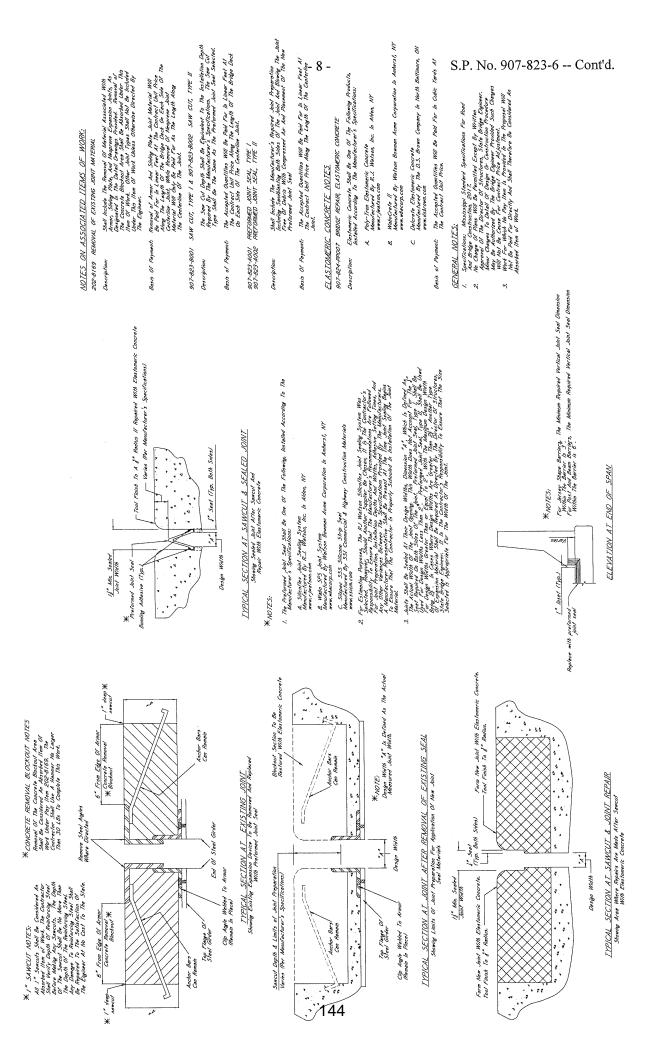


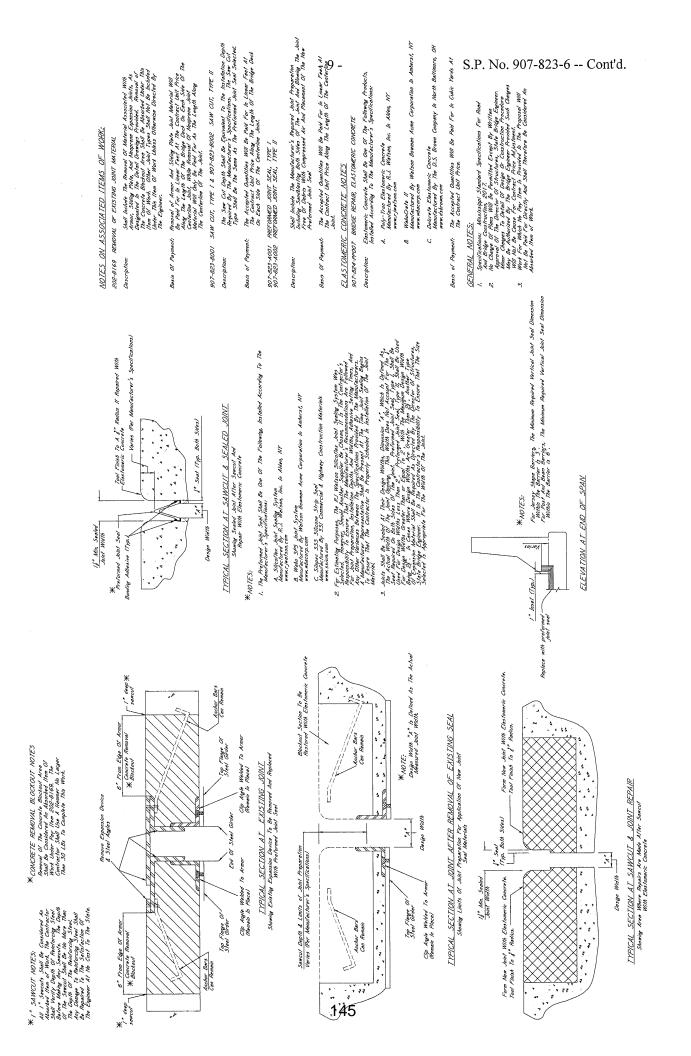


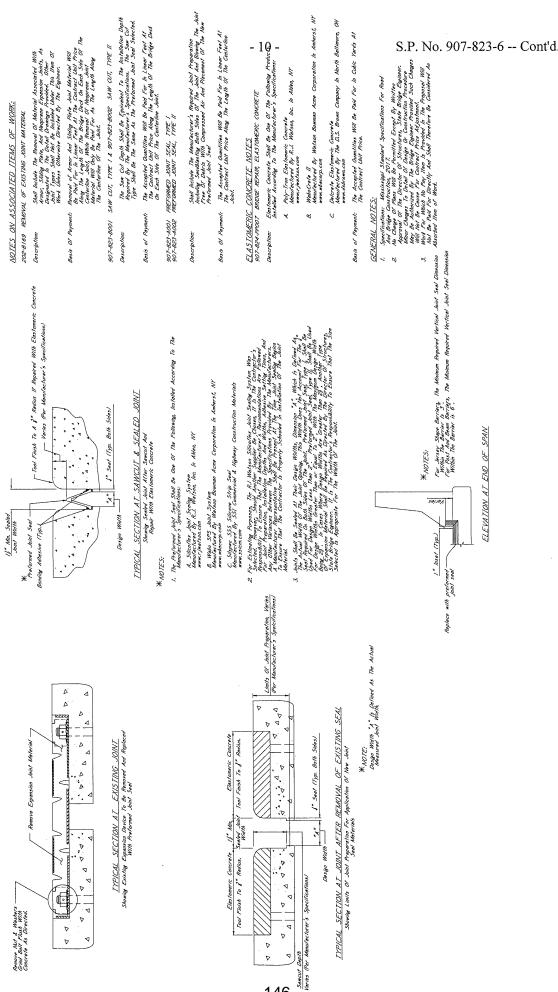
S.P. No. 907-823-6 -- Cont'd

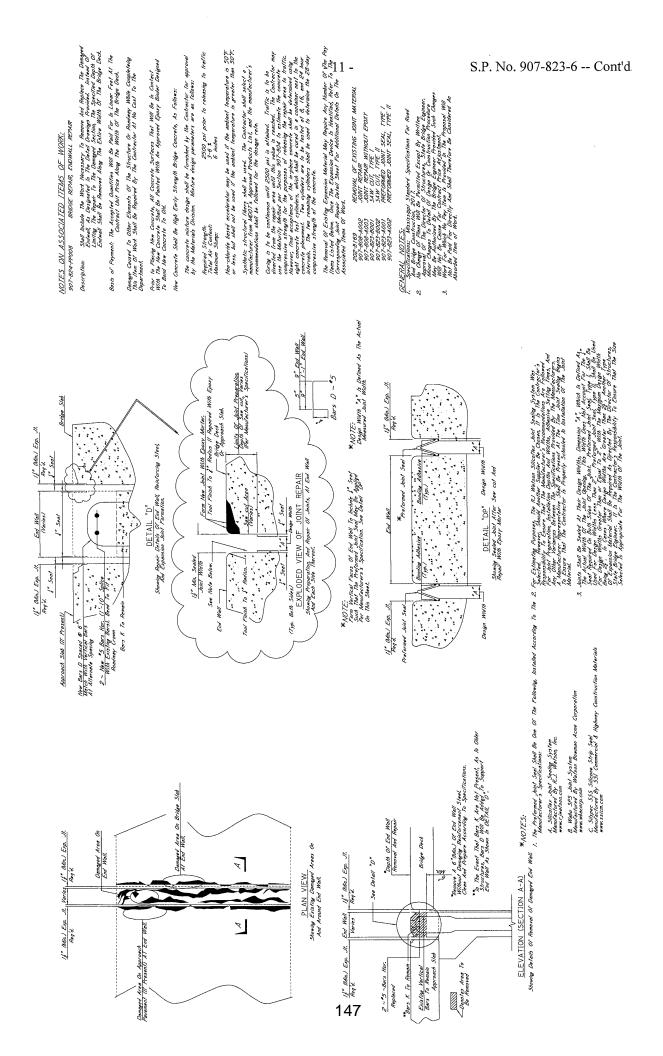












### SECTION 905 - PROPOSAL

	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 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.

Mill & Overlay approximately 11 miles of SR 21 from Dixon to SR 15, known as State Project No. SP-5021-50(020) / 108569301 in Neshoba County.

Line no.	Item Code	Adj Code	Quantity	Units Baadway It	Description[Fixed Unit Price]
0010	202-B007		483	Roadway Ite Square Yard	Removal of Asphalt Pavement, All Depths
0020	202-B009		1,383	Square Yard	Removal of Asphalt Pavement, Failed Areas
0030	202-B158		454	Linear Feet	Removal of Guard Rail, Including Rails, Posts and Terminal Ends
0040	202-B240		526	Linear Feet	Removal of Traffic Stripe
0050	203-G002	(E)	100	Cubic Yard	Excess Excavation, LVM, AH
0060	304-E003	(GY)	4,000	Cubic Yard	Granular Material, LVM, Crushed Stone
0070	403-A002	(BA1)	20,050	Ton	12.5-mm, MT, Asphalt Pavement
0080	403-B002	(BA1)	700	Ton	12.5-mm, MT, Asphalt Pavement, Leveling
0090	406-D001		16,718	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0100	407-A001	(A2)	16,000	Gallon	Asphalt for Tack Coat
0110	503-C010		2,083	Linear Feet	Saw Cut, Full Depth
0120	606-B003		229	Linear Feet	Guard Rail, Class A, Type 1, 'W' Beam, Metal Post
0130	606-D019		4	Each	Guard Rail, Bridge End Section, Type H
0140	606-E005		4	Each	Guard Rail, Terminal End Section, Flared
0150	618-A001		1	Lump Sum	Maintenance of Traffic
0160	619-A1001		42	Mile	Temporary Traffic Stripe, Continuous White
0170	619-A2001		84	Mile	Temporary Traffic Stripe, Continuous Yellow
0180	619-A4002		5	Mile	Temporary Traffic Stripe, Skip Yellow
0190	619-A5001		13,912	Linear Feet	Temporary Traffic Stripe, Detail
0200	619-A6001		2,480	Square Feet	Temporary Traffic Stripe, Legend
0210	619-D1001		801	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0220	619-D2001		404	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0230	619-G4001		24	Linear Feet	Barricades, Type III, Double Faced
0240	620-A001		1	Lump Sum	Mobilization
0250	626-B002		21	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous White
0260	626-D001		2	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0270	626-E001		21	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0280	626-G004		4,546	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0290	626-G005		2,410	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
0300	626-H001		1,240	Square Feet	Thermoplastic Double Drop Legend, White
0310	627-J001		695	Each	Two-Way Clear Reflective High Performance Raised Markers
0320	627-L001		1,534	Each	Two-Way Yellow Reflective High Performance Raised Markers
0330	630-F006		16	Each	Delineators, Guard Rail, White
0340	630-G003		2	Each	Type 3 Object Markers, OM-3L, Post Mounted
0350	630-G007		2	Each	Type 3 Object Markers, OM-3R, Post Mounted

(Date Printed 07/28/20)

	ŕ					
<b>Line no.</b> 0360	<b>Item Code</b> 907-414-A001	Adj Code	<b>Quantity</b> 145,000	Units Square Yard	Description[Fixed Unit Price] Scrub Seal	
0370	907-414-B001	(A2)	1,484	Gallon	Asphalt for Fog Seal	
0380	907-619-B001		66	Linear Feet	Temporary Portable Rumble Strips	
				Bridge It	ems	
0390	907-808-A002	(S)	296	Linear Feet	Joint Repair	
0400	907-823-A002		148	Linear Feet	Preformed Joint Seal, Type II	
0410	907-823-B002		296	Linear Feet	Saw Cut, Type II	
			(D	ate Printed 07/28/2	20)	

If a bidder elects to submit a combined bid for two or more of the contracts listed for this month's letting, the bidder must complete and execute these sheets of the proposal in each of the individual proposals to constitute a combination bid. In addition to this requirement, each individual contract shall be completed, executed and submitted in the usual specified manner.
Failure to execute this Combination Bid Proposal in each of the contracts combined will be just cause for each proposal to be received and evaluated as a separate bid.
It is understood that the Mississippi Transportation Commission not only reserves the right to reject any and all proposals, but also the right to award contracts upon the basis of lowest separate bids or combination bids most advantageous to the State.
It is further understood and agreed that the Combination Bid Proposal is for comparison of bids only and that each contract shall operate in every respect as a separate contract in accordance with its proposal and contract documents.
I (We) agree to complete each contract on or before its specified completion date.
***************************************
COMBINATION BID PROPOSAL
This proposal is tendered as one part of a Combination Bid Proposal utilizing option* of Subsection 102.11 on the following contracts:
* Option to be shown as either (a), (b), or (c).
Project No. County County County
16
27.
3.
49
5
<ul><li>(a) If Combination A has been selected, your Combination Bid is complete.</li><li>(b) If Combination B has been selected, then complete the following page.</li></ul>

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

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

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

10.       10.         10.       10.         10.       10.         10.       10.         11.       10.         10.       10.         10.       10.         10.       10.         10.       10.         10.       10.         10.       10.         10.       10.         10.       10.			9.	Project NumberPay ItemUnit PriceTotal ItemTotal ContractNumberNumberReductionReductionReduction	BID PROPOSAL (Continued)
		<ul> <li>(c) If Combination C has been selected, then initial and complete ONE of the following.</li> <li>I (We) desire to be awarded work not to exceed a total monetary value of \$</li></ul>	10.	9.         10.         10.         10.         10.         10.         10.         10.         11.         10.         11	al Item Iuction
		<ul><li>(c) If Combination C has been selected, then initial and complete ONE of the following.</li><li>I (We) desire to be awarded work not to exceed a total monetary value of \$</li></ul>	10.       10.         (c) If Combination C has been selected, then initial and complete ONE of the following.         1 (We) desire to be awarded work not to exceed a total monetary value of \$	9.          10.	al Item luction
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.	(c) If Combination C has been selected, then initial and complete ONE of the following.	10.	9.         10.         10.         10.         10.         11	al Item luction
(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 \$		10.	9.         10.         110.	Project Number     Pay Item     Unit     Unit Price     Total Item       Number     Number     Neduction     Reduction     Reduction
it Unit Price Total Item Reduction Reduction	It     Unit Price     Total Item       Image: Seduction     Reduction     Reduction       Image: Seduction     Image: Seduction     Image: Seduction       Image: Seduction     Image: Seduction     Image: Seduction	it Unit Price Total Item Reduction Reduction	it Unit Price Total Item Reduction	JN 905 - COMBINATION BID PROPOSAL (Continued)	

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 of
(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. SP-5021-50(020)/ 108569301000
in <u>Neshoba</u> 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)

### CONTRACT FOR SP-5021-50(020)/ 108569301000

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

### 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)	
Ву	MISSISSIPPI TRANSPORTATION COMMISSION
Title	By
Signed and sealed in the presence of: (names and addresses of witnesses)	Executive Director
	Secretary to the Commission
	ansportation Commission in session on the day of [0, Page No

### SECTION 903 PERFORMANCE AND PAYMENT BOND

### CONTRACT BOND FOR: SP-5021-50(020)/ 108569301000

### LOCATED IN THE COUNTY(IES) OF: Neshoba

### STATE OF MISSISSIPPI, COUNTY OF HINDS

Know all men by these presents:	that we,	(Contractor)
	Principal, a	(Contractor)
		State of
and		6
		(Surety) ate of,
authorized to do business in the S	tate of Mississippi, und	ler the laws thereof, as surety, effective as of the contract date
shown below, are held and firmly	bound unto the State o	of Mississippi in the sum of
(\$	) Dollars, lawful mone	ey of the United States of America, to be paid to it for which
payment well and truly to be mad	e, we bind ourselves, or	ur heirs, administrators, successors, or assigns jointly and
severally by these presents.		
	ich, that whereas the sa	id
		sissippi Transportation Commission, bearing the date of
day of	A.D	hereto annexed, for the construction of certain projects(s) in
		accordance with the Contract Documents therefor, on file in the
singular the terms, covenants, co observed, done, kept and perform material and equipment specific specifications and special provis contemplated until its final comp and save harmless said Mississip the negligence, wrongful or crim principal (s), his (their) agents, therewith, and shall be liable an	den	ide by and well and truly observe, do keep and perform all and ad agreements in said contract, contained on his (their) part to be at the time and in the manner and form and furnish all of the rict accordance with the terms of said contract which said plans, and form a part of said contract and shall maintain the said work as specified in Subsection 109.11 of the approved specifications, mission from any loss or damage arising out of or occasioned by raud, or any other loss or damage whatsoever, on the part of said s in the performance of said work or in any manner connected il action instituted by the State at the instance of the Mississippi
property, the State may lose or be the Contractor(s), his (their) agen	e overcharged or otherwards or employees, and s	e authorized in such cases, for double any amount in money or vise defrauded of, by reason of wrongful or criminal act, if any, of shall promptly pay the said agents, servants and employees and all plies 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,

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
-	_ By (Signature) Attorney in Fact
	Address
Title (Contractor's Seal)	
(Contractor's Seal)	(Printed) MS Agent
	(Signature) MS Agent
	Address
	(Surety Seal)
	Mississippi Insurance ID Number

Revised 9/02/2014



# **BID BOND**

KNOW ALL MEN BY THESE	PRESENTS, that we			
			Contractor	
			Address	
			City, State ZIP	
As principal, hereinafter called t	he Principal, and		Surety	
a corporation duly organized uno			-	
as Surety, hereinafter called the	Surety, are held and firmly be	ound unto <u>State</u>	of Mississippi, Jacks	on, Mississippi
As Obligee, hereinafter called O	bligee, in the sum of Five Po	er Cent (5%) of A	mount Bid	
		Dollars	(\$	)
for the payment of which sum executors, administrators, success				ourselves, our heirs,
SR 15, known as State Project NOW THEREFORE, the conditi- said Principal will, within the tim performance of the terms and co will pay unto the Obligee the diff which the Obligee legally contra but in no event shall liability here	on of this obligation is such the ne required, enter into a form nditions of the contract, then fference in money between the cts with another party to perf cunder exceed the penal sum h	hat if the aforesaid al contract and give this obligation to be amount of the bi- form the work if the hereof.	Principal shall be awar re a good and sufficien be void; otherwise the l id of the said Principal e latter amount be in e	t bond to secure the Principal and Surety and the amount for
Signed and sealed this	day of	,	20	
			(Principal)	(Seal)
		By:		
(Witness)			(Name)	(Title)
			(Surety)	(Seal)
		By:		
(Witness)			(Attorney-in-Fa	act)
			(MS Agent)	
			Mississippi Insurance	e ID Number

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# 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.