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SM No. CMP3051260081

# PROPOSAL AND CONTRACT DOCUMENTS

## FOR THE CONSTRUCTION OF

19

Overlay approximately 13 miles of US 51 South of MDOT Maintenance Lot to Holmes/Carroll County Line, & 2 miles of SR 12 from US 51 to Attala County Line, & 1 mile of SR 19 from US 51 to Attala County Line, known as State Project Nos. MP -3051-26(008) / 306702301, MP-3012-26(014) / 306702302, & MP-3019-26 (001) / 306702303 in Holmes County.

Project Completion: 78 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: MP-3051-26(008)/306702301 - Holmes MP-3012-26(014)/306702302 - Holmes MP-3019-26(001)/306702303 - Holmes

(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET OF SECTION 905 AS ADDENDA) 05/01/2019 10:55 AM

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

Electronic bids will be received by the Mississippi Transportation Commission at <u>10:00 o'clock</u> <u>A.M., Wednesday, May 29, 2019</u>, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Overlay approximately 13 miles of US 51 South of MDOT Maintenance Lot to Holmes/Carroll County Line, & 2 miles of SR 12 from US 51 to Attala County Line, & 1 mile of SR 19 from US 51 to Attala County Line, known as State Project Nos. MP -3051-26(008) / 306702301, MP-3012-26(014) / 306702302, & MP-3019-26(001) / 306702303 in Holmes 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

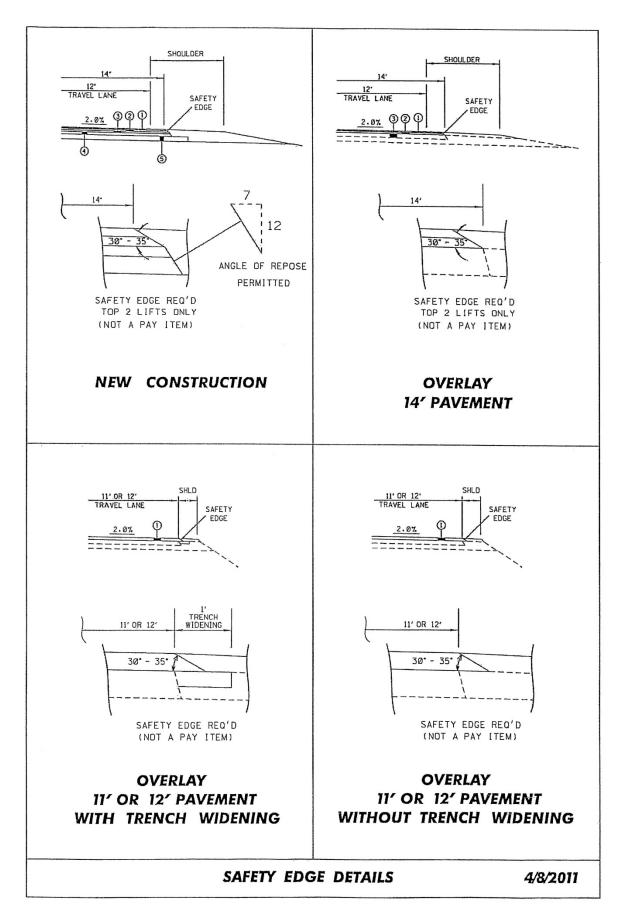
#### **SECTION 904 - NOTICE TO BIDDERS NO. 13**

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.

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

CODE: (SP)

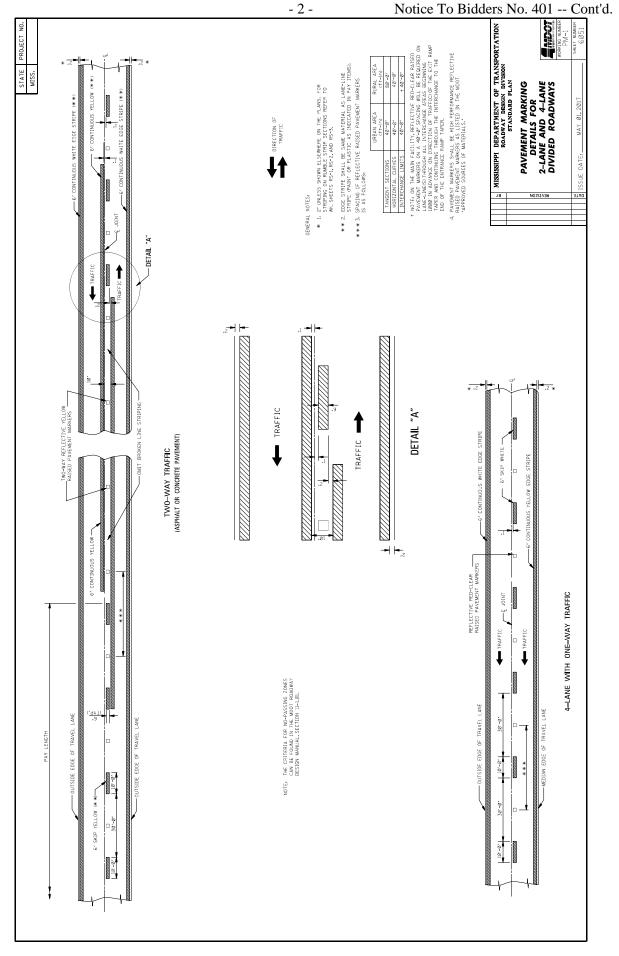
**DATE:** 09/12/2017

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

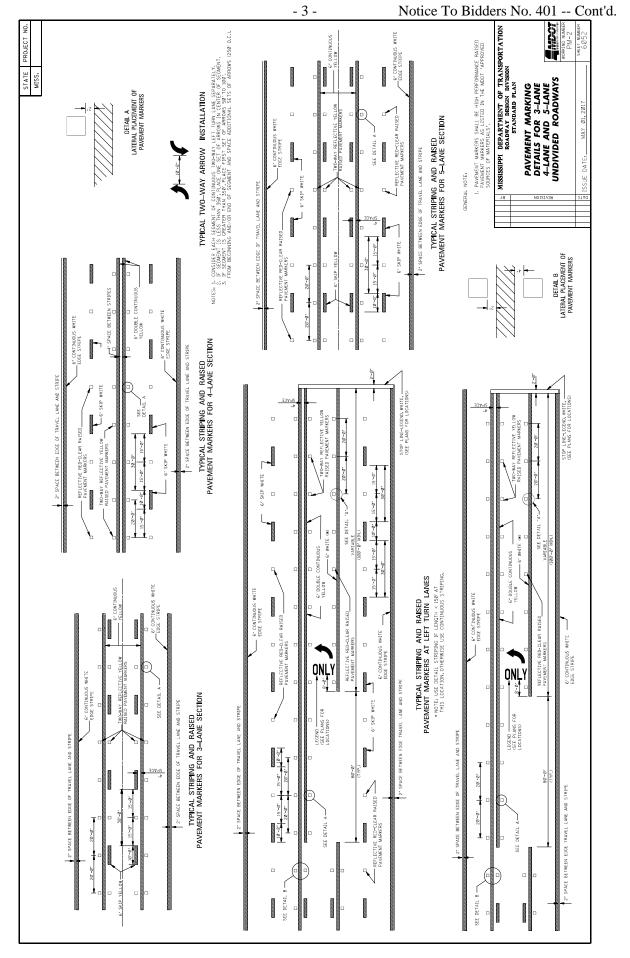
Standard Drawings attached hereto shall govern appropriate items of required work.

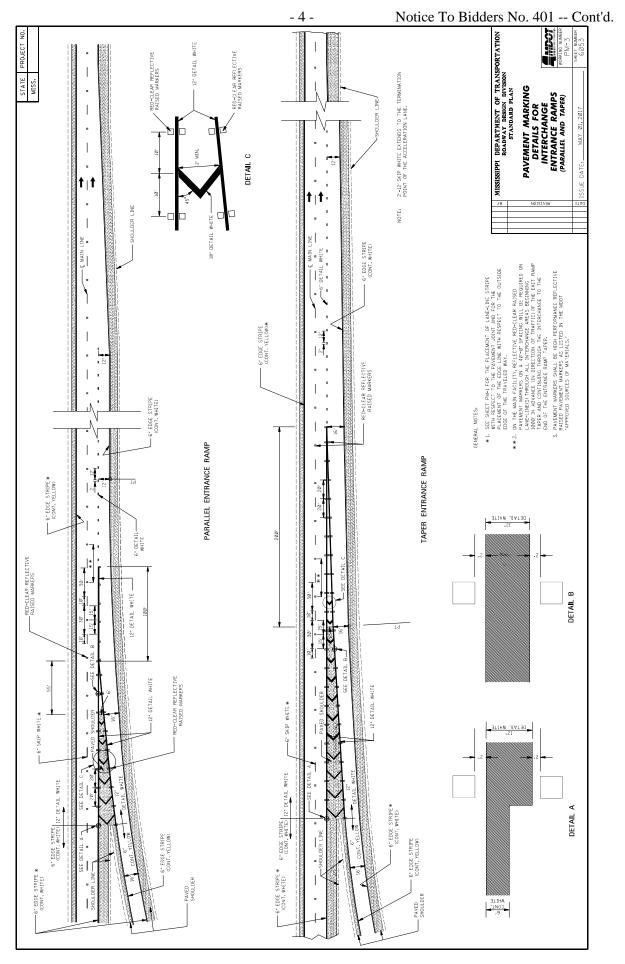
Larger copies of Standard Drawings may be purchased from:

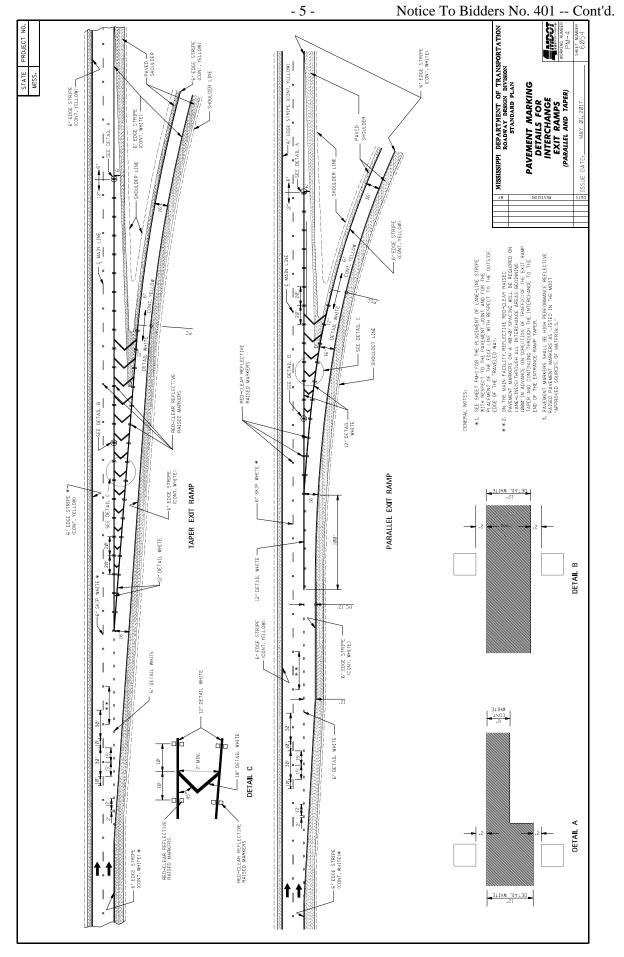
MDOT Plans Print Shop MDOT Shop Complex, Building C, Room 114 2567 North West Street P.O. Box 1850 Jackson, MS 39215-1850 Telephone: (601) 359-7460 or FAX: (601) 359-7461 or e-mail: <u>plans@mdot.state.ms.us</u>

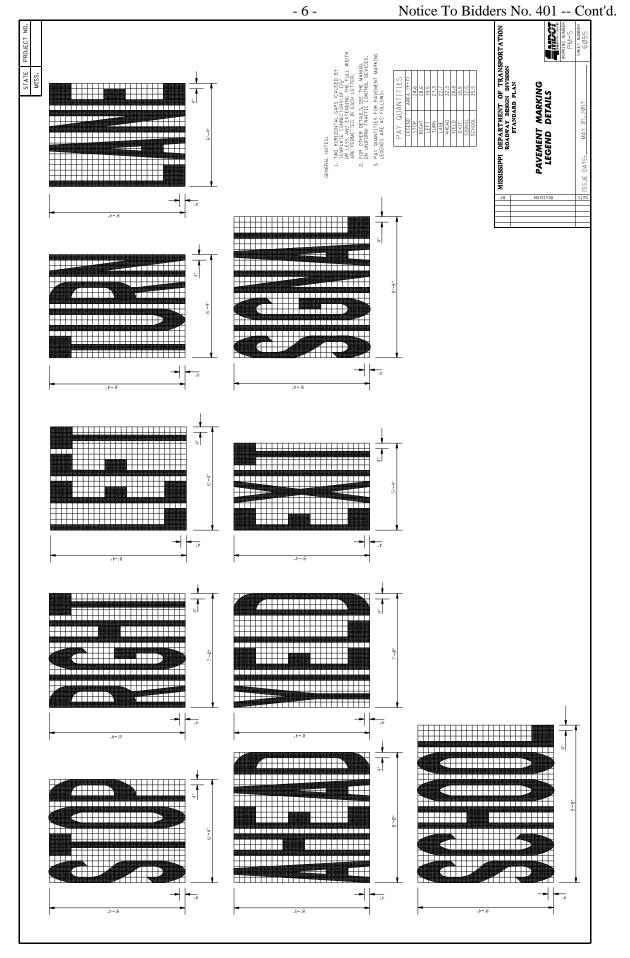


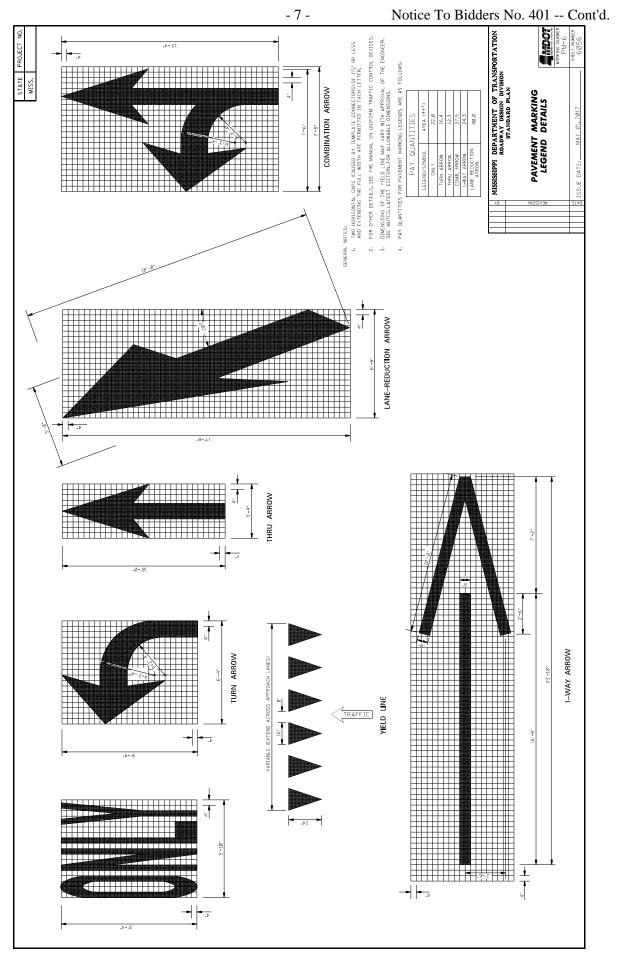
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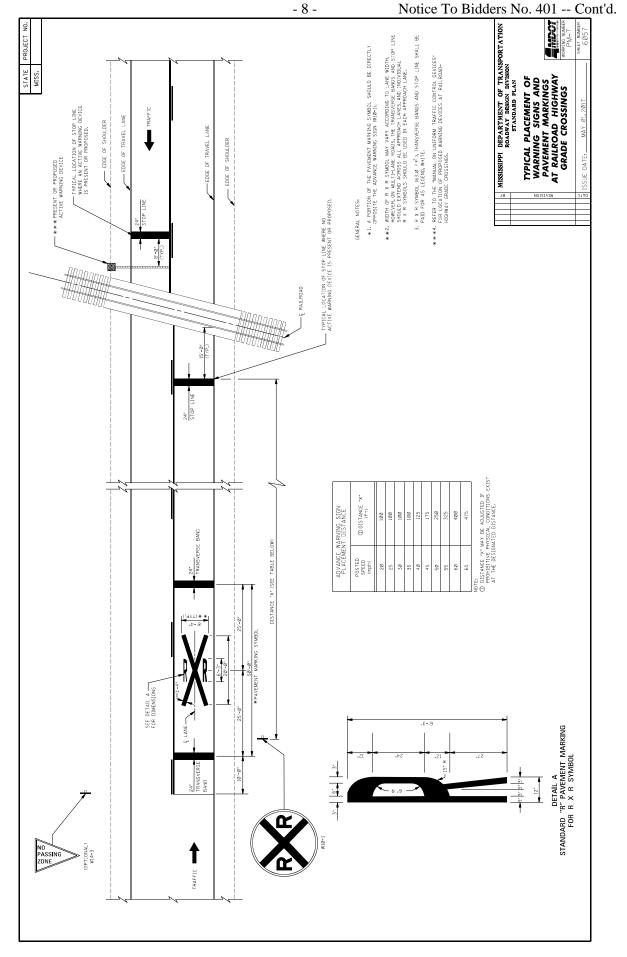


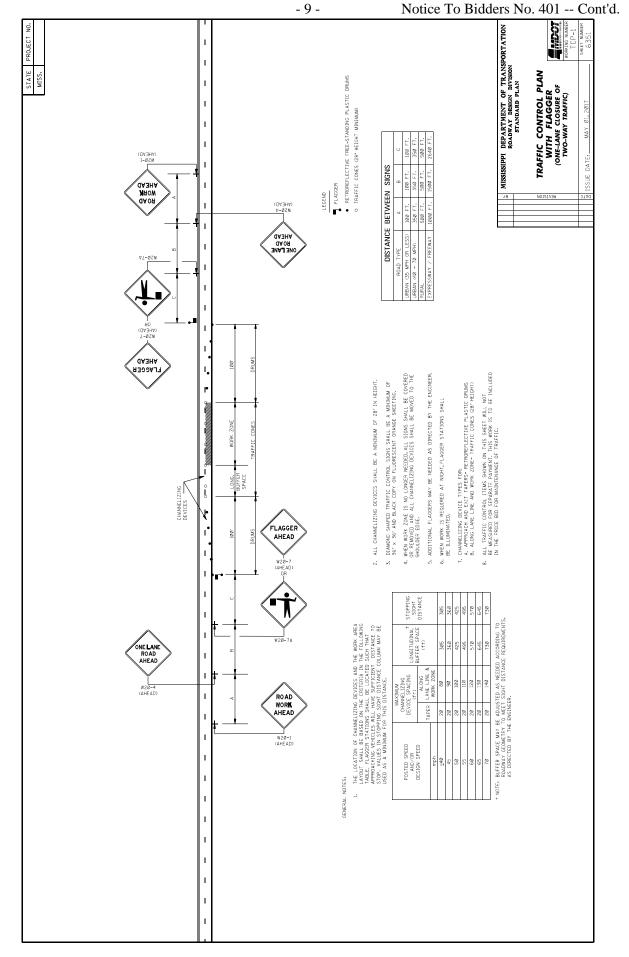


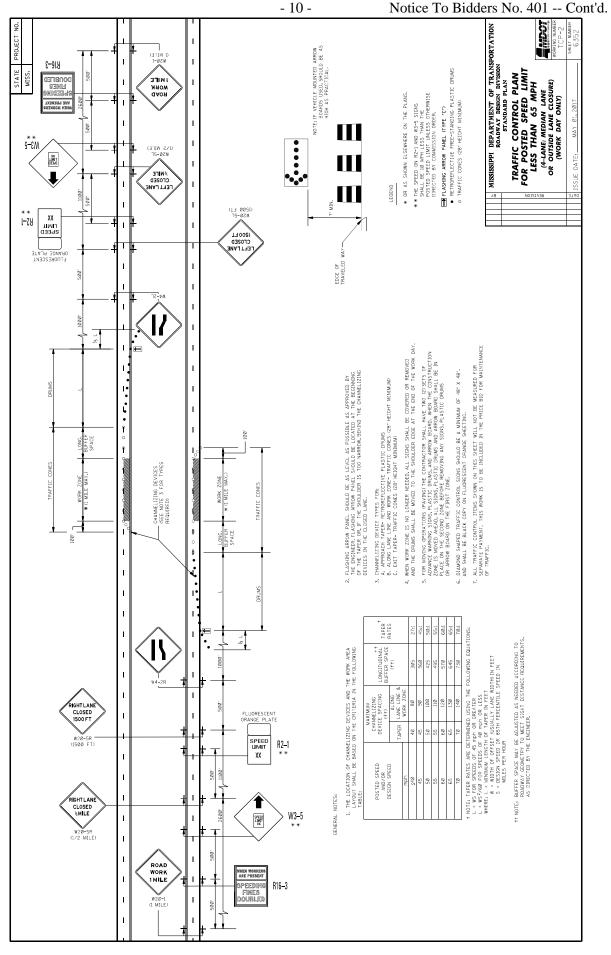


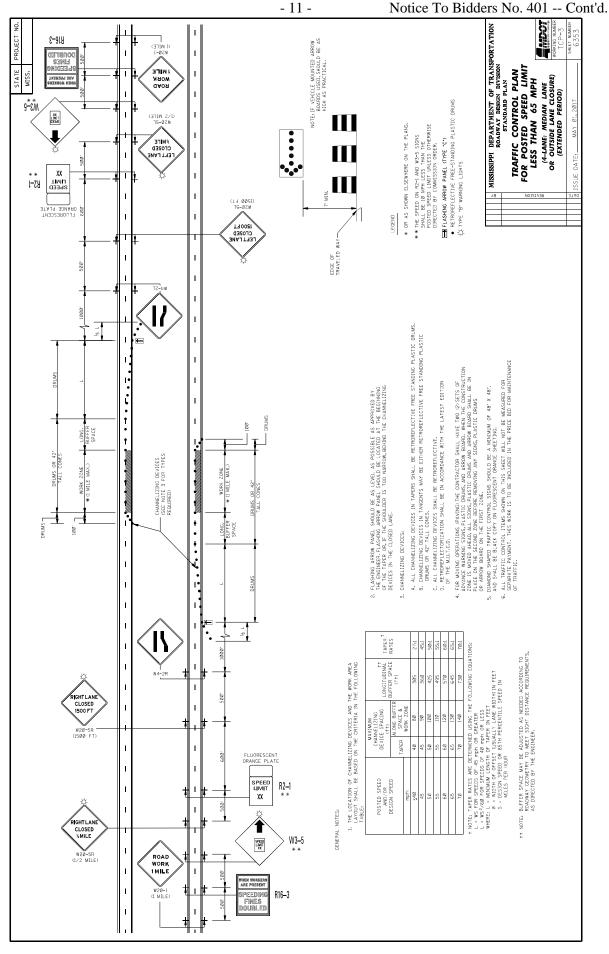


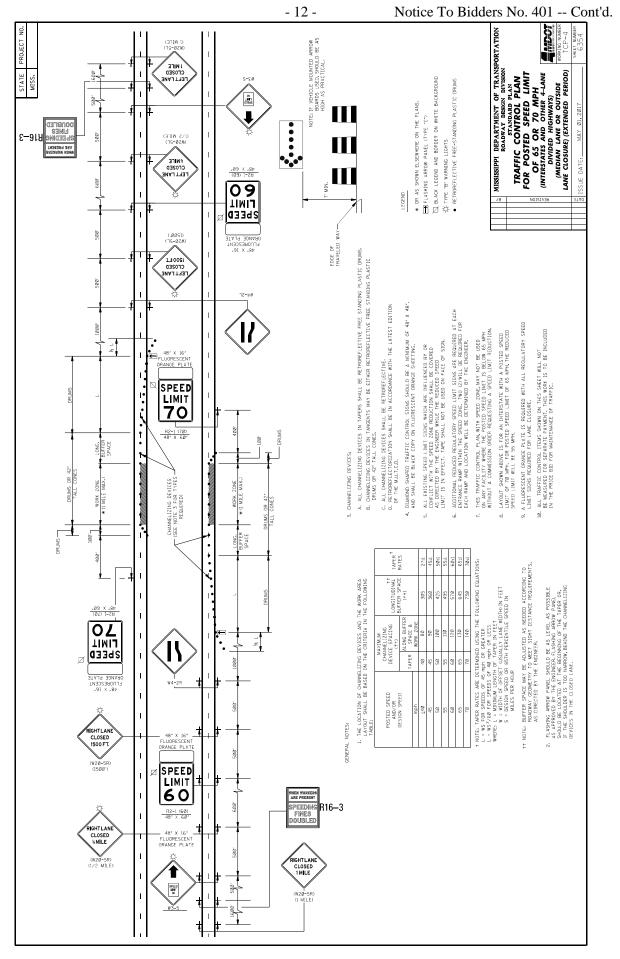


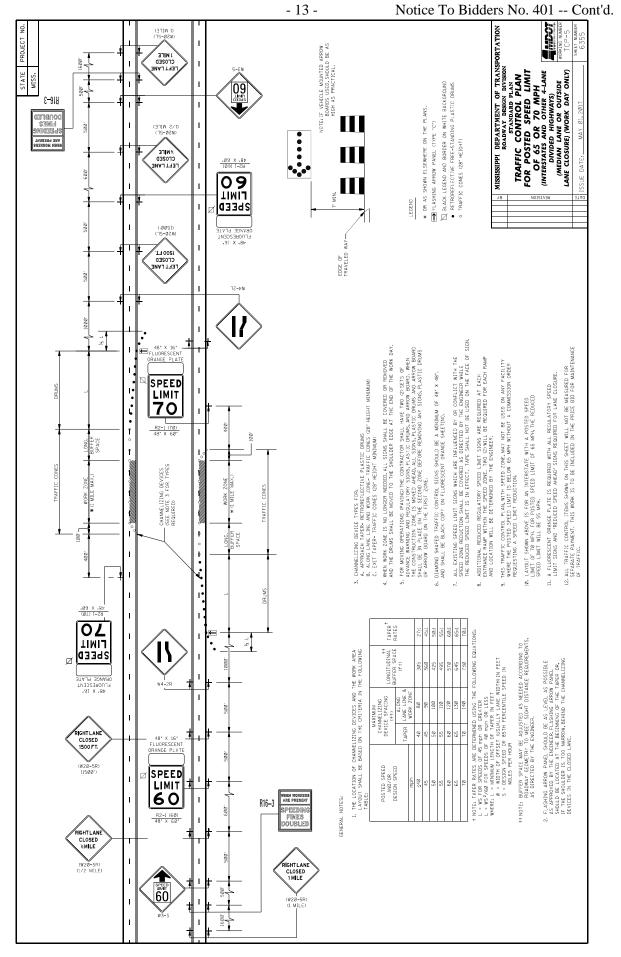


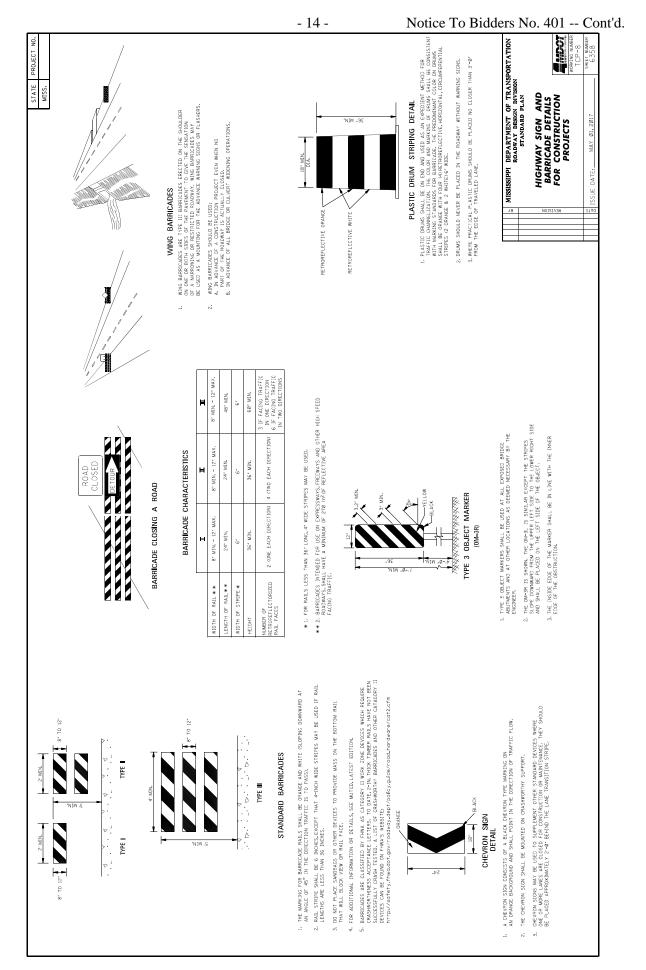


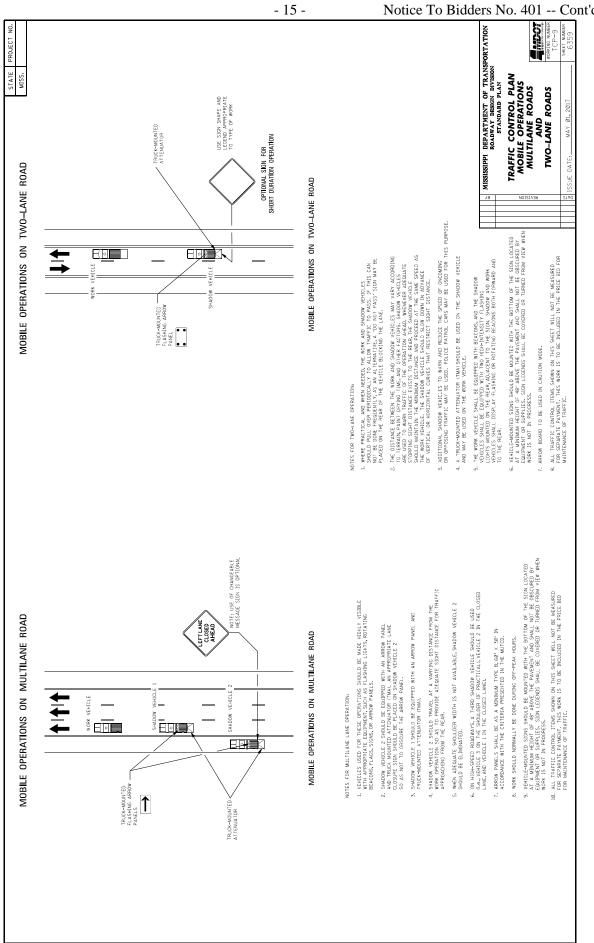


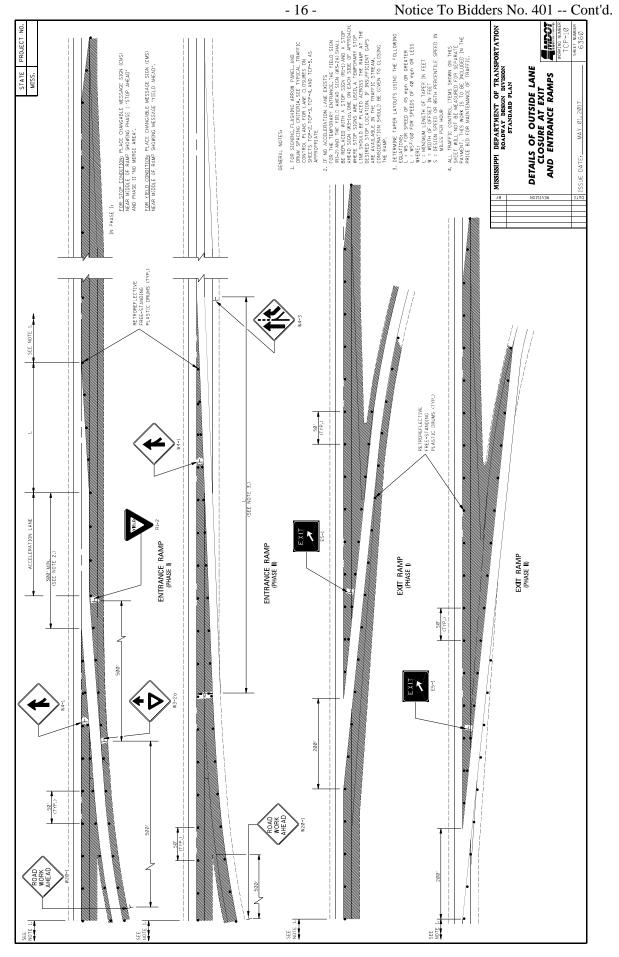


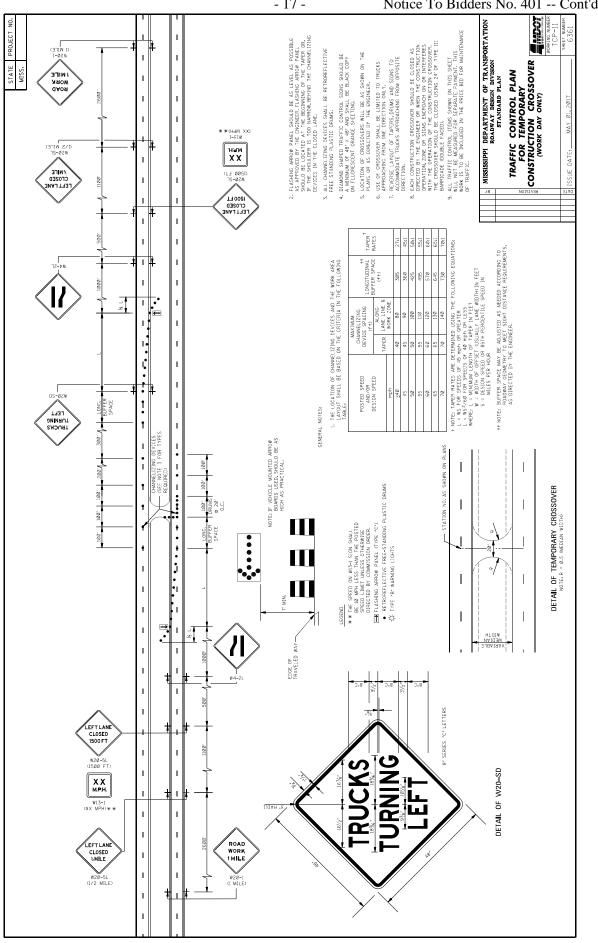




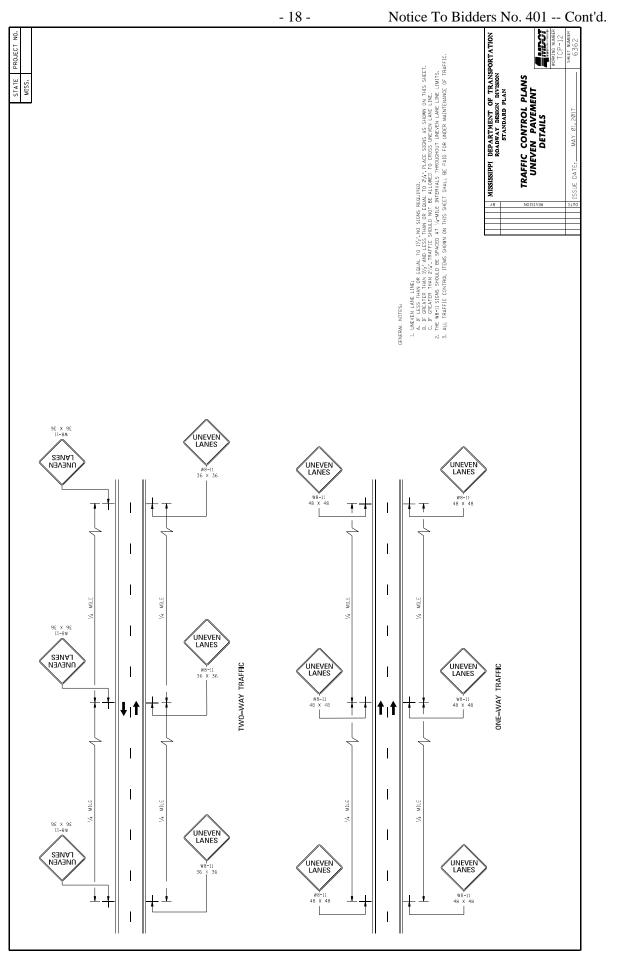


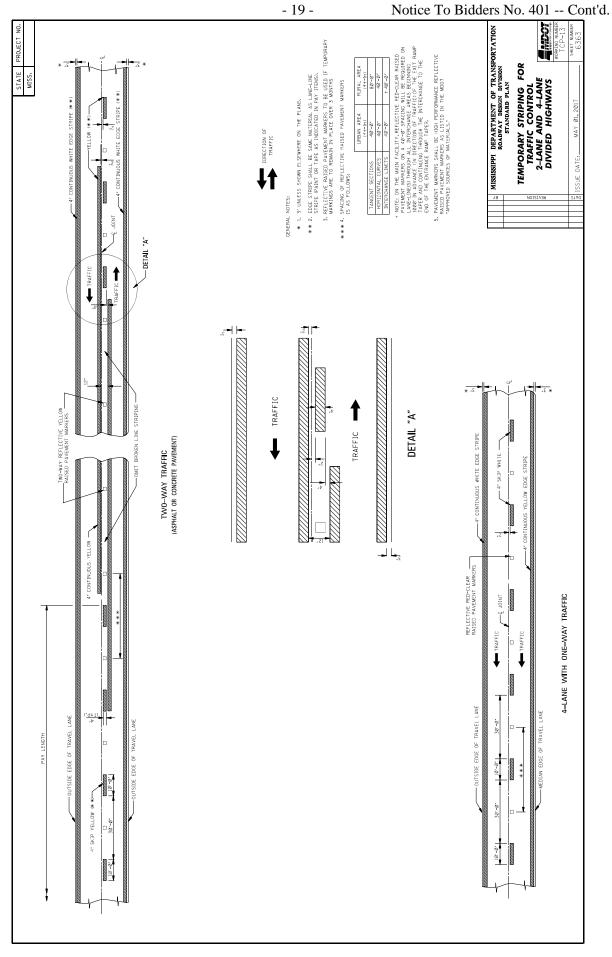


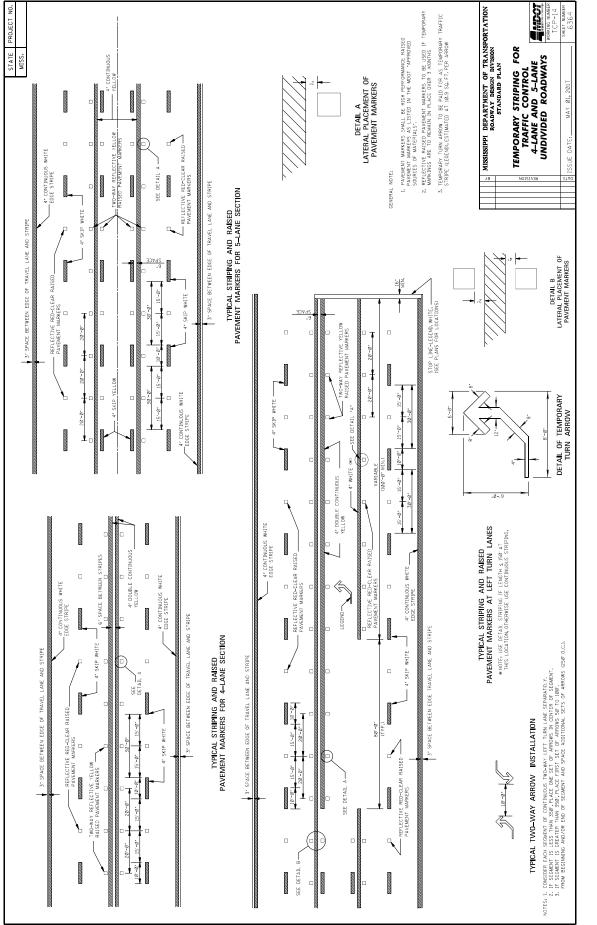




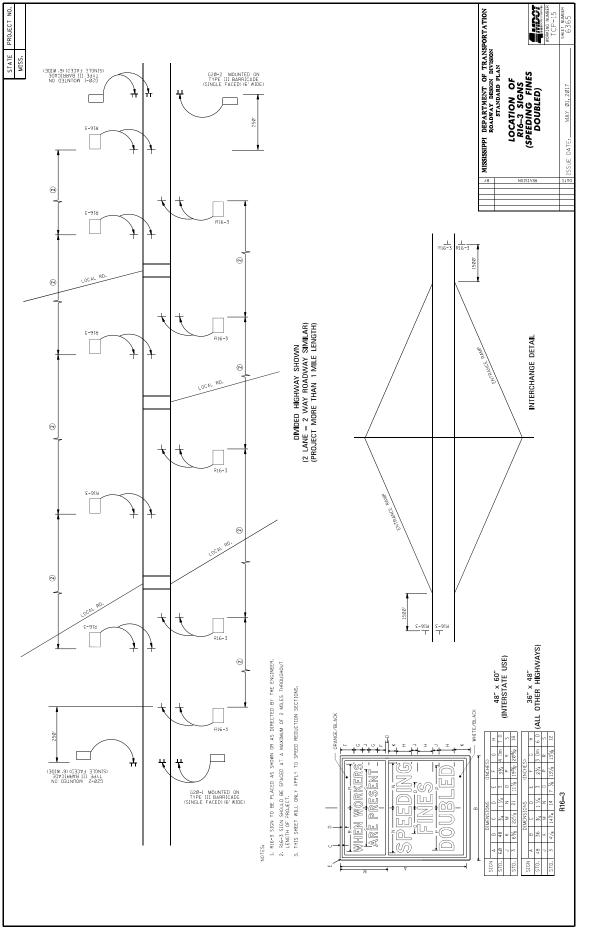
27



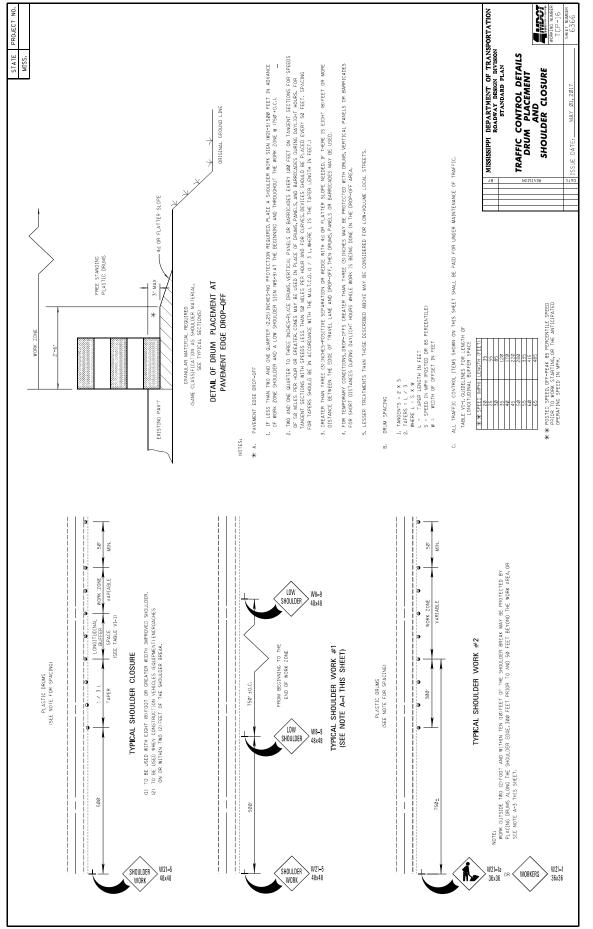




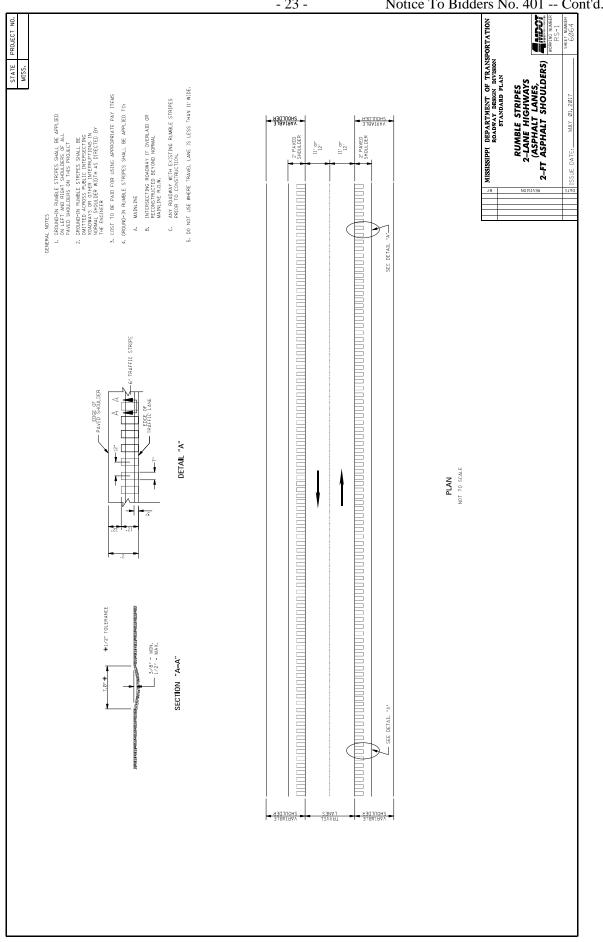
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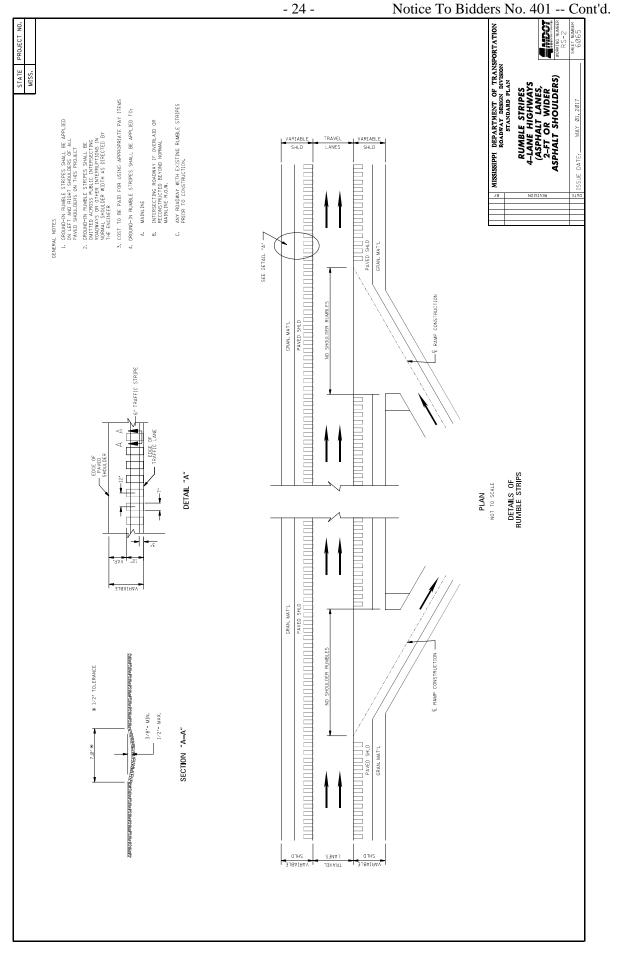
#### Notice To Bidders No. 401 -- Cont'd.

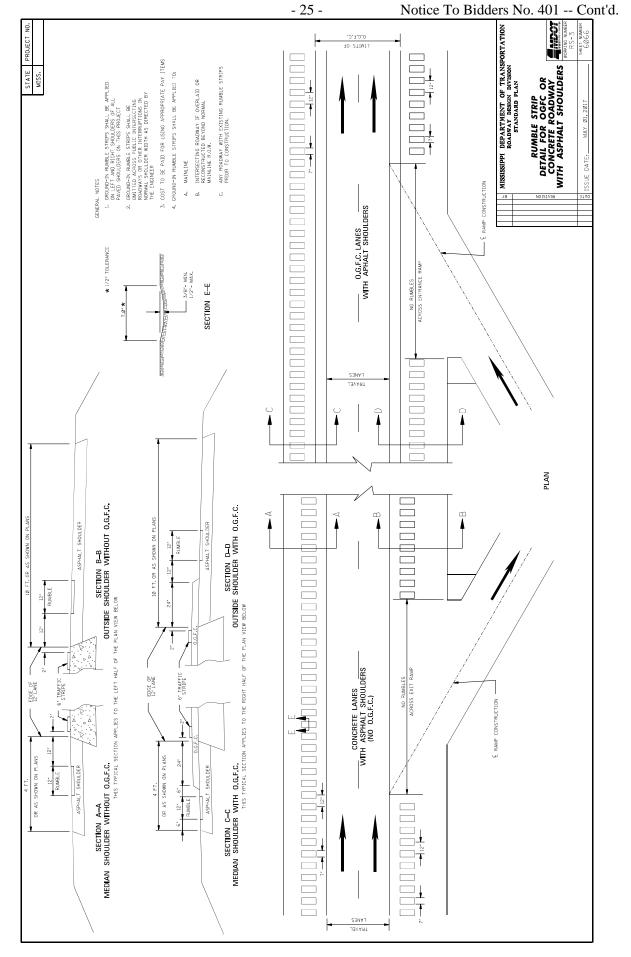


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#### **SECTION 904 - NOTICE TO BIDDERS NO. 445**

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. 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. 1206**

CODE: (SP)

# DATE: 10/16/2018

## SUBJECT: MASH Compliant Devices

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

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

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

## **SECTION 904 - NOTICE TO BIDDERS NO. 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: (SP)

#### 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: (SP)

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. 1538

CODE: (SP)

- DATE: 04/30/2019
- **SUBJECT:** Contract Time

#### PROJECT: MP-3051-26(008) / 306702301 – Holmes County MP-3012-26(014) / 306702302 – Holmes County MP-3019-26(001) / 306702303 – Holmes 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 be **June 11, 2019** and the effective date of the Notice to Proceed / Beginning of Contract Time will be **July 11, 2019**.

# <u>A NOTICE TO PROCEED / BEGINNING OF CONTRACT TIME EARLIER THAN</u> JULY 1, 2019 WILL NOT BE ALLOWED ON THIS PROJECT.

Should the Contractor request an early Notice to Proceed between the dates of <u>July 1, 2019 and</u> <u>July 11, 2019</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.

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

## SECTION 904 – NOTICE TO BIDDERS NO. 1539

CODE: (SP)

- DATE: 04/09/2019
- **SUBJECT:** Scope of Work
- PROJECT: MP-3051-26(008) / 306702301 -- Holmes County (US 51) MP-3012-26(014) / 306702302 -- Holmes County (SR 12) MP-3019-26(001) / 306702303 -- Holmes County (SR 19)

# <u>US 51, SR 12, and SR 19 IN HOLMES COUNTY</u> <u>US 51: Overlay, Saw and Seal joints from Log Mile 13.650 to 26.496</u> <u>SR 12: Ultra-Thin Overlay from Log Mile 26.863 to 28.381</u> <u>SR 19: Ultra Thin Overlay from Log Mile 0.0 to 0.4</u>

The contract documents do not include an official set of construction plans but may, by reference, include some Standard Drawings when so specified in a Notice to Bidders entitled, "Standard Drawings." All other references to plans in the contract documents and Standard Specification for Road and Bridge Construction are to be disregarded.

In general, the work to be accomplished using the pay items and corresponding specifications set forth in this contract is to overlay approximately 12.8 miles of US 51, 1.5 miles of SR 12, and 0.4 miles of SR 19 in Holmes County.

Work on the project shall consist of the following:

- The Contractor shall erect and maintain construction signing, provide all signs, set up night time lane closures (if needed), and traffic handling devices in accordance with the Traffic Control Plan. The costs for this work are to be included in the price bid for pay item 618-A: Maintenance of Traffic. All traffic control devices on this project should comply with the latest version of the MUTCD. Fluorescent orange sheeting shall be used on all construction and traffic control signs except for those designated in the plans to be black legend and border on white background. The Contractor will be required to use 42-inch channelizer cones with 6-inch wide reflective tape and 16-pound vertical panel bases for each cone.
- 2. The Contractor shall remove any failed areas on the main facility as directed by the Project Engineer using the following construction sequence.
  - A) Saw cut full depth through the asphalt and concrete. The saw cut for the Concrete pavement may be offset from the saw cut for the asphalt pavement. There will be no pay item for this saw cut, and the price of the work should be absorbed in the pay item removal of concrete all depths or the pay item removal of asphalt pavements all depths.
  - B) Remove the failed asphalt and concrete.
  - C) Remove any unsuitable material in the subgrade as directed by the Project Engineer. Removal of this material will be paid for as excess excavation.

D) Backfill and stabilize failed area with crushed limestone in lifts to an elevation five inches (5") below the original finished pavement elevation. No lift of crushed limestone shall be greater than six inches (6") in thickness or in a thickness as designated by the Project Engineer.

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E) Backfill with two lifts of 9.5-mm, ST, asphalt, 2<sup>1</sup>/<sub>2</sub>" each lift, for a total of five inches (5"). The final grade of asphalt shall match the existing grade of the highway. All repairs must be complete by the end of the work day and the lane closures must be removed from the roadway so that all lanes of travel are open thereafter.

Note: Failed areas are listed below.

3. Cold milling will be required at the BOP, EOP, bridge ends, concrete islands, curb and gutter sections, and Local Road tie-ins to ensure smooth transitions of new overlay with existing grade. It is the Contractor's responsibility to ensure the drainage of surface water from the milled areas including the use of shoulder cuts.

Note: Temporary wedges of full lane width asphalt pavement shall be installed immediately after the cold milling process in these locations to ensure safe transition of traffic. The placement, maintenance, and removal of these joints will be absorbed in other items bid.

- 4. Overlay US 51 with one lift at 1½" and variable 9.5-mm, ST, asphalt. Overlay SR 19 and SR 12 with a lift of ¾" ultra-thin asphalt. This overlay will consist of overlaying the mainline highways, local roads, and asphalt pads. Guardrail pads will not be paved. The asphalt shall be placed in 14-foot wide passes on the main roadway and in widths as necessary at intersections and other areas where the pavement width varies. Publicly maintained roads or streets shall be paved to the existing right of way or as directed by the Project Engineer. Privately owned entrances shall be paved a distance of 10 feet and variable from the edge of pavement or as directed by the Project Engineer. Any site grading at local roads, crossovers or drives will not be measured for separate payment but will be considered an absorbed item. Cross slopes shall be 2% from centerline. The existing superelevation rate in horizontal curves is to be maintained as a minimum. Any work to control the laydown equipment for proper placement of the asphalt in the superelevated curves shall be absorbed by the Contractor at no additional cost to the State.
- 5. Where existing concrete pavement is overlaid, traverse joints shall be sawed and sealed by the Contractor at a width of 20 feet each and a spacing of 30 feet or as directed by the Project Engineer.
- 6. Temporary striping shall conform to finished stripe specifications for alignment, reflectivity, straightness, and neatness. Temporary stripe shall be placed as needed for safe movement of traffic. All permanent pavement markings are to be hot thermoplastic. Edge lines will be placed so as to maintain a 12-foot lane width. Thermoplastic edge lines must be applied by using an atomization method, and centerline stripe and detail stripe must be placed using an extrusion head.

Note: Rumble strip and stripe will be applied per standards for this project.

Note: Cold Plastic will be used on bridges. Any existing cold plastic traffic stripe is to be removed prior to placement of new stripe. Removal of existing cold plastic stripe to be absorbed in other items bid.

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- 7. Raise the existing shoulders to match the new pavement elevation by grading existing material and/or placing any needed granular material, all to be bladed and dressed to a finished slope of 4%. Any existing low shoulders or at any time there is a differential in excess of two inches (2"), the Contractor shall raise the shoulder grade up to the current asphalt grade. The Contractor may pull up existing shoulder material if possible or place new granular material. Incidental work such as removing vegetation, shaping and compacting shoulders (including the base for paved aprons), and other incidental work that is necessary to complete the work will not be measured for separate payment and the cost will be included in the items bid.
- 8. Raised pavement markers will be placed at 80-foot intervals in tangents and 40-foot intervals in curves and in urban limits along the centerline of roadway. Raised pavement markers at other areas such as turn lanes will be placed per standard drawings. Removal of existing raised pavement markers or rumble bars shall be done before the overlay and shall be considered an absorbed item of work.

US 51 NORTHBOUND FAILED AREAS						
Pt. #	Northing	Easting	Length (ft)	Width (ft)	Area (ft <sup>2</sup> )	Comments
1	1294262	2438323	11	13	143	
2	1295134	2438888	7	10	70	
3	1297618	2441132	14	10	140	
4	1298123	2441712	8	10	80	
5	1299778	2442774	10	12	120	
6	1300043	2442913	16	12	192	
7	1300868	2443339	14	12	168	
8	1305651	2445051	6	12	72	
9	1305885	2445185	12	12	144	
10	1306556	2445573	12	12	144	
11	1308314	2446588	6	10	60	
12	1308650	2446782	10	10	100	
13	1309232	2447120	8	10	80	
14	1310066	2447550	6	10	60	
15	1310304	2447673	12	10	120	
16	1310821	2447931	10	10	100	
17	1312245	2448667	12	10	120	
18	1312640	2448870	16	10	160	
19	1313686	2449404	10	10	200	Both Lanes
20	1314479	2449810	22	10	440	Both Lanes
21	1314954	2450059	12	10	120	
22	1315534	2450353	12	10	240	Both Lanes

23	1317015	2451112	10	10	200	Both Lanes
24	1321020	2453169	8	10	160	Both Lanes
25	1324654	2455038	10	10	100	
26	1329497	2457533	16	10	160	
27	1330838	2458224	8	10	160	Both Lanes
28	1342711	2464582	8	10	80	
29	1343497	2465304	8	10	160	Both Lanes
30	1346020	2467054	8	10	160	Both Lanes
31	1350814	2469441	20	7	140	Dig Out
32	1351307	2469689	20	7	140	Dig Out

US 51 SOUTHBOUND FAILED AREAS						
			Length	Width	Area	
Pt. #	Northing	Easting	(ft)	(ft)	(ft²)	Comments
33	1347209	2467662	12	10	120	
34	1344838	2466414	8	10	80	
35	1344488	2466188	12	10	120	
36	1343968	2465730	14	10	140	
37	1343834	2465607	10	10	100	
38	1337901	2461843	8	10	80	
39	1336137	2460935	8	10	80	
40	1329997	2457784	8	10	80	
41	1329574	2457563	10	10	100	
42	1328563	2457043	12	10	120	
43	1327695	2456595	12	10	120	
44	1325094	2455260	12	10	120	
45	1316022	2450597	12	10	120	
46	1313559	2449327	8	10	80	
47	1308630	2446761	10	10	100	
48	1305137	2444742	8	10	80	
49	1311773	2448412	8	10	80	
50	1303988	2444367	12	10	120	
51	1303061	2444369	8	10	80	
52	1302637	2444239	8	10	80	
53	1300054	2442903	10	10	100	
54	1299784	2442765	10	10	100	
55	1299435	2442585	8	10	80	
56	1298750	2442234	8	10	80	
57	1298054	2441609	8	10	80	
58	1297956	2441498	8	10	80	
59	1297632	2441121	12	10	120	
60	1295070	2438832	8	10	80	

# **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. 907-411-1**

CODE: (SP)

DATE: 06/13/2018

## **SUBJECT:** Material Transfer Equipment

Section 411, Ultra-Thin Asphalt Pavement, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-411.03--Construction Requirements.</u> After Subsection 411.03.10 on page 327, add the following.

<u>907-411.03.11--Material Transfer Equipment</u>. Excluding the areas mentioned below, the material transferred from the hauling unit shall be remixed prior to being placed in the paver hopper or insert by using an approved Materials Transfer Device. Information on approved devices can be obtained from the State Construction Engineer. Areas excluded from this requirement include: temporary work of short duration, detours, bridge replacement projects having less than 1,000 feet of pavement on each side of the structure, acceleration and deceleration lanes less than 1,000 feet in length, tapered sections, transition sections (for width), shoulders less than 10 feet in width, crossovers, ramps, side street returns and other areas designated by the Engineer.

<u>907-411.05--Basis of Payment</u>. Add the "907" prefix to the pay item listed on page 328.

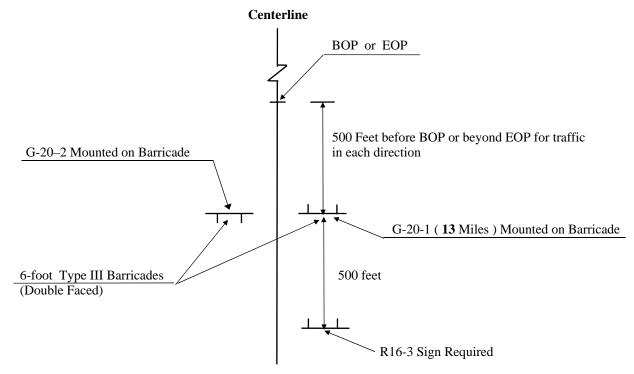
## SUPPLEMENT TO SPECIAL PROVISION NO. 907-618-4

DATE: 03/13/2019

# PROJECT: MP-3051-26(008) / 306702301, MP-3012-26(014) / 306702302, & MP-3019-26(001) / 306702303 -- Holmes County

After the first paragraph of Subsection 907-618.01.2 on page 1, add the following.

Additional traffic control devices will be required as follows.



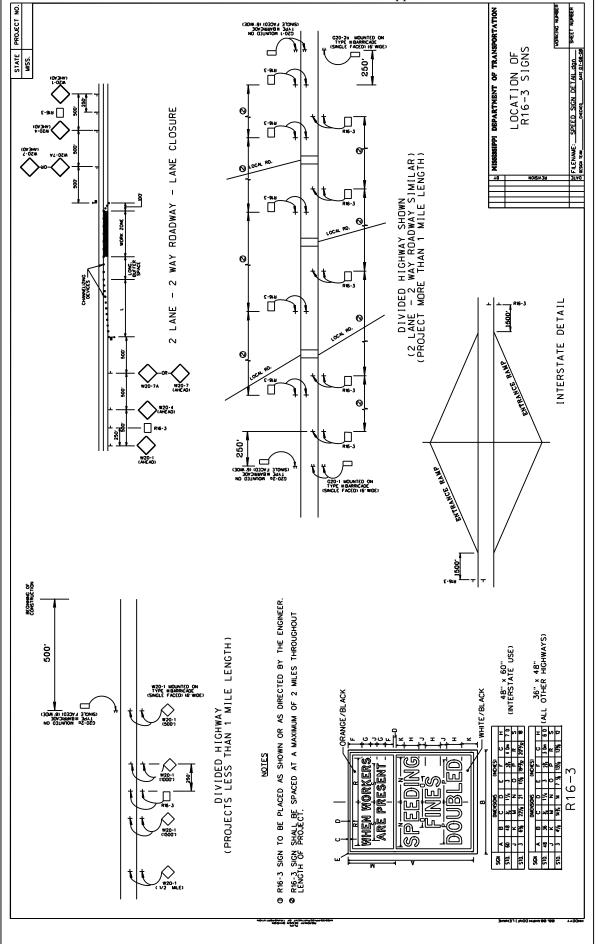
#### ADDITIONAL TRAFFIC CONTROL SIGNS REQUIRED:

- 47 W20-1 "AHEAD" signs required. One (1) W20-1 "AHEAD" sign is required at each local road or street entering the project.
- <u>25</u> R4-1 "DO NOT PASS" signs required.
- <u>27</u> R4-2 "PASS WITH CARE" signs required.
- 63 W14-3 "NO PASSING ZONE" signs required.
- <u>14</u> R16-3 "SPEEDING FINES DOUBLED" signs required.

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, this drawing, and as specified in the Manual on Uniform Traffic Control Devices.

R16-3 signs shall be spaced in accordance with sheet titled "Location of R16-3 Signs".

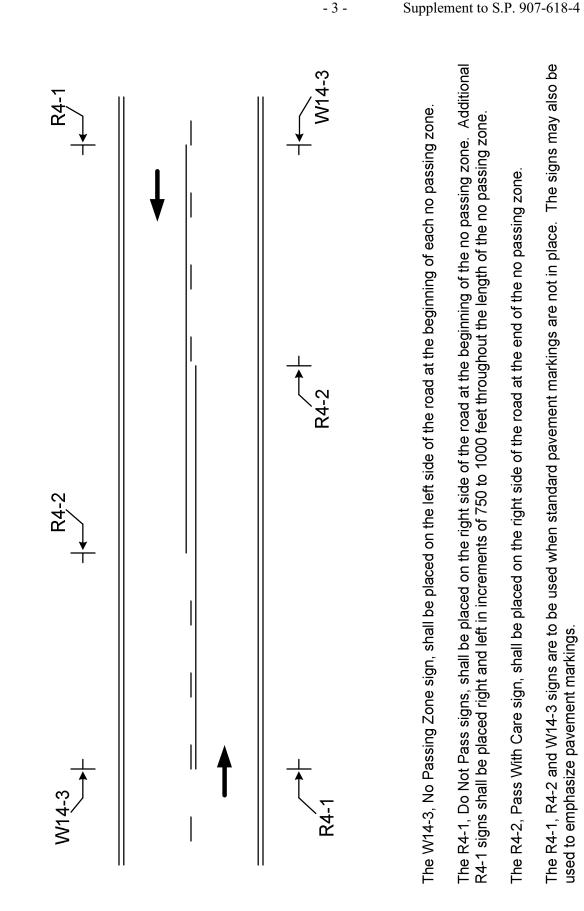
All construction signs and barricades shown on this page shall be included in the bid price for Pay Item 618-A, Maintenance of Traffic. Fluorescent orange sheeting shall be used on all construction and traffic control signs except for R16-3, R4-1 and R4-2 signs which shall be black legend and border on white background.



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## Supplement to S.P. 907-618-4 -- Cont'd.



Supplement to S.P. 907-618-4 -- Cont'd.

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#### **SPECIAL PROVISION NO. 907-618-4**

CODE: (SP)

**DATE:** 02/01/2018

#### **SUBJECT:** Additional Signing Requirements

Section 618, Maintenance of Traffic and Traffic Control Plan, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>**907-618.01.2--Traffic Control Plan**</u>. At the end of Subsection 618.01.2 on page 441, add the following:

For compliance with the traffic control plan, the Contractor will be required to install and maintain traffic control devices at various locations throughout the project. Payment for these devices will be included in the price bid for pay item no. 618-A, Maintenance of Traffic per lump sum.

## **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.

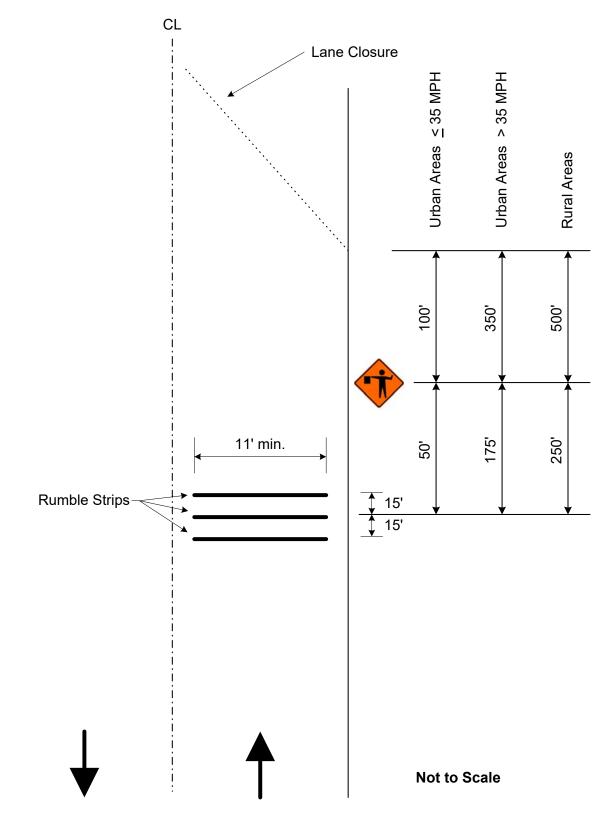
<u>907-619.05--Basis of Payment.</u> After the fifth paragraph of Subsection 619.05 on page 478, add the following.

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. 907-624-1**

CODE: (SP)

DATE: 01/17/2017

## SUBJECT: Inverted Profile Thermoplastic Traffic Stripe

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

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

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

#### 907-624.02--Materials.

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

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

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

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

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

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

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

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

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

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

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

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

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

# 907-624.02.2.6--Flow Characteristics.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### 907-624.03--Construction Requirements.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Payment will be made under:

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

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\* High Contrast may be specified

#### **SPECIAL PROVISION NO. 907-701-1**

CODE: (SP)

DATE: 10/23/2018

#### 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 third paragraph of Subsection 701.01 on page 718, change "mills" to "plants."

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

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

#### <u>907-701.02.1-General.</u>

<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	0.10 - 0.20	150 - 1,500	Type I cement with one of the following
and			replacements of cement by weight:
Seawater			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

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\* 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 V SPECIFICATION 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. 907-711-2**

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.

# 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.

Proposal(Sheet 2-1)

Overlay approximately 13 miles of US 51 South of MDOT Maintenance Lot to Holmes/Carroll County Line, & 2 miles of SR 12 from US 51 to Attala County Line, & 1 mile of SR 19 from US 51 to Attala County Line, known as State Project Nos. MP -3051-26(008) / 306702301, MP-3012-26(014) / 306702302, & MP-3019-26(001) / 306702303 in Holmes County.

Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
0010	202-B007		1,695	Roadway It Square Yard	Removal of Asphalt Pavement, All Depths
0020	202-В073		1,664	Square Yard	Removal of Concrete Pavement, All Depths
0030	203-G001	(E)	377	Cubic Yard	Excess Excavation, FM, AH
0040	304-B004	(GT)	5,366	Ton	Granular Material, Class 5, Group D
0050	403-A015	(BA1)	15,367	Ton	9.5-mm, ST, Asphalt Pavement
0060	406-A001	× ,	1,852	Ton	Cold Milling of Bituminous Pavement, All Depths
0070	407-A001	(A2)	21,478	Gallon	Asphalt for Tack Coat
0080	413-E001		36,953	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
0090	423-A001		28	Mile	Rumble Strips, Ground In
0100	618-A001		1	Lump Sum	Maintenance of Traffic
0110	618-B001		3	Square Feet	Additional Construction Signs (\$10.00)
0120	619-A1004		29	Mile	Temporary Traffic Stripe, Continuous White, Paint
0130	619-A2004		10	Mile	Temporary Traffic Stripe, Continuous Yellow, Paint
0140	619-A4004		13	Mile	Temporary Traffic Stripe, Skip Yellow, Paint
0150	619-A5002		7,668	Linear Feet	Temporary Traffic Stripe, Detail, Paint
0160	619-A6003		413	Square Feet	Temporary Traffic Stripe, Legend, Paint
0170	619-A6004		3,234	Linear Feet	Temporary Traffic Stripe, Legend, Paint
0180	620-A001		1	Lump Sum	Mobilization
0190	626-B002		29	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous White
0200	626-D001		13	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0210	626-E001		10	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0220	626-G004		6,717	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0230	626-G005		4,641	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
0240	626-H001		413	Square Feet	Thermoplastic Double Drop Legend, White
0250	626-H002		4,312	Linear Feet	Thermoplastic Double Drop Legend, White
0260	627 <b>-</b> J001		434	Each	Two-Way Clear Reflective High Performance Raised Markers
0270	627-L001		1,328	Each	Two-Way Yellow Reflective High Performance Raised Markers
0280	907-411-A001	(BA1)	1,264	Ton	Ultra Thin Asphalt Pavement
0290	907-619-B001		66	Linear Feet	Temporary Portable Rumble Strips
0200	204 5001	(CT)		ERNATE GROUP	
0300	304-F001	(GT)	636 ALTI	Ton ERNATE GROUP	3/4" and Down Crushed Stone Base
0310	304-F002	(GT)	636	Ton	Size 610 Crushed Stone Base
				ERNATE GROUP	AA NUMBER 3
0320	304-F003	(GT)	636	Ton	Size 825B Crushed Stone Base

(Date Printed 05/01/19)

Section 9			MP-3051-26(008)/ 306702301000, MP-3012-26(014)/ 306702302000 & MP- 3019-26(001)/ 306702303000					
Proposal( Line no.	(Sheet 2-2) Item Code	Adj Code	Quantity	y Units ALTERNATE GROU	Holmes Description[Fixed Unit Price] P BB NUMBER 1			
0330	628-H001		A 8,010	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Continuous White			
0340	628-1002		4,005	Linear Feet	6" High Performance Cold Plastic Traffic Stripe, Skip Yellow			
0250	007 634 0000			LTERNATE GROU				
0350 0360	907-624-B002 907-624-C001		8,010 4,005	Linear Feet Linear Feet	<ul><li>6" Inverted Profile Thermoplastic Traffic Stripe, Continuous White</li><li>6" Inverted Profile Thermoplastic Traffic Stripe, Skip Yellow</li></ul>			
				(Date Printed 05/01/	19)			

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 T14	Unit									
	Pay Item Number		6							
	Project Number	1.	5	3.	4.	5.	6.	7.	8.	

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

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

Ś TION BID PROPOSAL SECTION 905 - COMBINA

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

# **CERTIFICATE**

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

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

(Individual or Firm)	(Address)
(Individual or Firm)	(Address)
(Individual or Firm)	(Address)
(Individual or Firm)	(Address)

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

Contractor \_\_\_\_\_

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION CERTIFICATION

I, ,
(Name of person signing bid)
individually, and in my capacity as 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. MP-3051-26(008)/ 306702301000, MP-3012-26(014)/ 306702302000 & MP-3019-26(001) / 306702303000
in <u>Holmes</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)

#### SECTION 902

#### CONTRACT FOR MP-3051-26(008)/ 306702301000, MP-3012-26(014)/ 306702302000 & MP-3019-26(001)/ 306702303000

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

#### 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 signatu	ares this the day of,
Contractor(s)	_
By	MISSISSIPPI TRANSPORTATION COMMISSION
Title	By
Signed and sealed in the presence of: (names and addresses of witnesses)	Executive Director
	Secretary to the Commission
	ransportation Commission in session on the day of No

# SECTION 903 PERFORMANCE AND PAYMENT BOND

	: <u>MP-3051-26(008)/ 306702301000, MP-3012-26(014)/ 306702302000 &amp; MP-3019-26(</u> <u>306702303000</u>	<u>001)/</u>
LOCATED IN THE CO	NTY(IES) OF: <u>Holmes</u>	
STATE OF MISSISSIPI COUNTY OF HINDS		
Know all men by these p	esents: that we,(Contractor)	
	(Contractor)	-
residing at	in the State of	_
	(Surety)	-
residing at	in the State of	,
(\$	) Dollars, lawful money of the United States of America, to be paid to it for which	1
payment well and truly t	be made, we bind ourselves, our heirs, administrators, successors, or assigns jointly and	
severally by these preser		
	d are such, that whereas the said	-
	ed into a contract with the Mississippi Transportation Commission, bearing the date of	
day of	A.D hereto annexed, for the construction of certain projects(s)	) in
the State of Mississippi a	mentioned in said contract in accordance with the Contract Documents therefor, on file in	the
offices of the Mississipp	Department of Transportation, Jackson, Mississippi.	

Now therefore, if the above bounden

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

Revised 09/02/2014

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

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

Revised 9/02/2014

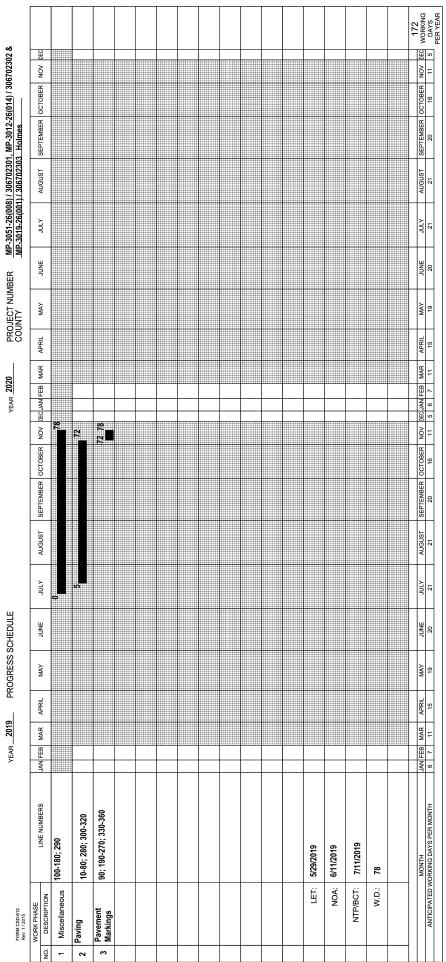


# **BID BOND**

Contractor         Address	KNOW ALL MEN BY THESE F	RESENTS, that we					
City, State ZIP         As principal, hereinafter called the Principal, and				C	ontractor		
As principal, hereinafter called the Principal, and					Address		
Surety         a corporation duly organized under the laws of the state of				Cit	y, State ZIP		
a corporation duly organized under the laws of the state of	As principal, hereinafter called th	e Principal, and			Surety		
As Obligee, hereinafter called Obligee, in the sum of Five Per Cent (5%) of Amount Bid Dollars(\$	a corporation duly organized und	er the laws of the sta	ate of				
Dollars(\$)         for the payment of which sum will and truly to be made, the said Principal and said Surety, bind ourselves, our heir executors, administrators, successors and assigns, jointly and severally, firmly by these presents.         WHEREAS, the Principal has submitted a bid for Overlay approximately 13 miles of US 51 South of MDOT         Maintenance Lot to Holmes/Carroll County Line, & 2 miles of SR 12 from US 51 to Attala County Line, & 1 mile of SR 19 from US 51 to Attala County Line, known as State Project Nos. MP -3051-26(008) / 306702301, MP-3012-26(014) / 306702302, & MP-3019-26(001) / 306702303 in Holmes County.         NOW THEREFORE, the condition of this obligation is such that if the aforesaid Principal shall be awarded the contract, the said Principal will, within the time required, enter into a formal contract and give a good and sufficient bond to secure th performance of the terms and conditions of the contract, then this obligation to be void; otherwise the Principal and Suret will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally contracts with another party to perform the work if the latter amount be in excess of the forme but in no event shall liability hereunder exceed the penal sum hereof.         Signed and sealed this	as Surety, hereinafter called the S	urety, are held and f	firmly bound unto	State of	Mississippi, Jacks	son, Mississip	pi
for the payment of which sum will and truly to be made, the said Principal and said Surety, bind ourselves, our heir executors, administrators, successors and assigns, jointly and severally, firmly by these presents. WHEREAS, the Principal has submitted a bid for Overlay approximately 13 miles of US 51 South of MDOT Maintenance Lot to Holmes/Carroll County Line, & 2 miles of SR 12 from US 51 to Attala County Line, & 1 mile of SR 19 from US 51 to Attala County Line, known as State Project Nos. MP -3051-26(008) / 306702301, MP-3012 -26(014) / 306702302, & MP-3019-26(001) / 306702303 in Holmes County. NOW THEREFORE, the condition of this obligation is such that if the aforesaid Principal shall be awarded the contract, the said Principal will, within the time required, enter into a formal contract and give a good and sufficient bond to secure the performance of the terms and conditions of the contract, then this obligation to be void; otherwise the Principal and Sure will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally contracts with another party to perform the work if the latter amount be in excess of the forme but in no event shall liability hereunder exceed the penal sum hereof. Signed and sealed this	As Obligee, hereinafter called Ob	ligee, in the sum of	Five Per Cent (	5%) of Amo	ount Bid		
executors, administrators, successors and assigns, jointly and severally, firmly by these presents. WHEREAS, the Principal has submitted a bid for Overlay approximately 13 miles of US 51 South of MDOT Maintenance Lot to Holmes/Carroll County Line, & 2 miles of SR 12 from US 51 to Attala County Line, & 1 mile of SR 19 from US 51 to Attala County Line, known as State Project Nos. MP -3051-26(008) / 306702301, MP-3012 -26(014) / 306702302, & MP-3019-26(001) / 306702303 in Holmes County. NOW THEREFORE, the condition of this obligation is such that if the aforesaid Principal shall be awarded the contract, th said Principal will, within the time required, enter into a formal contract and give a good and sufficient bond to secure th performance of the terms and conditions of the contract, then this obligation to be void; otherwise the Principal and Suret will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount fo which the Obligee legally contracts with another party to perform the work if the latter amount be in excess of the forme but in no event shall liability hereunder exceed the penal sum hereof. Signed and sealed this, 20				Dollars(\$_			)
Maintenance Lot to Holmes/Carroll County Line, & 2 miles of SR 12 from US 51 to Attala County Line, & 1 miles of SR 19 from US 51 to Attala County Line, known as State Project Nos. MP -3051-26(008) / 306702301, MP-3012 -26(014) / 306702302, & MP-3019-26(001) / 306702303 in Holmes County.         NOW THEREFORE, the condition of this obligation is such that if the aforesaid Principal shall be awarded the contract, the said Principal will, within the time required, enter into a formal contract and give a good and sufficient bond to secure the performance of the terms and conditions of the contract, then this obligation to be void; otherwise the Principal and Suret will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally contracts with another party to perform the work if the latter amount be in excess of the forme but in no event shall liability hereunder exceed the penal sum hereof.         Signed and sealed this day of, 20						ourselves, ou	heirs,
(Principal) (Seal) By:	of SR 19 from US 51 to Attala ( -26(014) / 306702302, & MP-30 NOW THEREFORE, the conditio said Principal will, within the tim performance of the terms and con will pay unto the Obligee the diff which the Obligee legally contract	<b>County Line, know</b> <b>19-26(001) / 306702</b> In of this obligation is required, enter intra- ditions of the contra- ference in money be the with another part	n as State Projec 2303 in Holmes C is such that if the a o a formal contrac act, then this obliga- tween the amount y to perform the w	t Nos. MP - County. foresaid Prin et and give a ation to be v of the bid o	<b>3051-26(008)</b> / <b>30</b> ncipal shall be awa good and sufficien oid; otherwise the f the said Principa	6702301, MP rded the contra nt bond to sec Principal and l and the amo	<b>2-3012</b> act, the ure the Surety ount for
By:	Signed and sealed this	day of		, 20			
(Witness) By:(Name) (Title)					(Principal)	(Seal)	)
(Witness) (Name) (Title)				By:			
	(Witness)				(Name)	(Title	)
(Surety) (Seal)					(Surety)	(Seal)	)
(Witness) By:(Attorney-in-Fact)	(Witness)			By:	(Attorney in E	(act)	

(MS Agent)

Mississippi Insurance ID Number



# 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.