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16

SM No. CSP0008030581

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

16

Mill & Overlay approximately 10 miles on US 49 from 0.45 miles north of I-220 to the Madison County Line, known as State Project No. SP-0008-03(058) / 108231301 in Hinds County.

Project Completion: 202 Working Days

(STATE DELEGATED)

NOTICE

BIDDERS MUST COMPLETE AN ONLINE REQUEST FOR PERMISSION TO BID THIS PROJECT.

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

SECTION 900

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

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PROJECT: SP-0008-03(058)/108231301 - Hinds

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Progress Schedule

(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET OF SECTION 905 AS ADDENDA) 05/26/2021 02:54 PM

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock <u>A.M.</u>, Tuesday, June 22, 2021, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Mill & Overlay approximately 10 miles on US 49 from 0.45 miles north of I-220 to the Madison County Line, known as State Project No. SP-0008-03(058) / 108231301 in Hinds 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.

JEFFREY C. ALTMAN ACTING 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 7th 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

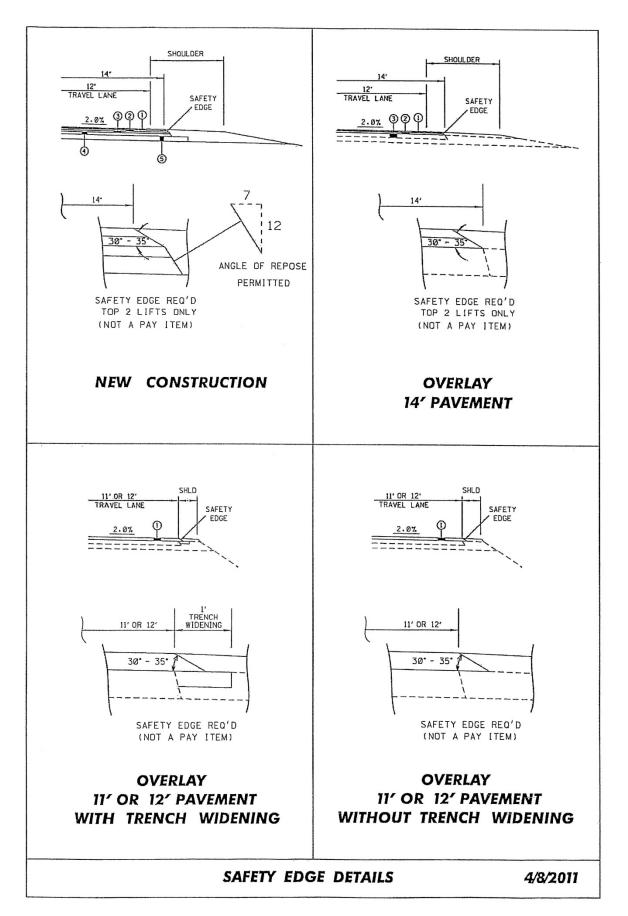
SECTION 904 - NOTICE TO BIDDERS NO. 13

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').



SUPPLEMENT TO NOTICE TO BIDDERS NO. 14

DATE: 5/26/2021

PROJECT: SP-0008-03(058) / 108231301 -- Hinds County

After the second paragraph on page 1, add the following:

Name Insured: Illinois Central Railroad Company.

Description and Designation:

Milling and Paving of highway intersection: Intersection of the centerline of survey of Joe Coker Rd and the centerline of track just East of the intersection of US 49 at Railroad location US DOT # (300 886B) and mile post (206.43) in Pocahontas, Mississippi

After the fourth paragraph on page 1, add the following:

•

Mr. John Dinning Manager of Public Projects CN 2151 North Mill Street Jackson, MS 39202

SECTION 904 - NOTICE TO BIDDERS NO. 14

CODE: (SP)

DATE: 01/17/2017

SUBJECT: Railway-Highway Provisions

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

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

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

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

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

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

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

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

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

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

SECTION 904 - NOTICE TO BIDDERS NO. 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. 445

CODE: (SP)

DATE: 10/10/2017

SUBJECT: Mississippi Agent or Qualified Nonresident Agent

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

SECTION 904 - NOTICE TO BIDDERS NO. 446

CODE: (SP)

DATE: 10/18/2017

SUBJECT: Traffic on Milled Surface in Urban Areas

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

SECTION 904 - NOTICE TO BIDDERS NO. 516

CODE: (IS)

DATE: 11/28/2017

SUBJECT: Errata and Modifications to the 2017 Standard Specifications

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

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

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SECTION 904 - NOTICE TO BIDDERS NO. 1225

CODE: (SP)

DATE: 11/13/2018

SUBJECT: Early Notice to Proceed

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

SECTION 904 - NOTICE TO BIDDERS NO. 1226

CODE: (IS)

DATE: 11/16/2018

SUBJECT: Material Storage Under Bridges

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

SECTION 904 - NOTICE TO BIDDERS NO. 1241

CODE: (IS)

DATE: 11/27/2018

SUBJECT: Fuel and Material Adjustments

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

SECTION 904 - NOTICE TO BIDDERS NO. 1963

CODE: (SP)

DATE: 9/23/2019

SUBJECT: Guardrail Pads

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

SECTION 904 - NOTICE TO BIDDERS NO. 2206

CODE: (IS)

DATE: 01/14/2020

SUBJECT: MASH Compliant Devices

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

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

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

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

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

SECTION 904 - NOTICE TO BIDDERS NO. 2273

CODE: (SP)

DATE: 02/12/2020

SUBJECT: Mississippi Special Fuel Tax Law

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



Gasoline and Dyed Diesel Used for Non-Highway Purposes

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

Gasoline Used for Non-Highway Purposes

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

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

Refund Gasoline User

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

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

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

Refund Gasoline Dealer

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

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

Dyed Diesel Used for Non-Highway Purposes

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

Dyed Diesel Used on the Highway

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

Identifying Dyed Diesel

Revised March 2017

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



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



Special Fuel Used on Government Contracts

State and Local Government Contracts

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

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

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

Special Fuel Direct Pay Permit

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

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

Special Fuel Distributors

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

Environmental Protection Fee

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

Penalties

Revised March 2017

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



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

Page 1 of 1

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

SECTION 904- NOTICE TO BIDDERS NO. 2365

CODE: (SP)

DATE: 03/23/2020

SUBJECT: Special Project Signs

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



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^{6.0&}quot; Radius, 0.8" Border, Blue on White;

[&]quot;Project Funded By" D 2K; "Mississippi Lottery" D 2K; "Thank Your" E 2K; "State Legislator" E 2K;

SUPPLEMENT TO NOTICE TO BIDDERS NO. 2654

DATE: 05/02/2020

The goal is <u>6</u> percent for the Disadvantaged Business Enterprise. All Bidders are required to submit Form OCR-481 for all DBEs. Bidders are advised to check the bid tabulation link for this project on the MDOT website at:

https://mdot.ms.gov/portal/current letting

Bid tabulations are usually posted by 3:00 pm on Letting Day.

SECTION 904 - NOTICE TO BIDDERS NO. 2654

CODE: (SP)

DATE: 05/02/2020

SUBJECT: Disadvantaged Business Enterprises In Special Funded Projects

The Department has developed a Disadvantaged Business Enterprise Program that is applicable to this contract and is made a part thereof by reference, except approvals and concurrences by the Federal Highway Administration is not applicable to this contract since it is not financed in whole or in part with Federal Funds.

Copies of the program may be obtained from:

Office of Civil Rights Mississippi Department of Transportation P. O. Box 1850 Jackson, Mississippi 39215-1850

POLICY

It is the policy of the Mississippi Department of Transportation to provide a level playing field, to foster equal opportunity in all contracts, to improve the flexibility of the DBE Program, to reduce the burdens on small businesses, and to achieve that amount of participation that would be obtained in a non-discriminatory market place. In doing so, it is the policy of MDOT that there will be no discrimination in the award and performance of these contracts on the basis of race, color, sex, or national origin.

ASSURANCES THAT CONTRACTORS MUST TAKE:

MDOT will require that each contract which MDOT signs with a subrecipient or a Contractor, and each subcontract the Prime Contractor signs with a Subcontractor, includes the following assurances:

"The Contractor, subrecipient or Subcontractor shall not discriminate on the basis of race, color, sex or national origin in the performance of this contract. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as MDOT deems appropriate."

DEFINITIONS

For purposes of this provision the following definitions will apply:

"Disadvantaged Business" means a small business concern: (a) which is at least 51 percent owned by one or more socially and economically disadvantaged individual(s) or in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more socially and economically disadvantaged individual(s); and (b) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individual(s) who own it. It is important to note that the business owners themselves must control the operations of the business. Absentee ownership or title ownership by an individual who does not take an active role in controlling the business is not consistent with eligibility as a DBE under 49 CFR Part 26.71.

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CONTRACTOR'S OBLIGATION

The Contractor and all Subcontractors shall take all necessary and reasonable steps to ensure that DBE firms compete for and participate in the performance of a portion of the work in this contract and shall not discriminate on the basis of race, color, sex or national origin. Failure on the part of the Contractor to carry out the DBE requirements of this contract constitutes a breach of contract and after proper notification the Department may terminate the contract or take other appropriate action as determined by the Department.

When a contract has a zero percent (0%) DBE goal, the Contractor still has the responsibility to take all necessary and reasonable steps to ensure that DBE firms can compete for and participate in the performance of the work in the contract. In this case, all work performed by a certified DBE firm is considered to be a "race neutral" measure and the Department will receive DBE credit towards the overall State goals when the DBE firm is paid for their work. If the Prime Contractor is a certified DBE firm, the Department can receive DBE credit only for the work performed by the Prime Contractor's work force or any work subcontracted to another DBE firm. Work performance by a non-DBE Subcontractor is not eligible for DBE credit.

CONTRACT GOAL

The goal for participation by DBEs is established for this contract in the attached Supplement. The Contractor shall exercise all necessary and reasonable steps to ensure that participation is equal to or exceeds the contract goal.

If the percentage of the contract that is proposed for DBEs is 1% or greater, shall be so stated on the last bid sheet of the proposal.

All Bidders shall submit to the Office of Civil Rights Form OCR-481, signed by the Prime Contractor and the DBE Subcontractors, no later than the 3rd business day after opening of the bids.

Form OCR-481 is available on the MDOT website at www.mdot.ms.gov under the Civil Rights tab, or by calling 601-359-7466.

The OCR-481 Form must contain the following information:

The name and address of each certified DBE Contractor/Supplier;

The Reference Number, percent of work to be completed by the DBE subcontractor and the dollar amount of each item. If a portion of an item is subcontracted, a breakdown of that item

including quantities and unit price must be attached, detailing what part of the item the DBE firm is to perform and who will perform the remainder of the item.

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If the DBE Commitment shown on the last bid sheet of the proposal, does not equal or exceed the contract goal, the bidder must submit, to MDOT Contract Administration Division prior to bid opening, information to satisfy the Department that adequate good faith efforts have been made to meet the contract goal.

Failure of the lowest bidder to furnish acceptable proof of good faith efforts, <u>submitted to MDOT</u> <u>Contract Administration Division prior to bid opening</u>, shall be just cause for rejection of the proposal. Award may then be made to the next lowest responsive bidder or the project may be readvertised.

GOOD FAITH EFFORTS

The following factors are illustrative of matters the Department will consider in judging whether or not the bidder has made adequate good faith effort to satisfy the contract goal.

- (1) Whether the bidder attended the pre-bid meeting that was scheduled by the Department to inform DBEs of subcontracting opportunities;
- (2) whether the bidder advertised in general circulation, trade association, and minorityfocus media concerning the subcontracting opportunities;
- (3) whether the bidder provided written notice to a reasonable number of specific DBEs that their interest in the contract is being solicited;
- (4) whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainty whether they were interested;
- (5) whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goal;
- (6) whether the bidder provided interested DBEs with adequate information about the plans, specifications and requirements of the contract;
- (7) whether the bidder negotiated in good faith with interested DBEs and did not reject them as unqualified without sound reasons based on a thorough investigation of their capabilities; and
- (8) whether the bidder made efforts to assist interested DBEs in obtaining any required bonding or insurance.
- (9) whether the bidder has written notification to certified DBE Contractors soliciting subcontracting for items of work in the contract.
- (10) whether the bidder has a statement of why an agreement was not reached.

(11) Proof of written notification to certified DBE Contractors by certified mail that their interest is solicited in subcontracting the work defaulted by the previous DBE or in subcontracting other items of work in the contract.

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The bidder's execution of the signature portion of the proposal shall constitute execution of the following assurance:

The bidder hereby gives assurance that a good faith effort has been made to meet the contract goal for DBE participation for which this proposal is submitted.

DIRECTORY

A list of "Certified DBE Contractors" which have been certified as such by the Mississippi Department of Transportation and other Unified Certification Partners (UPC) can be found on the Mississippi Department of Transportation website at <u>www.mdot.ms.gov</u>. The DBE firm must be certified at the time the project is let and approved by MDOT to count towards meeting the DBE goal.

REPLACEMENT

If a DBE Subcontractor cannot perform satisfactorily, and this causes the OCR-481 commitment to fall below the contract goal, the Contractor shall take all necessary reasonable steps to replace the DBE with another certified DBE Subcontractor or submit information to satisfy the Mississippi Department of Transportation that adequate good faith efforts have been made to replace the DBE. The good faith efforts outlined previously in this document still apply. The replacement DBE must be a DBE who was on the Department's list of "Certified DBE Contractors" when the job was let, and who is still active All DBE replacements must be approved by the Department.

Under no circumstances shall the <u>Prime</u> or any <u>Subcontractor</u> perform the DBE's work (as shown on the OCR-481) without prior written approval from the Department. See "Sanctions" at the end of this document for penalties for performing DBE's work.

When a Contractor proposes to substitute/replace/terminate a DBE that was originally named on the OCR-481, the Contractor must obtain a release, in writing, from the named DBE explaining why the DBE Subcontractor cannot perform the work. A copy of the original DBE's release must be attached to the Contractor's written request to substitute/replace/terminate along with appropriate subcontract forms for the substitute/replacement/terminated Subcontractor, all of which must be submitted to the DBE Coordinator and approved, in advance, by MDOT.

PREBID MEETING

A pre-bid meeting will be held in the Commission Room on the 1st floor of the MDOT Administration Building in Jackson at 2:00 P.M. on the day preceding the date of the bid opening.

This meeting is to inform DBE firms of subcontracting and material supply opportunities. Attendance at this meeting is considered of prime importance in demonstrating good faith effort to meet the contract goal.

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PARTICIPATION / DBE CREDIT

Participation shall be counted toward meeting the goal in this contract as follows:

- (1) If the Prime Contractor is a certified DBE firm, only the value of the work actually performed by the DBE Prime can be counted towards the project goal, along with any work subcontracted to a certified DBE firm.
- (2) If the Prime Contractor is not a DBE, the work subcontracted to a certified DBE Contractor will be counted toward the goal.
- (3) The Contractor may count toward the goal a portion of the total dollar value of a contract with a joint venture eligible under the standards of this provision equal to the percentage of the DBE partner in the joint venture. The joint venture must submit a Joint Venture Eligibility Form provided by the Mississippi Department of Transportation.
- (4) Expenditures to DBEs that perform a commercially useful function may be counted toward the goal. A business is considered to perform a commercially useful function when it is responsible for the execution of a distinct element of the work and carries out its responsibilities by actually performing, managing, and supervising the work involved.
- (5) The Contractor may count 100% of the expenditures for materials and supplies obtained from <u>certified</u> DBE suppliers and manufacturers that produce goods from raw materials or substantially alters them for resale provided the suppliers and manufacturers assume the actual and contractual responsibility for the provision of the materials and supplies. The Contractor may count <u>60 percent</u> of the expenditures to suppliers that <u>are not manufacturers</u>, provided the supplier performs a commercially useful function in the supply process. Within 30 days after receipt of the materials, the Prime Contractor shall furnish to the DBE Coordinator invoices from the certified supplier to verify the DBE goal.
- (6) Any work that a certified DBE firm subcontracts or sub-subcontracts to a non-DBE firm <u>will not</u> count towards the DBE goal
- (7) Only the dollars <u>actually paid</u> to the DBE firm may be counted towards the DBE goal.

AWARD

Award of this contract to the low bidder will be contingent upon the following condition:

(1) All Bidders must submit to the Office of Civil Rights for approval, Form OCR-481 (DBE Commitment) no later than the 3rd business day after opening of the bids, or submit information with the bid proposal to satisfy the Department and that <u>adequate good faith</u>

<u>efforts</u> have been made to meet the contract goal. For answers to questions regarding Form OCR-481, contact the MDOT Office of Civil Rights at (601) 359-7466.

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(2) Bidder must include OCR-485 information with their bid proposal listing all firms that submitted quotes for material supplies or items to be subcontracted. OCR-485 information must be signed and included with the bid proposal. If the OCR-485 information is not included as part of bid proposal, your bid will be deemed irregular.

Prior to the start of any work, the bidder must notify the Project Engineer, in writing, of the name of the designated "DBE Liaison Officer" for this project. This notification must be posted on the bulletin board at the project site.

DEFAULT

If the <u>contract goal established</u> by MDOT in this proposal is 1% or greater, it must be met to fulfill the terms of the contract. The Contractor may list DBE Subcontractors and items that exceed MDOT's contract goal, but should unforeseen problems arise that would prevent a DBE from completing its total commitment percentage, the Contractor will meet the terms of the contract as long as it meets or exceeds MDOT's Contract Goal. For additional information, refer to "Replacement" section of this Notice.

DBE REPORTS

- (1) OCR-481: Refer to "<u>CONTRACT GOAL</u>" section of this Notice to Bidders for information regarding this form.
- (2) OCR-482: At the conclusion of the project the Contractor will submit to the Project Engineer for verification of quantities and further handling Form OCR-482 whereby the Contractor certifies to the amounts of payments made to each Contractor/Supplier. The Project Engineer shall submit the completed Form OCR-482 to the DBE Coordinator (Office of Civil Rights). Final acceptance of the project is dependent upon Contract Administration Division's receipt of completed Form OCR-482 which they will receive from the Office of Civil Rights.
- (3) OCR-483: The Project Engineer/Inspector will complete Form OCR-483, the Commercially Useful Function (CUF) Performance Report, in accordance with MDOT S.O.P. No. OCR-03-05-02-483. Evaluations reported on this form are used to determine whether or not the DBE firm is performing a CUF. The Prime Contractor should take corrective action when the report contains any negative evaluations. DBE credit may be disallowed and/or other sanctions imposed if it is determined the DBE firm is not performing a CUF. This form should also be completed and returned to the DBE Coordinator (Office of Civil Rights).
- (4) OCR-484: Each month, the Prime Contractor will submit to the Project Engineer OCR-484 that certifies payments to all Subcontractors and shows all firms even if

the Prime Contractor has paid no monies to the firm during that estimate period (negative report). The Project Engineer will attach the form to the monthly estimate before forwarding to the Contract Administration Division for further processing. Failure of the Contractor to submit the OCR-484 will result in the estimate not being processed and paid.

(5) OCR-485: Bidder must submit <u>signed form with bid proposal</u> of all firms that submitted quotes for material supplies or items to be subcontracted. If the OCR-485 information is not included as part of bid proposal, your bid will be deemed irregular.

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(6) OCR-487: Only used by Prime Contractors that are certified DBE firms. This form is used in determining the exact percentage of DBE credit for the specified project. The low Bidder should return this form to MDOT with the OCR-481 form, or can also be returned with the Permission to Subcontract Forms (CAD-720, CAD-725 and CAD-521).

DBE Forms, can be obtained from the Office of Civil Rights Division, MDOT Administration Building, 401 North West Street, Jackson, MS, or at <u>www.mdot.ms.gov</u> under the Civil Rights tab.

SANCTIONS

The Department has the option to enforce any of the following penalties for failure of the Prime Contractor to fulfill the DBE goal as stated on the OCR-481 form or any violations of the DBE program guidelines:

- (1) Disallow credit towards the DBE goal
- (2) Withhold progress estimate payments
- (3) Deduct from the final estimate or recover an amount equal to the unmet portion of the DBE goal which may include additional monetary penalties as outlined below based on the number of offenses and the severity of the violation as determined by MDOT.

Offense #1	10% of unmet portion of goal	or	\$5,000 lump sum payment	or	Both
Offense #2	20% of unmet portion of goal	or	\$10,000 lump sum payment	or	Both
Offense #3	40% of unmet portion of goal	or	\$20,000 lump sum payment	or	\$20,000 lump sum payment and debarment

(4) Debar the Contractor involved from bidding on Mississippi Department of Transportation projects for a period of up to 12 months after notification by certified email.

SECTION 904 - NOTICE TO BIDDERS NO. 2677

CODE: (SP)

DATE: 07/08/2020

SUBJECT: Illinois Central Railroad Construction Requirements

Bidders are hereby advised that provisions which are required as per the Notice to Bidders entitled "Railway-Highway Provisions" shall also include the following.

The Contractor shall submit to the Project Engineer and the Railroad detailed plans and design data for temporary construction clearances, stages of construction, erection plans, demolition plans, false-work plans, excavation plans, and temporary shoring plans and calculations, as required, and shall be sealed by a Mississippi Registered Professional Engineer. All submittals must be approved by the Railroad before excavation or construction can begin within Railroad Right-of-Way. All construction submittals for work performed within the Illinois Central Railroad (ICRR) right-of-way shall be made per the current ICRR design guidelines.

The Bidder should review the requirements set forth in the attached APPENDIX as it relates to right-of-entry, insurance, and safety training. The Contractor will be required to follow the requirements in the Appendix.

Prior to beginning any work on the ICRR right-of-way, the Contractor shall obtain a Right of Entry License Agreement and submit a Request for Flagging Services. To request said documents, the Contractor should contact John Dinning. Mr. Dinning's contact information is as follows.

John W. Dinning Manager Public Works 2151 North Mill Street Jackson MS 39202 T 601.914.2658 F 601.592.1815 Email: john.dinning@cn.ca

The Contractor shall be responsible for payment of all application fees.

This project will require construction activities on the right-of-way of active railroad tracks which are currently owned and/or operated by ICRR. When work requires that equipment or personnel be within the ICRR right-of-way or the "foul zone" adjacent to the right-of-way, a qualified "Employee-in-Charge" (EIC) must be present for the purpose of providing on-track safety and flagging protection for the work crews. The EIC shall also be responsible for the coordination of the Contractor's activities within the ICRR right-of-way with the operation of the Railroad. The EIC must be approved by the local ICRR Roadmaster prior to beginning work on the ICRR right-of-way. The Contractor will be required to provide radios for the EIC, all equipment operators, supervisors, and foremen in charge of employees working within the

ICRR right-of-way. All personnel who must enter upon the ICRR right-of-way must check in and out with the EIC and be logged in and out of the site.

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All personnel who must work within the ICRR right-of-way at any time shall be trained and certified as a ICRR "Roadway Worker" and must at all times have their certification card with them and available for random inspection. The Contractor will be responsible for providing this training for Contractor employees or any subcontractor(s) employees. The Contractor shall contact www.contractororientation.com for approximate fees and scheduling the necessary training sessions. The Contractor shall also contact the MDOT Project Engineer to see if any MDOT employees need this training. If so, the Contractor shall include the MDOT employees in the list of participates for training. The Contractor shall bear the cost of training the MDOT employees. Costs for training the MDOT employees will be reimbursed to the Contractor by supplemental agreement.

Prior to commencing work, the Contractor shall provide to the Railroad Engineer or the Railroad Engineer's designated representative, with copies to the Project Engineer, a detailed construction schedule for its work on Railroad's right-of-way, including the proposed temporary horizontal and vertical clearances and construction sequence for all work to be performed on Railroad right-of-way. This schedule shall also include the anticipated dates when the milestone events listed below will occur. The Contractor shall update the schedule for these milestone events as necessary, but at least monthly, and shall provide a copy of all updates to the Railroad so that site visits may be scheduled.

- Preconstruction meetings.
- Excavations, shoring placement/removal, pile driving, drilling of caissons or drilled shafts adjacent to tracks.
- Reinforcement and concrete placement for near track piers.
- Erection of precast concrete or steel overpass bridge superstructure.
- Reinforcement and concrete placement of overpass bridge decks.
- Completion of the bridge structure.

The Contractor shall so arrange and conduct construction operations in such a manner that there will be no interference with Railroad operations, including train, signal, telephone and telegraphic services, or damage to the property of the Railroad or to poles, cables or wires (whether overhead or underground) and other facilities or tenants on the rights-of-way of the Railroad. Before undertaking any work within Railroad right-of-way and before placing any obstruction over any track, the Contractor shall:

- Notify the Railroad's representative at least 72 hours in advance of the work.
- Provide assurance to the Railroad's representative that arrangements have been made for any required flagging service.
- Receive permission from the Railroad Engineer to proceed with the work.
- Ascertain that the Project Engineer has received copies of notice to the Railroad and the Railroad's response.

APPENDIX

- 3 -

Right of Entry (ROE) License Agreement Information

Railroad Company requires <u>everyone</u> (contractor, consultants, etc.) working on Railroad Company property to have a Right-of-Entry (ROE) License Agreement. ROE license agreement applications are handled by email. Once Railroad Company receives the information requested below, and if application is approved, Railroad Company will draw up a ROE License Agreement, and will forward electronic copy by email for applicant's execution. Applicant must return one (1) executed original copy, a check for the application cost, and proof of insurance, together in one package to the address above. Application and ROE License Agreement will be delayed if Railroad Company receives the required documents separately, incomplete, or inaccurate. Railroad Company will return a fully executed digital copy of the ROE License Agreement by email for Applicant's files and records. No work may occur on Railroad Company property nor will flagging protection be provided until ROE License Agreement has been fully executed by both parties and returned.

Please use this form and return by email to submit application request for a Right of Entry agreement.

Contact name – Name of Applicant/contractor -Street Address – City, State, Zip – Telephone – Reason for ROE – Duration of ROE – Public Agency's Project No. – Public agency Easement No. (if known) – Location of project – FRA/AAR/DOT Crossing No. –

If unable to locate this number at jobsite, please use following links to obtain: http://safetydata.fra.dot.gov/officeofsafety/publicsite/crossing/xingqryloc.aspx

In Illinois http://www.icc.illinois.gov/railroad/advanced.aspx?

If project job site does not have a FRA/AAR/DOT Crossing Number, please attach an aerial snapshot to help identify specific location.

ROE may take up to 4+ weeks to obtain

FAQ

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What are the insurance requirements?

Railroad Company allows outside parties to come onto Railroad Company property to perform work, such as survey or inspection work, installation of pipelines and wirelines, and other work for projects necessitating the occupancy of Railroad Company. Before commencing work, and until the license of allowing such occupancy ends or is terminated, outside parties shall provide and maintain the following insurance in form and amount with companies satisfactory to and as approved by Railroad Company.

- 1. Minimum insurance required of outside party:
 - A. Statutory Workers Compensation and Employer's Liability Insurance.
 - B. Automobile Liability Insurance in an amount not less than \$1,000,000 combined single limit.
 - C. Commercial General Liability Insurance (Occurrence Form) in an amount not less than \$5,000,000 per occurrence, with an aggregate limit of not less than \$10,000,000. The policy must name "All Operating Subsidiaries of North American Railways, Inc." as additional insureds in the following form:

All Operating Subsidiaries of North American Railways, Inc. Attn: Mgr Insurance, Insurance Department 935 de La Gauchetiere St W Montreal, Quebec H3B 2M9, Canada 514-399-<u>6411 (office); 514-</u>399-4296 (FAX)

The policy must remove any provisions excluding coverage for injury, loss or damage arising out of or resulting from doing business or undertaking construction or demolition on, near, or adjacent to railroad track or facilities using endorsement CG 2417 10 01 or equivalent approved by Railroad Company.

D. When outside party is required by Railroad Company or Governing Authority to purchase Railroad Protective Liability Insurance to cover work on, near or adjacent to railroad track or facilities, and outside party is not being hired for this project by Railroad Company, outside party must procure Railroad Protective Liability Insurance in the following form;

This coverage shall be written on an Occurrence Form with limits of not less than \$5,000,000 per occurrence for Bodily Injury, Personal Injury and Physical Damage to Property, with an aggregate limit of not less than \$10,000,000. The policy must name:

Name of site specific Railroad Company (applicant must contact CN to determine) Attn: Mgr Insurance, Insurance Department 935 de La Gauchetiere St W Montreal, Quebec H3B 2M9, Canada 514-399-6411 (office); 514-399-4296 (FAX)

E. In the event the privileges provided herein to Applicant involve any work that could result in the discharge, spillage, disposal, release or escape of any Hazardous Material or petroleum product onto the Railroad Company's property, Applicant shall purchase and maintain in effect at all times during the term of this License a Contractor's Pollution Liability policy in an amount not

less than two million dollars (\$2,000,000) combined single limit (and with a deductible not to exceed \$50,000) insuring Railroad against any and all damages, costs, liabilities and expenses resulting from on- or off-site bodily injury (including death to any person), on or off- site loss, damage or destruction of property (including that belonging to the parties hereto), and on-or off-site cleanup costs (including expenses incurred in the investigation, removal, remediation, neutralization, or immobilization of contaminated soils, surface water, groundwater or any other contamination) growing out of or incidental to any discharge, spillage, disposal, release, or escape of any Hazardous Material or petroleum product arising therefrom. For purposes of this Agreement, the term "Hazardous Material" shall include, without limit, any flammable explosives, radioactive materials, hazardous materials, hazardous wastes, hazardous or toxic substances, or related materials defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. §§9601, et seq.), the Hazardous Material Transportation Act, as amended (49 U.S.C. §§ 1801, et seq.), the Resource Conservation and Recovery Act, as amended (42 U.S.C. §§ 6901 et seq.), the Toxic Substances Control Act, as amended (15 U.S.C. §§ 2601, et seq.), similar laws or ordinances enacted by any state, county or municipality in which the Property is located, or in the regulations adopted and publications promulgated pursuant to any of the above, as such laws or regulations now exist or may exist in the future.

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Applicant is required to advise Railroad Company by thirty (30) day advance written notice when any work to be performed under this License may require Pollution Liability Insurance pursuant to the previous paragraph.

- F. All policies described above must include description of operations, Railroad Company milepost, highway or street name, city and state of location, project number, and Railroad Company contact person on the certificate.
- 2. Before commencing work, outside party shall deliver to Railroad Company a certificate of insurance evidencing the foregoing coverages and, if requested by Railroad Company, true and complete copies of the policies described above. If the policy is being issued in conjunction with, or as a result of, a city, county or state contract, the policy should be initially submitted to the respective city, county or state agency that will review it first and then forward it to Railroad Company.
- 3. Common Policy Provisions. Each policy described in paragraph 1, parts A through E above, must include the following provisions:
 - A. Each policy shall include a waiver by the insurer of any right of subrogation against any recovery by or on behalf of any insured.
 - B. Each policy shall provide for not less than thirty (30) days prior written notice to r ailroad Company at the address listed above of cancellation of or any material change in that policy.
- 4. It is understood and agreed that the foregoing insurance coverage requirements, and outside party's compliance with those requirements, is not intended to, and shall not, relieve outside party from, or serve to limit, outside party's liability and indemnity obligations under the provisions herein.
- 5. Railroad Company shall have the right, from time to time, to revise the amount or form of insurance coverage required as circumstances or changing economic conditions may require. Railroad Company shall give outside party written notice of any such requested change at least thirty

(30) days before the date of expiration of the then-existing policy or policies, outside party agrees to, and shall, thereupon provide Railroad Company with such revised policy or policies.

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- 6. Insurance required of SUBCONTRACTOR:
 - A. If a SUBCONTRACTOR is to be employed by outside party to perform work on Railroad Company under or by the permission for occupancy granted to outside party by Railroad Company, before commencing work, the SUBCONTRACTOR shall provide and thereafter maintain all of the insurance described in paragraph 1, parts A through E, above, in the same forms and amounts as provided for above and subject to the other terms and conditions provided for in paragraphs 2 through 4 above.
 - B. In the alternative, before the SUBCONTRACTOR commences work for outside party on Railroad Company, outside party may provide and thereafter maintain all of the insurance described in paragraph 1, parts A through E, above, in the same forms and amounts as provided for above and subject to the other terms and conditions provided for in paragraphs 2 through 5 above, provided that all such insurance names SUBCONTRACTOR as an additional insured and all such insurance provides coverage to all additional insureds, including Railroad Company, for any liability arising out of work performed by all other additional insureds, including SUBCONTRACTOR.

Is safety training required?

Prior to any entry onto Railroad Company's property, the employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee shall determine by the guidelines hereinafter provided and by the work to be performed the level of safety training to be required.

All employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee not hired by Railroad Company that will work on CN property are required to have minimum <u>www.contractororientation.com</u>.

a. EXCEPTION: Railroad Company has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.

All employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee hired by Railroad Company which will work on Railroad Company property are required to have minimum CN Safety and Security Awareness training, in addition to undergoing a background check. This training and background check must be obtained through the eRailSafe.com website. If not done before, the contractor must contact e-RailSafe at 855-383-7434 to be issued a vendor number prior to accessing the noted website. Minimum information required of a Contractor, Grantee, Licensee, or Permittee and/or their contractor when contacting e-RailSafe is Name, Address, Telephone, Contact Person for State Projects, DOT Contract Number, and the AAR/DOT Number. This training is good for a period of two years.

- a. EXCEPTION: Railroad Company has exempted those employees of contractors providing paving services at a road crossing under construction or repair from this requirement.
- b. EXCEPTION: Railroad Company has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.

All employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee hired by Railroad Company, whose duties include and who are engaged in the inspection, construction, maintenance, or repair of railroad track, bridges, roadway, signal and communication systems, roadway facilities, or roadway machinery that will work foul of or have the potential to foul a live track are considered Roadway Workers under FRA regulations and CN Policy. They must complete the On-Track Safety Training course approved by Railroad Company and provided by R.R. Safety – AMR, P.O. Box 75, Lomira, WI 53048, telephone (920) 517-1677, email <u>rrsafetytraining@yahoo.com</u>. This training must be repeated at least once each calendar year.

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- a. EXCEPTION: Railroad Company has exempted those employees of contractors providing paving services at a road crossing under construction or repair from this requirement.
- b. EXCEPTION: Railroad Company has exempted those it classifies as "Delivery Persons" from this training. This will include contractors such as UPS, FedEx, trucking companies, etc. who merely access the property to supply materials or equipment.
- c. All the employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee who will operate on-track machinery or those who will provide protection for other employees and/or subcontractors of a Contractor, Grantee, Licensee, or Permittee must also be trained on CN US Operating Rules pertaining to their duties. They must take and pass the required examination. This training is good for a period of two years.
- d. "Potential to foul a live track" is considered, at a minimum, to be working within twenty-five (25) feet of the track; or as otherwise to be determined by CN Design & Construction Department.

The employees, subcontractors, and/or agents of the Licensee and/or its contractor shall qualify for, and make available for inspection to Railroad Company's employees or other authorized personnel at all times while on Railroad Company property, a photo identification issued by <u>www.e-railsafe.com</u>, along with at least one other government-issued form of identification. Licensee and/or their contractor shall bear all costs of compliance with the requirements of this Section. Railroad Company reserves the right to bar any of employees or agents of a Contractor, Grantee, Licensee, or Permittee and/or their contractor from Railroad Company's property at any time for any reason.

Email the above back to <u>iohn.dinning@cn.ca</u>

Revised 2016-11-01

SECTION 904 - NOTICE TO BIDDERS NO. 2812

CODE; (SP)

DATE: 09/01/2020

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SUBJECT: Traffic Signal and ITS Components

Bidders are hereby advised that all products selected for use on this project shall be in compliance with 2 CFR 200.216. No telecommunication and video surveillance equipment or services shall be manufactured by the following companies: Huawei Technologies Company, ZTE Corporation, Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, Dahua Technology Company, and any subsidiary or affiliate of these entities.

The Contractor shall provide a Certification Statement that the referenced product(s) is not manufactured by any of the following: Huawei Technologies Company, ZTE Corporation, Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, Dahua Technology Company, and any subsidiary or affiliate of these entities. (as per 2 CFR 200.216)

SECTION 904 - NOTICE TO BIDDERS NO. 2895

CODE: (SP)

DATE: 10/14/2020

SUBJECT: Exploratory Joint Cleanout

Bidders are hereby advised that work on this project shall consist of exploratory investigation of bridge joints to determine the appropriate level of repair and will include removal of any trash and debris (including, but not limited to, compacted dirt, vegetation and trash) located at any depth within the joint. Costs of this work will be absorbed in the cost of other items of work if further joint repair work is not required.

SECTION 904 - NOTICE TO BIDDERS NO. 2954

CODE: (SP)

DATE: 12/01/2020

SUBJECT: Reflective Sheeting for Signs

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

Temporary Construction Signs

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

Permanent Signs

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

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

SECTION 904 – NOTICE TO BIDDERS NO. 3117

CODE: (SP)

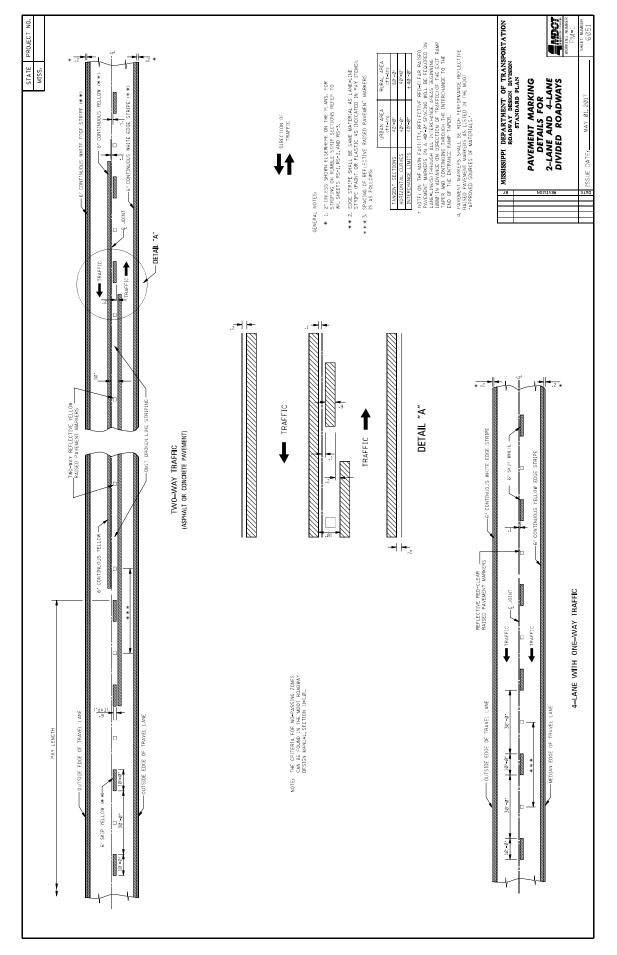
DATE: 02/23/2021

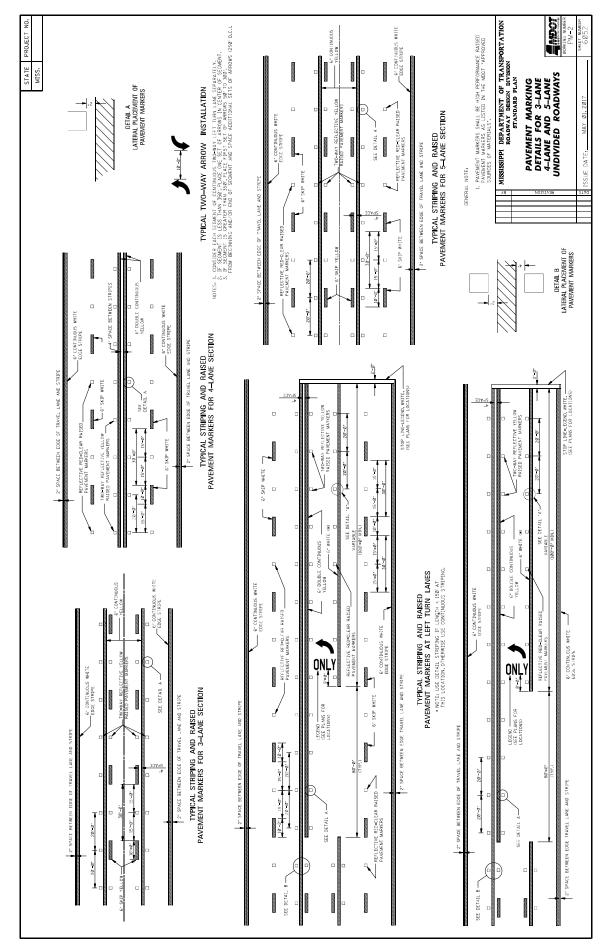
SUBJECT: Standard Drawings

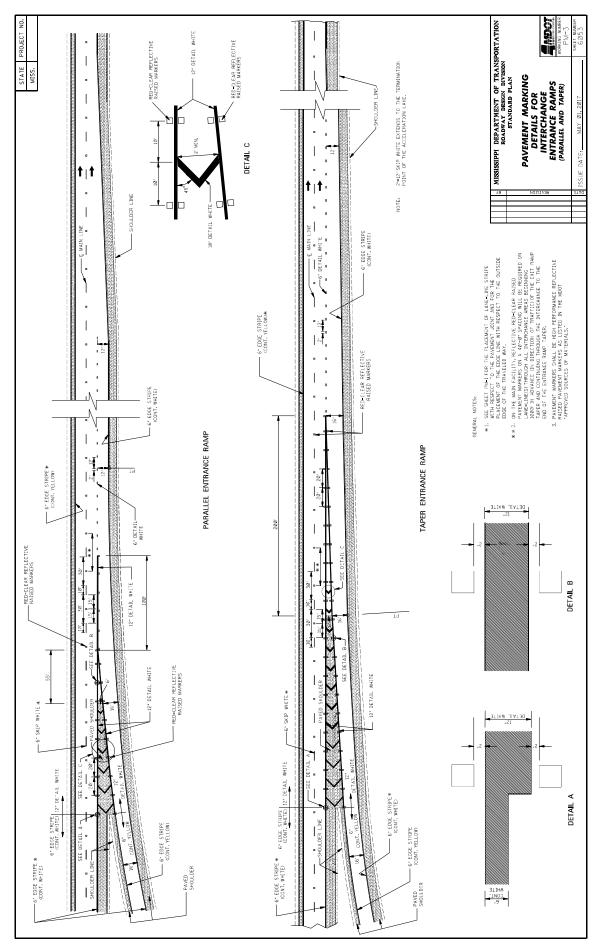
Standard Drawings attached hereto shall govern appropriate items of required work.

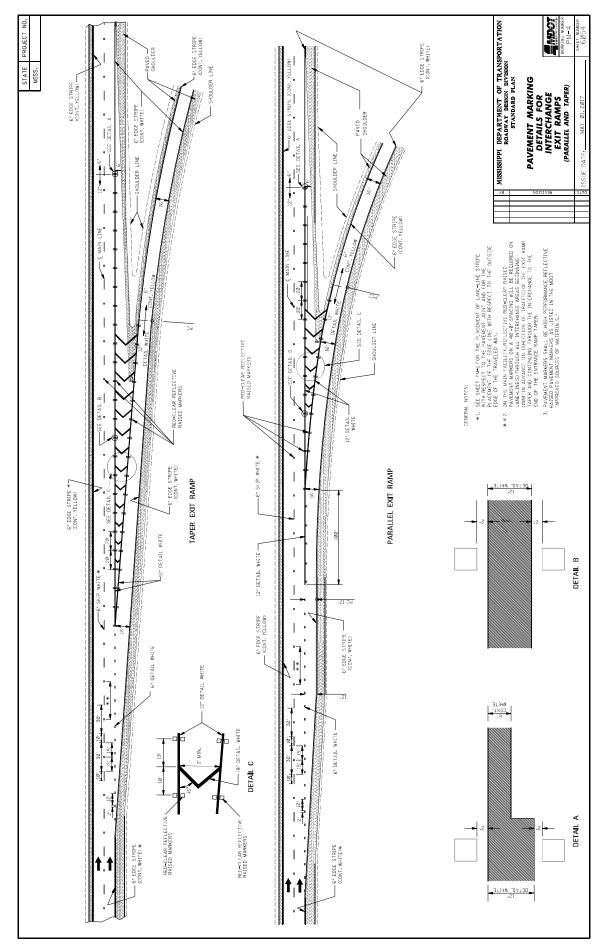
Larger copies of Standard Drawings may be purchased from:

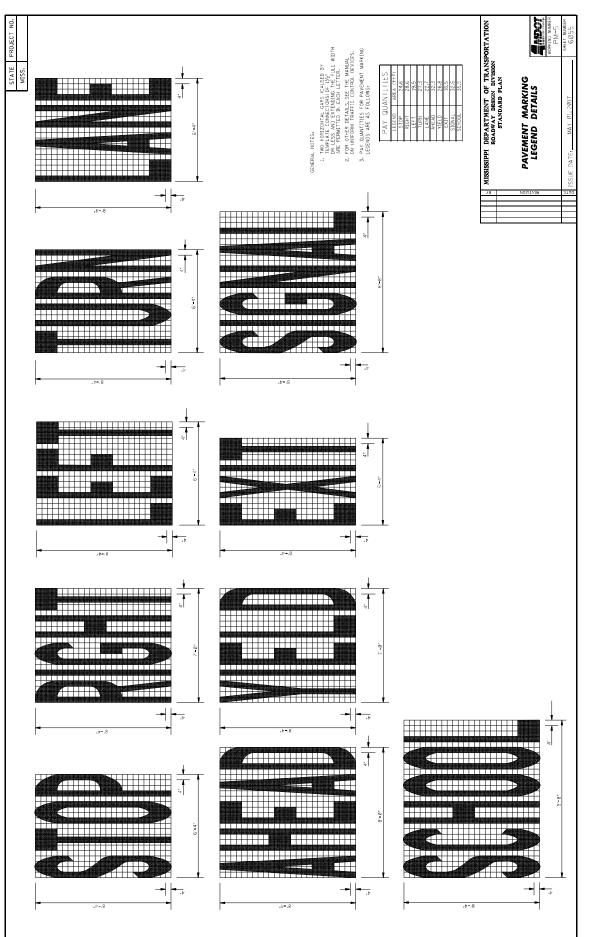
MDOT Plans Print Shop MDOT Shop Complex, Building C, Room 114 2567 North West Street P.O. Box 1850 Jackson, MS 39215-1850 Telephone: (601) 359-7460 or FAX: (601) 359-7461 or e-mail: <u>plans@mdot.state.ms.us</u>

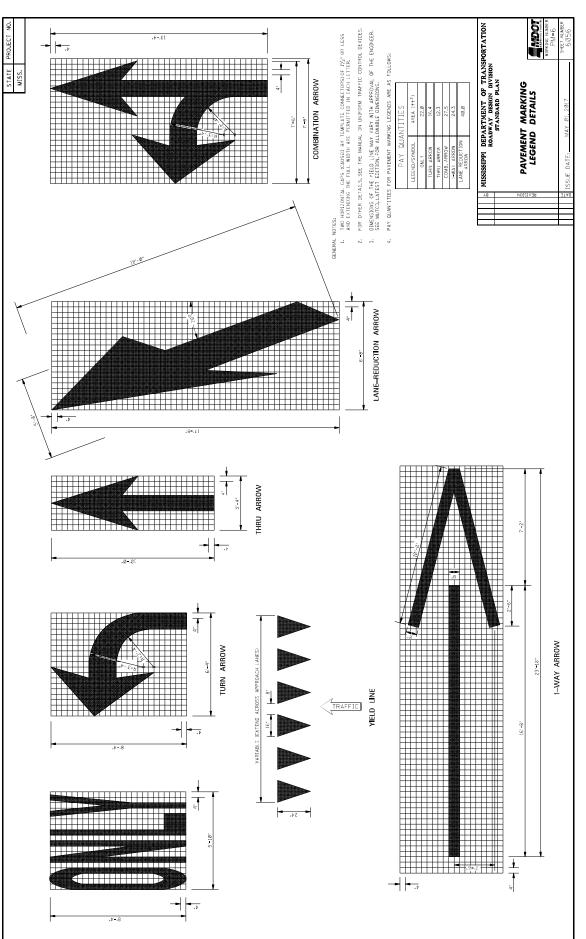






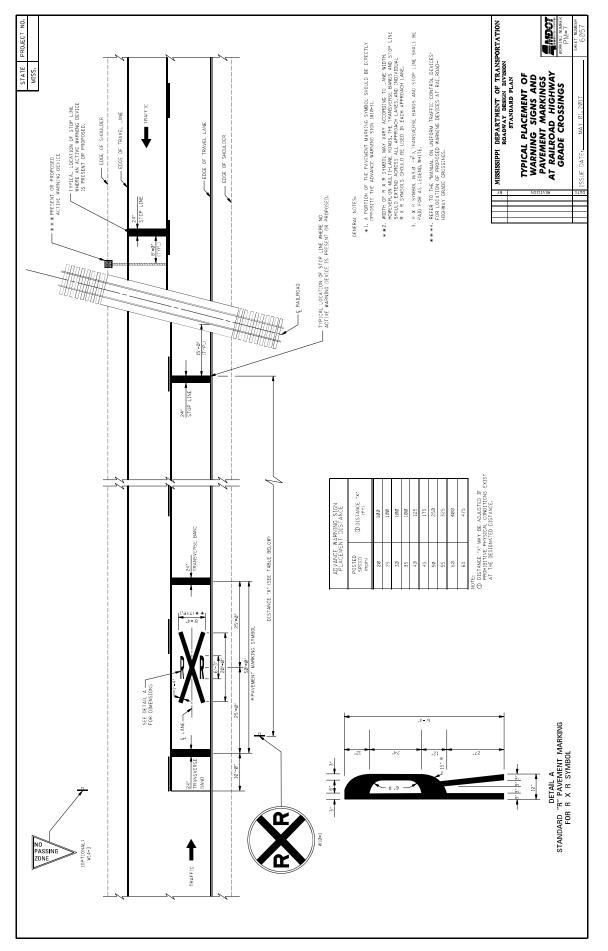


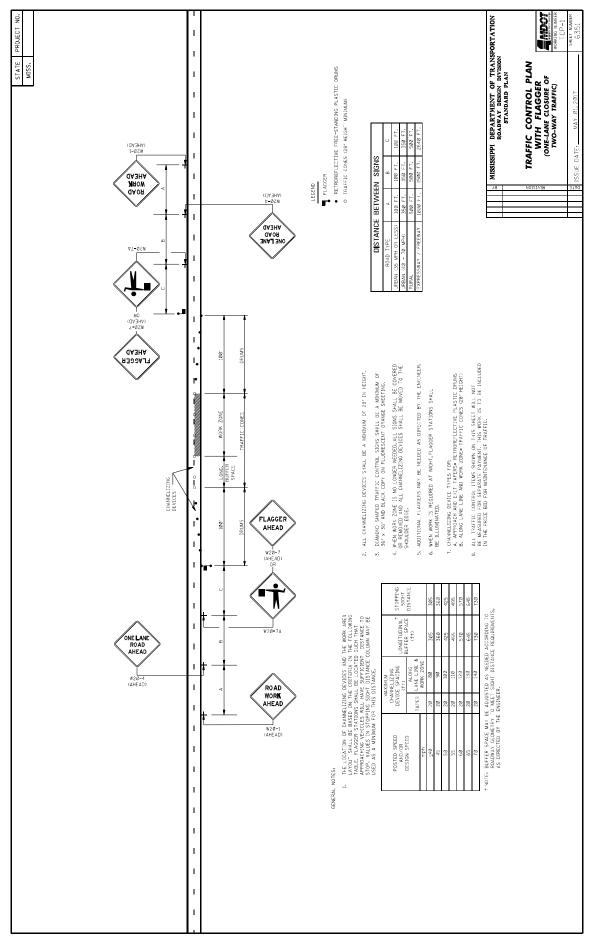


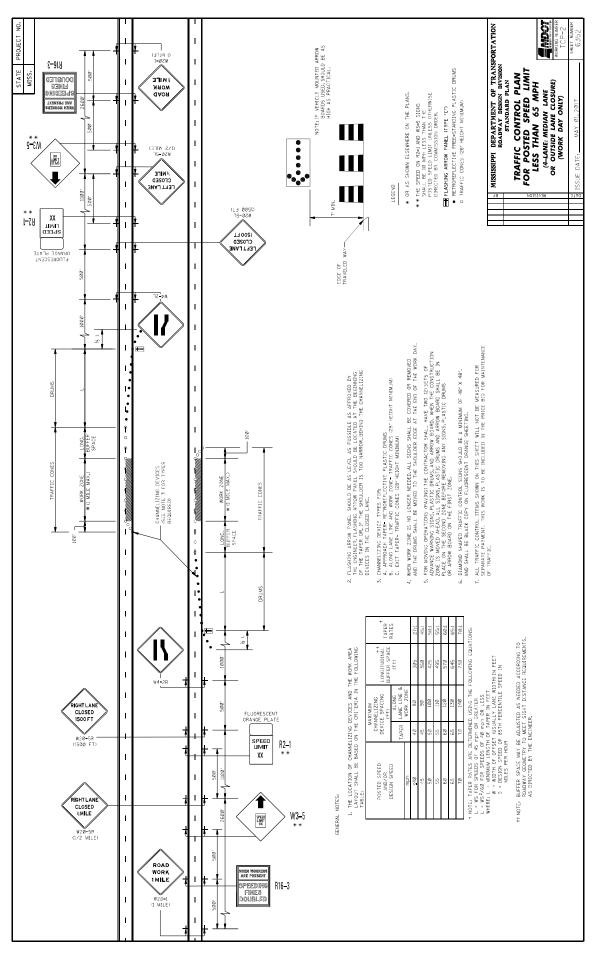


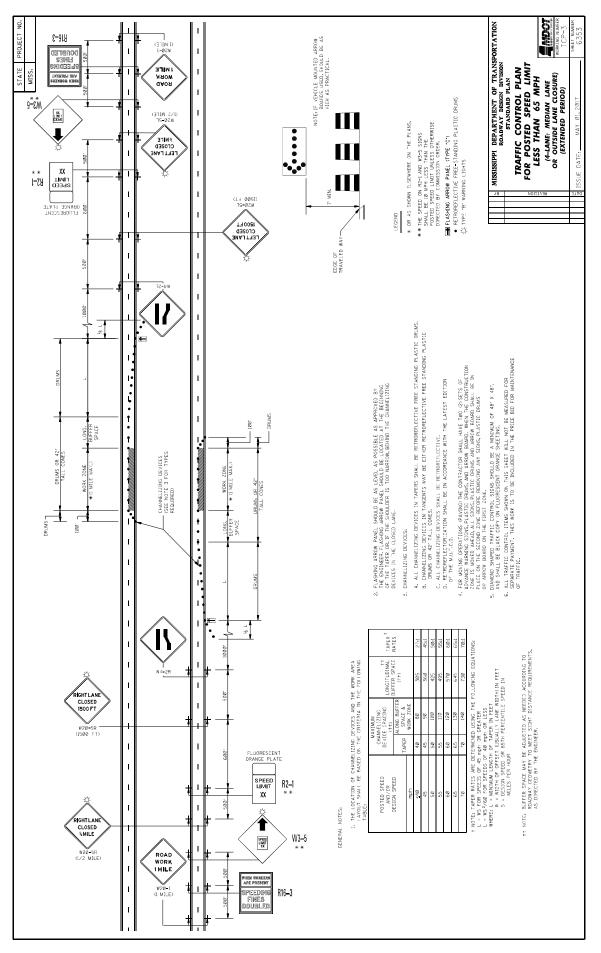
- 7 -

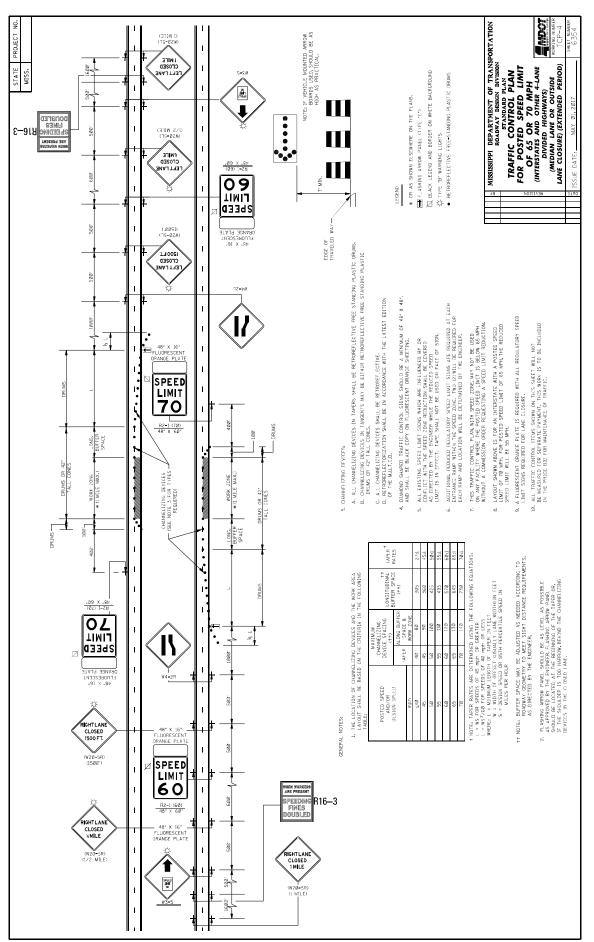
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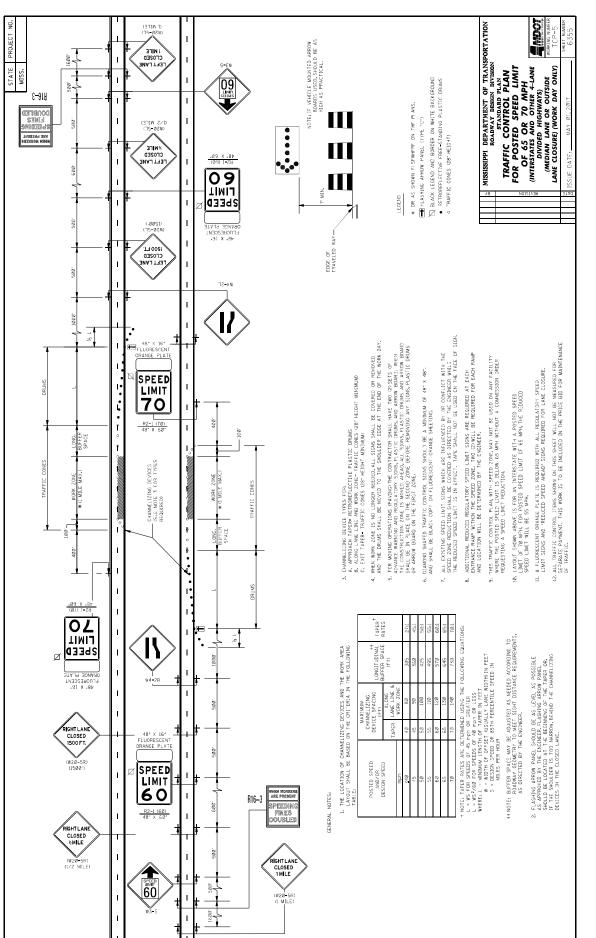


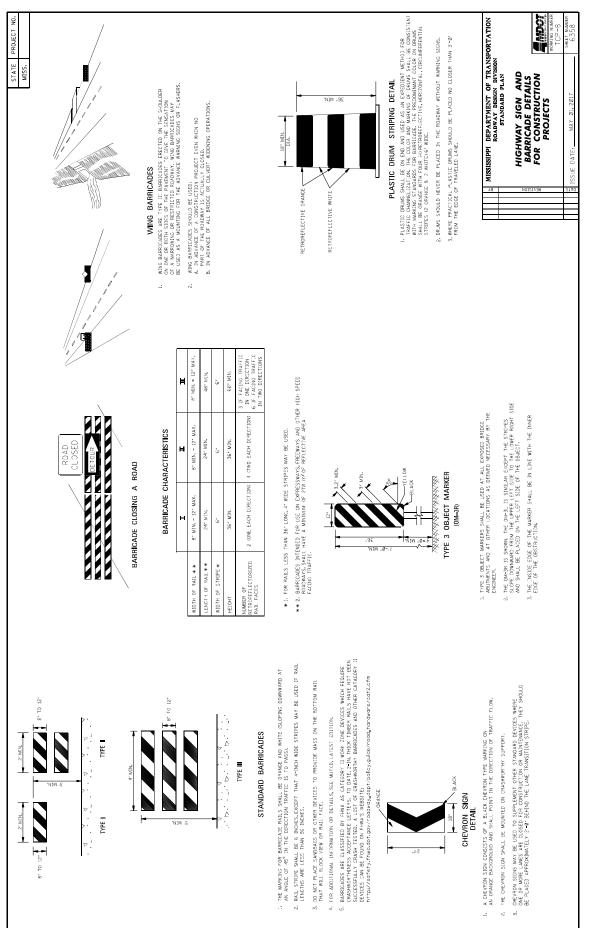




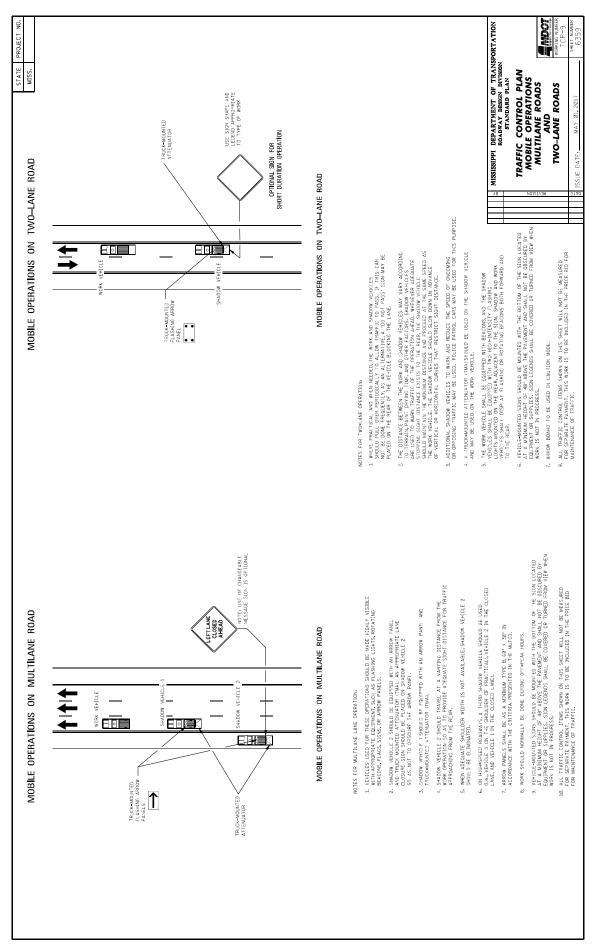


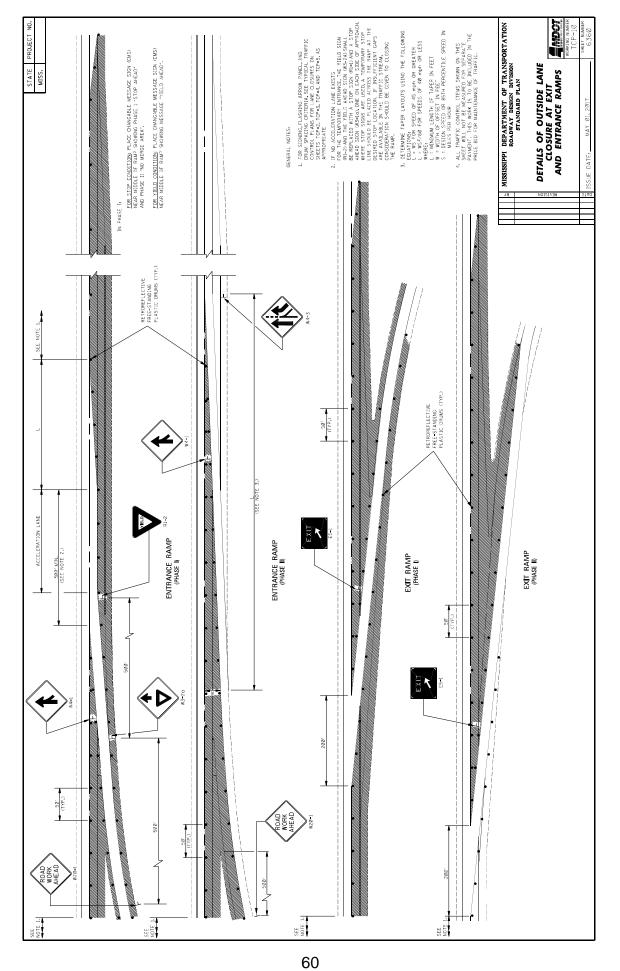


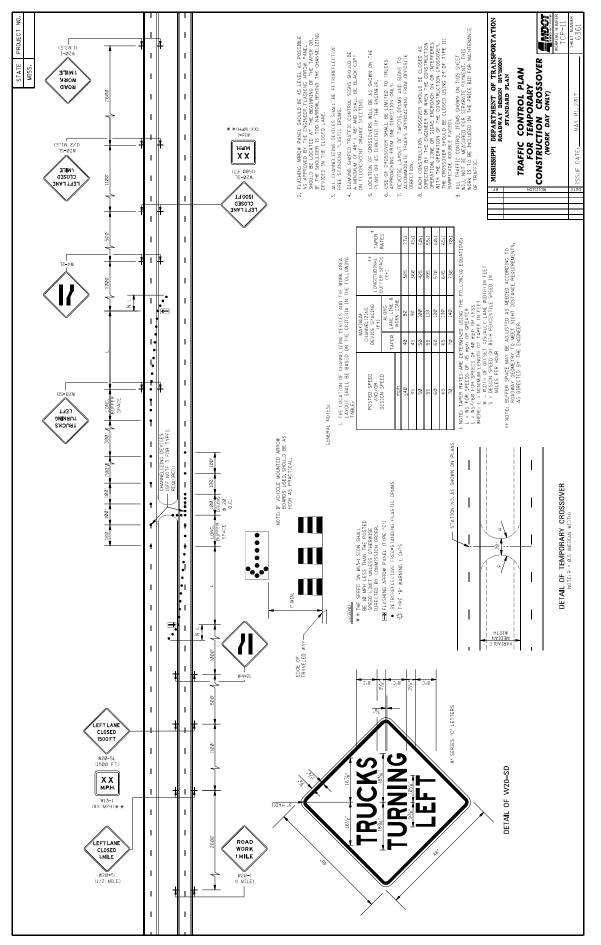




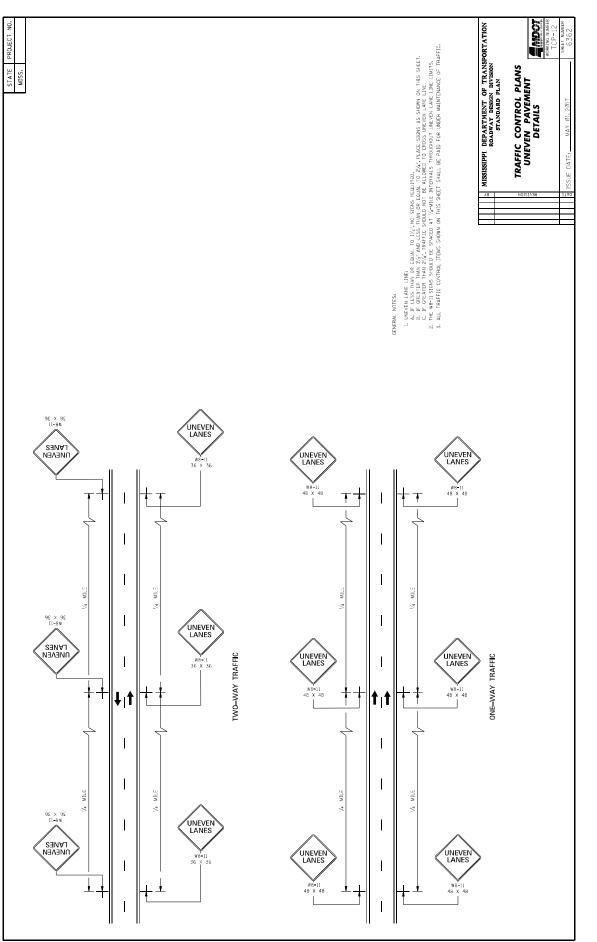
- 14 -

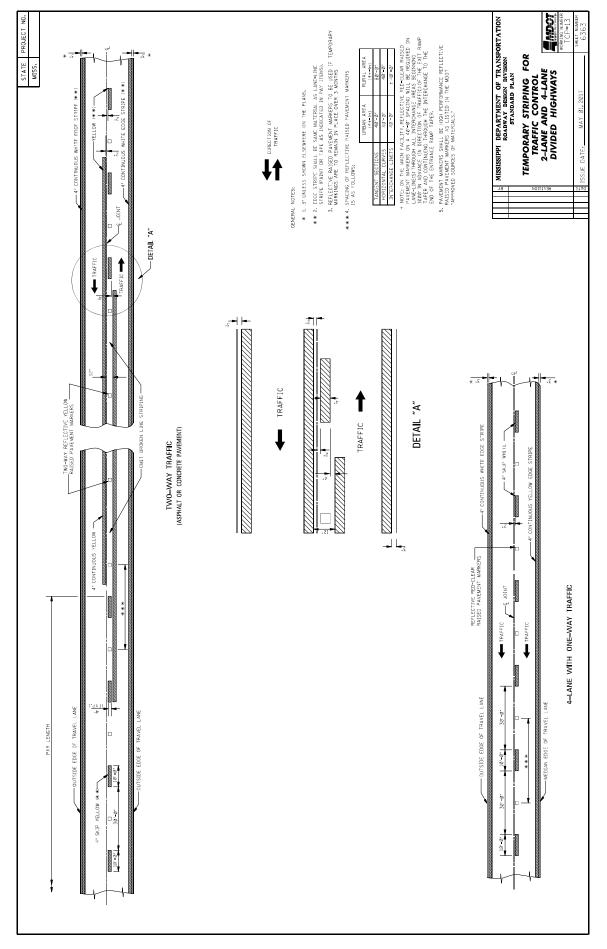


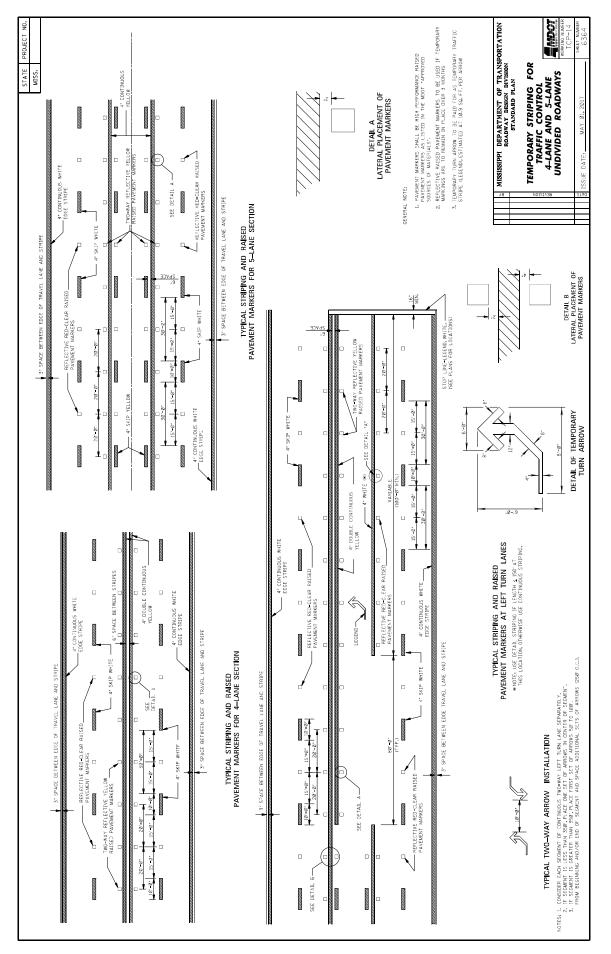


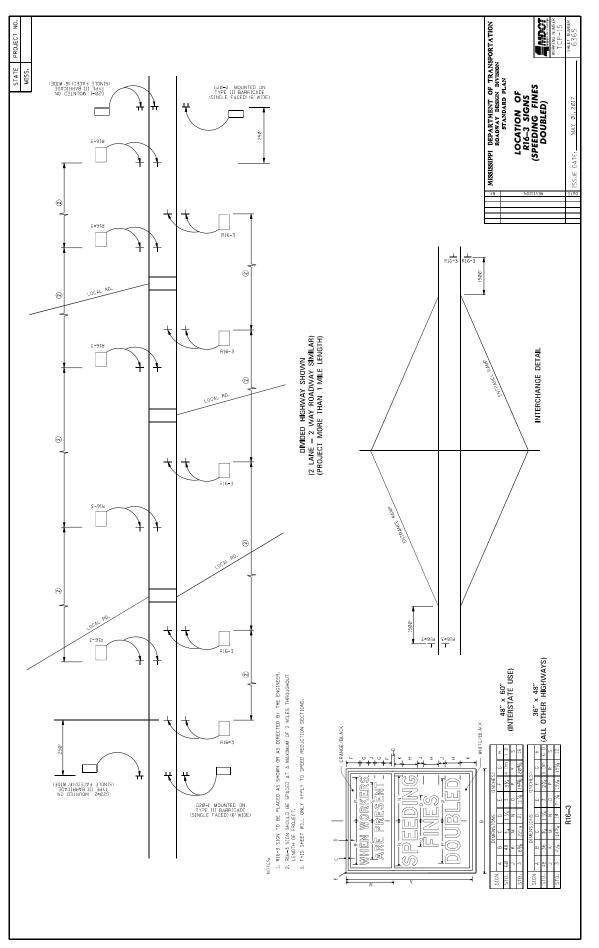


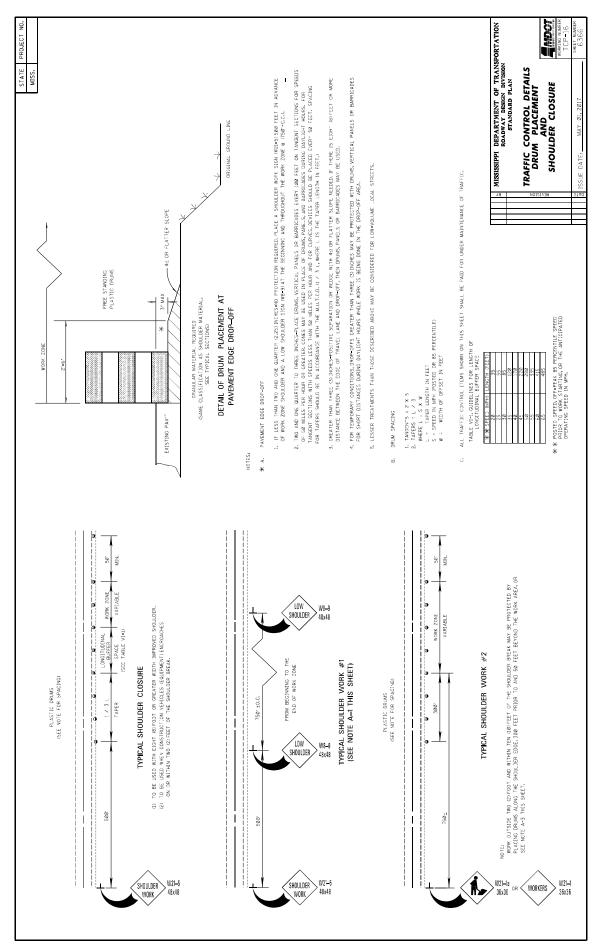
61



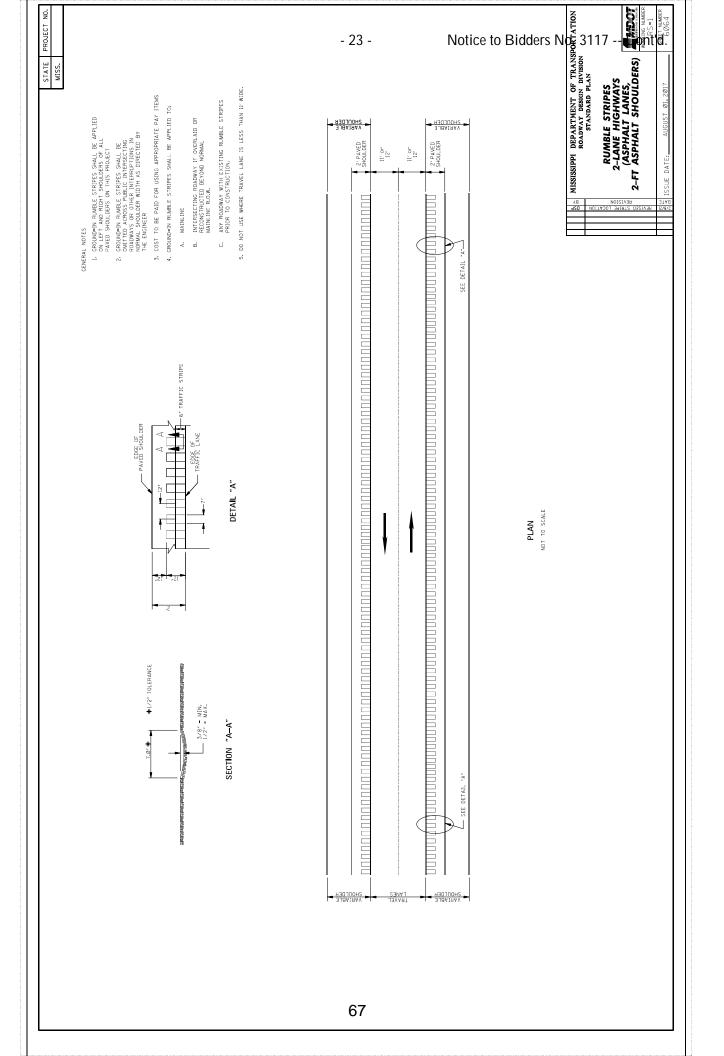


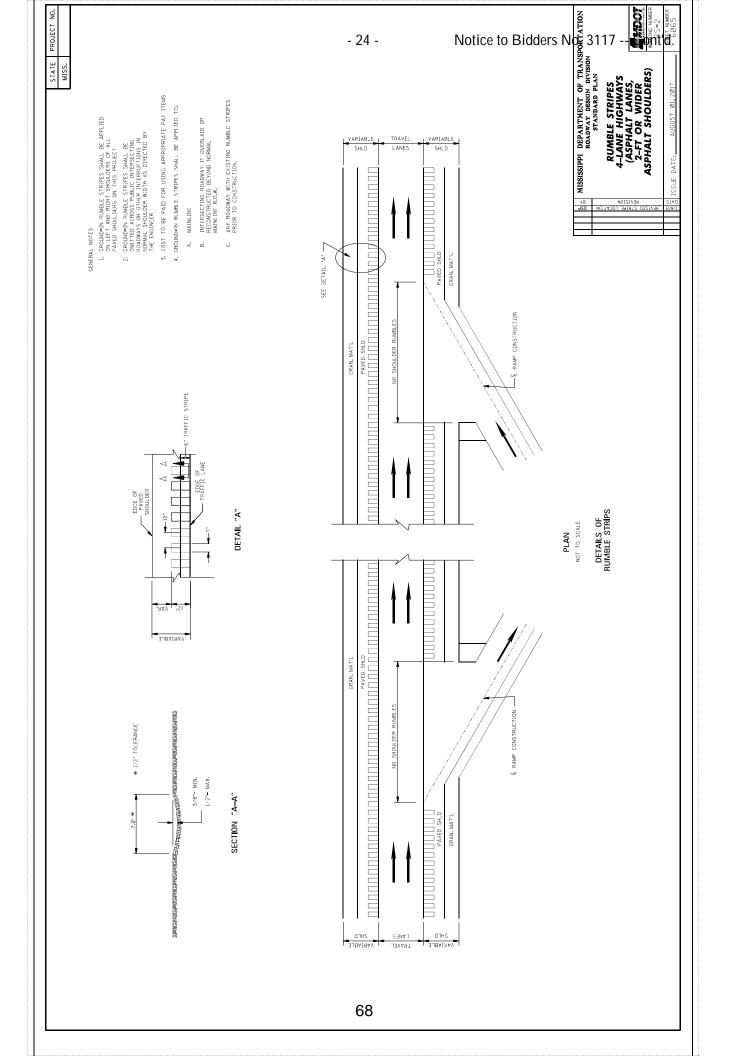


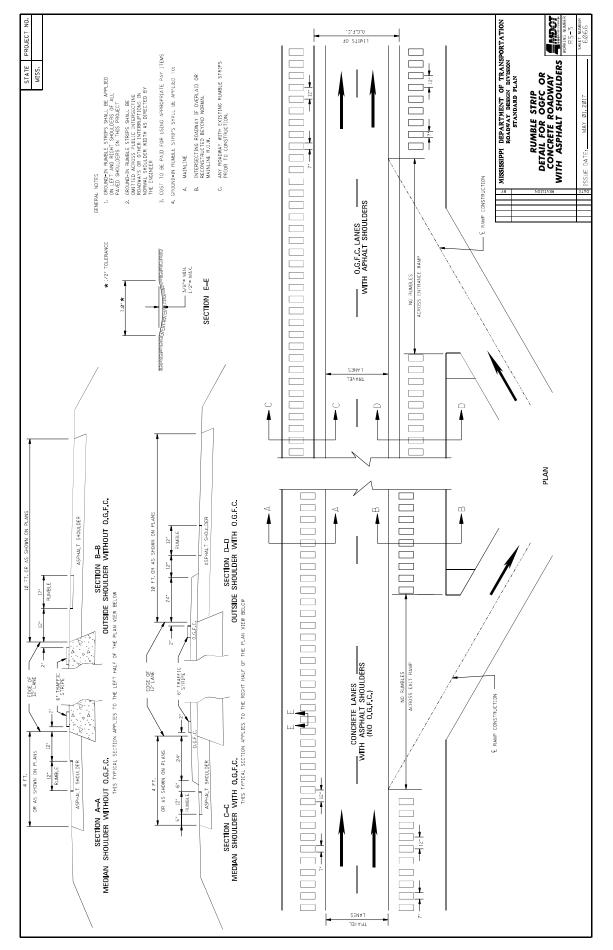




66







- 25 -

SECTION 904 - NOTICE TO BIDDERS NO. 3318

CODE: (SP)

DATE: 04/29/2021

SUBJECT: DBE Pre-Bid Meeting

Due to the COVID-19 pandemic and the Department not allowing visitors in the Administration Building at this time, the DBE Pre-Bid Meeting referenced on Pages 4 & 5 of Notice to Bidders No. 2654 will be held by <u>video conference only</u>. The meeting will be held at 2:00 P.M. on the day preceding the date of the bid opening using Zoom video conferencing software. Anyone interested in participating can download Zoom and connect to the meeting at the below link.

https://zoom.us/j/5548736403?pwd=SDh5S2hQSE5pNG5FOEkzR3NsUnBYQT09

Password (if prompted): 272147

For those unable to participate via Zoom, the below teleconference number may be used instead.

1-888-227-7517 Conference Code: 404496

SECTION 904 - NOTICE TO BIDDERS NO. 3388

CODE: (SP)

DATE: 05/10/2021

SUBJECT: Contract Time

PROJECT: SP-0008-03(058) / 108231301 – Hinds County

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 108.06. It is anticipated that the Notice of Award will be issued no later than <u>July 13, 2021</u> and the date for Notice to Proceed / Beginning of Contract Time will be <u>August 12, 2021</u>.

Should the Contractor request a Notice to Proceed earlier than <u>August 12, 2021</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.

<u>202</u> Working Days have been allowed for the completion of work on this project.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3389

CODE: (SP)

DATE: 05/12/2021

SUBJECT: Scope of Work

PROJECT: SP-0008-03(058) / 108231301 -- Hinds County

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".

A general description of the work required on the project is as follows:

Mill and overlay approximately 9.5 miles of existing asphalt pavement on US Highway 49 in Hinds County beginning 0.45 miles north of I-220 (BOP Station 59+00) and ending at the Madison County Line (EOP Station 571+25). Details of specific work are mentioned in the following sections.

Project wide work from Station 59+00 (BOP) to Station 571+25 (EOP) North Bound

Prior to beginning the milling and overlay operations, any failed areas in the existing pavement shall be removed full depth (12" to 14" and variable) and repaired full depth using 12.5-mm, HT, Leveling asphalt. Other repairs may be necessary as field conditions require and as directed by the Engineer. After failures have been repaired, milling and leveling at locations listed or as directed will be required for grade profile corrections using 9.5mm, HT, Leveling asphalt. Following pre-leveling operations, the top $1\frac{1}{2}$ " of existing asphalt on all mainline lanes and shoulders shall be milled. The mainline lanes shall be overlaid using $1\frac{1}{2}$ " of 9.5-mm, HT Polymer Modified, asphalt and the shoulders using $1\frac{1}{2}$ " of 9.5-mm, ST, asphalt. Where the cross slope is not equal to two percent (2%), the thickness of the overlay/milling operations shall be adjusted to correct the cross slope.

Project wide work from Station 59+00 (BOP) to Station 571+25 (EOP) South Bound

Prior to beginning the milling and overlay operations, any failed areas in the existing pavement shall be removed full depth (12" to 14" and variable) and repaired with full depth using 12.5mm, HT, Leveling asphalt. Other repairs may be necessary as field conditions require and as directed by the Engineer. Prior to milling the south bound lanes, which are constructed of a composite Asphalt/Jointed Concrete pavement, any failed JRCP joints shall be repaired full depth to a 3-foot width on either side of the joint (6' total width) by removal of the existing concrete. Failed JRCP shall be repaired full depth using 12.5-mm, HT, Leveling asphalt. After failures have been repaired, milling and leveling at locations listed or as directed will be required for grade profile corrections using 9.5-mm, HT, asphalt. Following pre-leveling operations, the top $1\frac{1}{2}$ " of existing asphalt on all mainline lanes and shoulders shall be milled. The mainline lanes shall be overlaid using $1\frac{1}{2}$ " of 9.5-mm, HT, Polymer Modified, asphalt and the shoulders using $1\frac{1}{2}$ " of 9.5-mm, ST, asphalt. Where the cross slope is not equal to two percent (2%), the thickness of the overlay/milling operations shall be adjusted to correct the cross slope.

- 2 -

General Notes: These general notes are applicable to all sites.

Milling

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

Where milling is required, the Contractor shall provide outlets in the existing shoulders at sufficient intervals to prevent pooling or standing water on the milled surface. The cost of which shall be absorbed in other items bid.

Milling and paving operations shall be performed such that a -2% slope from centerline is provided in normal crown roadway sections. Superelevation through curves shall be maintained as it currently exists or improved as directed. Where slope correction is required correction will be made by milling, paving, or combination thereof as directed by the engineer.

Milling of driveway pads shall be conducted in a manner to prevent gouging or otherwise affecting the roadway pavement structure and slope. Milling of driveway pads shall not be done in simultaneous path with main line milling.

Traffic will be allowed to run on the milled surface for a maximum of five (5) days. Any surface not covered before the allowable time will result in a fine for any full or partial day exceeding five (5) days. Fine milling shall be performed in accordance with the attached drawings. This work shall be applied on all mainline tie-ins, driveway pads, county roads, and etc. Traffic will be allowed to run on all milled tie-ins not exceeding thirty (30) days.

Temporary pavement joints (paper joints) shall be at least three (3) paper-widths long shall be used at all milled tie-ins and shall be adequately maintained. <u>Approved mix designs must be on hand prior to milling</u>. Fine milling operations will not commence until such time that, in the opinion of the Engineer, weather conditions have been consistently suitable enough to allow the placement of the asphalt pavement after the milling operations.

Paving

Prior to beginning the milling and overlay operations, any failed areas in the existing pavement shall be removed full depth (12 3/8" to 14 7/8" and variable) and repaired with 12.5-mm, HT, Leveling, asphalt. Other repairs may be necessary as field conditions require and as directed by the Engineer. Payment for removal of failed areas shall be made under pay item 202-B: Removal of Asphalt Pavement, Failed Areas. Payment for saw cutting of failed areas shall be paid under pay item 503-C: Saw Cut, Full Depth. Milling full depth shall also be an acceptable means of removing failed areas should a Contractor elect not to saw cut. Milling for removal of failed areas.

If traditional excavation methods are used, the removal area shall first be saw cut full depth including concrete, where applicable, to create a neat line and prevent damage to the adjacent

pavement structure. Payment for saw cuts will be made using the appropriate items. If milling techniques are used, the area will not require saw cuts but care should be exercised to create a neat removal line and to prevent damaged to the adjacent pavement structure. If saw cuts are used in conjunction with milling, payment will be made using the appropriate pay items. Payment will not be made for saw cuts that are not performed.

- 3 -

Prior to milling the south bound lanes, which are constructed of a composite HMA/Jointed Concrete pavement, any failed JRCP joints shall be repaired to full depth to a 3-foot width on either side of the joint (6' total width) by removal of the existing concrete. Failed JRCP will be repaired to full depth using 12.5-mm, HT, Leveling, asphalt. A table showing exact locations of the joint repair is attached. No other joint repairs will be required outside of the locations listed in the attached table unless otherwise approved by the District Construction Engineer.

Additionally, prior to mill/overlay operations, all transverse joints in the JRCP shall be cleaned to full depth. Any cracked and broken pieces of existing asphalt within one foot (1') of each side of the joint shall be removed during cleaning, and replaced using 12.5-mm, HT, Leveling, asphalt.

Publicly maintained roads and streets shall be milled and paved to the existing right-of-way. Privately owned entrances shall be paved to the shoulder line as per the included typical drawing. Pads shall be shaped horizontally and vertically to prevent excessive drop-offs. All residential pads exceeding a 2" drop off from the edge of pavement to the pad shall be corrected before the end of the day using paper joints to minimize damage to vehicles.

All ramps/loops at the I-220/US 49 interchange shall be omitted and will not be paved.

Intersecting roads and channelized intersections at Northside Drive, W. County Line/Kickapoo Road, MacLean Road, Pinehaven Drive, Green's Crossing Road, and Kennebrew Road shall be milled/overlaid accordingly. The Contractor shall mill 1¹/₂' to EOM and place 1¹/₂" of 9.5-mm, HT, asphalt. RPM's shall be placed on the edge of mainline, along the radius, and along the county roads per policy.

Granular Shoulder Material

Where applicable, the existing shoulders shall be raised to match the new pavement elevation by placing variable depth granular material (Class 5, Group C) on the existing shoulders. Placement of the granular material on the finished asphalt course shall not be permitted. The material shall be bladed, rolled, and compacted to a finished slope of four percent (4%). Placement of this material shall be performed to provide a uniform and compacted shoulder with a minimum depth and width of material placed. Shoulders with adequate shoulder material in place shall be bladed to a slope of four percent (4%). The cost of blading will be an absorbed item and is not to be included in the price of pay items bid.

On a daily basis, the Contractor shall pull shoulder material up to edge of asphalt to maintain 2inch or less drop off. Granular material (Class 5, Group C) shall be provided around residential pads to prevent shoulder drop-offs as directed and shall be placed in a timely manner. Drop-offs exceeding $2\frac{1}{2}$ " shall be corrected within two (2) calendar days of placement of pad. Stabilizer aggregate shall be used as directed by the Engineer.

- 4 -

Removal of the existing shoulder material shall be coincident with the milling/overlaying operation to prevent the possible ponding of water. No payment will be made for blading or removal of the existing shoulder material. Any material excavated from the existing shoulder shall be used to raise the existing shoulder to match the new pavement elevation and any surplus material shall be spread along the edge of the shoulders, fore slopes, or other adjacent areas as directed by the Engineer. The cost associated with surplus material will be absorbed in other items bid. Material which cannot be placed in adjacent areas and deemed to be excess excavation by the Engineer shall be removed under pay item 203-G: Excess Excavation.

Temporary and Permanent Pavement Markings

Temporary traffic stripe will be required immediately after the required overlay/milling and prior to opening area to traffic. Temporary stripe shall be placed in the same location and configuration as the permanent stripe.

If temporary stripe is offset, the Contractor shall conduct operations in a manner to insure the final temporary stripe is placed at the required location of the permanent stripe. If removal of temporary offset stripe is required in order to achieve the correct location and alignment of permanent stripe, the cost of removal will be absorbed in other items bid. Placing double temporary centerline will not be allowed.

Temporary striping shall conform to finished stripe specifications for alignment, neatness, and straightness.

All permanent striping will be double-drop thermoplastic. Edge lines shall be placed to accommodate the lane widths shown on the applicable typical sections unless prevented by field conditions. Thermoplastic pavement marking thickness shall be a minimum of 90 mils for center lines, edge lines, lane lines, gore areas, turnouts, and county roads. All other thermoplastic pavement markings shall be a minimum of 120 mils.

The use of short strips of traffic tape will not be allowed unless approved by the Engineer.

Permanent pavement markers shall be placed in accordance with the attached drawings and Standard Drawings. Two-way yellow markers shall be placed on two-way roads. Two-way clear markers are to be placed on county roads as shown on attached drawings.

Rumble strips shall be placed throughout the project according to standard specifications and per attached drawing. Payment for rumble strips will be made under pay item 423-A: Rumble Stripe, Ground in.

Guardrail

Guard rail pads and shoulders shall be paved with 9.5-mm, HT, asphalt prior to placement of the new guard rail. Guardrail pads shall extend two feet (2') behind the guardrail post at all existing guardrail locations maintaining guardrail height requirements. Prior to placement of the

guardrails and asphalt, 3" and variable depth of existing shoulder material shall be removed. Any excess material excavated from the existing shoulder shall be used to raise the existing shoulder to match the new pavement elevation and shall be spread along the edge of the shoulders, fore slopes, or other adjacent areas as directed by the Engineer. The cost associated with this excess material shall be considered an absorbed item.

- 5 -

The existing guard rail and terminal end sections shall be removed and replaced as directed. The new guard rail shall be placed in the same location as the existing railing and the height shall meet the approved departmental standards (Currently 25" to Center). All removed guard rail shall be delivered to Whitfield Maintenance Facility at no additional cost to the State. A 24-hour notice will be required prior to delivery. Any removed metal post, concrete anchors, hardware, and wooden posts shall be disposed of by the Contractor at no additional cost to the State. All holes left by post shall be filled and compacted as directed by the Engineer prior to placing the new asphalt pad. Payment for the removal and replacement of guard rail and terminal end sections shall be made under the appropriate pay items for guard rail and terminal ends.

Guardrail lengths are based on terminal end length of 37.5 feet. If terminal of length other than this is used, an adjustment in w-beam length will be required.

Delineators shall be required on all guardrails within the project. Existing guardrail delineators shall be removed and replaced. The cost of removal shall be included in the price of other items bid.

The asphalt guardrail pad shall be removed or milled and repaved prior to the placement of the new guardrail. Removal of the guardrail pad shall be paid for using the milling pay item. Guardrail posts shall not be completely surrounded by pavement

Permanent Signs

Permanent signs as listed on the attached tables shall be replaced. Unless otherwise listed in the attached tables, existing posts, anchors, angles/bolts, and other components shall be reused. The Contractor shall use new bolts, screws, washers, nuts, etc. of the required sizes in the installation of signs. New signs shall be installed on the same day the existing sign is removed.

Traffic Signals

Vehicle loop detectors at listed locations shall be replaced with radar detection sensors. Radar units shall be installed per manufacturer's recommendations. The Contractor may remove existing detection loop cable, if necessary. Cable quantities may be adjusted based on radar locations per manufacturer recommendations. Removal of vehicle loop detection cable shall be absorbed into other items bid.

Traffic Control

The Contractor shall erect and maintain construction signing and provide all signs and traffic control devices necessary to safely maintain traffic around and through the work areas in accordance with the Traffic Control Plan and the MUTCD. The cost is to be included in the price bid for pay item 618-A: Maintenance of Traffic. Fluorescent orange sheeting shall be used on all construction and traffic control signs except those designated in the plans to be black

legend and border on white background. Standard roadside construction signs and barricades will be paid for using the appropriate pay items.

- 6 -

Roadside construction signs, barrels, etc. shall be placed in accordance with the attached drawings or as directed by the Engineer. W20-1 signs shall be placed on all public road approaches as shown or as directed.

On a daily basis, the Contractor shall remove all debris from within the roadway and a 30-foot clear zone which, in the opinion of the Engineer, is a hazard to the traveling public. This activity shall begin with the beginning of work or the beginning of the contract time, whichever comes first. No direct payment will be made for the debris removal. Debris removal costs shall be included in the prices of other items bid. Failure of the Contractor to remove the debris as prescribed herein shall be just cause for withholding the monthly progress estimate payment or suspending active operations until the debris is satisfactorily removed by the Contractor.

Potholes that may exist shall be patched in a timely manner from the date of Notice to Proceed until the date of the Final Maintenance Release. Cracks of significant depth or depressions in the existing surface which, in the opinion of the Engineer, may cause reflection cracking shall be filled with asphalt pavement immediately prior to overlay operations. Patching of potholes shall be considered an absorbed item.

Temporary asphalt joints (aka paper joints) shall be employed at all locations requiring traffic to traverse an uneven, transverse, pavement joint. Paper joints shall be a minimum of nine feet (9') in length and for the full width of the milled/paved surface. Paper joints shall be adequately maintained.

Miscellaneous Notes

It shall be the responsibility of the Contractor to protect existing structures such as pipes, inlets, aprons, bridges, etc. from damage which might occur during construction. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged by the Contractor during the life of the contract. No payment will be made for replacement or repair of damaged items.

Any signs, mailboxes, etc. that are in conflict with construction of this project shall be removed and relocated by the Contractor as directed by the Engineer. Any costs accrued by these conflicts shall be absorbed in other items bid.

Incidental work such as removing vegetation, shaping and compacting shoulders, removing and resetting signs and/or mailboxes, removing excess asphalt material, project clean-up, and other items of incidental work necessary to complete the project will not be measured for separate payment. Cost for incidental work will be absorbed in the prices of other items bid.

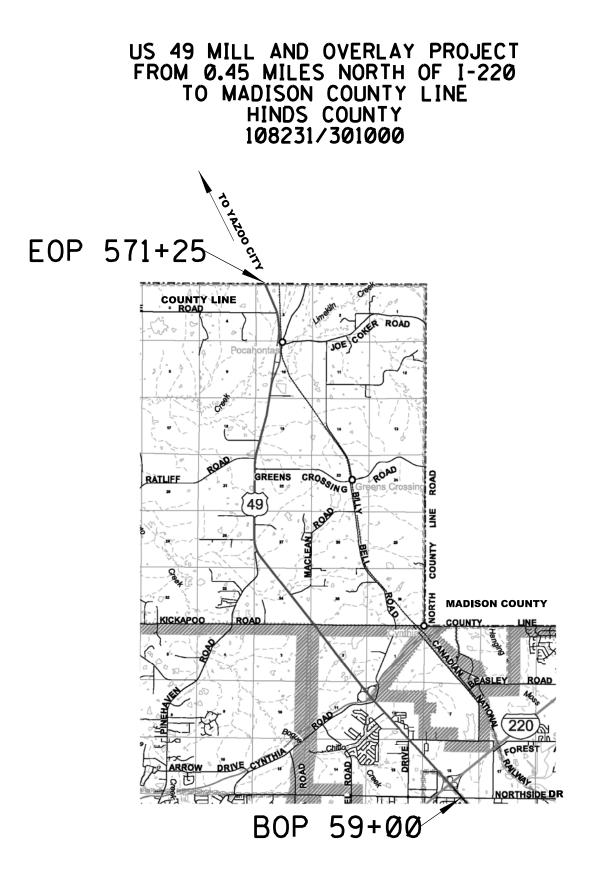
Existing raised pavement markers shall be removed prior to beginning the overlay operation. All costs associated with removing the existing pavement markers shall be included in the price for other items bid.

Prior to the final inspection, bridges, islands, and areas with curb shall be swept/cleaned. Care should be taken to prevent milled asphalt, asphalt debris, vegetative/granular debris, etc. from entering drainage structures or clogging other drainage ways. Disposal of material will not be measured for separate payments.

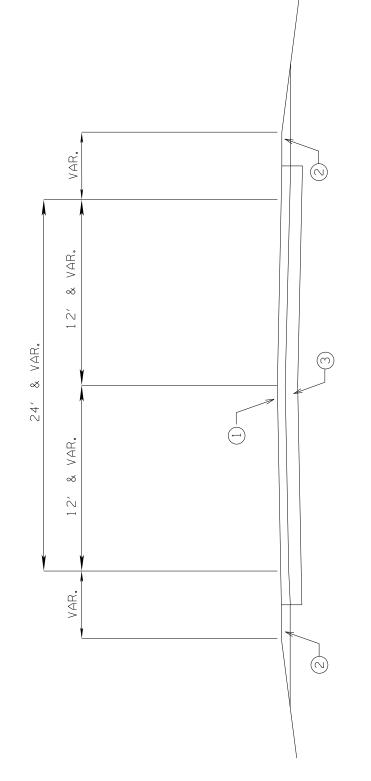
- 7 -

Following the overlaying operation the transverse joints in the pavement shall be sawed and sealed within seven (7) days. The details for sawing and sealing transverse joints for this section are in the Standard Specifications. The width of the sawing and sealing operation will be 14' on each side of centerline, unless otherwise directed by the Engineer, to prevent "sympathy cracking." It is the responsibility of the Contractor to locate and mark all existing joints that are to be sawed and sealed prior to the milling operation. The Contractor shall notify the Department when this is to take place so that they can oversee the work and determine the width that each joint will be sawed and sealed.

The existing pressure relief joints on Bridge 173.0B shall be removed, cleaned and replaced. All cost incurred to remove, clean, and replace these joints shall be paid for under pay item 907-824-PP: Bridge Repair, Pressure Relief Joint.

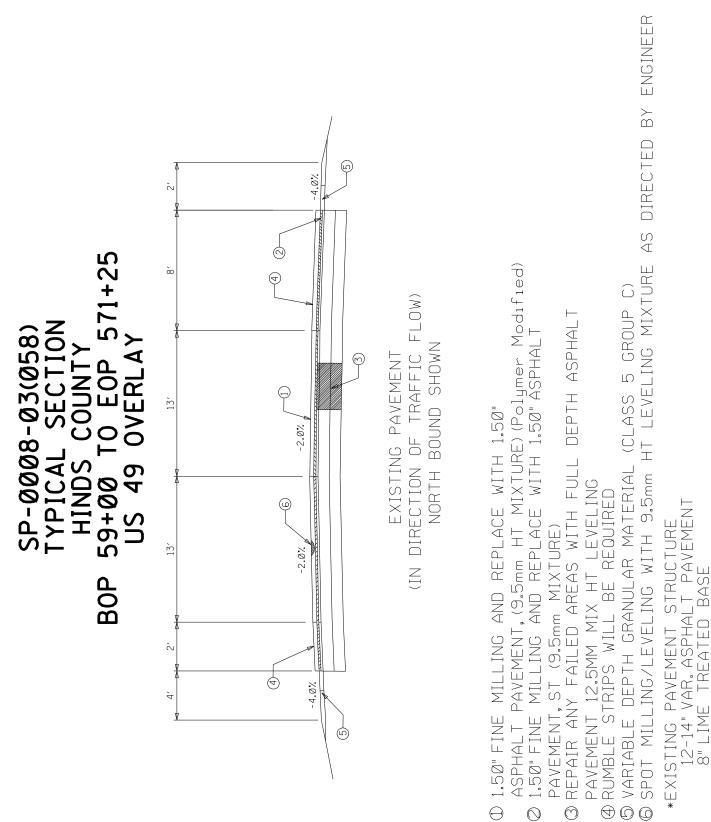


COUNTY	ECTION	OVERLAY	00010	ROADS
ŭ	SE	б	2	
VDS	<i>IVPICAL</i>	49	108231/3	OUNTY
UNIH	J	SN	10	Õ



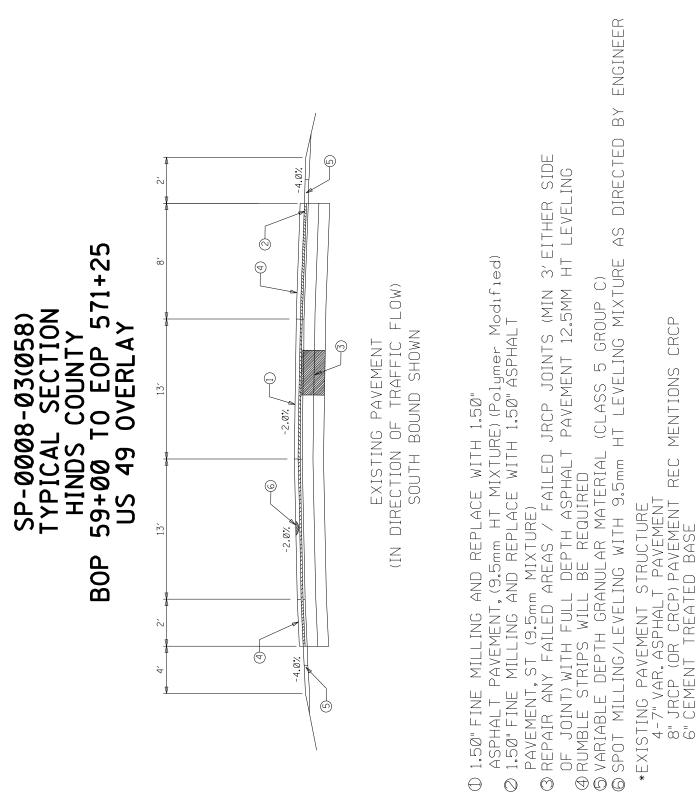
- 9 -

Mill and Overlay 11/2" Asphalt Pavement 9.5mm,HT
 C1.5, GRP. C As Required
 Existing Pavement Structure

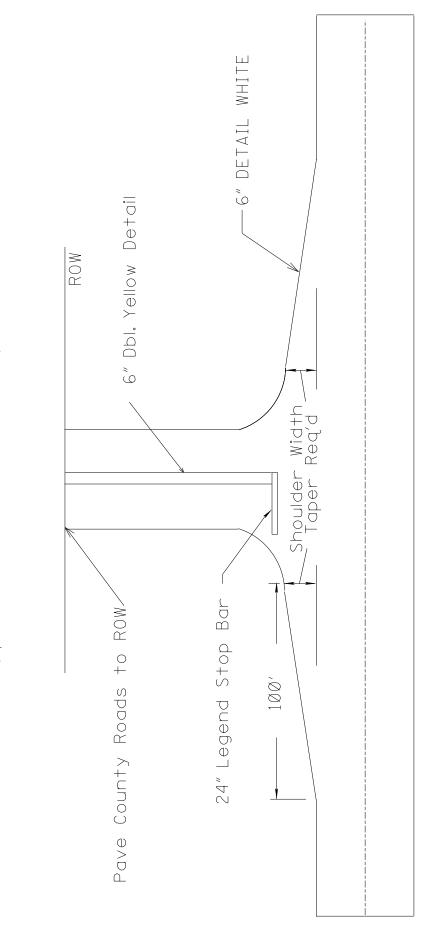


- 10 -

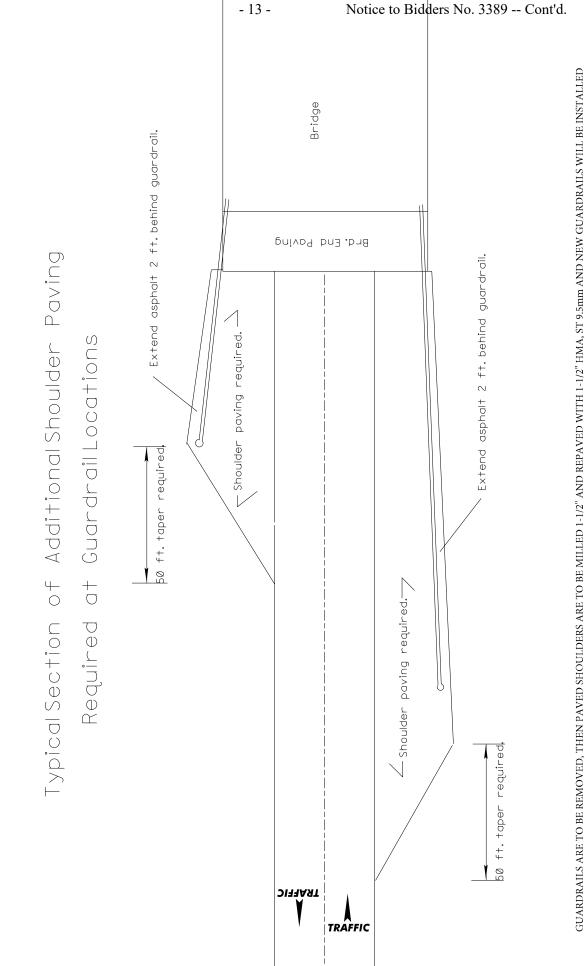
81



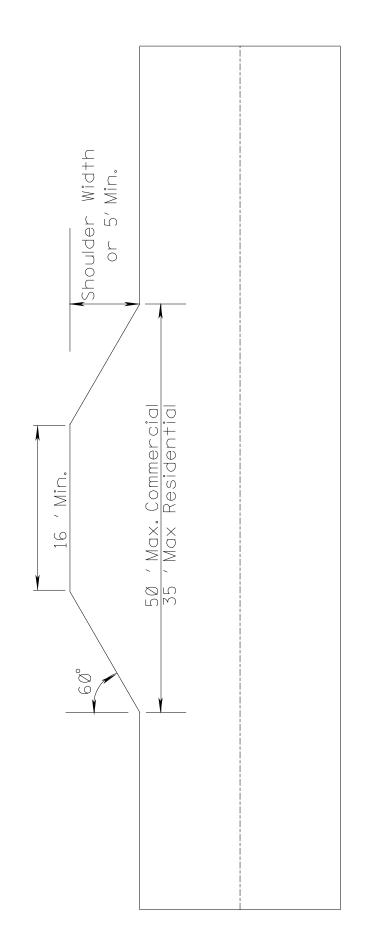
- 11 -







US 49 HINDS COUNTY 108231/301000



TYPICAL RAMP/PAD DETAIL

85

	5	.5-mm. HT.	Asphalt Pa	9.5-mm. HT. Asohalt Pavement. Polvmer Modified	vmer Mod	ified		
	,		40	403-D007				
Date	Station Number Direction LT/RT LN Length	Direction	LT/RT LN	Length	Width	Width Quantity (TON) Theoritical	Theoritical	OR/UR
	59+00-571+25	NB	LT/RT LN	LT/RT LN 50979.98	28		12936.169	12936.169 -12936.169
	59+00-571+25	SB	LT/RT LN	LT/RT LN 50979.98	28		12936.169	12936.169 -12936.169
					Totals	0	0 25872.338	

9.5-mm, HT, Asphalt Pavement	sphalt Pave	ment
40	403-A013	
Location	Size (SF)	Theo.
Crossovers	378090.000	3426.441
Driveway Pads	26892.000	243.709
County Roads	317025.000 2873.039	2873.039
Misc.	124281.000 1126.297	1126.297
	Total	7669.485

86

		9.5-1	9.5-mm, ST, Asphalt Pavement	alt Pavemei	ut			
			403-A015	15				
Date	Station Number	Direction	LT/RT LN	Length	Width	Direction LT/RT LN Length Width Quantity (TON) Theoritical OR/UR	Theoritical	OR/UR
	59+00-571+25	NB	NB RT Shoulder 50979.98	50979.98	8		3696.048 -3696.048	-3696.048
	59+00-571+25	SB	SB LT SHoulder 50979.98	50979.98	8		3696.048 -3696.048	-3696.048

		12.5-mr	n, HT, Aspł	12.5-mm, HT, Asphalt Pavement, Leveling	ent, Leveling	50		
			40	403-B001				
Date	Station Number	Direction	LT/RT LN	Length	Width	Station Number Direction LT/RT LN Length Width Quantity (TON) Theoritical		OR/UR
	Failed Areas			Full Structure Depth	re Depth		954.885	954.885 -954.885
	Punchouts			Full Structure Depth	re Depth		631.377	-631.377
					Totals	0	1586.262	

		L						
		nm-c.y	л, ні Aspna	9.5-mm, HI Aspnait Pavement, Leveling	t, Leveling			
			40	403-B010				
Date	Station Number Direction LT/RT LN Length Width Quantity (TON) Theoritical	Direction	LT/RT LN	Length	Width	Quantity (TON)	Theoritical	OR/UR
	Leveling			6" Average			2368.575	2368.575 -2368.575
							0.000	0.000
					Totals	0	0 2368.575	

7392.097

0

Totals

		907	-823-B001		
		Saw (Cut, Type 1		
Station	NB/SB	Lane	Length	Width	Quantity (LF)
BR 173.0B	NB	2 Er	nd Wall Join	ts 2 Cuts Each	156.00
BR 173.0B	NB		Pressure Re	lief Repair	156.00
	•	-		Total	312.00

- 16 -

		503	3-C010		
		Saw Cut	, Full Deptl	h	
Station	NB/SB	Lane	Length	Width	Quantity (LF)
570+43	SB	RL/LL	20	26	92.00
391+95	SB	RL/LL	10	26	72.00
349+15	SB	RL/LL	20	26	92.00
326+80	SB	LL	20	13	66.00
326+50	SB	RL	20	13	66.00
312+95-313+50	SB	RL/LL	55	26	162.00
310+65	SB	LL	10	13	46.00
297+10	SB	RL	20	13	66.00
256+95	SB	RL/LL	10	26	72.00
247+85	SB	RL/LL	10	26	72.00
198+45	SB	RL/LL	20	26	92.00
185+75	SB	RL	10	13	46.00
161+75	SB	RL/LL	10	26	72.00
139+00	SB	RL/LL	20	26	92.00
122+90	SB	RL/LL	10	26	72.00
105+25-105+75	SB	RL/LL	50	26	152.00
74+55	SB	RL/LL	20	26	92.00
				Total	1424.00
			10%	for Contingencies	1566.4

* 10% is added for contingencies for repairs as directed by the Engineer.

87

		Faile	d Areas			
Station	Direction	Lane	Length	Width	Sqaure Feet	Square Yards
59+00	NB	Shoulder	50	8	400	44.444
169+00-170+00	NB	RL/LL	100	28	2800	311.111
219+00-221+00	NB	RL/LL	200	28	5600	622.222
407+50-408+50	NB	RL/LL	100	28	2800	311.111
	Tota	I		,	11600	1288.889
	10% f	or Conting	encies			1417.778

	F	ull-Dept	h Joint R	epair		
Station	Direction	Lane	Length	Width	Sqaure Feet	Square Yards
570+43	SB	RL/LL	20	26	520	57.778
391+95	SB	RL/LL	10	26	260	28.889
349+15	SB	RL/LL	20	26	520	57.778
326+80	SB	LL	20	13	260	28.889
326+50	SB	RL	20	13	260	28.889
312+95-313+50	SB	RL/LL	55	26	1430	158.889
310+65	SB	LL	10	13	130	14.444
297+10	SB	RL	20	13	260	28.889
256+95	SB	RL/LL	10	26	260	28.889
247+85	SB	RL/LL	10	26	260	28.889
198+45	SB	RL/LL	20	26	520	57.778
185+75	SB	RL	10	13	130	14.444
161+75	SB	RL/LL	10	26	260	28.889
139+00	SB	RL/LL	20	26	520	57.778
122+90	SB	RL/LL	10	26	260	28.889
105+25-105+75	SB	RL/LL	50	26	1300	144.444
74+55	SB	RL/LL	20	26	520	57.778
	Tota	_ I			7670	852.222
	10% f	or Conting	encies			937.444

* 10% is added for contingencies for repairs as directed by the Engineer.

			Leveling			
Station	Direction	Lane	Length	Width	Sqaure Feet	Square Yards
564+25-571+25	NB	RL/LL	700	36	25200	2800.000
236+75-243+00	SB	RL/LL	625	36	22500	2500.000
205+50-208+15	SB	RL/LL	265	36	9540	1060.000
155+05-156+05	SB	RL/LL	100	36	3600	400.000
140+75-142+00	SB	RL/LL	125	36	4500	500.000
					0	0.000
	To	tal			65340	7260.000

- 18 -

		SIGN	SIZE	AREA		PIPE POSTS (If)	rS (If)	U P	U POST (If)	(7/16" x 2-1/2") BARS	Class "B"	
STATION	NB/SB	NUMBER	(in. x in.)	(sf)	3"	3-1/2"	4" 5"	2 lb/ft	3 lb/ft	3.72 lbs/lf	Conc (cy)	REMARKS
16+00	NB	R1-2	36X36x36	4.5					12			
126+25	NB	S1-1	36x36	6.75					12			Knocked Over
457+25	NB	R2-1	24x30	5					24			
457+25	NB	R2-1	24x30	5					24			
543+95	SB	R1-2	36	4.5	1				12			Yield onto SB
543+96	SB	R6-3A	30X24	5	I							Divided HWY on Stop assembly
543+98	SB	R6-1R	36x12	3	1				12			One way in median on left
478+55	SB	R6-1L	36x12	3					12			Directly across from Entrance
421+90	SB	R1-2	36	4.5					12			Yield onto SB
421+90	SB	R6-1R	36x12	3	-				12			One way Right
421+90	SB	R6-1L	36x12	3	I				12			One way Left
421+90	SB	R6-3A	30x24	5	-							Divided HWY on Stop assembly
405+25	SB	R1-2	36	4.5	-				12			Yield in Median
405+25	SB	R6-1R	36X12	3					12			Oneway Right left median
405+25	SB	R6-1R	36X12	3	-							Stop Assembly
405+25	SB	R6-3A	30X24	5								Stop Assembly
395+50	SB	R6-3A	30X24	5	-							Divided HWY on Stop assembly
395+50	SB	R6-1L	36x12	3	ı				12			Directly across from Entrance
395+50	SB	R6-1R	36x12	ε	,				12			One way in median
374+00	SB	R6-1R	36x12	ñ	,				12			One way in median
374+00	SB	R6-1R	36X12	З	,							Stop Assembly
374+00	SB	R6-3A	30X24	5	-							Stop Assembly
351+75	SB	R6-1R	36X12	3	I							Stop Assembly
351+75	SB	R6-3A	30X24	5	'							Stop Assembly
343+25	SB	R6-3A	30x24	5	-							Divided HWY on Stop assembly
329+25	SB	R6-1R	36X12	З	,							Stop Assembly
329+25	SB	R6-3	30X24	5	,							Stop Assembly
329+25	SB	R6-1R	36X12	ŝ	,							Stop Assembly
329+25	SB	R6-3	30X24	5	,							Stop Assembly
317+75	SB	R6-1R	36X12	ñ	,				12			Stop Assembly
317+75	SB	R6-3	30X24	5	,							Stop Assembly
317+75	SB	R1-2	36	4.5	,				12			Median
266+50	SB	R1-2	36	4.5	'				12			
266+50	SB	R6-3	30x24	5	ı				12			
231+45	SB	R6-1R	36x12	ю	ł				12			
231+45	SB	R6-1L	36x12	ĸ	,				12			

90

			Stop Assembly	Stop Assembly		
						0
					0	0
12	12	12				312
						0
						0
						0
						0
	'					0
5	5	4.5	3	5		169.25
30x24	30x24	36	36X12	30X24		
R6-3	R6-3	R1-2	R6-1R	R6-3		sheet =
SB	SB	SB	SB	SB		Total this sheet =
140+50	140+50	113+45	113+45			

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						S	TANDAR	ROADSIL) - SNDIS JC	STANDARD ROADSIDE SIGNS - 0.100" THICKNESS	KNESS		
		SIGN	SIZE	AREA		PIPE POS	E POSTS (If)		U PC	U POST (If)	(7/16" × 2-1/2") BARS	Class "B"	
N	NB/SB	TATION NB/SB NUMBER (in. x in.)	(in. x in.)	(sf)	3"	3-1/2"	4"	5"	2 lb/ft	3 lb/ft	3.72 lbs/lf	Conc (cy)	REMARKS
43+00	NB	R5-1	36x36	6		8						0.12	Do not enter
543+97	SB	R5-1	36x36	6	-					12			Do not enter in median
266+50	SB	R5-1	36x36	6	ı					12			In Median
266+50	SB	R5-1	36x36	6	-					12			In Median
266+50	SB	R5-1	36x36	6						12			
231+45	SB	R5-1	36x36	6						12			
											0		
	Total this	Total this sheet =		54	0	8	0	0	0	60	0	0.12	

		REMARKS		When Flashing				Stop Assembly								
	Class "B"	Conc (cy)	0.13	0.13	0.13	0.13		0.13	0.13	0.13	0.13	0.13	0.13	0.13		1.43
KNESS	(7/16" × 2-1/2") BARS	3.72 lbs/lf	5	5	5	5									20	74.4
.125" THICI	U POST (If)	3 lb/ft														0
E SIGNS - 0	U PO	2 lb/ft														0
STANDARD ROADSIDE SIGNS - 0.125" THICKNESS	STS (If)	5"														0
		4"				12	12	12	12	12	12	12	12	12		108
S	PIPE POSTS (If)	3-1/2"	8	8	8											24
		3"					-	-	-			ı	-	-		0
	AREA	(sf)	16	16	16	13.25	13.25	13.25	13.25	13.25	13.25	13.25	13.25	13.25		167.25
	SIZE	(in. x in.)	48x48	48X48	48x48	48	48	48	48	48	48	48	48	48		
	SIGN	NUMBER (in. x in.)	W3-3	W3-4	W3-3	R1-1	R1-1	R1-1	R1-1	R1-1	R1-1	R1-1	R1-1	R1-1		sheet =
		NB/SB	NB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB		Total this sheet =
		STATION	219+00	244+75	244+75	544+00	421+90	405+25	374+00	351+75	329+25	329+25	317+75	113+45		

- 22 -

Anchor TYPE "A" <				GUARDRAIL		FLARED	TANGENT	Cable	BRID	BRIDGE	BRIDGE END SECTION		DELINE	DELINEATORS			
OW Object Markers REMOVAL (EA) (LF) (LF) 1 230 330 1 200 170 1 200 170 1 200 255 255 250 1 255 250 250 1 250 1 250 250 250 1 250 1 250 1 250 1 250 1 250 1 250 1 250 1 250 1 250 1 250 250 250 250 250 250 250 250 250 260 250 270 250 270 250 270 250 270 250 270 25				THRIE	BEAM	TERMINAL	TERMINAL	Anchor	TYPE "A"	TYPE "D"	TYPE "I"	SPEC. DESIGN			Type 3	GUARDRAIL	REMARKS
(LF) (LF) (LF) (LF) 230 330 1 1 230 1 1 230 1 1 230 1 1 230 1 1 230 1 1 230 1 1 1 230 1 1 1 230 1 1 1 230 1 1 230 1 1 230 1 1 230 1 1 230 1 1 230 1 1 230 1 1 230 1 1 230 1 1 230 1 1 230 1 1 1 230 1 1 1 230 1 1 1 230 1 1 1 230 1 1 1 230 1 1 1 1 230 1 1 1 1 230 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	LOCATION	(W-BEAM)	TRANS. SECT	THRIE BEAM	END SECT.	END SECT.	TYPE		MOD.		BR END CONN.	WHITE	YELLOW	Object Markers	REMOVAL	
230 1 230 1 230 1 200 1 230 235 235 235 1 230 235 235 1 230 235 235 235 235 235 235 235 235 235 235	NOIT	(LT/RT)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(LF)	
330 1 200 1 200 1 200 100 110 225 225 225 225 225 225 225 22	+25	NB RT	215				1	1		-		•	8			290	
1 200 1 250 200 225 225 250 250 250 250 250 250	+50	NB RT	255				1	1		•		•	8			330	
1 200 1700 1255 2255 2255 2250 2250 2250 2250 1250 2250 1250 250 1250 250 1250 250 250 250 250 250 250 250 250 250	00+	NB LT	125				-	•	1	-	ı			œ	-	200	173.0B
250 170 255 255 255 256 250 1250 1355 1 250 1 250 1 250 1 230 250 1 230 240 230 240 230 240 230 240 240 230 240 255 255 256 256 256 256 256 256 256 256	00+	NB RT	125				-	,	1	-	1		80		÷	200	173.0B
110 225 225 256 256 256 256 250 10 250 10 250 10 250 10 250 10 250 10 250 250 250 250 250 250 250 250 250 25	+60	SB LT	175				-	-		1	•		ω			250	
225 256 256 256 256 256 250 150 1 230 1 230 1 230 1 240 240 25 240 25 25 240 25 25 25 25 25 25 25 25 25 25 25 25 25	+40	SB LT	95				٢	-	1		1	ı	9			170	
235 250 250 250 250 250 250 250 230 250 230 250 230 250 230 230 230 230 230 230 230 230 230 23	00	SB LT	150				-	-		1	•		ω			225	
250 250 250 1 250 1 230 1 230 1 230 235 1 230 240 240 240 5 6 4125 5 6 4125	+80	SB LT	180				-	-					6			255	
230 150 150 150 10 230 10 230 10 230 10 230 10 230 10 240 240 5 6 4125 5 6 4125 5 6 4125 5 6 4125	190	SB LT	175				-	-			•	•	7			250	
150 150 1 250 1 230 1 250 1 2 250 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	+50	SB LT	175				-	-					8			250	
230 1 230 332 333 335 330 335 340 335 340 335 340 335 340 335 340 335 340 340 340 340 340 340 340 340 340 340	+40	SB LT	75				-	-			•	•	5			150	
1 230 1 230 1 230 5 4125 6 4125	-50	SB LT	175				-	-			1	•	8			250	
1 230 355 355 355 355 356 356 1 240 240 5 4125 5 4125 5 6 4125 5	-95	SB LT	155				-	1	-	1	ı		æ		+	230	173.0A
- vo H	95	SB RT	155				1	•	t.	•	•	•		8	1	230	173.0A
ب م ۲	50	SB RT	280				1	1		-		•		11		355	
<u>ج</u> م	75	SB LT	175				1	1		•	I	•	8		+	250	
<u>ک</u> م	85	SBLT	165				-	-	1	1	•		7			240	
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אה טו אבר פסאטראה (האטבר בוש מברוסוסי, וידביי לאבר אוטיוסיסיבן, ובאווויאי בויטי שוני בו בידוט טויכר איז ובוש בבי אוט שייביט הגוויסייב. את סו פטאמאלו בעורמידסיב בוש מברוסוסי, וידביי לאבר אוטיוסיסיבן, ובאווויאי באט סבטוסיט, וידכי אום בידום מסיכים האסה אניביה באוו אניה אנידי הסרב לאווי אניו בי בקרואובים שיוויסד שליכים מסיכים ובי כאווכים בד אובים או מכאנים					M DEAM TVDE				FIONS ETC //								
	VALOF		DELINEATORS	ARE CONSIDER	TED INCIDENTA	L TO THE REM	DVAL OF GUAR	DRAIL AND WI	L NOT BE ME	ASURED AS A S	SEPARATE PAY	TTEM.					
	IARDR	PAIL (METAL RA	ILAND METAL	POSTS ONLY)	MLL BE RETAIN	IED BY MDOT.	MOODEN POST	S ALL BLOCK	OUTS, CONCR	FTF ANCHORS	ETC WILL B	= THF PROPERTY	OF THE CONT	RACTOR			

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			630-	630-B002	
		Interst	Interstate Directional Signs, Bolted Ext	al Signs, Bo	olted Ext
		SIGN	SIZE	AREA	
STATION	NB/SB	NUMBER	(in. x in.)	(sf)	REMARKS
227+45	NB	'	36x132	33	Tougaloo College ->
220+45	NB	'	36x132	33	Tougaloo College Right Lane
234+45	SB	ı	36x132	33	Tougaloo College <-
255+45	SB	1	36x132	33	Tougaloo College Left Lane
501+10	NB	ı	24x84	14	Pocahontas
558+44	NB	•	42x120	35	Pocahontas 9 Yazoo City 36
571+25	NB	•	36x72	18	Madison County I-Beams
571+25	SB	ı	36x60	15	Hinds County I-Beams
325+50	SB	1	36x144	36	Mississippi College Right I-Beams
320+75	SB	ı	36x144	36	Mississippi College -> I-Beams
314+75	NB	'	36x144	36	Mississippi College Left I-Beams
302+00	NB	-	36x144	36	Mississippi College <- I-Beams
518+75	NB		36x108	27	Flora 5 Yazoo City 27 I-Beams
518+90	SB	•	24x84	14	Pocahontas on I-Beam
508+20	SB	ı	18x36	4.5	Jackson 9 I-Beams
			Total	403.5	

	Detection Zone		Detection	STOPBAR	Advance	Radar Cable		Existing Pole
Intersection	Location	Phase #	Zone Size	Radar Unit	Radar Unit	(ft)	Existing Controller Type	Configuration
	SB Left Turn Lane	1	6'X50'	1		160		
			330' from					
	SB Thru Lanes	6	STOPBAR		1	160		
	NB Left Turn Lane	5	6'X50'	1		450		
US 49 at Kickapoo Road			330' from					
	NB Thru Lanes	2	STOPBAR		1	450		
	WB Lanes	3	6'X50'	1		330		
							M50 EPAC (one existing	
	EB Lanes	4	Existing Radar				Wavetronix Click 650 unit)	Mast Arm Pole
	SB Thru Lanes		6'X50'	1		200		
	NB Left Turn Lane	6 5	6'X50'	1		200		
	NB Thru Lanes	2	6'X50'	1		100		
US 49 at Presidential Dr	NB THRU Laries	2	0 \\ 50			100		
US 49 at IEK Dr	WB Lanes	4	Existing Radar					
							M60 EPAC (existing	
	EB Lanes	4	Existing Radar				Wavetronix Click 650 Unit)	Spanwire
	SB Thru Lanes	6	6'X50'	1		110		
	NB Left Turn Lane	5						
	NB Thru Lanes	2	Existing Radar					
	EB Lanes	4	Existing Radar				M60 EPAC (existing Wavetronix Click 650 Unit)	Spanwire
	SB Thru Lanes	6	6'X50'					opulline
	SB Left Turn Lane	1	6'X50'	1		200		
	NB Thru Lanes	2	6'X50'	1		100		
US 49 at Country Club/ Forest Ave Ext	WB Lanes	8	Existing Radar					
							M60 EPAC (existing	
	EB Lanes	4	Existing Radar				Wavetronix Click 650 Unit)	Spanwire
			Total	8	2	2260		

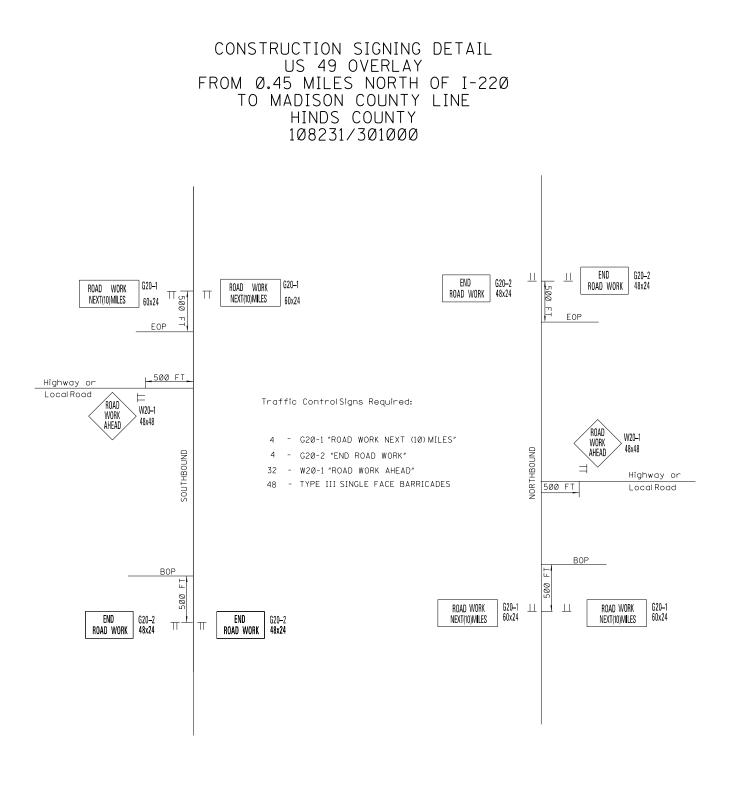
- 25 -

#1 Replace existing EPAC Controllers with new controllers. Existing EPAC controllers to be salvaged to MDOT Signal Shop. Contractor shall be responsible for transfering existing controller data to the new controllers.

#2 Radar units shall be mounted per manufacturer recommendations. Contractor shall be responsible for setting up all new signal controllers and detection units as per manufacturer recommendations

#3 Contractor may remove existing detection loop cable, if necessary.

#4 Cable quantities may be adjusted based on radar locations per manufacturer recommendations



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NOTES: One (1) W20-1 "ROAD WORK AHEAD" Sign is Required at each LocalRoad, Street, Ramps or Highway Entering the Project.

G20-1 and G20-2 signs mounted on Type III Single Faced Barricade.

518+75 NB RIGHT SHOULDER

Flora	5
Yazoo City	27
$7.7 \rightarrow 30.5 \rightarrow 55.6 \rightarrow 55.6 \rightarrow -7.7 \rightarrow 37 \rightarrow 8 \rightarrow 25.3 \rightarrow -108 \rightarrow$	6.5 - 7.7 - 8 - 14.3 - 7.7 -

3.0" Radius, 1.0" Border, White on, Green;

"Flora", E Mod 2K; "5", E Mod 2K; "Yazoo City", E Mod 2K; "27", E Mod 2K;

571+25 SB RIGHT SHOULDER

	lind ount		-7.26	00
12.7	34.6	12.7		
12.1	35.8	12.1	-	
	60		4	

3.0" Radius, 1.0" Border, White on, Green; "Hinds", E Mod 2K; "COUNTY", E Mod 2K;

508+20 SB RIGHT SHOULDER

cks) N	9	
50.7	10-	6.5 - 8.4	
		C K S O N 	

3.0" Radius, 1.0" Border, White on, Green; "Jackson", E Mod 2K; "9", E Mod 2K;

571+25 NB RIGHT SHOULDER

	adis(count		-7.26
	49.8	11.1	
18.1	35.8	18.1	
	72		

3.0" Radius, 1.0" Border, White on, Green; "Madison", E Mod 2K; "COUNTY", E Mod 2K;

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302+00 NB RIGHT SHOULDER

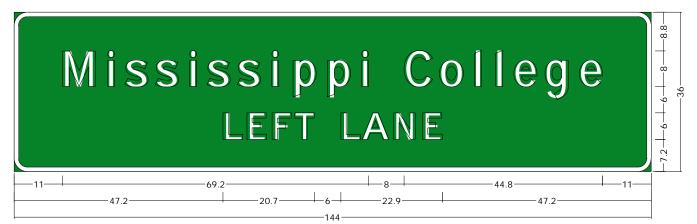
Mississippi College	5.94_8.2_1_6_18_1_7.9_ 36_
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

3.0" Radius, 1.0" Border, White on, Green;

"Mississippi College", E Mod 2K; Standard Arrow Custom 24.0" X 8.1" 180';

- 32 -

314+75 NB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green; "Mississippi College", E Mod 2K; "LEFT LANE", E Mod 2K;

- 33 -

320+75 SB RIGHT SHOULDER

Mi	ssiss	i p p i	Colle	e g e
	69.2	24	8	11

3.0" Radius, 1.0" Border, White on, Green;

"Mississippi College", E Mod 2K; Standard Arrow Custom 24.0" X 8.1" 0';

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325+50 SB RIGHT SHOULDER



3.0" Radius, 1.0" Border, White on, Green; "Mississippi College", E Mod 2K; "RIGHT LANE", E Mod 2K;

558+44 NB RIGHT SHOULDER

Pocahontas	9	
Yazoo City	36	-9
-11.6 - 72.5 - 120 - 1	$-17.9 \longrightarrow 6.4 \longrightarrow 11.6 \longrightarrow 12 \longrightarrow 14.5 \longrightarrow 11.6 \longrightarrow 11$	

6.0" Radius, 1.3" Border, White on, Green;
"Pocahontas", E Mod 2K; "9", E Mod 2K; "Yazoo City", E Mod 2K; "36", E Mod 2K;

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501+10 NB RIGHT SHOULDER

P0(cohant	S S
-5.7	72.6	
	84	

3.0" Radius, 1.0" Border, White on, Green; "Pocohantas", E Mod 2K;

518+90 SB RIGHT SHOULDER

Pocohantas	
-5.7	-
84	_

3.0" Radius, 1.0" Border, White on, Green; "Pocohantas", E Mod 2K;

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234+45 SB RIGHT SHOULDER

Tougaloo College	5.9 ^{+8.2} ⁺⁶ ⁺ ⁻⁸ ⁻¹ -7.9 ⁻

3.0" Radius, 1.0" Border, White on, Green;

"Tougaloo College", E Mod 2K; Standard Arrow Custom 24.0" X 8.1" 180';

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255+45 SB RIGHT SHOULDER

Tougaloo College LEFT LANE	-7.2 <u>+6 +6 +8 +8 +8 8 -8.8</u>
$-11.7 \xrightarrow{\hspace{1.5cm}} 55.7 \xrightarrow{\hspace{1.5cm}} 8 \xrightarrow{\hspace{1.5cm}} 44.9 \xrightarrow{\hspace{1.5cm}} 11.7 \xrightarrow{\hspace{1.5cm}} 41.2 \xrightarrow{\hspace{1.5cm}} 20.7 \xrightarrow{\hspace{1.5cm}} 6 \xrightarrow{\hspace{1.5cm}} 22.9 \xrightarrow{\hspace{1.5cm}} 41.2 \hspace{$	

3.0" Radius, 1.0" Border, White on, Green;

"Tougaloo College", E Mod 2K; "LEFT LANE", E Mod 2K;

- 40 -

270+45 NB RIGHT SHOULDER

Ţ	ougal	00 C	olleg	€.9 ⁺ -8.2 ⁺ -6 ⁻⁺ -8 ⁻⁺ -7.9 ⁻
11.7		8	44.9	11.7
		122		

3.0" Radius, 1.0" Border, White on, Green;

"Tougaloo College", E Mod 2K; Standard Arrow Custom 24.0" X 8.1" 0';

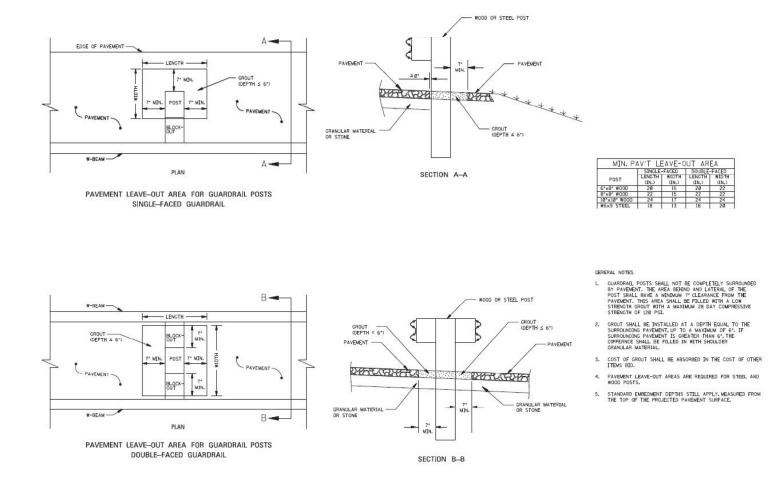
- 41 -

220+45 NB RIGHT SHOULDER

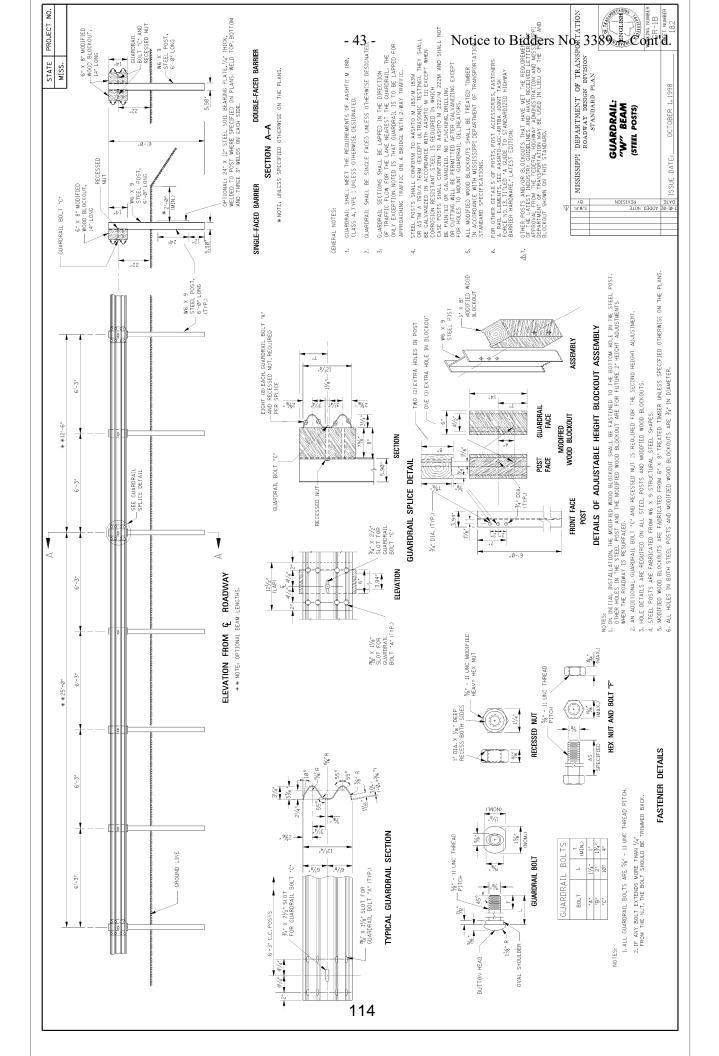
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	 8	44.9	

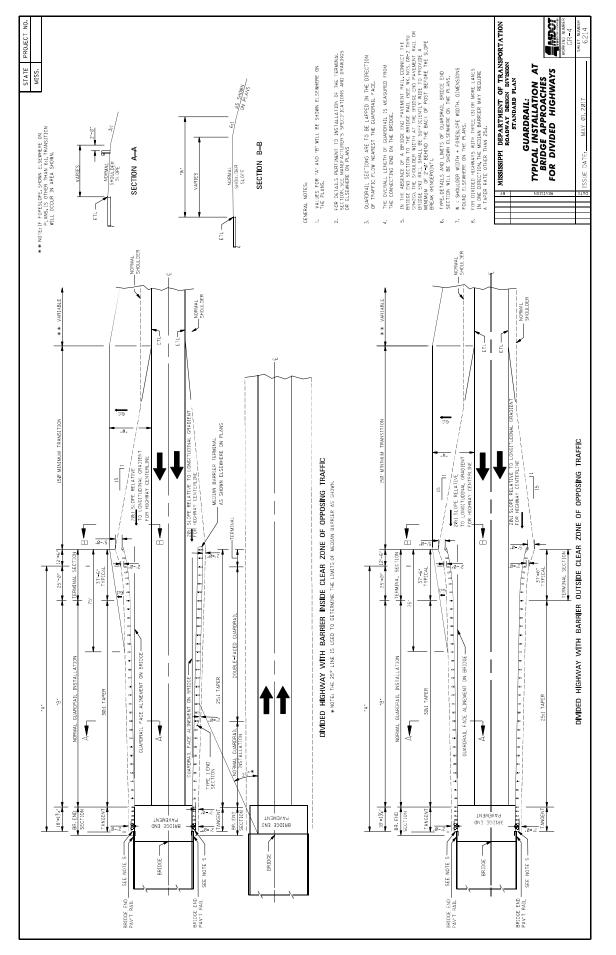
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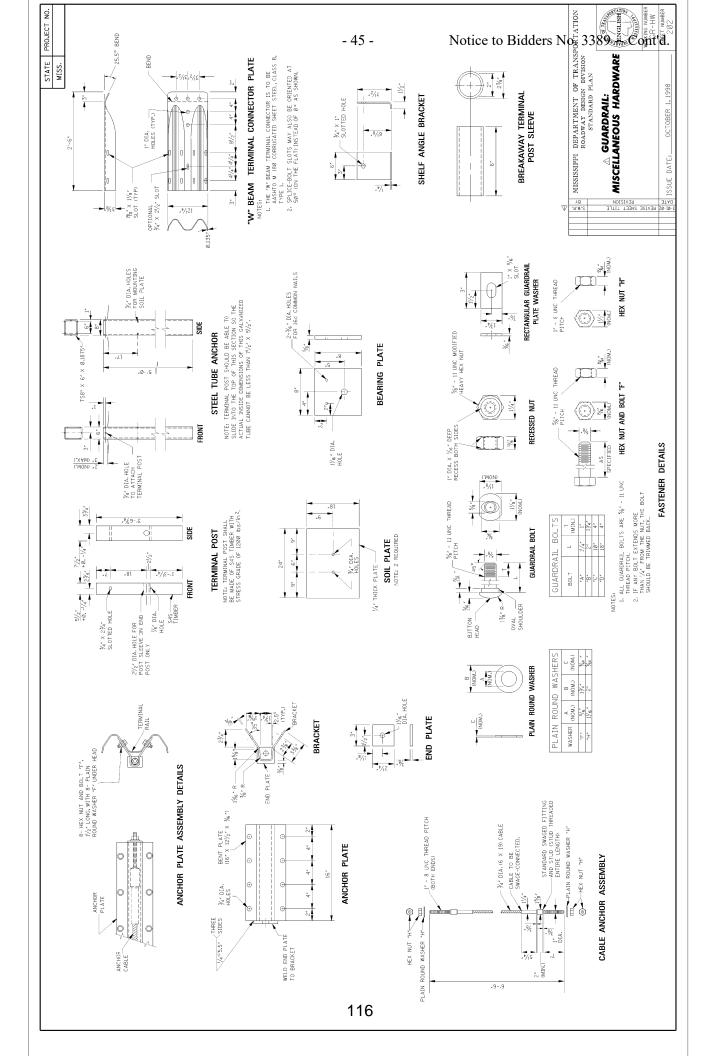
"Tougaloo College", E Mod 2K; "RIGHT LANE", E Mod 2K;

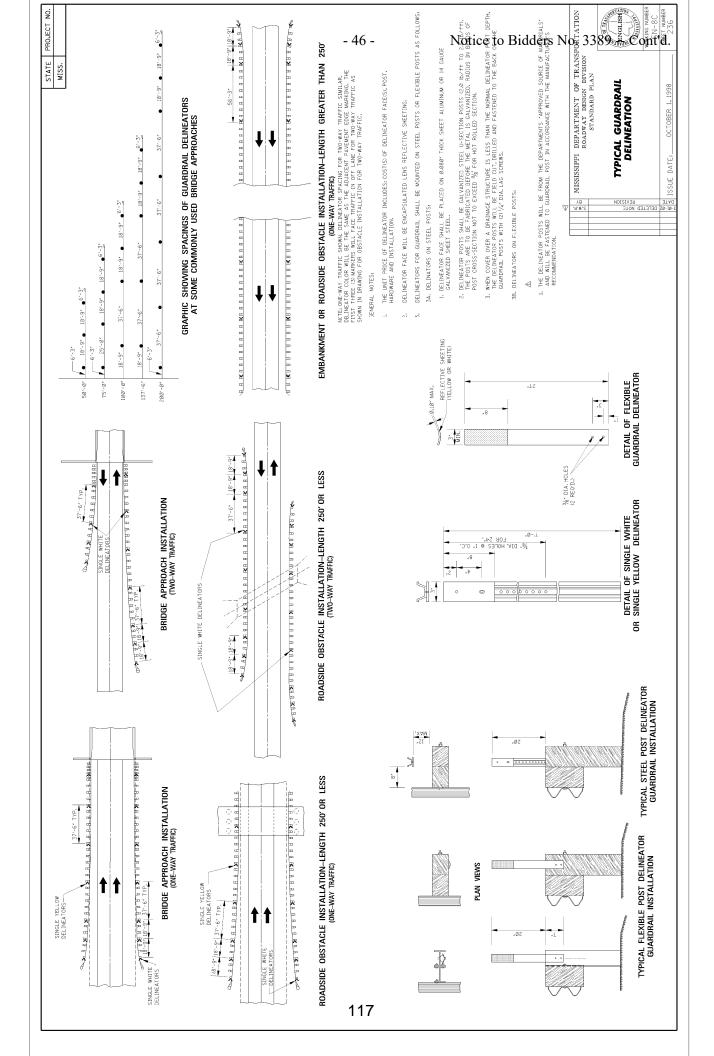


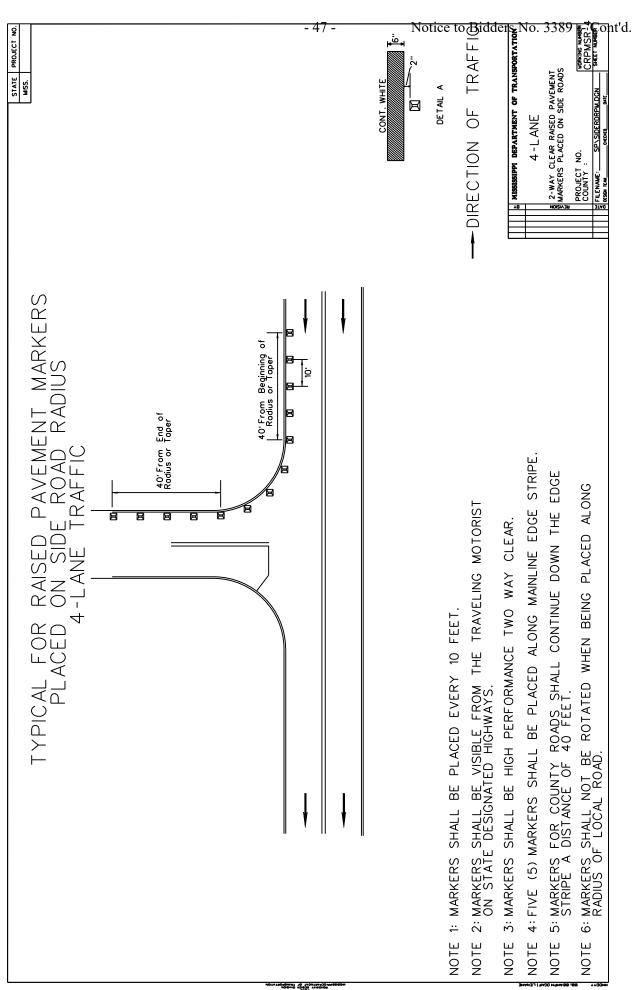
Guardrail Post Installation in Paved Areas

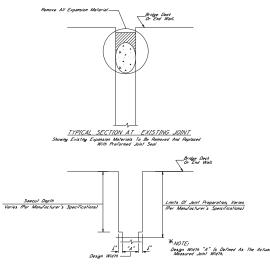


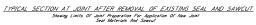


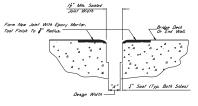




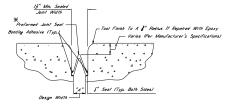








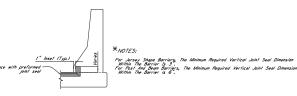
<u>TYPICAL SECTION AT SAWCUT & JOINT REPAIR</u> Showing Area Where Repairs Are Mede Alter Samcul, With Epoxy Mortar Or Approved Equivalent



- 48 -

TYPICAL SECTION AT SAWCUT & SEALED JOINT Showing Sealed Joint After Sourcut

- *_{NOTES:}
- 1. The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications: A. Silicallex Joint Sealing System Manufactured By R.J. Watson, Inc. In Alden, NY www.rjwalson.com
 - B. Wabo SP5 Joint System Manufactured By Walson Bo berst. NY
 - C. Silspec 555 Silicone Strip Seal Manufactured By SSI Commercial & High
- For Estimating Pu Salarted. Howev Silicofle Sealing Sy Sele Res, For responsibili For Joint Any Other A Manufac. To Ensure Material Variances Between The Specifications Furer Representative Shall Be Present That The Contractor Is Properly Sch Provided By At The Time coled In Insta The M Joint octurers. ling Begins The Joint
- Addressing the Society of Their Design Withs, Dimension "A", Which is Defined As, The Actual With Do Han Sour Opping. This With Dess the Account For The Are Dess Actual With The Ann Source The Area Count of the Account For The Area Dess For Design Withs Constant Them of The Area Count Source The Source Dess For Design Withs Constant Them of The Area Source Source Source Dess Area Count Source Source Dess Area Source Source Source Dess Area Source Source



ELEVATION AT END OF SPAN

NOTES ON ASSOCIATED ITEMS OF WORK:

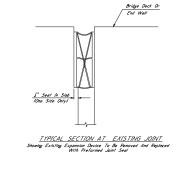
907-808-A002 J	OINT REPAIR
Description:	Shell Include The Work Necessary: To Riggin-Joints In Proparation For The Poccement Of New Expansion Medicine, 45 Designated In The Leftenil Drawings Provider, Egony Martine 500 Existing Science Society, Compression, Mart 42, Societ Joint Materials Will Not Be Pater Far Directly And Shell Be Considered Materials Will Not Be Pater Far Directly And Shell Be Considered Materials Will Not Be Pater Far Directly And Shell Be Considered 5 Associet Under Task Theo Viets, Ad Direct Reportments Societion 600 Cl The Specifications And Any Other Societions Specifier Interview.
Basis Of Payment:	The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.
907-808-A003 J	OINT REPAIR WITHOUT EPOXY
Description:	Shafi Incluie The Work Necessery To Repair Joints In Prograntian To In Placement Of How Expansion Material, As Designated In The Data Dearings Provided, Removal Of Exalty Silicon Secold, Compression, And A.C. Seeled Joint Materials Shafi De Incluided Lader This Them Of Work, All Other Requirements Sail De In Accordence With The Agalicath Provision Of Section 2020 Of The Specifications And Any Other Sections Specified Therein.
Basis Of Payment:	The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length OF The Bridge Deck On Each Side OF The Centerline Joint.
907-823-8001 S	AW CUT, TYPE I & 907-823-8002 SAW CUT, TYPE II
Description:	The Saw Cut Depth Shall Be Equivalent To The Installation Depth Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected.
Basis of Payment:	The Accepted Quantities Will Be Paul For In Linear Feel At The Contract Unit Price Along The Length Of The Bridge Dect On Each Side Of The Centerline John, It Is The Contractor S Responsibility To Ensure That The Proper Depth Is Selected Desed On The Manufacturer's Recommandions.
90 7-823- 4001 F 907 -823- 4002 F	REFORMED JOINT SEAL, TYPE I REFORMED JOINT SEAL, TYPE II

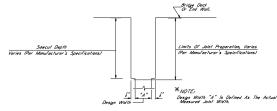
- Shall Include The Manufacturer's Required Joint Preparation Including Sandblasting Both Sides Of The Joint And Blowing Free Of Debris With Compressed Air And Placement Of The Reclammed Init Soci
- Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feel At The Contract Unit Price Along The Length Of The Centerline

EPOXY MORTAR AND POLYMER CONCRETE NOTES:

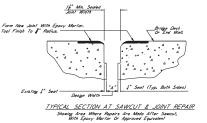
GENERAL NOTES:

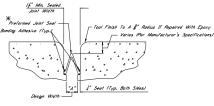
- Specifications: Mainlight Statist Specifications For Road Main Development Statistics of the Permittee Ecopit By Writen Approved Of House Will be Permittee Ecopit By Writen Approved Of House Will be Permittee State Bolly Con-Barrow Statistics of the Bridge Experime Provided Sec Compe-Min II be Constant for the Bridge Experime Provided Sec Compe-Will Hold Be Constant For House Mainteen Work For Which to Perform A Provider In The Propased Will Work For Which to Perform Theoretical Informations Work For Which to Perform Theoretical Informations Masselet Time of Which. 7.
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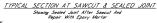




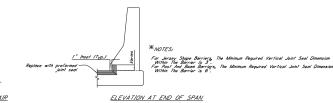




- 49 -



- *NOTES:
- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications: A. Silicoflex Joint Sealing System Manufactured By R.J. Watson, Inc. In Alden, NY www.riwalson.com
- B. Wedo SPS Joint System Manufactured By Walson Bowman Acme Corporation In Amherst, NY www.mbacro.com
- C. Silspec 555 Silicone Manufactured By 551 Co
- For Estimating Purposes, Selected, However, She Responsibility To Ensure For Joint Part Watson Silicoffe RJ Joint Sealing Syste osen, It is The Co Provided By At The Time oled In Insta The ing Begins eser A Man To En Materi
- 14 Al Theor Dasgen Wirths, Dimension "A", Which Is Defined As, The Joint Openam, Ins. With Dises Not Account for The As-ford and the Association of the Association of the Association of the Less Theor "E- Performed to Seek" (year "I) Joint the Lass Greater Theore Equal To "A" With The Manyme Design With a Newer Daily a Millis for Conserve Theorem Design With a Newer Daily a Millis for Conserve Theorem Design With the Sector of the Association of the Association of the Sec-er, it is The Contractors Registrability To Essure That The Sec-er are the The Millis of The Joint. Joints The Seat Used For s Shall Be Sealed Actual Width Of i Required On Both For Design Widths Design Widths Gre raths In Cas pansion Mater Bridge Engine ed Ts Appro-



NOTES ON ASSOCIATED ITEMS OF WORK: 907-808-4002 JOINT REPAIR

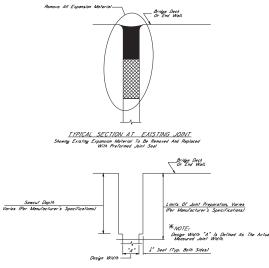
Dascription:	Shull Include The Work Necessary: To Report Joints In Proparation To The Proceeding Of New Expansion Motivity, As Designated In The Detail Drawings Provided, Espary Morter Shull Also Be Recibed Outer This Time Of Work, Roman Materials Will Not Be Peel Tar Directly And Shull Be Cassidered A Absorbed Uniter Than Time Of Work, All Other Requirements Section Of the Spectrational and Ang Other Section Spectral Draw Spectra Direction and Ang Other Sections Spectral Draw Spectra
Basis Of Payment:	The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.
907-808-A003 M	DINT REPAIR WITHOUT EPOXY
Description:	Shall Include The Work Necessary To Repair Joints In Proparation For The Placement Of New Expansion Material, As Desimated In The Detail Drawings Provided, Remaval

- The Accepted Quantities Will Be Paid For In Linear Feel At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint, Basis Of Pay 907-823-8001 SAW CUT. TYPE / 8 907-823-8002 SAW CUT. TYPE //
- Description
- t Depth Shall Be Equivale The Manufacturer's Spec Se The Same As The Pre Installation Dep. The Saw Cut int Seal Selected Quantities Will Be Paid For In Linear Feel At Unit Price Along The Length Of The Bridge Dec Of The Centerine Joint. It is The Contractor To Ensure That The Proper Depth is Selected Manufacturer's Recommendations. Basis of F
- 907-823-A001 PREFORMED JOINT SEAL, TYPE I 907-823-A002 PREFORMED JOINT SEAL, TYPE II
- Shall Include The Manufacturer's Required Joint Preparation Including Samtibasing Both Sides Of The Joint And Blowing The Joint Free Of Debris With Compressed Air And Placement Of The New Preformed Joint Seal Description:
- Basis Of Pay The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline

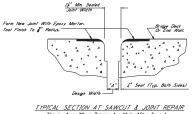
EPOXY MORTAR AND POLYMER CONCRETE NOTES; Either Epoxy Morter Or Polymer Concrete May De Used, Guidelines For Selection Of Materials Can De Found In Section 808 of the Specifications

GENERAL NOTES:

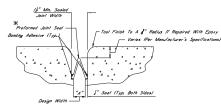
- Specifications. Havings: Standard Specifications For Road deal Bridge contention, 2017. No Change OF Rives Will be Permitted Except By Writen Appando OF Bocketor Of Structures, Soft Bridge Experi-May De Astherized By The Bridge Experier Provided Soft Will had be Cased For Change Provided Soft Change Will had be Cased For Change Provided Soft Change Will had be Cased For Change Provided Soft Change Will had be Cased For Change Provided Soft Not De Ind For Derectly And Shall Therefore De Casedered In Resolution Werk. 7. 2



<u>TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT</u> Showing Limi's Of Jubit Proportion for Application Of New Jubit Seel Networks And Severa



<u>TYPICAL SECTION AT SAWCUT & JOINT REPAIR</u> Showing Area Where Repairs Are Mode Alter Sawcut, With Epoxy Mortor Or Approved Equivalent



<u>TYPICAL SECTION AT SAWCUT & SEALED JOINT</u> Showing Sealed Joint After Sawcul And Repair With Epoxy Mortar

*_{NOTES}: 1. The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:

- 50 -

- A. Silicoflex Jaint Sealing System Manufactured By R.J. Watson, Inc. In Alden, NY www.r.jwatson.com
- B. Wabo SP5 Joint System Manufactured By Watson Bawman Acme Corporation In Amherst, NY www.wbacro.com
- C. Silspec 555 Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials www.ssien.com
- For Estimating Pur, Selected. Howeve Responsibility To L For Joint Prepara Any Olher Varianc A Manufacturer R To Ensure That I Material. n Silicoflex Joint Sealing Syste splier Be Chosen, 11 is The Co. Tacturer's Recommendations Are thesive Se By The Time Join Pro. At
- Joints Shall Be The Actual Win Seat Required Used For Desig For Design Win Sealed At Their Design Widths, 4th Of The Joint Opening. This On Both Sides Of The Joint. P Dimension Width Doe э. Equ The Maximum Design Width Than 25", Another Type The Director Of Structures, Wilty To Ensure That The Size Directed By v s Responsib. The Joint



NOTES ON ASSOCIATED ITEMS OF WORK: 907-808-A002 JOINT REPAIR

Description:	Shall Include The Work Necessary Ta Repair Joints In Preparation For The Placement Of New Expansion Material, As Desganated In The Detail Drawigs Provided. Epoxy Mortar Shall Also Be Included Under This Them Of Work. Removal
	Of Existing Sticone Seeled, Compression, And AC Seeled John Materials Will Not De Pair For Directly And Shall Be Considered As Absorbed Under This Item Of Work, All Other Requirements Shall Be In Accordence With The Applicable Provision Of Section 808 Of The Specifications And Any Other Sections Specified Therein.
Basis Of Payment:	The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.
907-808-4003	OINT REPAIR WITHOUT EPOXY
Description;	Shell Include The Wort Necessary: To Repair Joints In Programsitor for The Recomment Of New Examstern Advised, As Despendent In The Order Chamings Revisited. Remarket Of Existing Staticane Scaled, Compression, and AC Scaled Joint Adversion Shell Be Included Under This Item Of Work. All Other Requirements Shall Be In Accordance With The Agalicated Provisions

Requirements Shall Be In Accordance With The Applicable Provis Of Section 808 Of The Specifications And Any Other Sections Specified Therein The Accepted Quantities Will Be Paid For In Linear Feel At The Contract Unit Price Along The Length OF The Bridge Deck On Each Side OF The Centerline Joint. Basis Of Pay

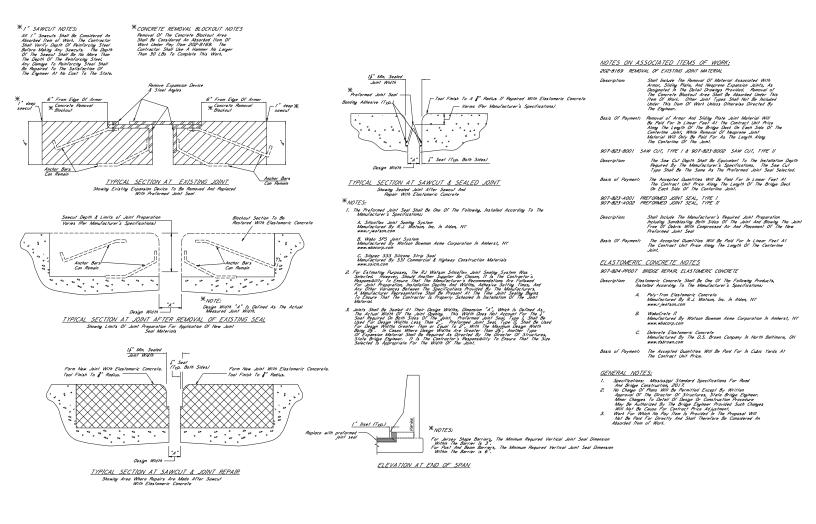
- SAW CUT, TYPE | & 907-823-8002 SAW CUT, TYPE || 907-823-8001
- Description; The Saw Cut Depth Shall Be Equivale Required By The Manufacturer's Spec Type Shall Be The Same As The Pre-
- The Accepted Quantities Will Be Paid For In Linear Feel Al The Contract Unit Price Along The Length Of The Bridge Dect On Each Side Of The Centerine Joint, II is The Contractor's Responsibility To Ensure Thet The Proper Depth Is Selected Bosed On The Admundacture's Recommenditions. Basis of Payment
- 907-823-A001 PREFORMED JOINT SEAL, TYPE I 907-823-A002 PREFORMED JOINT SEAL, TYPE II Shall Include The Manufacturer's Required Joint Preparation Including Sandblasting Both Sides Of The Joint And Blowing The Join Free Of Debris With Compressed Air And Placement Of The New Preformed Joint Seal Description:
- Basis Of Payment:
- The Accepted Quantities Will Be Paid For In Linear Feel Al The Contract Unit Price Along The Length Of The Centerline Juint

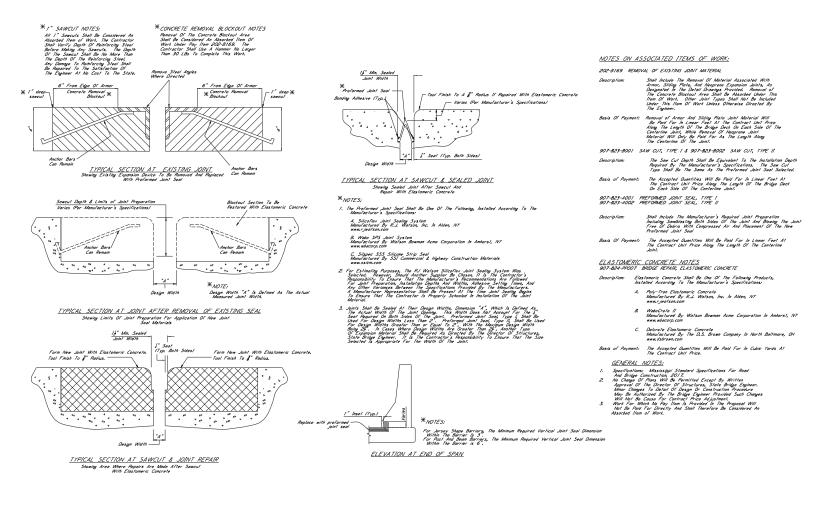
EPOXY MORTAR AND POLYMER CONCRETE NOTES: Either Epoxy Mortar Or Polymer Concrete May Be Used. Guidelik For Selection Of Materials Can Be Found In Section 808 of the

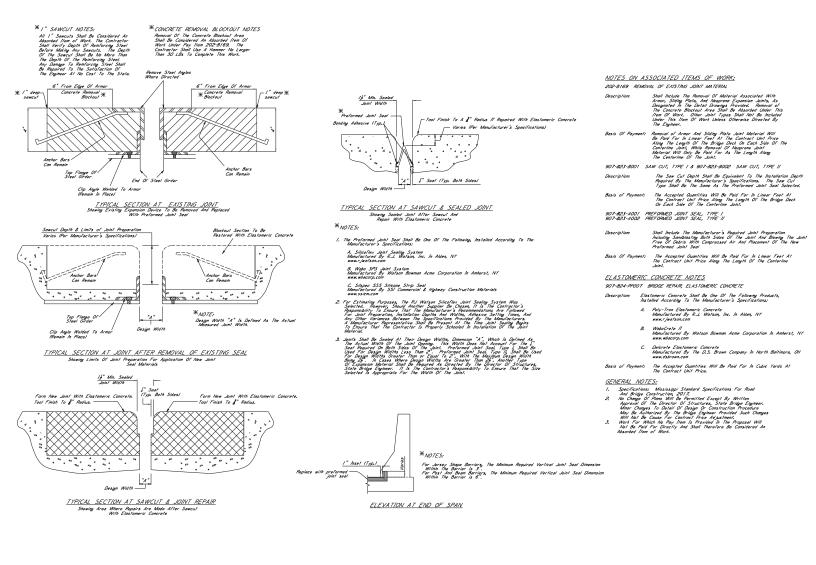
GENERAL NOTES:

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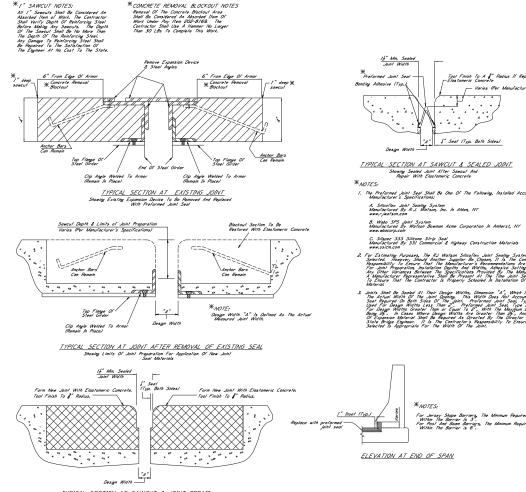
- <u>N. TH. (2011.5</u>). Specifications: Massissip: Stantard Specifications For Road And Bridge Construction, 2017. IN Change of Dawn Will Berkmeilter Exceptible Regioner Albert Changen, Fa Dehiti Of Daiga de Construction Procedure Mar de Autocate By The Bridge Equipment Provides Sach Changes Will Not Be Case For Control Price Adjustment. Wort For Which New York Derived In The Proposal Will Not Be Dai To Dheeting And Shall Therefore Be Considered An Alassibet Time of West.











202-8169 REMOVAL OF EXISTING JOINT MATERIAL Shall Include The Removal Of Material Armor, Stidley Plate, And Neoparene Eg-Designated In The Datail Drawings Pro The Concrete Blockout Area Shall Be Hem Of Work. Other Joint Types St Under This Item Of Work Unless Other The Eggineer. , Iten , Engineer. Removal of Armov Be Paid For In L Along The Length Centerline Mat Basis Of Pay Joint Material Contract Unit of On Each Sid

NOTES ON ASSOCIATED ITEMS OF WORK:

Armor And Sliding Pi or In Linear Feel Al Length Of The Bridge Joint, While Removal Vill Only Be Paid For Time Of The Joint, OF Neoprene Joint As The Length Along 907-823-8001 SAW CUT, TYPE I 8 907-823-8002 SAW CUT, TYPE II Description:

The Saw Cut Depth Shall Be Equivalent To The Installation Dep Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected The Accepted Quantities Will Be Paid For In Linear Feel Al The Accepted Quantities Will Be Paid For In Linear Feel Al The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint Basis of Pays

907-823-A001 PREFORMED JOINT SEAL, TYPE I 907-823-A002 PREFORMED JOINT SEAL, TYPE II

Description Shall Include The Manufacturer's Required Joint Prepar Including Sandblasting Both Sides Of The Joint And Bla Free Of Debris With Compressed Air And Placement C Preformed Joint Seat

The Accepted Quantities Will Be Paid The Contract Unit Price Along The Lev hint Basis Of Payments ar In Lim

ELASTOMERIC CONCRETE NOTES 907-824-PP007 BRIDGE REPAIR, ELASTOMERIC CONCRETL

Elastomeric Concrete Shall Be One Of The Following Prov Installed According To The Manufacturer's Specifications:

- Poly-Tran Elastomeric Concrete Manufactured By R.J. Watson, Inc. In Alden, NY www.r.jmatson.com
- WabaCrete II Manufactured By Watson Bowman Acme Corporation in Amherst, NY

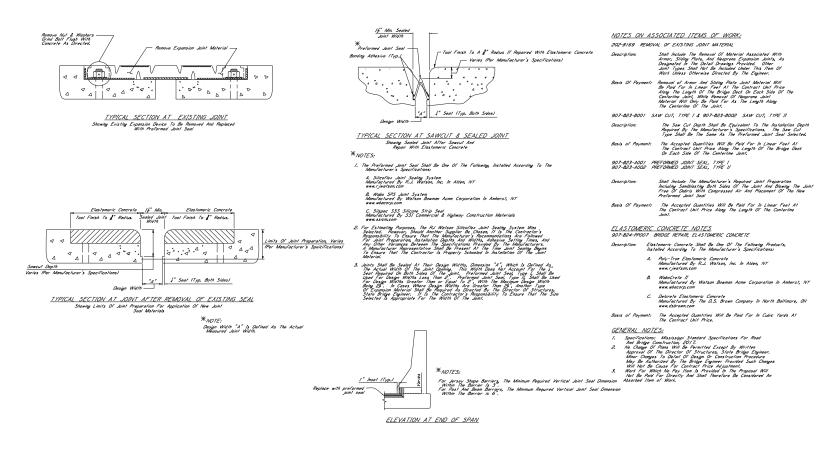
Delcrete Elastomeric Concrete Manufactured By The D.S. Bro. wa Coa nt: The Accepted Quantities The Contract Unit Price. Will Be Paid For In Cubic Yords

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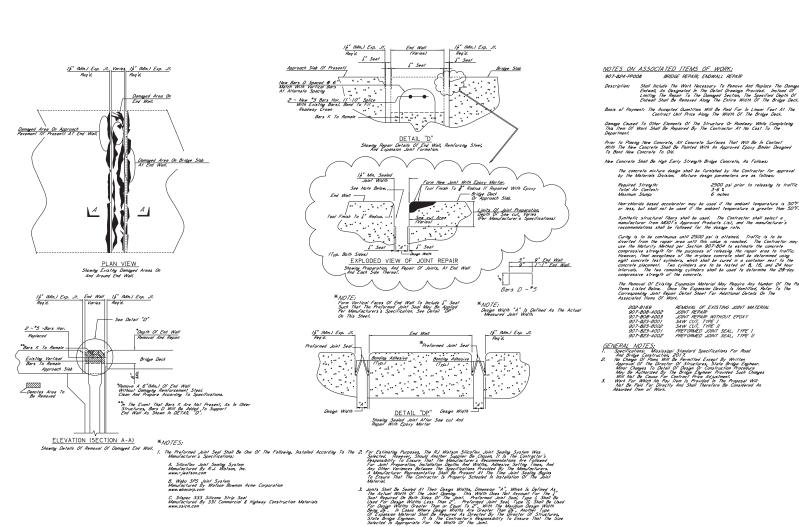
Required Vertical Joint Seal Dia

- In Control (M. Free. <u>GENERAL</u> MOTES: 1. Specifications: Massissipal Standard Specifications For Road And Bridge Contructions (017, 1 2. No Congo Of Poin Will be foreinitient Except by Withth Congo Of Point Will be foreinitient Except by Attack Massissipal Congo Of Congo Of Constraints Provider Mark Congos To Unit of Daige Of Constraints Provider Mark Congos To Unit of Daige Of Constraints Provider Mark Congos To Unit of Daige Of Constraints Provider Mark Congos To Unit of Daige Of Constraints Provider Mark Congos To Unit of Daige Of Constraints Provider Mark Congos To Unit of Daige Of Constraints Provider Mark Congos To Unit of Daily Interface Daily Constraints Provider Mark Congos To Unit of Units Provider State Theoremain Congos Mark Assarded Inter of Work.

<u>TYPICAL SECTION AT SAWCUT & JOINT REPAIR</u> Showing Area Where Repairs Are Made After Sawcul With Elastomeric Concrete



- 55 -



2500 psi prior to releasing to traffic 3-6 % 6 inches

. The Contractor shall select a fucts List, and the manufacturer's dosage rate.

JOINT MATERIA

2500 psi is attained.

on Device Is Id. For Addition

EXISTING

JOINT REPAIR JOINT REPAIR WITHOUT EPOXY SAW CUT, TYPE I SAW CUT, TYPE II PREFORMED JOINT SEAL, TYPE I PREFORMED JOINT SEAL, TYPE II

ting .

13 Lin-losage role. Is elfaned. Traffic is to be the is reached. The Contractor may "OUT to estimate the concrete releasing the regarier are to raffic, concrete shall be determined using "and in a container may to the "A 16, and 24 hour tha 28-day.

OF The To The ring Number Villed, Refer Stails On Thu

- 56 -

SECTION 904 - NOTICE TO BIDDERS NO. 3390

CODE: (SP)

DATE: 06/18/2019

SUBJECT: Temporary Construction Signs

PROJECT: SP-0008-03(058) / 108231301 – Hinds County

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

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

SECTION 904 - NOTICE TO BIDDERS NO. 3391

CODE: (SP)

DATE: 7/16/2019

SUBJECT: Underground Utilities

PROJECT: SP-0008-03(058) / 108231301 – Hinds County

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

Underground Power Lines:

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

Underground Communication Lines:

Kerby McFarland – 601-359-7450 – <u>kmcfarland@mdot.ms.gov</u> Steven Newell – 601-359-7450 – <u>snewell@mdot.ms.gov</u> Henry Lewis – 601-359-1454 – <u>hlewis@mdot.ms.gov</u>

Underground Signal Lines:

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

SPECIAL PROVISION NO. 907-102-2

CODE: (IS)

DATE: 11/22/2017

SUBJECT: Bidding Requirements and Conditions

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

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

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

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

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

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. 907-105-1

CODE: (SP)

DATE: 05/07/2021

SUBJECT: Authority of the Engineer

Section 105, Control of Work, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-105.1--Authority of the Engineer.</u> Delete the first sentence of the second paragraph of Subsection 105.01 on page 31, and substitute the following.

The Engineer has the right to suspend the work wholly or in part and to withhold payments because of the Contractor's failure to correct conditions unsafe for workmen or the general public, for failure to carry out provisions of the Contract, or for failure to carry out orders.

SPECIAL PROVISION NO. 907-108-4

CODE: (SP)

DATE: 10/07/2020

SUBJECT: Subletting of Contract

Section 108, Prosecution and Progress, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-108.01--Subletting of Contract.

<u>907-108.01.1--General.</u> Delete the third sentence of the tenth paragraph of Subsection 108.01.1 on the bottom of page 72.

SPECIAL PROVISION NO. 907-109-3

CODE: (SP)

DATE: 02/23/2021

SUBJECT: Measurement and Payment

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

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

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

907-109.04--Extra Work.

<u>907-109.04.1--Supplemental Agreement</u>. Delete the second paragraph of Subsection 109.04.1 on page 90.

907-109.06--Partial Payment.

<u>907-109.06.2--Advancement on Materials</u>. Delete the next to last paragraph of Subsection 109.06.2 on page 95, and substitute the following.

Materials for which an advanced payment has been allowed must be paid for by the Contractor within 30 days of the estimate on which the advanced payment was first allowed and proof of said payment must be verified by the supplier. If proof of payment is not furnished within the allowable 30 days, the advanced payment will be deducted on subsequent current estimates until such time that proof of payment is furnished.

SPECIAL PROVISION NO. 907-631-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Traffic Signal Systems - General

Section 631, Traffic Signal Systems - General, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-631.02--Materials.

<u>907-631.02.4--Operations.</u> Delete the second paragraph in Subsection 631.02.4 on page 513 and substitute the following.

The Contractor shall conduct the work at all times in such a manner as to ensure the least possible inconvenience to the traveling public, and to property owners on the streets, alleys, and other public places where the construction will take place.

<u>907-631.02.5--Electrical Service.</u> Delete the first paragraph in Subsection 631.02.5 on page 515 and substitute the following.

It shall be the Contractor's responsibility to make the necessary arrangements with the local power company to provide the electrical service for any new installation. The Contractor shall pay for, at no cost to the Department, all deposits, hook-up charges, or other service fees required by the power company for the establishment of new service. The cost of all such fees shall be considered incidental and absorbed within existing pay items. The Department or the local agency will be responsible for payment of the monthly service bill for the new power service installation. It shall be the responsibility of the Contractor to swap the electrical service account over to the Department or local agency.

907-631.03--Construction Requirements.

<u>907-631.03.2--Electrical Service Equipment.</u> Delete the paragraphs of Subsection 631.03.2 on pages 515 and 516, and substitute the following.

The power supply assembly shall consist of all equipment mounted in a Power Service Pedestal as described in Subsection 722.13 or as otherwise shown in the plans. The configuration and installation of the equipment mounted on the assembly shall meet the safety requirements and approval of the utility company or municipality furnishing power for operation.

When required, service poles shall be provided by the Contractor and consist of wood poles with required pole line hardware, conduit, ground rods, guy wires and anchors and all other accessories and appurtenances mounted on the pole, except those items furnished by the utility company or

municipality, or as specified separately in the contract or plans. Costs of service poles shall be included in other items bids.

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Main disconnect switches shall be separately housed on the power supply assembly. Circuit breaker cabinets and meters shall not be installed on the street or walk side of the pole or pedestal.

<u>907-631.03.3--Performance Tests.</u> Delete the second sentence of Subsection 631.03.3 on page 516.

SPECIAL PROVISION NO. 907-641-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Radar Vehicle Detection

Section 641, Radar Detection Systems, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

Delete the title of Section 641 on page 584 and substitute the following.

SECTION 907-641 - RADAR VEHICLE DETECTION

Delete Subsection 641.01 on page 584, and substitute the following.

<u>907-641.01--Description</u>. This work shall consist of providing all labor, materials, equipment, and incidentals necessary to furnish, install, test, train and operate Radar Vehicle Detection, including Signal Radar Vehicle Detection (SRVD) and Intelligent Transportation Systems (ITS) Radar Vehicle Detection (IRVD). These systems will provide roadway monitoring capabilities via electromagnetic microwave radar signals through the air. The signals bounce off vehicles in their paths and the signal is returned to the detector. The returned signals are processed to determine traffic parameters.

<u>907-641.01.1--Signal Radar Vehicle Detection</u>. SRVD provide traffic parameters necessary to the traffic signal controller operation for vehicle detection. All Signal Radar Vehicle Detection shall be supplied from the same manufacturer per construction project.

Type 1 SRVD shall be used for basic vehicle detection at signalized intersections as described below in this specification. Type 2 SRVD shall have all of the functionality of the Type 1 SRVD with additional features described below in this specification.

Type 2 SRVD shall utilize a matrix of radar signals for two-dimensional coverage and shall track vehicles through each type of detection's specified Area of Coverage. The Type 2 SRVD shall report real-time detection of both moving and stopped vehicles.

<u>907-641.01.2--ITS Radar Vehicle Detection</u>. IRVD shall provide data, including, but not limited to speeds, volume, lane occupancy and classification.

907-641.02--Materials.

<u>907-641.02.1--Radar Design</u>. Delete the first sentence of the first paragraph of Subsection 641.02.1 on page 584, and substitute the following.

The IRVD and the SRVD stop bar microwave shall operate in the 24.0 to 24.25 GHz frequency band.

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<u>907-641.02.1.1--Cabinet Interface Unit (CIU) Design.</u> Delete the last paragraph of Subsection 641.02.1.1 on page 585, and substitute the following.

The CIU shall operate in the harsh conditions of a signal cabinet, and comply with the applicable standards stated in the NEMA TS 2-2003 standard for shock, vibration, and temperature.

Delete Subsection 641.02.2 and 641.02.3 on pages 585 and 586, and substitute the following.

907-641.02.2--Area of Coverage--SRVD.

<u>907-641.02.2.1--Stop Bar Radar Vehicle Detection</u>. Type 1 SRVD stop bar radar sensor shall track vehicles through a field of view that extends out a minimum of 100 feet

The Type 1 SRVD stop bar radar sensor shall be able to detect and report presence in lanes located within a minimum 100-foot from the face of the detector. Any variance of the detectable area shall be approved by the Engineer.

The Type 1 SRVD stop bar radar sensor shall be able to detect up to four (4) lanes with eight (8) or sixteen (16) individual zones as indicated in the plans.

Type 2 SRVD stop bar radar sensor shall have all the functionality of the Type 1 SRVD stop bar sensor with the addition of the following:

- Type 2 SRVD stop bar radar sensor shall detect true presence of vehicles whether in motion or still without using Locking or Latching Algorithms.
- Type 2 SRVD stop bar radar sensor shall report presence in lanes with a minimum 90 degree arc from the face of the detector.
- Type 2 SRVD stop bar radar sensor shall be able to detect a minimum of ten (10) lanes.

<u>907-641.02.2.2--Advanced Radar Vehicle Detection</u>. The Type 1 SRVD advanced radar sensor shall be able to detect and report vehicle information such as range and speed when mounted within 50 feet of the center of the lanes of interest. Variance of this distance shall be approved by the Engineer per the application.

The Type 1 SRVD advanced radar sensor shall be forward fired and be able to detect and report vehicle information when mounted at heights above the road surface, as per manufacturer's recommendations.

The Type 1 SRVD advanced radar sensor shall be able to detect and report vehicles on the roadway up to 600 feet from the detector.

The Type 2 SRVD advanced radar sensor shall have all the functionality of the Type 1 SRVD advanced radar sensor with the following additions:

• Type 2 SRVD advanced radar sensor shall be able to detect and report heavy vehicles on the roadway up to 900 feet from the detector.

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• Type 2 SRVD advanced radar sensor shall be able to detect Estimated Time of Arrival (ETA) for vehicles. The advanced radar sensors shall support user configurable upper and lower ETA filters for each zone. The sensors shall support the configuring of ETA filters in increments of 0.1 seconds.

<u>907-641.02.3--Area of Coverage-IRVD</u>. The IRVD's field of view shall cover an area with a minimum detection range of six (6) feet from the IRVD and a maximum detection range of 250 feet from the IRVD.

Delete the title of Subsection 641.02.4 on page 586, and substitute the following.

907-641.02.4--Detection Zones--SRVD.

Delete the title of Subsection 641.02.4.1 on page 586, and substitute the following.

907-641.02.4.1--Stop Bar Radar Vehicle Detection.

After the last sentence of the second paragraph of Subsection 641.02.4.1 on page 586, add the following.

A minimum of one (1) separate detection zone per lane is required.

Delete the title of Subsection 641.02.4.2 on page 586, and substitute the following.

907-641.02.4.2--Advanced Radar Vehicle Detection.

Delete the third paragraph of Subsection 641.02.4.2 on page 586, add the following.

The advanced radar sensors shall provide vehicle call and extend data on up to eight (8) channels that can connect to contact closure modules compliant with NEMA TS 1, NEMA TS 2, and 170/2070 controller cabinets.

Delete the title of Subsection 641.02.5 on page 586, and substitute the following.

907-641.02.5--Detection Zones--IRVD.

Delete the title of Subsection 641.02.6 on page 586, and substitute the following.

907-641.02.6--Capabilities--SRVD.

Delete the title of Subsection 641.02.6.1 on page 587, and substitute the following.

907-641.02.6.1--Stop Bar Radar Vehicle Detection.

Delete the title of Subsection 641.02.6.2 on page 587, and substitute the following.

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907-641.02.6.2--Advanced Radar Vehicle Detection.

After item 2) of Subsection 641.02.6.2 on page 587, add the following.

3) Maintain a detection accuracy of 95% for each detection zone set-up on the graphical user interface.

Delete the title of Subsection 641.02.7 on page 587, and substitute the following.

907-641.02.7--Capabilities--IRVD.

Delete the first sentence of the first paragraph of Subsection 641.02.7 on page 587, and substitute the following.

The IRVD shall detect true presence of vehicles whether in motion or still without using Locking or Latching Algorithms.

Delete item 5) in Subsection 641.02.7 on page 587, and substitute the following.

5) IRVD in forward-looking configuration shall monitor traffic in one lane and be capable providing the following data: Volume, occupancy, average speed and travel direction in the lane.

<u>907-641.02.8--Environmental Conditions and Protection.</u> Delete the last sentence of the first paragraph of Subsection 641.02.8 on page 588, and substitute the following.

Except as stated otherwise herein, the equipment shall meet all its specified requirements during and after subjecting to any combination of the NEMA TS 2-2003 standard and the following:

<u>907-641.02.10--Electrical.</u> Delete the first paragraph of Subsection 641.02.10 on page 588, and substitute the following.

The radar sensors shall consume less than 10 W and shall operate with a DC input between 12 VDC and 28 VDC for IRVD and 9 VDC and 32 VDC for SRVD, or POE. POE injectors shall be approved by the Engineer.

Delete the title of Subsection 641.02.11 on page 589, and substitute the following.

907-641.02.11--Radar Design.

<u>907-641.02.12--Communication Ports.</u> Delete the second sentence of the first paragraph of Subsection 641.02.12 on page 589, and substitute the following.

The IRVD shall be upgradable (optional) to include integral 10/100 Base-T Ethernet supporting TCP, UDP, IP, ARP, ICMP.

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Delete the second sentence of the second paragraph of Subsection 641.02.12 on page 589, and substitute the following.

For SRVD, any external device needed to convert serial to IP Ethernet within the cabinet for remote communications shall be provided with the radar sensor unit at no additional cost.

Delete Subsection 641.02.13 on page 589, and substitute the following.

<u>907-641.02.13--Radar Detection Cabling</u>. All Radar Detection cable shall be paid per the unit cost of the pay item for Radar Detection Cable, as shown on the plans or details. The manufacturer is responsible for obtaining plan sets and ensuring cable lengths are properly measured and accounted for in the bid price for each sensor unit and as shown on the plans.

The cable shall have a single continuous run with no splices, unless inside a manufacturer supplied junction box. The cable shall be terminated only on the two (2) farthest ends of the cable. The cable shall meet the requirements of the manufacturer.

Delete the title of Subsection 641.02.15 on page 590, and substitute the following.

907-641.02.15--Configuration--SRVD.

Delete the title of Subsection 641.02.15.1 on page 590, and substitute the following.

907-641.02.15.1--Stop Bar Radar Vehicle Detection.

Delete the title of Subsection 641.02.15.2 on page 590, and substitute the following.

907-641.02.15.2--Advanced Radar Vehicle Detection.

<u>907-641.03--Construction Requirements</u>. Delete the first sentence of the first paragraph of Subsection 641.03 on page 590, and substitute the following.

Radar Detection System shall be constructed to withstand and operate in sustained winds of up to 90 mph and a 30% gust factor.

Delete the title of Subsection 641.03.1 on page 590, and substitute the following.

907-641.03.1--SRVD Installation Requirements.

Delete the first sentence of the third paragraph of Subsection 641.03.1 on page 590, and substitute the following.

Unused conductors in the cable shall be ground or terminated in the cabinet in accordance with the manufacturer's recommendations.

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Delete the last sentence of the third paragraph of Subsection 641.03.1 on page 590, and substitute the following.

If required by the plans and installation methods, impedance termination and testing of multi drop runs shall be required per RS485 multi-drop standards.

Delete the title of Subsection 641.03.2 on page 591, and substitute the following.

907-641.03.2--IRVD Installation Requirements.

Delete Items 1) and 2) of Subsection 641.03.2 on page 591, and substitute the following.

- 1) The IRVD shall be mounted in side-fired or front facing configuration on poles as shown in the plans, using mounting brackets. The brackets shall be attached with approved 3/4-inch wide stainless steel bands.
- 2) The Contractor shall install the detector unit on a pole at the manufacturer's recommended height above the road surface so that the masking of vehicles is minimized and that all detection zones are contained within the specified elevation angle as suggested by the manufacturer.

Delete Items 4) and 5) of Subsection 641.03.2 on page 591, and substitute the following.

- 4) The IRVD mode of operation, detection zones and other calibration and set up will be performed using a MS WindowsTM based software and a Notebook PC. The software shall allow verification of correct setup and diagnostics. It shall include facilities for saving verification data and collected data as well as saving and retrieving sensor setup from disk file.
- 5) Unused conductors in the ITS Radar Vehicle Detector Cable shall be grounded or terminated in the cabinet in accordance with the manufacturer's recommendations. Terminated conductors shall be individually doubled back and taped, then loosely bundled and secured.

Delete Item 7) of Subsection 641.03.2 on page 591, and substitute the following.

7) Any new, additional or updated drivers required for the existing ATMS software to communicate and control new IRVD installed by the Contractor shall be the responsibility of the Contractor.

Delete Subsection 641.03.3 on pages 591 and 592, and substitute the following.

907-641.03.3--Blank.

Delete Subsection 641.03.4 on page 592, and substitute the following.

907-641.03.4--Blank.

<u>907-641.04--Method of Measurement</u>. Delete the paragraphs of Subsection 641.04 on page 593, and substitute the following.

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The Radar Vehicle Detection Sensors, of the type specified, will be measured as a unit per each.

Radar Vehicle Detection Cable will be measured by the linear foot, measured horizontally along the conduit, messenger cable or mast arm and vertically along the pole.

Radar Vehicle Detection Training will be measured per lump sum.

<u>907-641.05--Basis of Payment.</u> Delete the paragraphs of Subsection 641.05 on pages 593 & 594, and substitute the following.

Radar Vehicle Detection Sensor, of the type specified, measured as prescribed above, will be paid for at the contract unit price bid per each, which price shall be full compensation for furnishing all materials, construction installation, connecting, testing, for all equipment, tools, labor and incidentals required to complete the work. Work shall include furnishing, installing, system integration, testing and training (if required) of complete radar sensor system that includes the unit, cabling between the unit and the cabinet, surge protection devices, communication converters (if required), all conduit, risers and weatherhead between the radar sensors and the cabinet, interconnection wiring, power supply, connections to support structures (includes all incidental components, attachment hardware, mounting brackets, mounting arms, bolts, or any other items to mount the radar sensor as intended), satisfactory completion of testing and training requirements and all work, equipment and appurtenances as required to effect the full operation including remote and local control of the radar site complete in place and ready to use. The price bid shall also include all system documentation including: shop drawings, operations and maintenance manuals, wiring diagrams, block diagrams and other material necessary to document the operation of the radar sensor. Cabinet Interface Units shall be provided, and installed as specified in the plans, which shall be inclusive of any testing, connections, terminations, and testing required for interfacing the radar sensors and signal controller within the signal cabinet environment.

Radar Vehicle Detection Cable will be paid at the contract unit price per linear foot, which price shall be full compensation for all labor, materials, equipment tools, furnishing, installing, system integration, connections, testing, and all incidentals necessary to complete the work.

Radar Vehicle Detection Training, measured as prescribed above, will be paid for as a lump sum unit price.

Delete the pay items listed on page 594, and substitute the following.

907-641-A: Signal Stop Bar Radar Vehicle Detection Sensor, Type _____ - per each

907-641-B:	Signal Advanced Radar Vehicle Detection Sensor, Type	- per each
907-641-C:	ITS Radar Vehicle Detection Sensor	- per each
907-641-D:	Radar Vehicle Detection Cable	- linear foot
907-641-E:	Radar Vehicle Detection Training	- lump sum

SPECIAL PROVISION NO. 907-701-3

CODE: (SP)

DATE: 05/04/2021

SUBJECT: Hydraulic Cement

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

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

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

907-701.02--Portland Cement.

907-701.02.1-General.

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

When used in portland cement concrete, the total alkali contribution from all cement types in this Subsection shall not exceed 4.0 lb. per cubic yard of concrete calculated as follows:

lb alkali per cu Yd = $\frac{(lb \text{ cement per cu Yd})x(\%Na_20 \text{ equivalent in cement})}{100}$

In the above calculation, the maximum cement alkali content reported on the cement mill certificate shall be used. An example calculation can be found in the Department's *Concrete Field Manual*.

<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>.

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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 ₄) in soil, % by mass	Sulfate (SO ₄) in water, ppm	Cementitious material required
Moderate and Seawater	0.10 - 0.20	150 - 1,500	Type I cement with one of the following replacements of cement by weight: 24.5 - 25.0% Class F fly ash, or 49.5 - 50.0% GGBFS or Type II ^{*,**} 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* cement with one of the following replacements of cement by weight: 24.5 - 25.0% Class F fly ash, or 49.5 - 50.0% GGBFS

 Table 1- Cementitious Materials for Soluble Sulfate Conditions or Seawater

- * Type III cement conforming to AASHTO M85 with a maximum 8% tricalcium aluminate (C₃A) 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)."
- ** 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.

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<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.

The blended cement manufacturer shall include the percent equivalent alkalis as Na₂O on their cement mill reports.

When calculating the total alkali contribution with blended cements, use the equivalent alkali content of the base portland cement. An example calculation for cases where blended cements are used can be found in the Department's *Concrete Field Manual*.

<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 ₄)	Cementitious material required
Exposure	sulfate (SO4) 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.

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SPECIAL PROVISION NO. 907-702-4

CODE: (IS)

DATE: 09/11/2018

SUBJECT: Bituminous Materials

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

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

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

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

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

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

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

TABLE VSPECIFICATION FOR FOG SEAL

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

SPECIAL PROVISION NO. 907-703-1

CODE: (IS)

DATE: 06/13/2018

SUBJECT: Gradation

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

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

907-703.03.2--Detail Requirements.

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

SPECIAL PROVISION NO. 907-705-1

CODE: (IS)

DATE: 06/13/2018

SUBJECT: Stone Riprap

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

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

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

SPECIAL PROVISION NO. 907-707-2

CODE: (IS)

DATE: 06/05/2019

SUBJECT: Joint Materials

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

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

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

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

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

SPECIAL PROVISION NO. 907-711-2

CODE: (IS)

DATE: 09/11/2018

SUBJECT: Plain Steel Wire

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

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

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

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

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

SPECIAL PROVISION NO. 907-714-1

CODE: (SP)

DATE: 05/25/2021

SUBJECT: Miscellaneous Materials

Section 714, Miscellaneous Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

<u>907-714.01--Water.</u>

<u>907-714.01.1--General.</u> Delete the last sentence of the second paragraph in Subsection 714.01.1 on page 794.

<u>907-714.01.2--Water for Use in Concrete.</u> Delete Subsection 714.01.2 on page 794, and substitute the following:

Water from municipal sources is permitted be used as mixing water in concrete, mortar, and grout without Department testing. Water from non-municipal water sources used in mixing of concrete, mortar, and grout which does not meet the requirements in Subsection 714.01.1 shall be tested for conformance as required in AASHTO M157, Table 1 and Table 2.

<u>907-714.01.3--Water for Use in Chemically Stabilized Based.</u> Delete the first sentence of first paragraph in Subsection 714.01.3 on page 794, and substitute the following:

Water used in the construction of bases that contain cement, lime, or other chemical additive shall be as set out in Subsection 714.01.1. Water from municipal sources is permitted to be used without testing for conformance to the requirements below. If water is not from a municipal source, it shall not contain impurities in excess of the following limits:

Delete Subsection 714.01.6 on page 795, and substitute the following.

907-714.01.6--Blank.

Delete Subsection 714.15 on pages 816 and 817 and substitute the following.

907-714.15--Geogrids.

<u>907-714.15.1–General</u>. A geogrid is defined as a geosynthetic formed by a regular network of connected elements with apertures greater than 0.25 inch to allow interlocking with surrounding soil, rock, and other surrounding materials to function primarily as reinforcement.

Geogrid shall be manufactured from an expanded strain hardened monolithic polymer sheet

composed of one or more synthetic polymers and shall be mildew resistant and inert to biological degradation and naturally encountered chemicals, alkalis and acids. The geogrid shall contain stabilizers and/or inhibitors, or a resistance finish or covering to make it resistant to deterioration from direct sunlight, ultraviolet rays, and heat.

Geogrid manufacturers shall participate in and be in compliance with the American Association of State Highway Transportation Officials (AASHTO) National Transportation Product Evaluation Program's (NTPEP) Geosynthetics audit program. Geogrid shall meet the requirements of Table II for the application and type shown on the plans and shall be selected from the Department's Approved Lists.

<u>907-714.15.1.1--Geogrid for Retaining Walls and Reinforced Soil Slopes</u>. Geogrid for retaining walls and reinforced soil slopes shall be creep tested in accordance with AASHTO R69 and meet Long Term Design Load, Minimum Ultimate Tensile Strength, and open area criteria listed in Table II. Manufacturers shall perform at least one long-term creep test for no less than 10,000 hours in accordance to ASTM D 5262 for each polymer or composition of polymers from which the geogrid is produced. The long-term design load that shall be reported for design use, shall be that load at which no more than 10% strain occurs over a 100-year design life of the geogrid, as calculated in accordance with AASHTO R69. Long-term design loads shall be reported unfactored, and the AASHTO strength reduction factors (Durability and Installation, and safety factors) will be considered by the Department's Geotechnical Branch on a site specific design basis.

<u>907-714.15.1.2--Geogrid for Subgrade Stabilization</u>. Geogrid for subgrade stabilization shall meet Minimum Ultimate Tensile Strength and open area criteria listed in Table II.

<u>907-714.15.2--Marking, Shipment, and Storage</u>. Each roll or container of geogrid shall be visibly labeled with the name of the manufacturer, trade name of the product, lot number, and quantity of material. In addition, each roll or container shall be clearly tagged to show the type designation that corresponds to that required by the plans. During shipment and storage the geogrid shall be protected from direct sunlight, and temperatures above 120°F or below 0°F. The geogrid shall either be wrapped and maintained in a heavy duty protective covering or stored in a safe enclosed area to protect from damage during prolonged storage.

<u>907-714.15.3--Manufacturer Certification</u>. The Contractor shall furnish the Engineer three copies of the manufacturer's certified test reports indicating that the geogrid furnished conforms to the requirements of the specifications and is of the same composition as the originally approved by the Department.

<u>907-714.15.4--Acceptance Sampling and Testing</u>. Final acceptance of each shipment will be based upon results of tests performed by the Department on verification samples submitted from the project, as compared to the manufacturer's certified test reports. The Engineer will select one roll or container at random from each shipment for sampling. As sample extending full width of the randomly selected roll or container and being at least five (5) square yards in area will be obtained and submitted by the Engineer. All material samples shall be provided at no cost to the State.

TABLE II **GEOGRIDS**

Physical Properties		Type Designation					Test Method
	Ι	II	III	IV	V	VI	
Long Term Design Load ¹ , pounds per foot, Machine Direction	250	500	750	1500	2500	3500	AASHTO R69, ASTM D5262
Minimum Ultimate Tensile Strength ² , pounds per foot, Machine Direction	500	1000	1500	3000	5000	7000	ASTM D6637
Open Area, percent	70	70	50	50	50	50	Direct Measurement

¹ Minimum design criteria requirement.
 ² Minimum Average Roll Value (MARV).

SPECIAL PROVISION NO. 907-720-2

CODE: (IS)

DATE: 09/11/2018

SUBJECT: Acceptance Procedure for Glass Beads

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

907-720.01--Glass Beads.

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

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

SPECIAL PROVISION NO. 907-721-2

CODE: (IS)

DATE: 01/08/2020

SUBJECT: Materials for Signing

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

907-721.06--Reflective Sheeting.

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

MINIMUM COEFFICIENTS OF RETROREFLECTION Candela per foot candle per square foot (cd/fc/ft²) Per ASTM Designation D4956

TABLE 4 Type IX Sheeting

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

TABLE 5 Type XI Sheeting

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

SPECIAL PROVISION NO. 907-722-1

CODE: (IS)

DATE: 11/15/2017

SUBJECT: Materials for Traffic Signal Installation

Section 722, Materials for Traffic Signal Installation, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follow.

<u>907-722.02.3--Design Strength Requirements</u>. Delete Subsection 722.02.3 on pages 864 thru 866, and substitute the following.

Unless specified otherwise in the plans, poles shall meet the requirements of the AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals,* as specified in the plans with all interim supplements. All components of the assemblies shall be designed to the following:

- Importance Factor: 1.0; 50 year mean recurrence interval
- Basic Wind Speed (3 second gust): As shown on the project plans
- Minimum Gust Effect Factor: 1.14
- Fatigue Category: II
- Ice Loading: As shown on the project plans
- Natural Wind Gust Pressure Loads: Included
- Truck Induced Gust Pressure Loads: Not included
- Galloping: Not included

<u>907-722.02.5--Mast Arms for Traffic Signal and Equipment Poles</u>. Delete the first four sentences of the third paragraph of Subsection 722.02.5 on page 867, and substitute the following.

Anchor base plates must meet the minimum requirements of ASTM A36 or ASTM A709 Grade 36 or ASTM A572 Grade 50 and must be welded to the shaft by either telescoped with two continuous arc welds or by back up ring using full penetration welds. Flange plate shall telescope the large end of the arm and be welded by either two (2) continuous arc welds, one (1) being on the outside of the plate, adjacent to the shaft, and the other one (1) on the inside at the end of the tubular cross section or by back up ring using full penetration welds. The thru-bolt flange plate or tapped flange plate supporting the mast arm shall be welded to the pole near the top and supported side plate tangent to the pole and gusset plates both top and bottom. The thru-bolt or tapped flange plate must be sufficient to develop the full capacity of the connecting bolts.

<u>907-722.03--Electric Cable.</u> Delete the paragraphs for Loop Detector Wire and Loop Detector Lead-in Cable in Subsection 722.03 on page 869.

Delete the first sentence of "Communication Cable" in Subsection 722.03 on page 870, and substitute the following.

Communication cables shall be as per the manufacturer's recommendation.

<u>907-722.05.4--Type III or Type IV Rigid Non-Metallic Conduit.</u> After the last sentence of Subsection 722.05.4 on page 871, add the following.

- 2 -

Schedule 40 conduit shall be used unless otherwise noted in the plans.

Delete the title of Subsection 722.13.3 on page 876, and substitute the following.

907-722.13.3--Power Service Pedestal.

Delete the first paragraph of Subsection 722.13.3 on page 876, and substitute the following.

The pedestal shall be of NEMA Type 3R rainproof construction and shall be UL Listed as "Enclosed Industrial Control Equipment" (UL 508A). External construction shall comply with UL50 requirements and shall be unpainted aluminum.

Nominal size of the pedestal shall be 48"H x 16"W x 16"D.

Pedestal shall have a voltage rating or 120v/240v single phase with an Amperage rating of 800A.

After the first sentence of the seventh paragraph of Subsection 722.13.3 on page 876, add the following.

An outdoor rated heavy duty combination lock shall be provided to lock the customer compartment door.

<u>907-722.14.1.3--Optical System.</u> Delete the sixteenth paragraph of Subsection 722.14.1.3 on page 879, and substitute the following.

The signal module on-board circuitry shall include voltage surge protection to withstand high-repetition noise transients and low-repetition high-energy transients as stated in Section 2.1.6, NEMA Standard TS 2, 1992.

Delete the last sentence of the seventeenth paragraph of Subsection 722.14.1.3 on page 879, and substitute the following.

Load switches shall be compatible with NEMA TS 1 or later, or Model 170-1989 or later.

Delete Subsection 722.14.5 on page 882, and substitute the following.

907-722.14.5--Blank.

Delete Subsections 722.14.7 and 722.14.8 on page 882.

SPECIAL PROVISIONS NO. 907-823-7

CODE: (SP)

DATE: 10/13/2020

SUBJECT: Preformed Joint Seal

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

SECTION 907-823--PREFORMED JOINT SEAL

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

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

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

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

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

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

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

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

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

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

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

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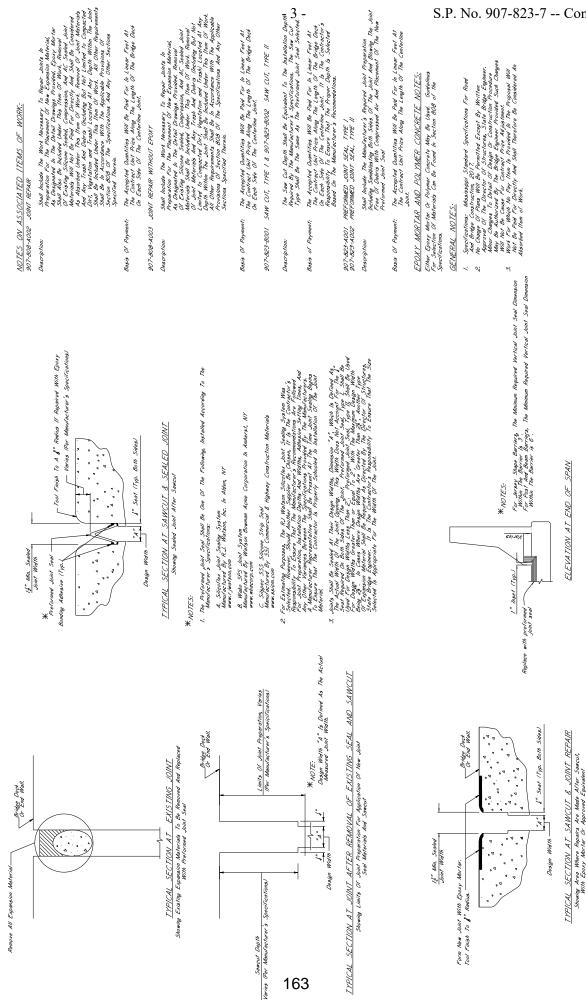
Payment will be made under:

907-823-A: Preformed Joint Seal, Type

907-823-B: Saw Cut, Type _____

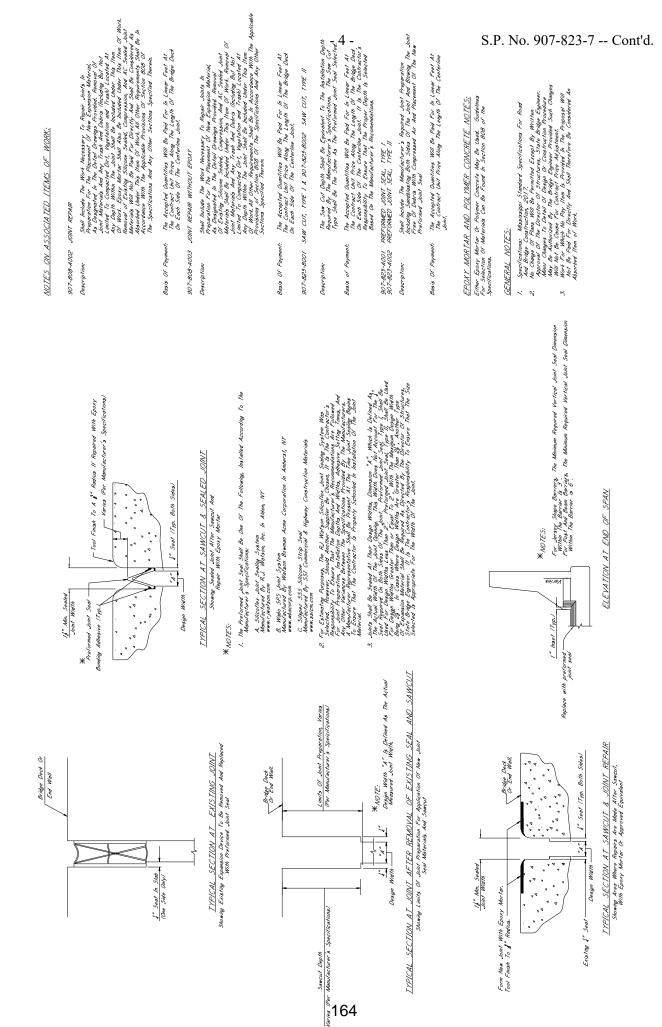
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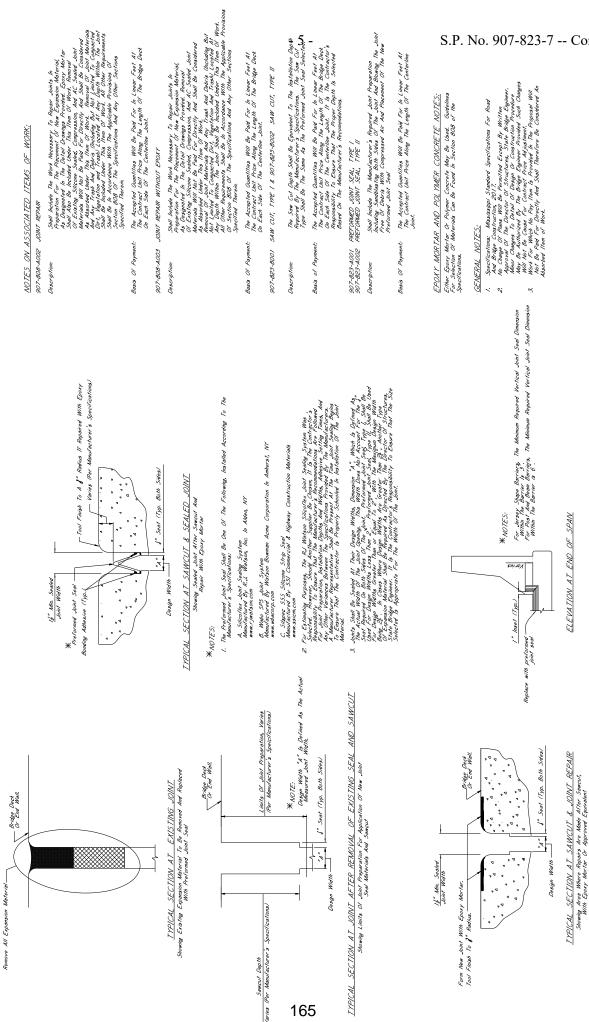
- per linear foot



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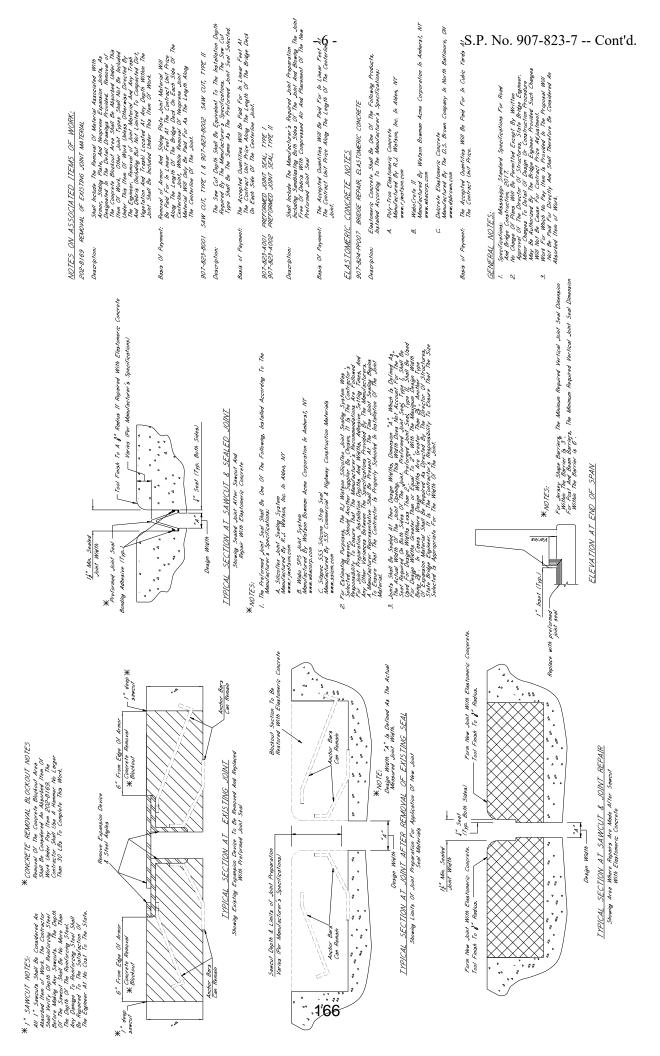
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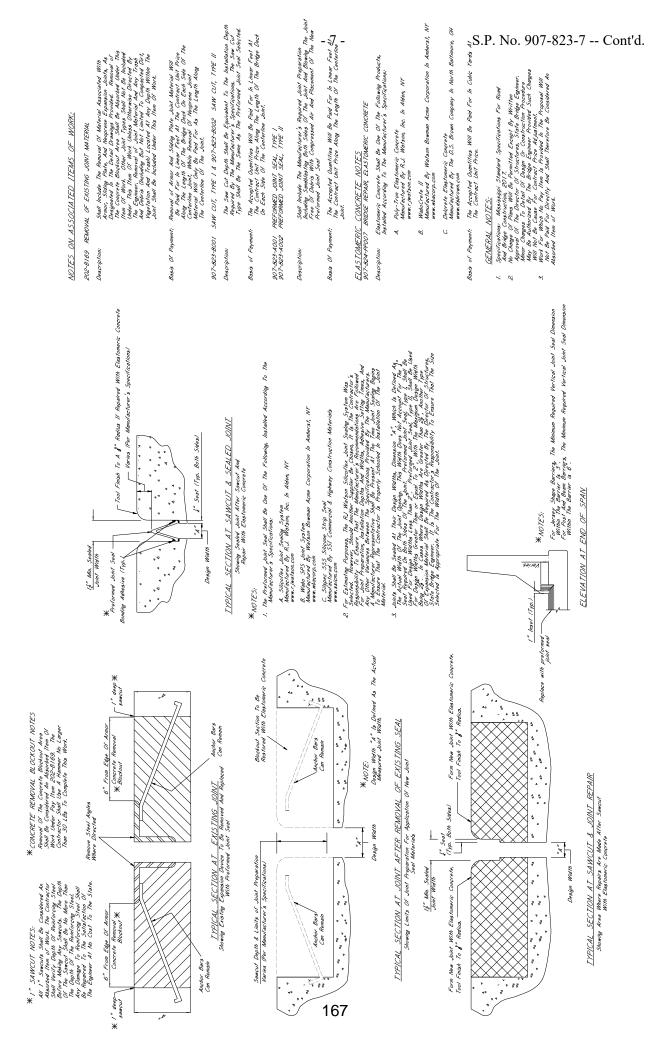


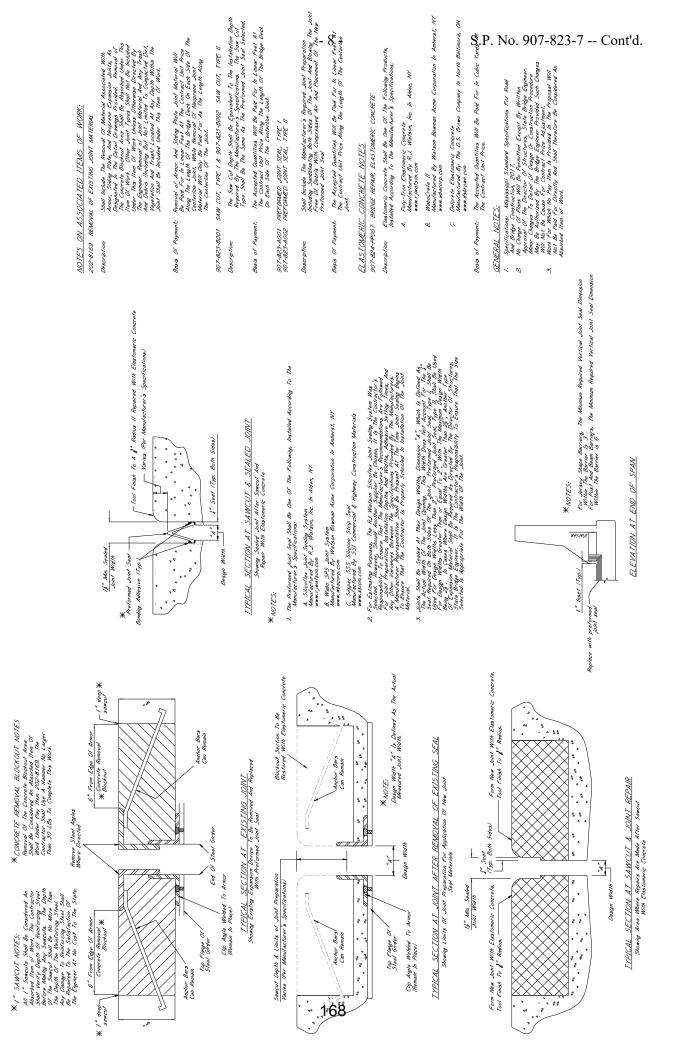


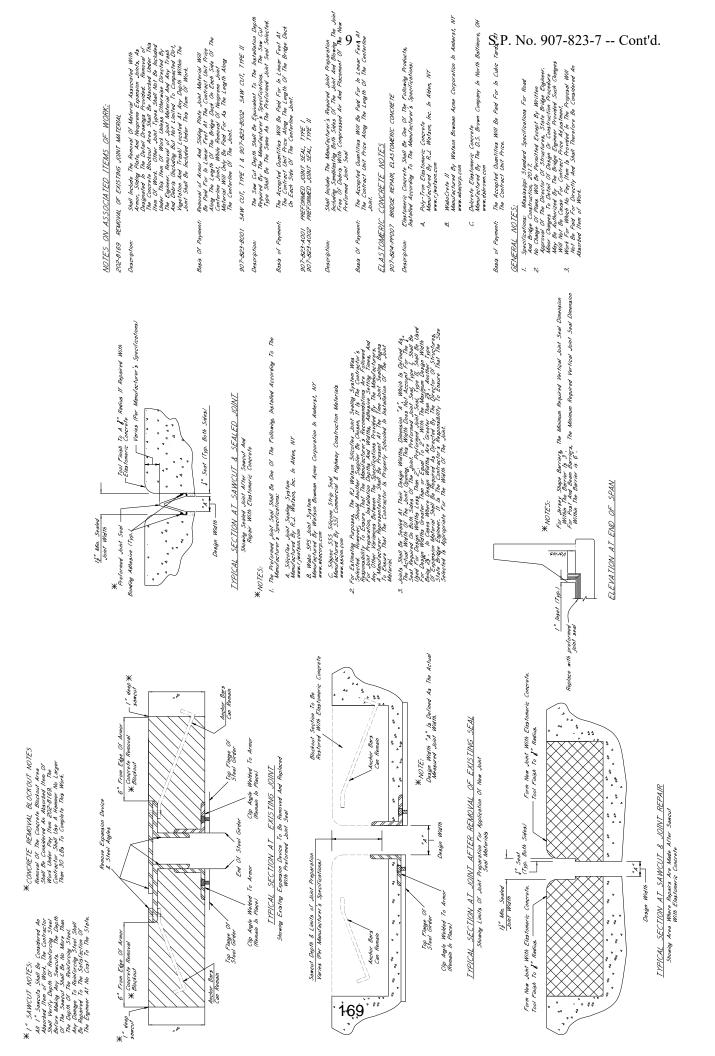
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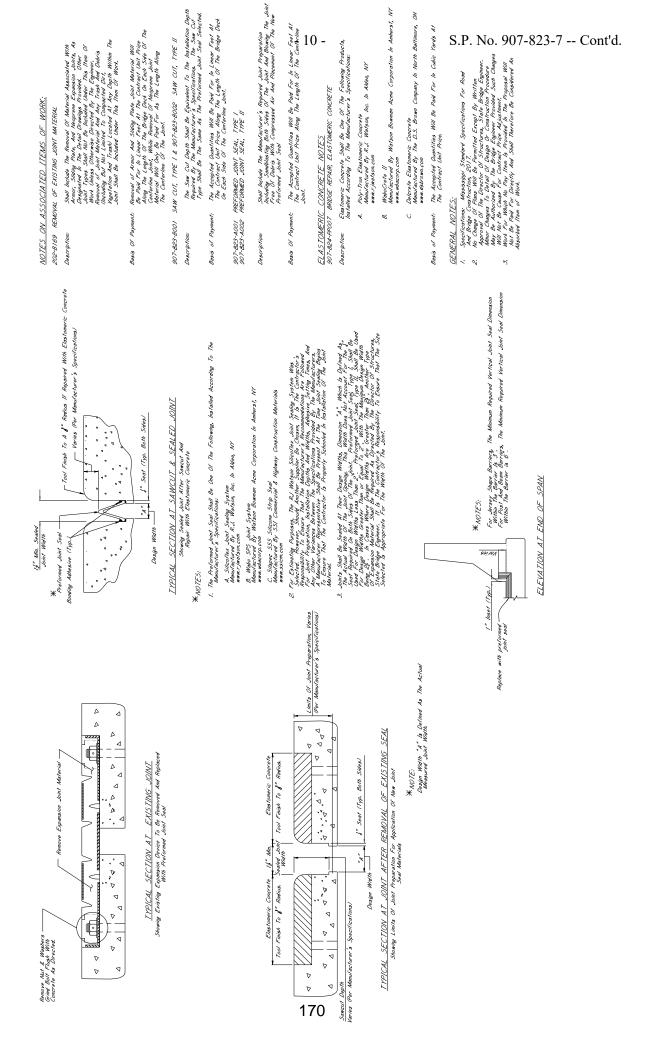
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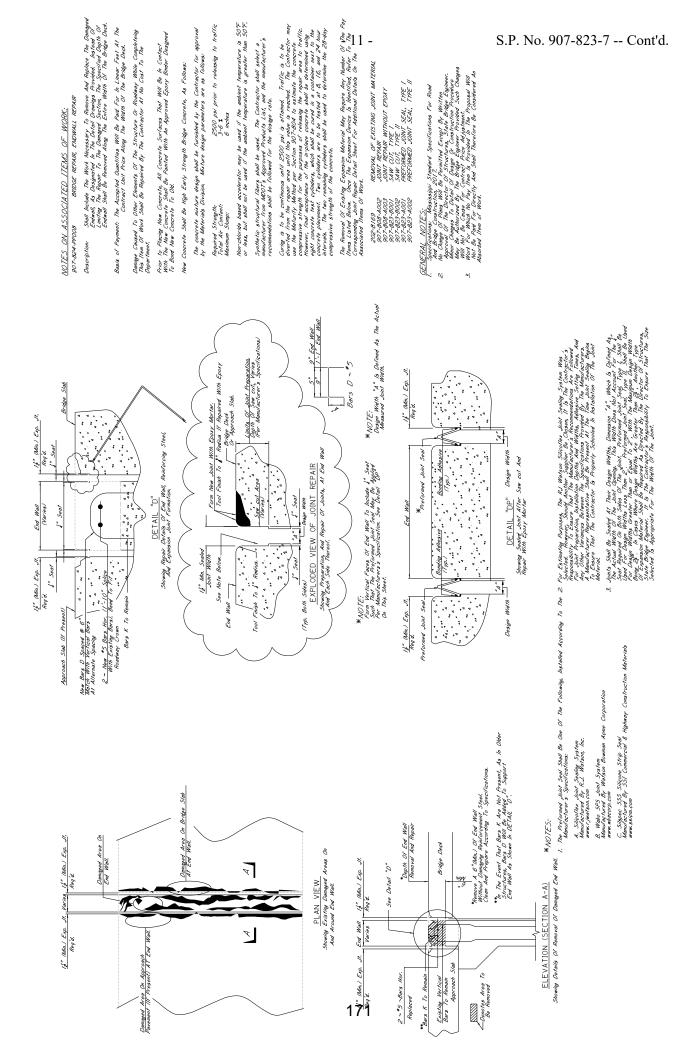












SPECIAL PROVISION NO. 907-899-1

CODE: (SP)

DATE: 01/17/2017

SUBJECT: Railway-Highway Provisions

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

SECTION 907-899--RAILWAY-HIGHWAY PROVISIONS

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

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

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

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

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

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

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

907-899.02--Blank.

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

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

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

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

Payment will be made under:

907-899-A: Railway-Highway Provisions

- lump sum

SECTION 905 - PROPOSAL

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

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

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

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

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

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

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

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

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

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

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

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

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

	Respectfully Submitted,
	DATE
	6
	Contractor BY
	Signature
	TITLE
	ADDRESS
	CITY, STATE, ZIP
	PHONE
	FAX
	E-MAIL
(To be filled in if a corporation)	
Our corporation is chartered under the Laws of the names, titles and business addresses of the executives are as	State of and the follows:
President	Address
Secretary	Address
Treasurer	Address

The following is my (our) itemized proposal.

Mill & Overlay approximately 10 miles on US 49 from 0.45 miles north of I-220 to the Madison County Line, known as State Project No. SP-0008-03(058) / 108231301 in Hinds County.

Line no.	Item Code	Adj Code	Quantity	Units Roadway It	Description[Fixed Unit Price]
0010	202-B009		1,418	Square Yard	Removal of Asphalt Pavement, Failed Areas
0020	202-B069		937	Square Yard	Removal of Concrete Pavement w/ Variable Depth Overlay
0030	202-B158		4,125	Linear Feet	Removal of Guard Rail, Including Rails, Posts and Terminal Ends
0040	202-B240		990	Linear Feet	Removal of Traffic Stripe
0050	203-G001	(E)	785	Cubic Yard	Excess Excavation, FM, AH
0060	304-B003	(GT)	11,091	Ton	Granular Material, Class 5, Group C
0070	310-B001	(GT)	200	Ton	Size I Stabilizer Aggregate, Coarse
0080	403-A013	(BA1)	8,436	Ton	9.5-mm, HT, Asphalt Pavement
0090	403-A015	(BA1)	8,131	Ton	9.5-mm, ST, Asphalt Pavement
0100	403-B001	(BA1)	1,745	Ton	12.5-mm, HT, Asphalt Pavement, Leveling
0110	403-B010	(BA1)	2,605	Ton	9.5-mm, HT, Asphalt Pavement, Leveling
0120	403-D007	(BA1)	28,460	Ton	9.5-mm, HT, Asphalt Pavement, Polymer Modified
0130	406-D001		552,059	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0140	407-A001	(A2)	42,180	Gallon	Asphalt for Tack Coat
0150	413-D002		69,015	Linear Feet	Cleaning and Filling Joints
0160	413-E001		69,430	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
0170	423-A001		31	Mile	Rumble Strips, Ground In
0180	503-C010		1,566	Linear Feet	Saw Cut, Full Depth
0190	601-B001	(S)	2	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0200	606-B003		2,850	Linear Feet	Guard Rail, Class A, Type 1, 'W' Beam, Metal Post
0210	606-C001		13	Each	Guard Rail, Cable Anchor Type 1, Metal Post
0220	606-D005		2	Each	Guard Rail, Bridge End Section, Type A
0230	606-D012		2	Each	Guard Rail, Bridge End Section, Type D Modified
0240	606-E007		17	Each	Guard Rail, Terminal End Section, Non-Flared
0250	618-A001		1	Lump Sum	Maintenance of Traffic
0260	619-A1001		43	Mile	Temporary Traffic Stripe, Continuous White
0270	619-A2001		45	Mile	Temporary Traffic Stripe, Continuous Yellow
0280	619-A3001		43	Mile	Temporary Traffic Stripe, Skip White
0290	619-A5001		49,000	Linear Feet	Temporary Traffic Stripe, Detail
0300	619-A6002		914	Linear Feet	Temporary Traffic Stripe, Legend
0310	619-D1001		32	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0320	619-D2001		552	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0330	619-G4005		48	Linear Feet	Barricades, Type III, Single Faced
0340	620-A001		1	Lump Sum	Mobilization
0350	626-A001		21	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip White

(Date Printed 05/26/21)

Line no. 0360	Item Code 626-B002	Adj Code	Quantity 18	Units Mile	Description[Fixed Unit Price] 6" Thermoplastic Double Drop Traffic Stripe, Continuous White
0370	626-E001		21	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0380	626-G004		43,005	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0390	626-G005		5,995	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
0400	626-Н002		914	Linear Feet	Thermoplastic Double Drop Legend, White
0410	627-J001		1,658	Each	Two-Way Clear Reflective High Performance Raised Markers
0420	627-K001		4,338	Each	Red-Clear Reflective High Performance Raised Markers
0430	627-L001		94	Each	Two-Way Yellow Reflective High Performance Raised Markers
0440	630-A001		170	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
0450	630-A003		168	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0460	630-A005		54	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.1" Thickness
0470	630-B002		404	Square Feet	Interstate Directional Signs, Bolted Extruded Aluminum Panels, Ground Mounted
0480	630-C003		372	Linear Feet	Steel U-Section Posts, 3.0 lb/ft
0490	630-E004		75	Pounds	Structural Steel Angles & Bars, 7/16" x 2 1/2" Flat Bar
0500	630-F006		106	Each	Delineators, Guard Rail, White
0510	630-F007		27	Each	Delineators, Guard Rail, Yellow
0520	630-G004		4	Each	Type 3 Object Markers, OM-3R or OM-3L
0530	630-K001		32	Linear Feet	Welded & Seamless Steel Pipe Posts, 3 1/2"
0540	630-K003		108	Linear Feet	Welded & Seamless Steel Pipe Posts, 4"
0550	907-641-A002		8	Each	Signal Stop Bar Radar Vehicle Detection Sensor, Type 2
0560	907-641-B002		2	Each	Signal Advanced Radar Vehicle Detection Sensor, Type 2
0570	907-641-D001		2,260	Linear Feet	Radar Vehicle Detection Cable
0580	907-899-A001		1	Lump Sum	Railway-Highway Provisions
				Bridge Iter	ms
0590	907-823-A001		234	Linear Feet	Preformed Joint Seal, Type I
0600	907-823-B001		312	Linear Feet	Saw Cut, Type I
0610	907-824-PP006		2	Each	Bridge Repair, Pressure Relief Joint

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
510
(a) If Combination A has been selected, your Combination Bid is complete.(b) If Combination B has been selected, then complete the following page.

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									
U	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. <u>SP-0008-03(058)/ 108231301000</u>
in <u>Hinds</u> County(ies), Mississippi, has not either directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its corporate officers or principal owners.
Except as noted hereafter, it is further certified that said legal entity and its corporate officers, principal owners, managers, auditors and others in a position of administering federal funds are not currently under suspension, debarment, voluntary exclusion or determination of ineligibility; nor have a debarment pending; nor been suspended, debarred, voluntarily excluded or determined ineligible within the past three years by the Mississippi Transportation Commission, the State of Mississippi, any other State or a federal agency; nor been indicted, convicted or had a civil judgment rendered by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.
Do exceptions exist and are made a part thereof? Yes / No
Any exceptions shall address to whom it applies, initiating agency and dates of such action.
Note: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.

All of the foregoing is true and correct.

(1/2016 S)

CONTRACT FOR SP-0008-03(058)/ 108231301000

LOCATED IN THE COUNTY(IES) OF Hinds

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.

his the day of,
MISSISSIPPI TRANSPORTATION COMMISSION
ByExecutive Director
Secretary to the Commission
Secretary to the Commission
ortation Commission in session on the day of, Page No

S E C T I O N 903 PERFORMANCE AND PAYMENT BOND

CONTRACT BOND FOR: SP-0008-03(058)/ 108231301000

LOCATED IN THE COUNTY(IES) OF: Hinds

STATE OF MISSISSIPPI, COUNTY OF HINDS

Know all men by thes	ce presents: that we,(Contractor)	
	(Contractor)Principal, a	
residing at	in the State of	
and		6
residing at	(Surety) in the State of	,
	ness in the State of Mississippi, under the laws thereof, as su d and firmly bound unto the State of Mississippi in the sum	
(\$) Dollars, lawful money of the United States of	f America, to be paid to it for which
payment well and trul	ly to be made, we bind ourselves, our heirs, administrators,	successors, or assigns jointly and
severally by these pre	sents.	
The conditions of this	bond are such, that whereas the said	
principal, has (have) e	entered into a contract with the Mississippi Transportation C	Commission, bearing the date of
day of	A.D hereto annexed, for th	e construction of certain projects(s) in
the State of Mississip	pi as mentioned in said contract in accordance with the Con	tract Documents therefor, on file in the
Now therefore, if the	ippi Department of Transportation, Jackson, Mississippi. above bounden	
isingular the terms, co observed, done, kept material and equipme specifications and sp contemplated until its and save harmless sai the negligence, wrong	in all things shall stand to and abide by and well and true ovenants, conditions, guarantees and agreements in said co and performed and each of them, at the time and in the ent specified in said contract in strict accordance with the ecial provisions are included in and form a part of said of s final completion and acceptance as specified in Subsecti id Mississippi Transportation Commission from any loss of gful or criminal act, overcharge, fraud, or any other loss of eir) agents, servants, or employees in the performance of	ontract, contained on his (their) part to be e manner and form and furnish all of the e terms of said contract which said plans, contract and shall maintain the said work on 109.11 of the approved specifications, or damage arising out of or occasioned by or damage whatsoever, on the part of said

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,

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

KNOW ALL MEN BY THESE PRE	SENTS, that we			
			Contractor	
			Address	
			City, State ZIP	
As principal, hereinafter called the Pr	rincipal, and		Surety	
a corporation duly organized under th			Surety	
as Surety, hereinafter called the Suret	ty, are held and firmly	bound unto <u>State</u>	of Mississippi, Jack	son, Mississippi
As Obligee, hereinafter called Oblige	e, in the sum of Five	e Per Cent (5%) of A	mount Bid	
	Dollars(\$)	
for the payment of which sum will a executors, administrators, successors				ourselves, our heirs,
WHEREAS, the Principal has submit north of I-220 to the Madison Count County. NOW THEREFORE, the condition of said Principal will, within the time re performance of the terms and condition will pay unto the Obligee the different which the Obligee legally contracts we but in no event shall liability hereunded	This obligation is such quired, enter into a for ons of the contract, the ine in money between vith another party to p	that if the aforesaid I rmal contract and given this obligation to b the amount of the bi- erform the work if the	0008-03(058) / 1082 Principal shall be awa e a good and sufficie e void; otherwise the d of the said Principa	31301 in Hinds rded the contract, the nt bond to secure the Principal and Surety and the amount for
Signed and sealed this	day of	, 2	20	
	(Principal)			(Seal)
	(Name) B	y: (Title)		
(Witness)	(Name)	(little)		
	(Surety)	(Seal)		
(Witness)	(Attorney-in-Fa	By:		
	(MS Agent)			
	Missis	sippi Insurance ID Nu	umber	

FORM CSD-612 Rev. 1 / 2015																			
WORK PHASE DESCRIPTION	LINE NUMBERS	JAN FEB	MAR AP	APRIL MAY	, JUNE	JULY	AUGUST	SEPTEMBER	SEPTEMBER OCTOBER	NOV DEC JAN FEB	MAR	APRIL	MAY JUNE	JULY	AUGUST	T SEPTEMBER	ER OCTOBER	NOV DEC	
Miscellaneous	30,40, 190 - 340, 440 - 610						0									202			
ili, Pave, anular Materi:	Mill, Pave, Granular Material 10, 20, 50 - 180						ю н									197			
Permament Stripe 350 - 430	pe 350 - 430															197	203 8		
NO/E	LET: 06/22/2021 NOA: 07/13/2021																		
NTP/BC W.D	NTP/BCT: 08/12/2021 W.D.: 202																		
	MONTH	IAN FFR	MAR				ALIGUET	SEPTEMBER	OCTORER	NOV DEC.IAN FER	MAR				ALIGUET	T SEPTEMBER	OCTORER	NOV DEC VICTORIA	172
ANTICIPATED	ANTICIPATED WORKING DAYS PER MONTH	6 7	+		+	,	10000				1111	_			t	t			

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.