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SM No. CSP0610000181

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

06

Overlay approximately 16 miles of SR 448 from SR 1 to US 61, known as State
Project No. SP-0610-00(018) / 108694301 in Bolivar County.

Project Completion: 181 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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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PROJECT: SP-0610-00(018)/108694301 - Bolivar

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

06/29/2023 09:53 AM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Tuesday, July 25, 2023, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Overlay approximately 16 miles of SR 448 from SR 1 to US 61, known as State Project No. SP-0610-00(018) / 108694301 in Bolivar 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 <http://shop.mdot.ms.gov> at no cost. Upon approval, Contractors shall be eligible to submit a bid using Bid Express at <http://bidx.com>. Specimen proposals may be viewed and downloaded online at no cost at <http://mdot.ms.gov> or purchased online at <http://shop.mdot.ms.gov> at a cost of Ten Dollars (\$10.00) per proposal plus a small convenience fee. Cash or checks will not be accepted as payment.

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.

BRAD WHITE
EXECUTIVE DIRECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO NOTICE TO BIDDERS NO. 1

DATE: 06/08/2021

SUBJECT: Governing Specifications

Change the web address at the end of the first paragraph to the following.

<https://shop.mdot.ms.gov/default.aspx?StoreIndex=1>

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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 as 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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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_wgths/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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

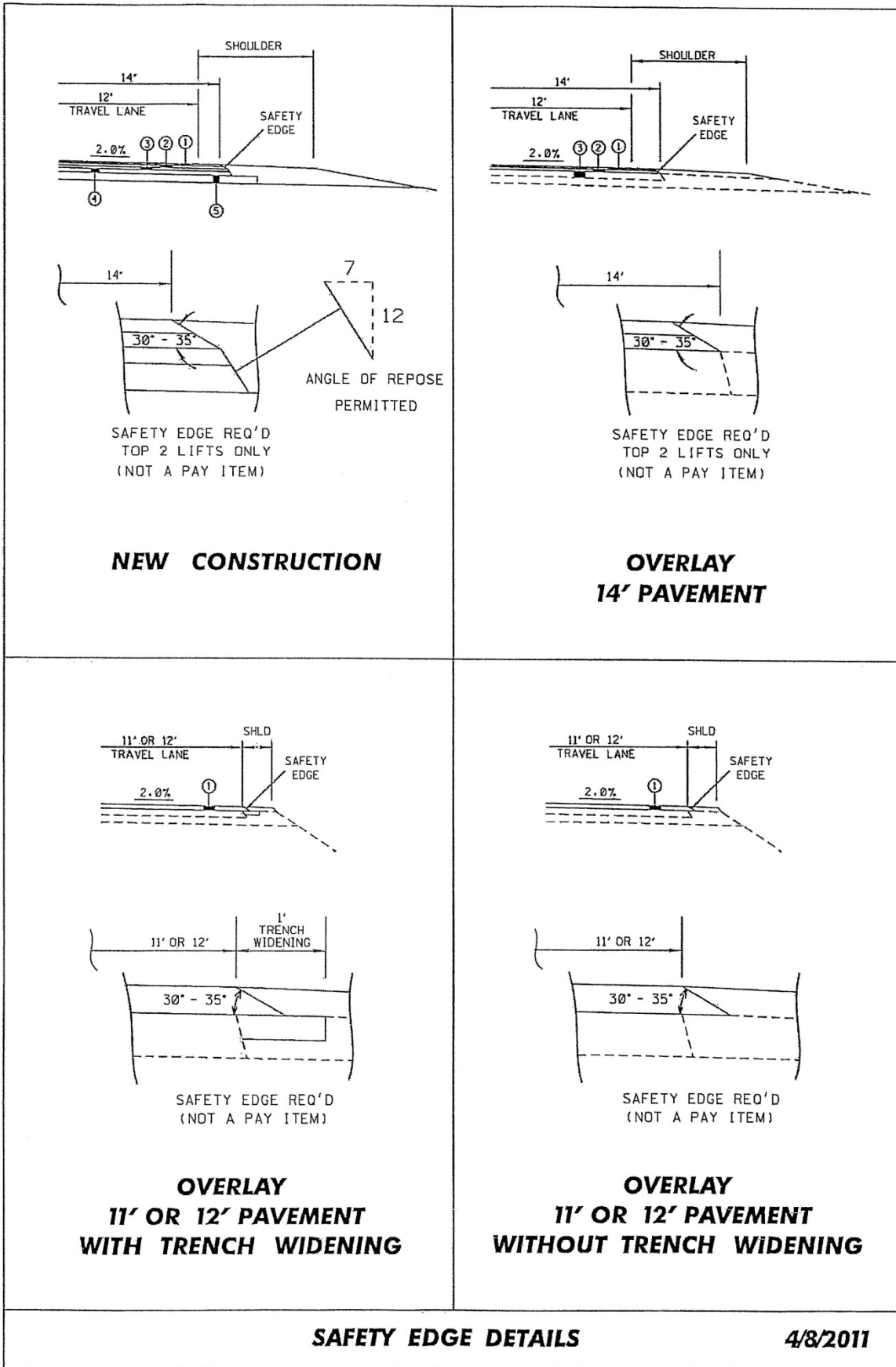
SECTION 904 - NOTICE TO BIDDERS NO. 13

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').



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 516

CODE: (IS)

DATE: 11/28/2017

SUBJECT: Errata and Modifications to the 2017 Standard Specifications

| <u>Page</u> | <u>Subsection</u> | <u>Change</u> |
|-------------|-------------------|--|
| 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 “AASHTO” to “AASHTO’s LRFD”. |
| 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.” |

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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 will not 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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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

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.



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^{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

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.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO NOTICE TO BIDDERS NO. 2654

DATE: **05/02/2020**

The goal is 4 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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

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.

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, submitted to MDOT Contract Administration Division prior to bid opening, 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 re-advertised.

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 minority-focus 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.

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 www.mdot.ms.gov. 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 Prime or any Subcontractor 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.

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 certified 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 60 percent of the expenditures to suppliers that are not manufacturers, 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 will not count towards the DBE goal
- (7) Only the dollars actually paid 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 adequate good faith

efforts 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.

- (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 contract goal established 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 "CONTRACT GOAL" 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 **signed form with bid proposal** 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.
- (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 www.mdot.ms.gov 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.**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2954

CODE: (IS)

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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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 **video conference only**. 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

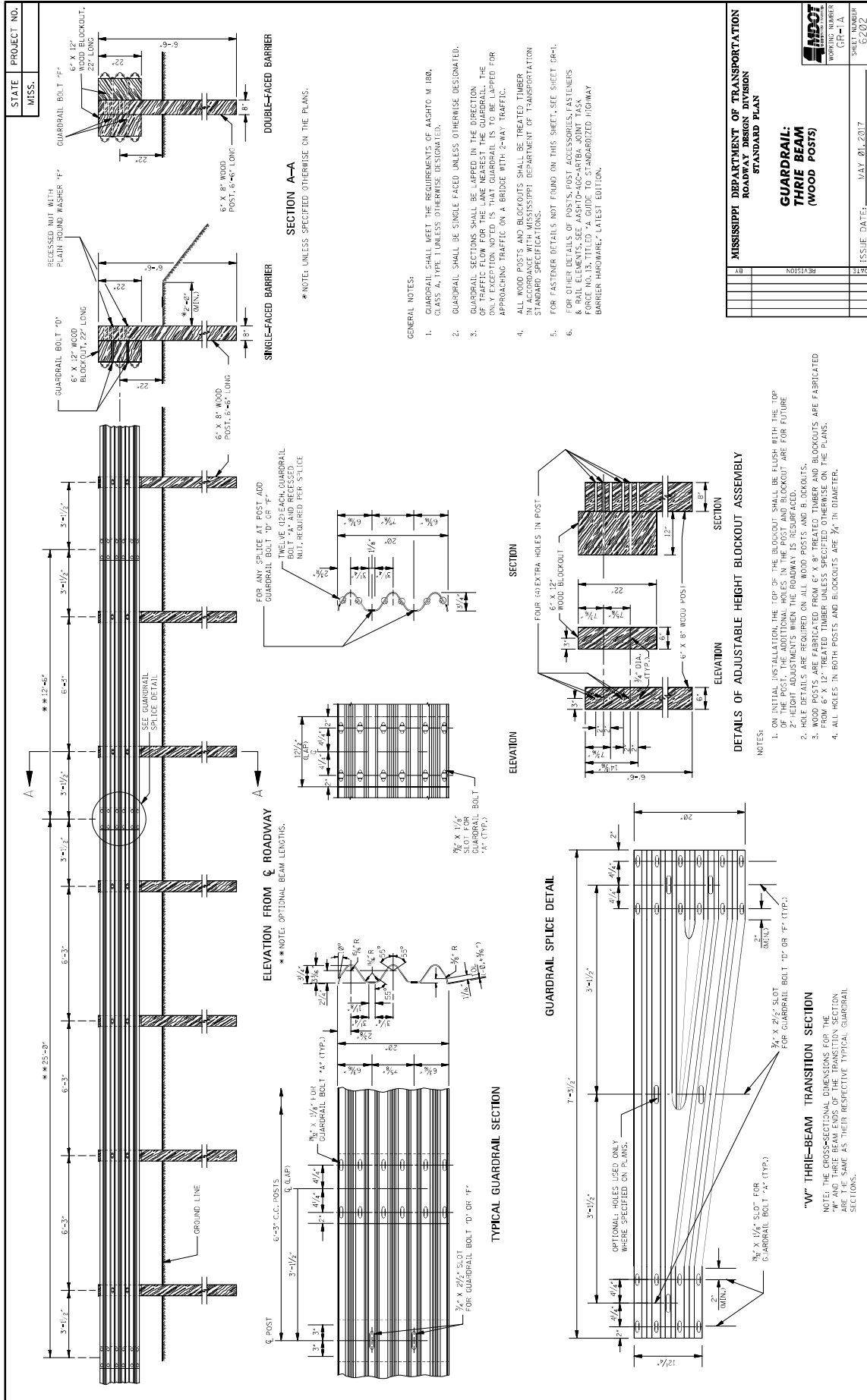
Conference Code: 404496

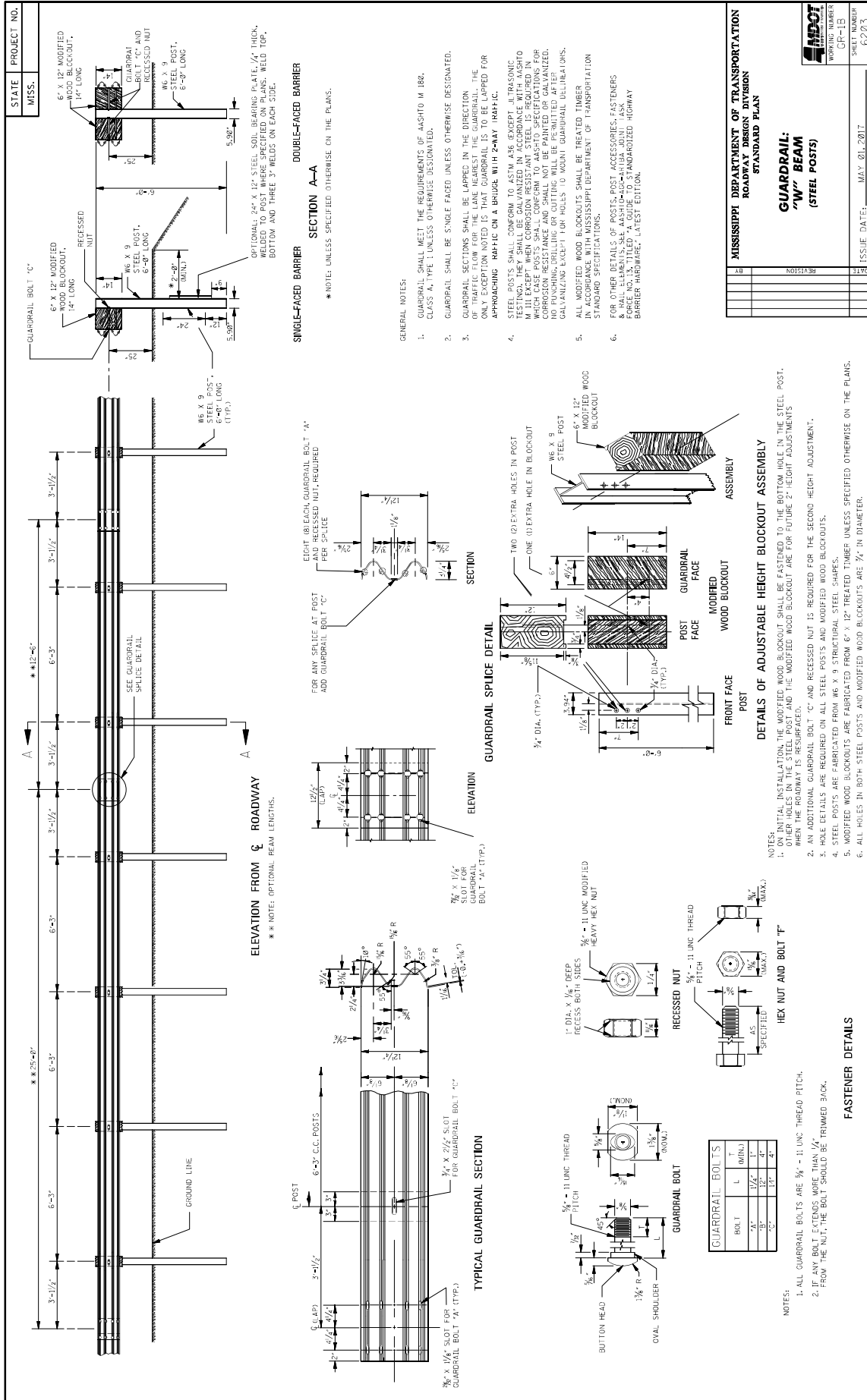
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

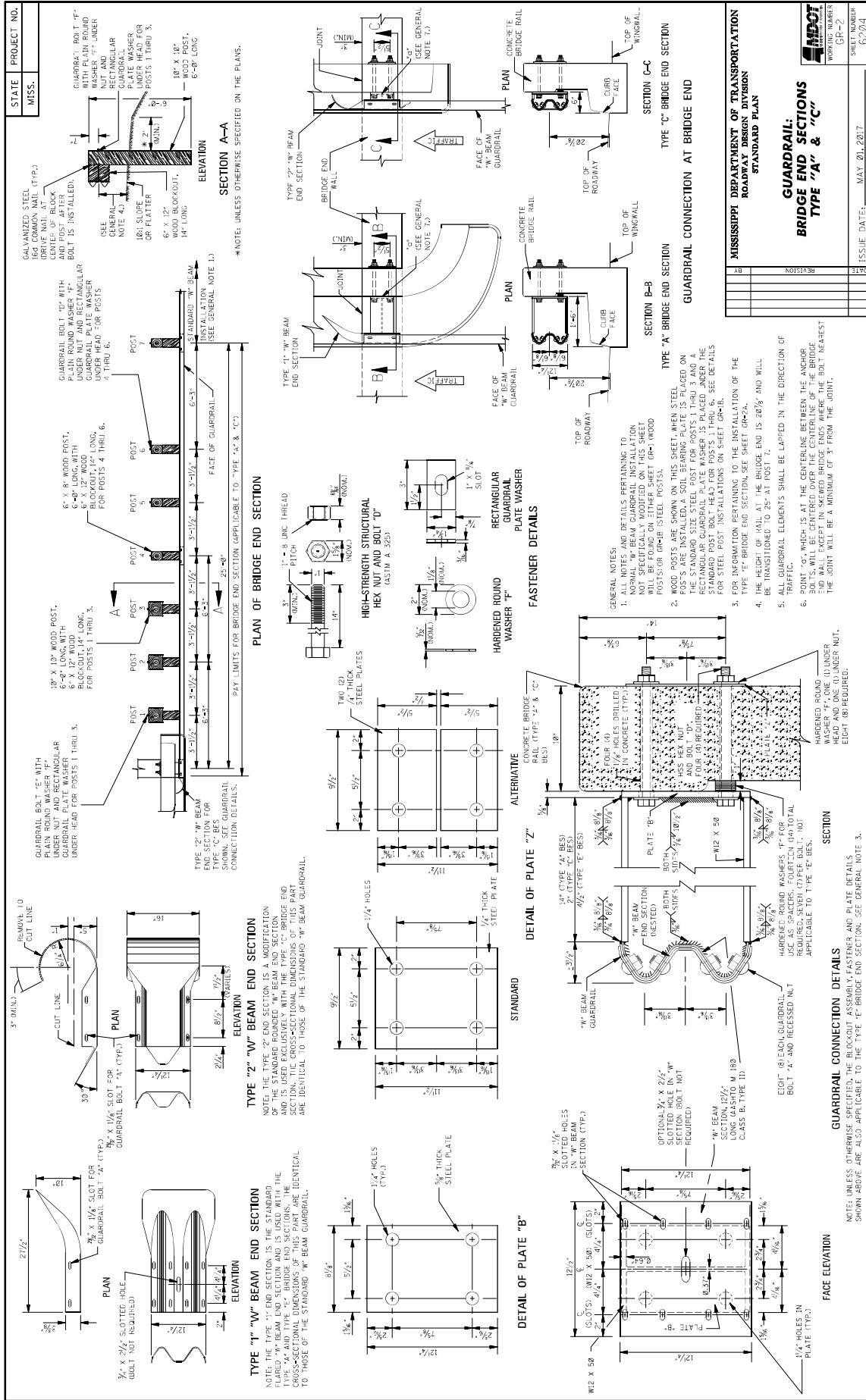
| **SUPPLEMENT TO NOTICE TO BIDDERS NO. 3599**

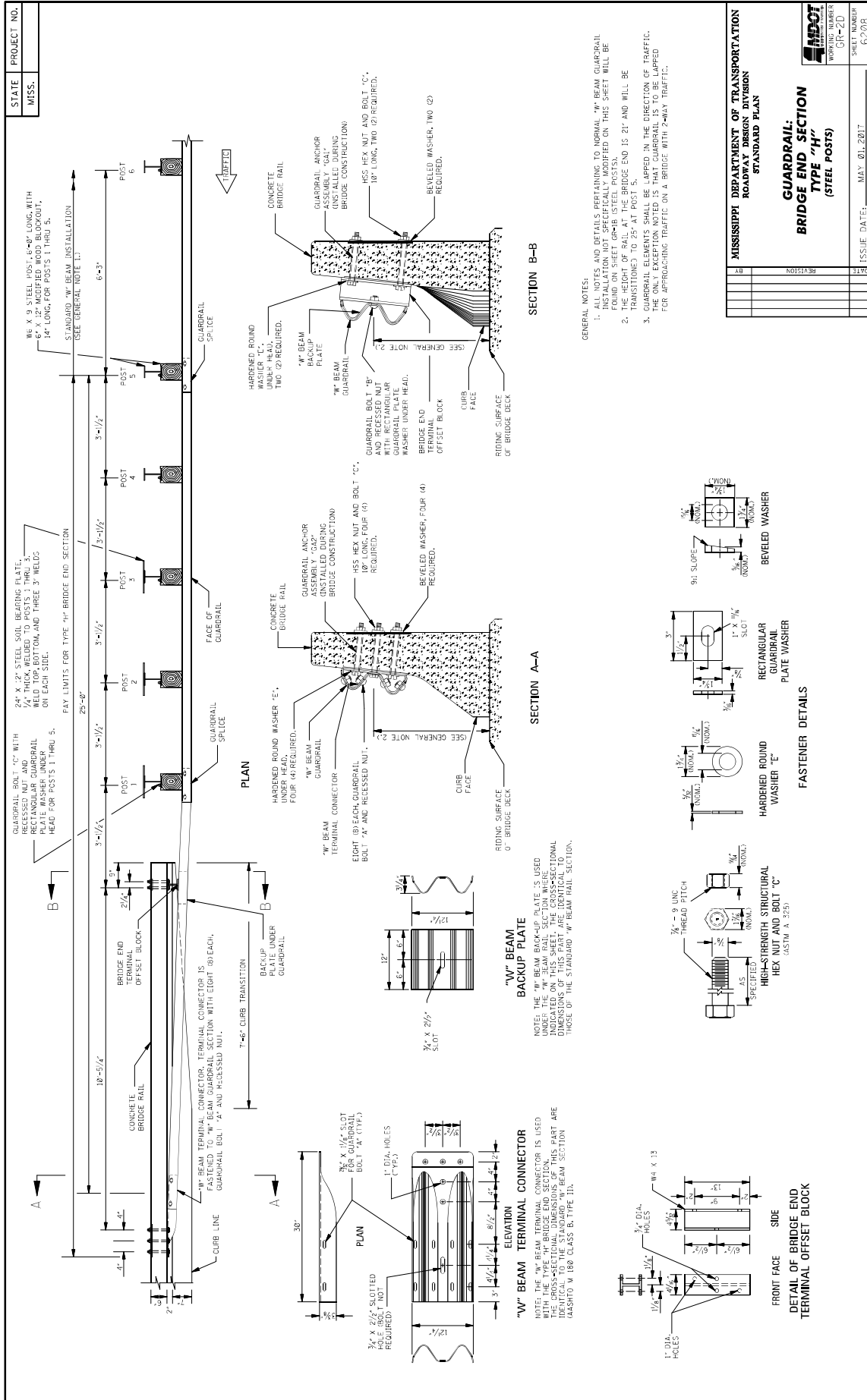
| **DATE: 08/11/2021**

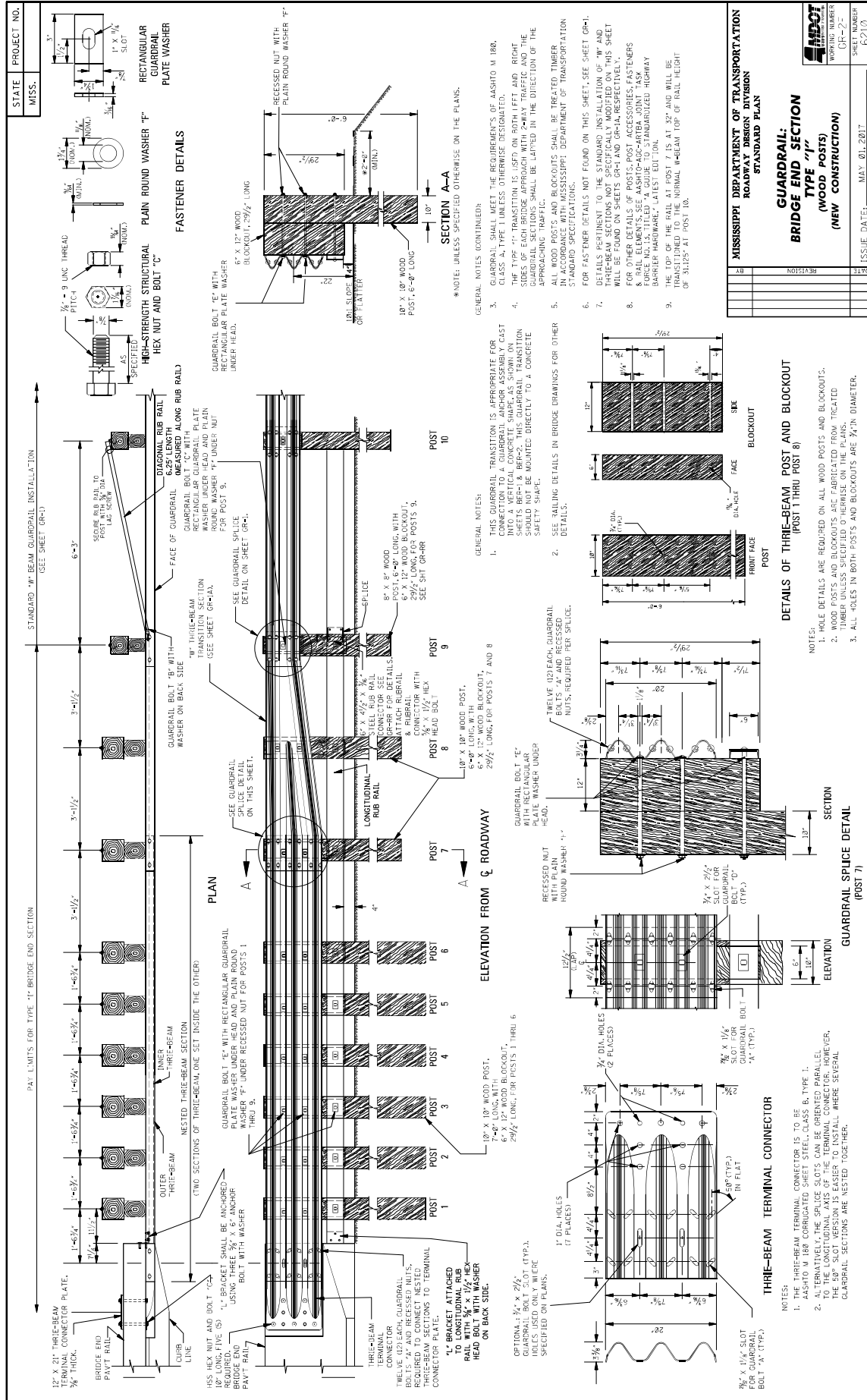
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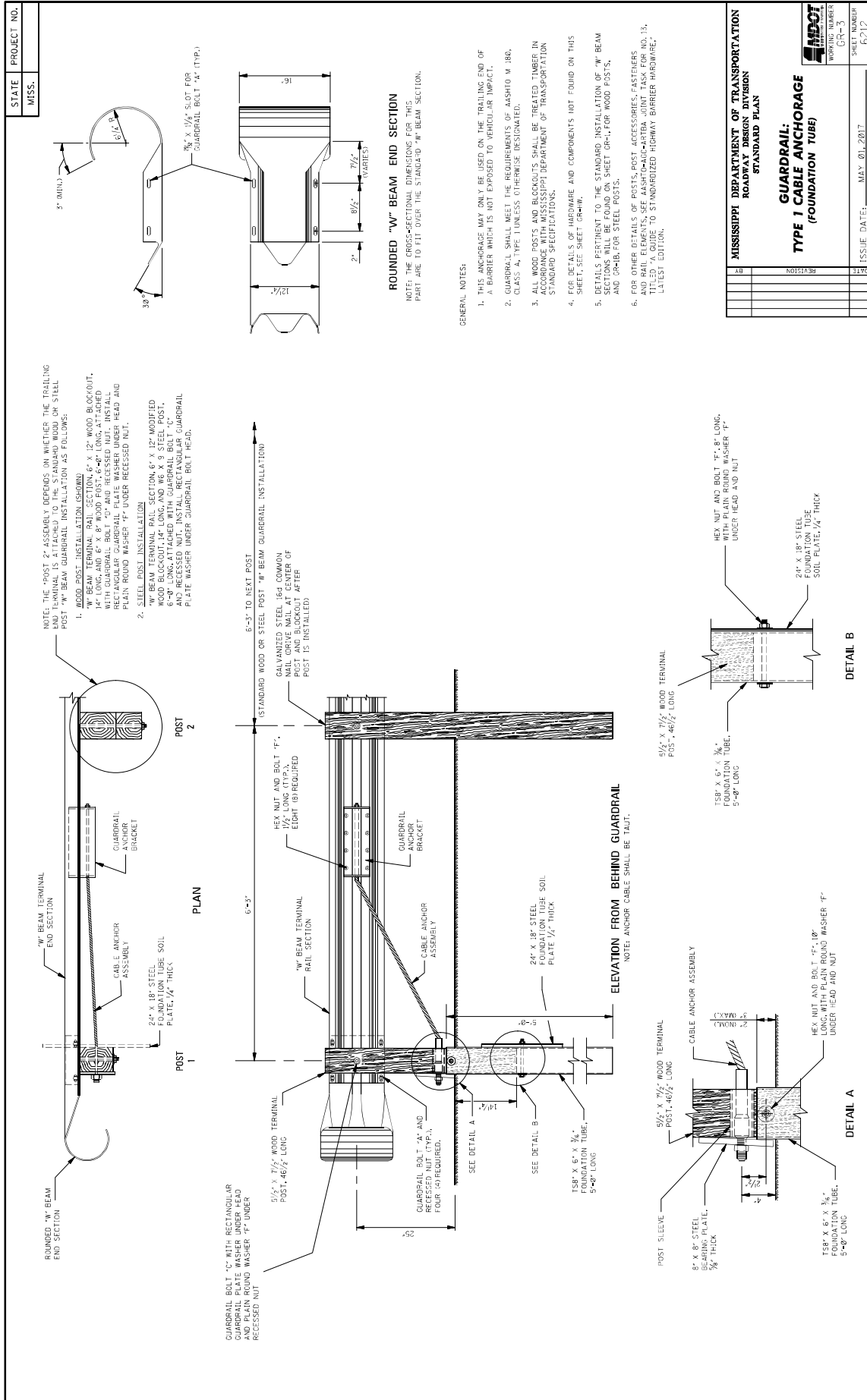


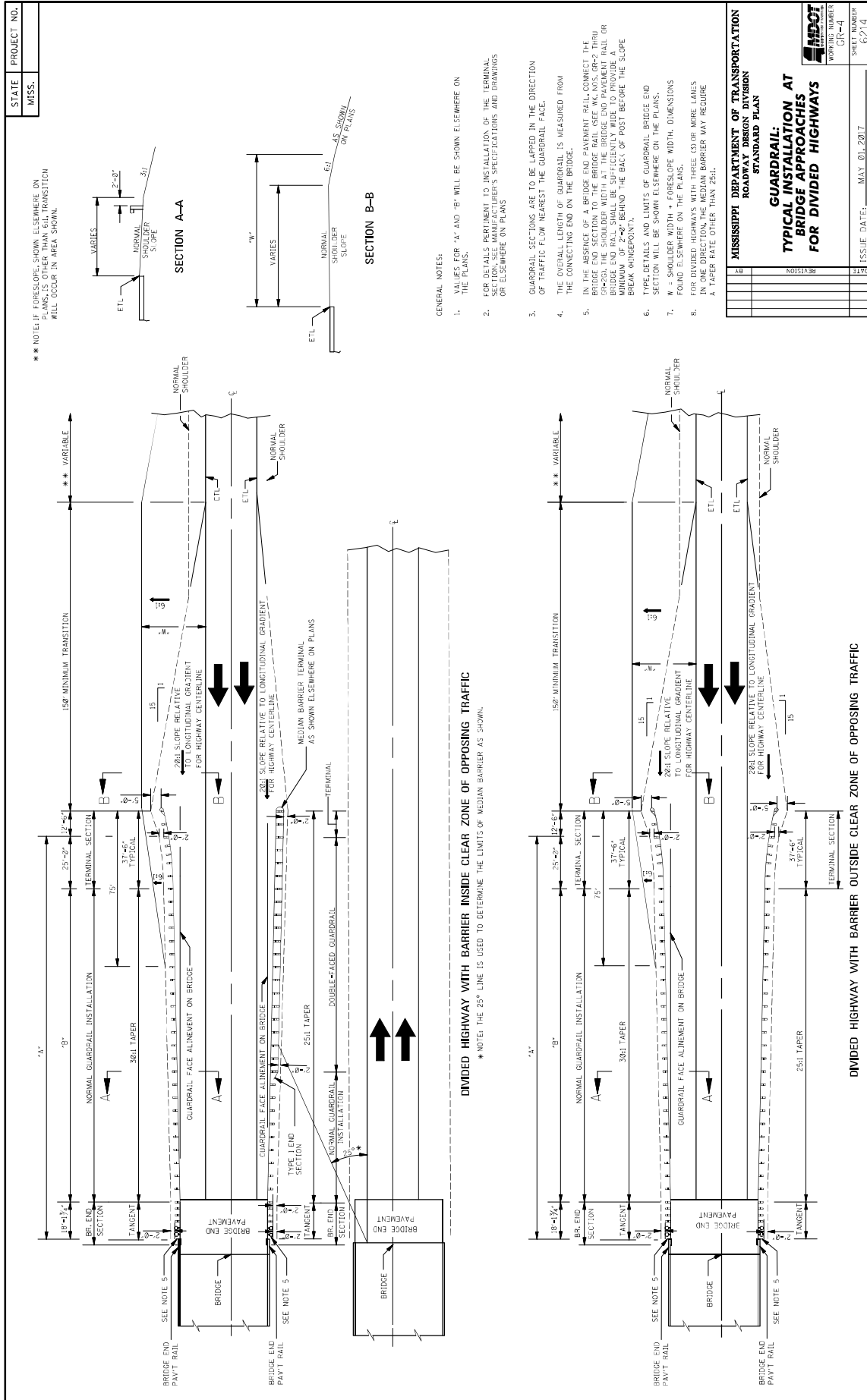


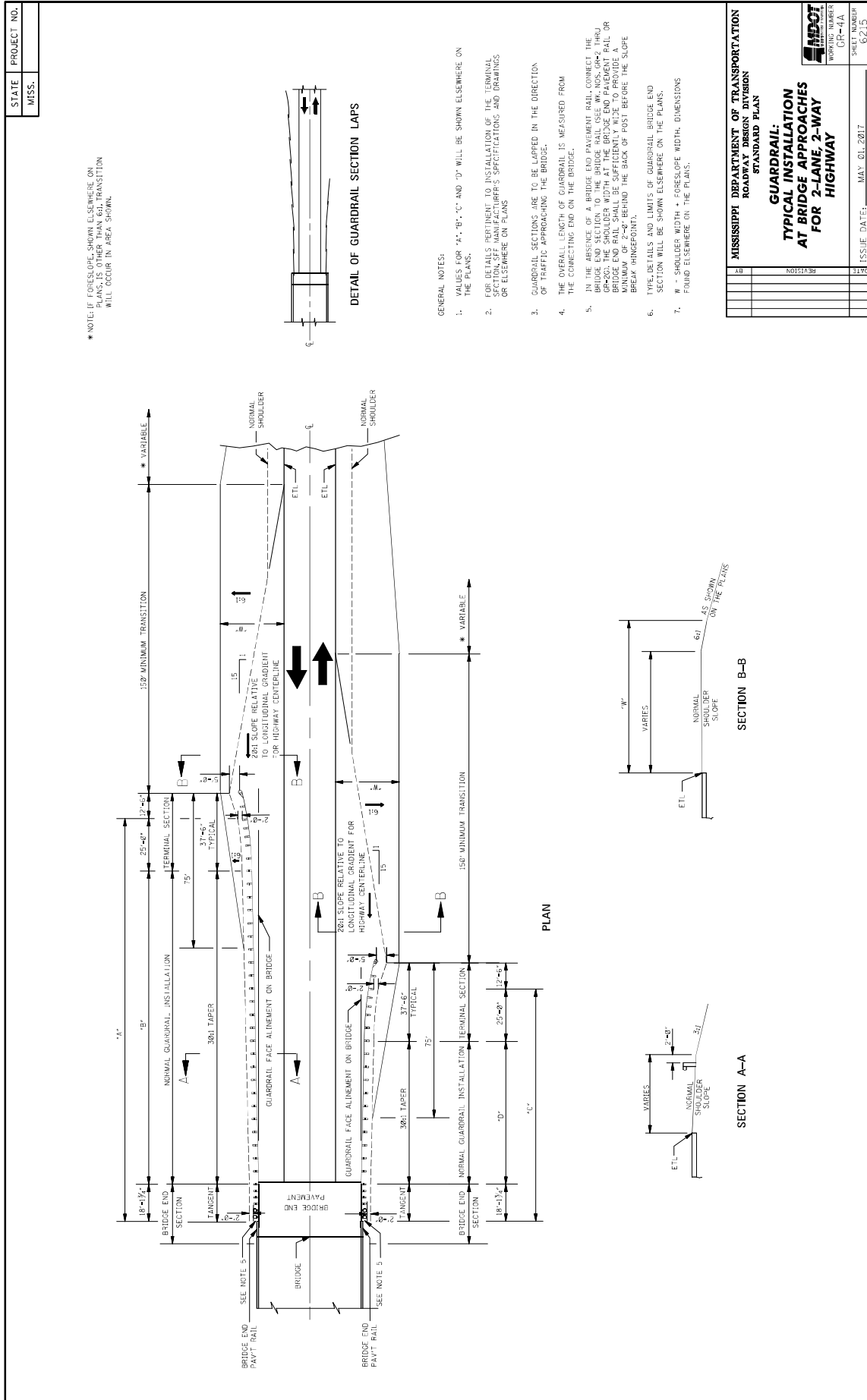


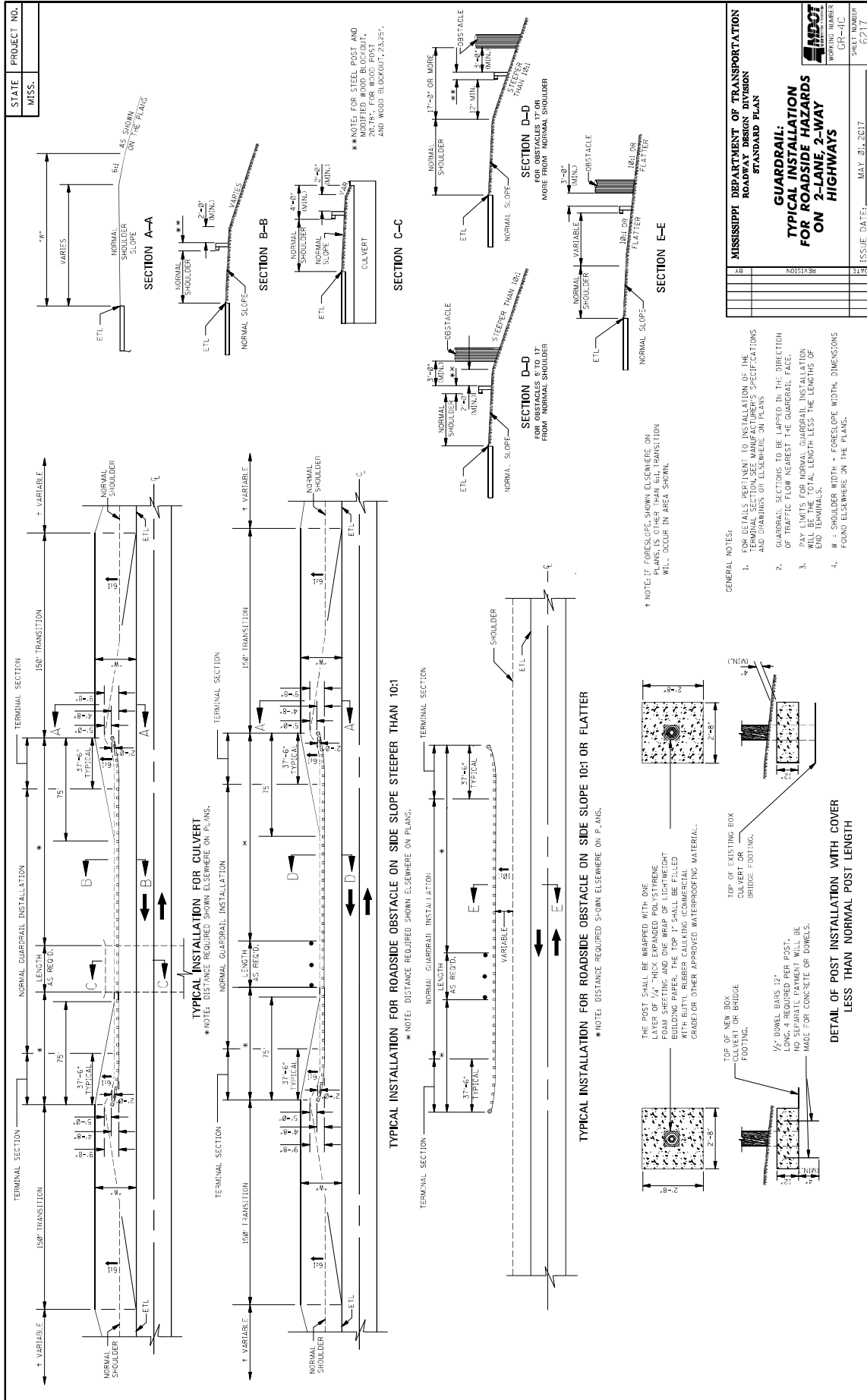












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|---|----------------------|
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN | |
| GUARDRAIL: TYPICAL INSTALLATION FOR ROADSIDE HAZARDS ON 2-LANE, 2-WAY HIGHWAYS | |
| ISSUE DATE: MAY 20, 2017 | SHEET NUMBER G217 |

STATE PROJECT NO.
MISS.

DATE REVISION

ISSUE DATE: MAY 21, 2017

MSDOT
WORKING NUMBER
GT-HH
SHEET NUMBER
0221

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

GUARDRAIL
MISCELLANEOUS HARDWARE

"W" BEAM TERMINAL CONNECTOR PLATE

NOTES:
1. THE "W" BEAM TERMINAL CONNECTOR IS TO BE A450T M 180 CORRUGATED SHEET STEEL, CLASS 55 B, TYPE 1.
2. SPACER-BOLT SLOTS MAY ALSO BE ORIENTED AT 50° TO THE PLATE INSTEAD OF 8° AS SHOWN.

STEEL TUBE ANCHOR

NOTE: TERMINAL POST SHOULD BE ABLE TO SLIDE INTO THE TUBE. THE ACTUAL INSIDE DIMENSIONS OF THIS GALVANIZED TUBE CANNOT BE LESS THAN 7/8" X 5/8".

BEARING PLATE

2-3/8" DIA. HOLES FOR 1/4" COMMON NAILS

SOIL PLATE

1/4" THICK PLATE

NOTE: 2 REQUIRED

GUARDRAIL BOLT

1/2" DIA. X 1/4" DEEP RECESS BOTH SIDES

3/8" - 11 UNC MODIFIED HEAVY-HEX NUT

RECESSED NUT

1/2" - 11 UNC THREAD

1/2" - 11 UNC THREAD PITCH

RECTANGULAR GUARDRAIL PLATE WASHER

1/2" - 11 UNC THREAD PITCH

HEX NUT "H"

HEX NUT AND BOLT "F"

1/2" - 11 UNC THREAD PITCH

AS-SPECIFIED

GUARDRAIL BOLT

1/2" DIA. X 1/4" DEEP RECESS BOTH SIDES

3/8" - 11 UNC MODIFIED HEAVY-HEX NUT

RECTANGULAR GUARDRAIL PLATE WASHER

1/2" - 11 UNC THREAD PITCH

HEX NUT "H"

HEX NUT AND BOLT "F"

1/2" - 11 UNC THREAD PITCH

AS-SPECIFIED

PLAIN ROUND WASHER

| BOLT | L (MIN) | T (MIN) |
|-------|---------|---------|
| 1/2" | 1 1/2" | 1/4" |
| 3/8" | 1 1/4" | 1/4" |
| 5/16" | 1 1/4" | 1/4" |
| 1/4" | 1 1/4" | 1/4" |

PLAIN ROUND WASHER

| WASHER | A (NOM) | B (NOM) | C (NOM) |
|--------|---------|---------|---------|
| 1/2" | 1 1/4" | 1 1/4" | 1/4" |
| 3/8" | 1 1/4" | 1 1/4" | 1/4" |
| 5/16" | 1 1/4" | 1 1/4" | 1/4" |
| 1/4" | 1 1/4" | 1 1/4" | 1/4" |

ANCHOR PLATE ASSEMBLY DETAILS

8" - HEX NUT AND BOLT "F", 1/2" LONG, WITH 8" PLAIN ROUND WASHER "F" UNDER HEAD

ANCHOR PLATE

15"

3/4" DIA. HOLES (6" X 12 1/2" X 3/8")

BRACKET

WELD END PLATE TO BRACKET

END PLATE

1/4" DIA. HOLE

SOIL PLATE

1/4" THICK PLATE

NOTE: 2 REQUIRED

GUARDRAIL BOLT

1/2" DIA. X 1/4" DEEP RECESS BOTH SIDES

3/8" - 11 UNC MODIFIED HEAVY-HEX NUT

RECESSED NUT

1/2" - 11 UNC THREAD

1/2" - 11 UNC THREAD PITCH

RECTANGULAR GUARDRAIL PLATE WASHER

1/2" - 11 UNC THREAD PITCH

HEX NUT "H"

HEX NUT AND BOLT "F"

1/2" - 11 UNC THREAD PITCH

AS-SPECIFIED

PLAIN ROUND WASHER

| BOLT | L (MIN) | T (MIN) |
|-------|---------|---------|
| 1/2" | 1 1/2" | 1/4" |
| 3/8" | 1 1/4" | 1/4" |
| 5/16" | 1 1/4" | 1/4" |
| 1/4" | 1 1/4" | 1/4" |

PLAIN ROUND WASHER

| WASHER | A (NOM) | B (NOM) | C (NOM) |
|--------|---------|---------|---------|
| 1/2" | 1 1/4" | 1 1/4" | 1/4" |
| 3/8" | 1 1/4" | 1 1/4" | 1/4" |
| 5/16" | 1 1/4" | 1 1/4" | 1/4" |
| 1/4" | 1 1/4" | 1 1/4" | 1/4" |

ANCHOR ASSEMBLY

1" - 8 UNC THREAD PITCH (BOTH ENDS)

3/4" DIA. - 16 X 130 CABLE CABLE TO BE SWAGE-CONNECTED.

STANDARD SWAGED FITTING AND STUD (STUD THREADED ENTIRE LENGTH)

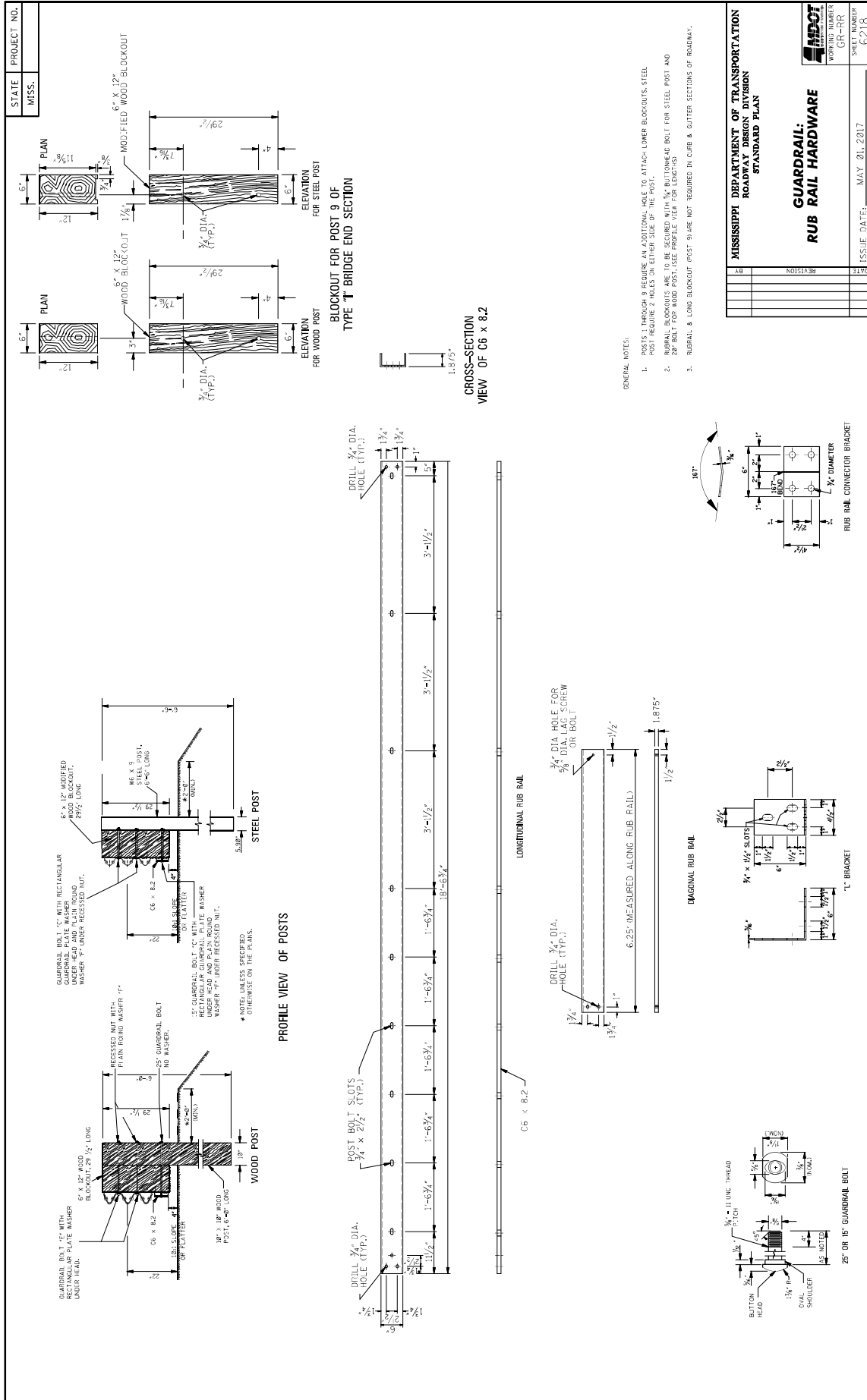
PLAIN ROUND WASHER "H"

HEX NUT "H"

FASTENER DETAILS

NOTES:
1. ALL GUARDRAIL BOLTS ARE 3/8" - 11 UNC HEAVY-HEX NUTS.
2. IF ANY BOLT EXTENDS MORE THAN 1/4" FROM THE NUT, THE BOLT SHOULD BE TRIMMED BACK.

51



| | | |
|----------------|-------------|--|
| STATE MISS. | PROJECT NO. | |
|----------------|-------------|--|

DISTANCE REFERENCE SIGN MOUNTING ON OUTSIDE SHOULDER ALONG MAIN FACILITY

NOTE: SIGN MOUNTING ON LEFT LANE SHOULDER SHALL BE 90° OPPOSITE THE RIGHT LANE STATION. SIGN MOUNTING ON RIGHT LANE SHOULDER SHALL BE LOCATED WITHIN 50 FEET OF ITS TRUE LOCATION. IT SHALL BE OMITTED ENTIRELY.

DISTANCE REFERENCE SIGN MOUNTING ON INSIDE SHOULDER ALONG MAIN FACILITY OR RAMP

NOTE: SIGN MOUNTING ON INSIDE SHOULDER SHALL BE 90° OPPOSITE THE RIGHT LANE STATION. SIGN MOUNTING ON LEFT LANE SHOULDER SHALL BE LOCATED WITHIN 50 FEET OF ITS TRUE LOCATION. IT SHALL BE OMITTED ENTIRELY.

REAR VIEW OF TYPE 3 OBJECT MARKER OR DISTANCE REFERENCE SIGN ASSEMBLY

NOTE: TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGNS ARE TO BE FASTENED TO U-SECTION POSTS WITH 3/8" DIA. HOOK FASTENERS OR CHERRY RIVETS OF BRIDGE END. SEE DETAIL BELOW.

DETAIL OF TYPE 3 OBJECT MARKER INSTALLATION

NOTE: TYPE 3 OBJECT MARKER AND TYPE 3 OBJECT MARKERS SHALL INCLUDE 3/8" DIA. HOOK FASTENERS OR CHERRY RIVETS OF BRIDGE END. SEE DETAIL BELOW.

DETAIL OF SINGLE WHITE OR SINGLE YELLOW DELINEATOR

DETAIL OF DOUBLE WHITE OR DOUBLE YELLOW DELINEATOR

REAR VIEW OF DELINEATOR ASSEMBLY

NOTE: DELINEATORS ARE TO BE FASTENED TO U-SECTION POSTS WITH 3/8" DIA. HOOK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL.

MOUNTING DETAIL

DELINATORS, OBJECT MARKERS OR DISTANCE REFERENCE SIGNS MOUNTED TO THIS FACE AS SHOWN.

GENERAL NOTES:

- DELINATORS AND TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 0.200" THICK ALUMINUM SHEET OR 14 GAGE GALVANIZED SHEET STEEL.
- DELINATOR, TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGN POSTS SHALL BE GALVANIZED STEEL. THE POSTS ARE TO BE FABRICATED BEFORE THE METAL IS GALVANIZED.
- WEIGHT WITHOUT GROUND PLATES:
 - A. DELINEATOR POST 7'-0" = 2.0 lb/ft + 10.25 lb/ft
 - B. TYPE 3 OBJECT MARKER POSTS 9'-0" = 2.5 lb/ft + 3.0 lb/ft
 - C. DISTANCE REFERENCE SIGN POSTS 12'-0" = 2.5 lb/ft + 11.46 lb/ft
- UNIT PRICE OF DELINEATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE COST OF POST. DISTANCE REFERENCE SIGN POST WILL BE PAID PER FOOT.
- RADIUS IN BENDS OF POST CROSS SECTION NOT TO EXCEED 3% FOR HOT ROLLED SECTION.
- GROUND PLATE NOT REQUIRED ON U-SECTION POST.

GENERAL NOTES:

- DELINATORS AND TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 0.200" THICK ALUMINUM SHEET OR 14 GAGE GALVANIZED SHEET STEEL.
- DELINATOR, TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGN POSTS SHALL BE GALVANIZED STEEL. THE POSTS ARE TO BE FABRICATED BEFORE THE METAL IS GALVANIZED.
- WEIGHT WITHOUT GROUND PLATES:
 - A. DELINEATOR POST 7'-0" = 2.0 lb/ft + 10.25 lb/ft
 - B. TYPE 3 OBJECT MARKER POSTS 9'-0" = 2.5 lb/ft + 3.0 lb/ft
 - C. DISTANCE REFERENCE SIGN POSTS 12'-0" = 2.5 lb/ft + 11.46 lb/ft
- UNIT PRICE OF DELINEATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE COST OF POST. DISTANCE REFERENCE SIGN POST WILL BE PAID PER FOOT.
- RADIUS IN BENDS OF POST CROSS SECTION NOT TO EXCEED 3% FOR HOT ROLLED SECTION.
- GROUND PLATE NOT REQUIRED ON U-SECTION POST.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TYPICAL INSTALLATION AND DETAILS OF DELINEATORS AND DISTANCE REFERENCE SIGNS

WORKING NUMBER: SN-5
SHEET NUMBER: 62J-4

ISSUE DATE: MAY 01, 2017

DATE: _____

REVISION: _____

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 – NOTICE TO BIDDERS NO. 3599

CODE: (SP)

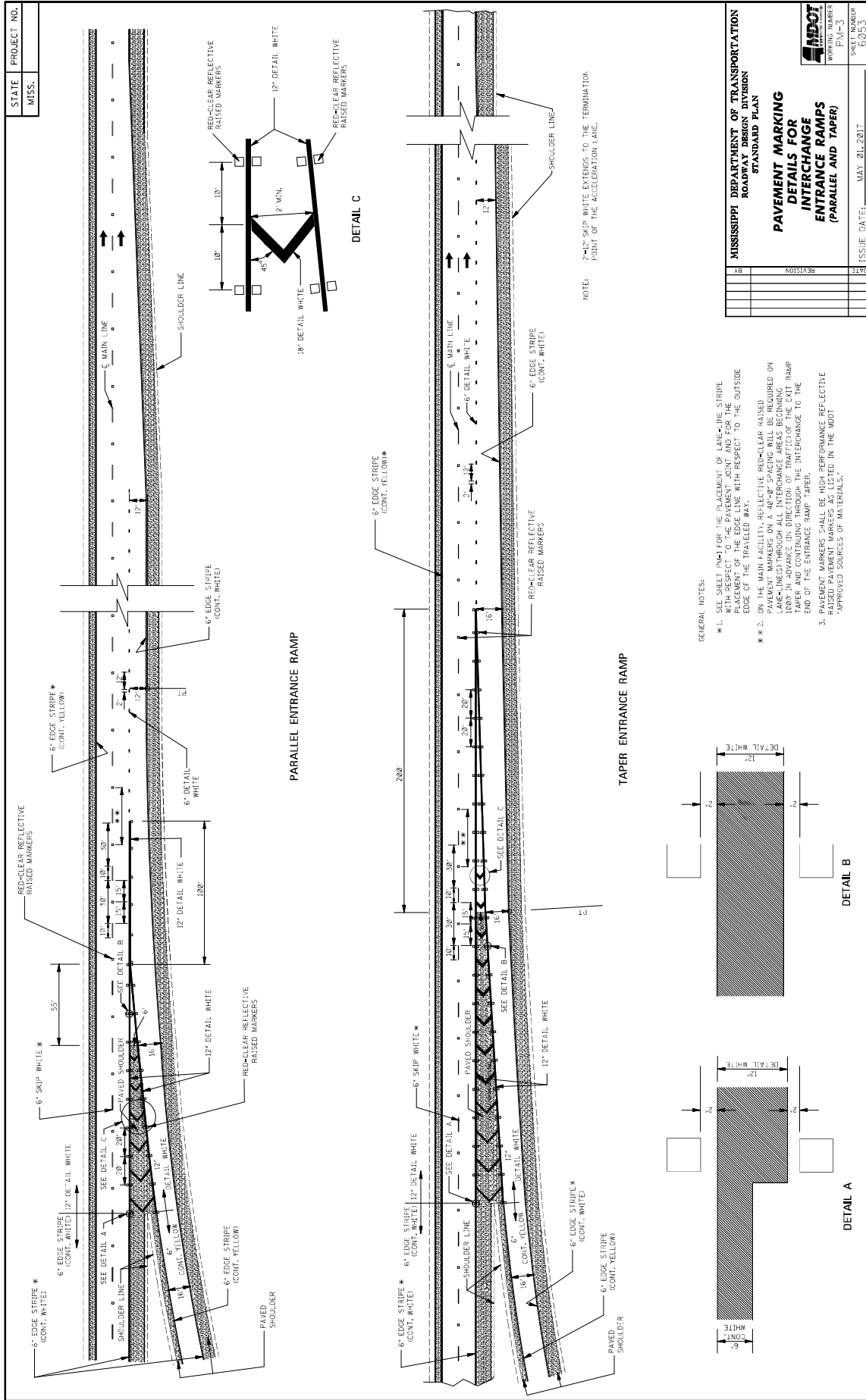
DATE: 08/11/2021

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: plans@mdot.state.ms.us

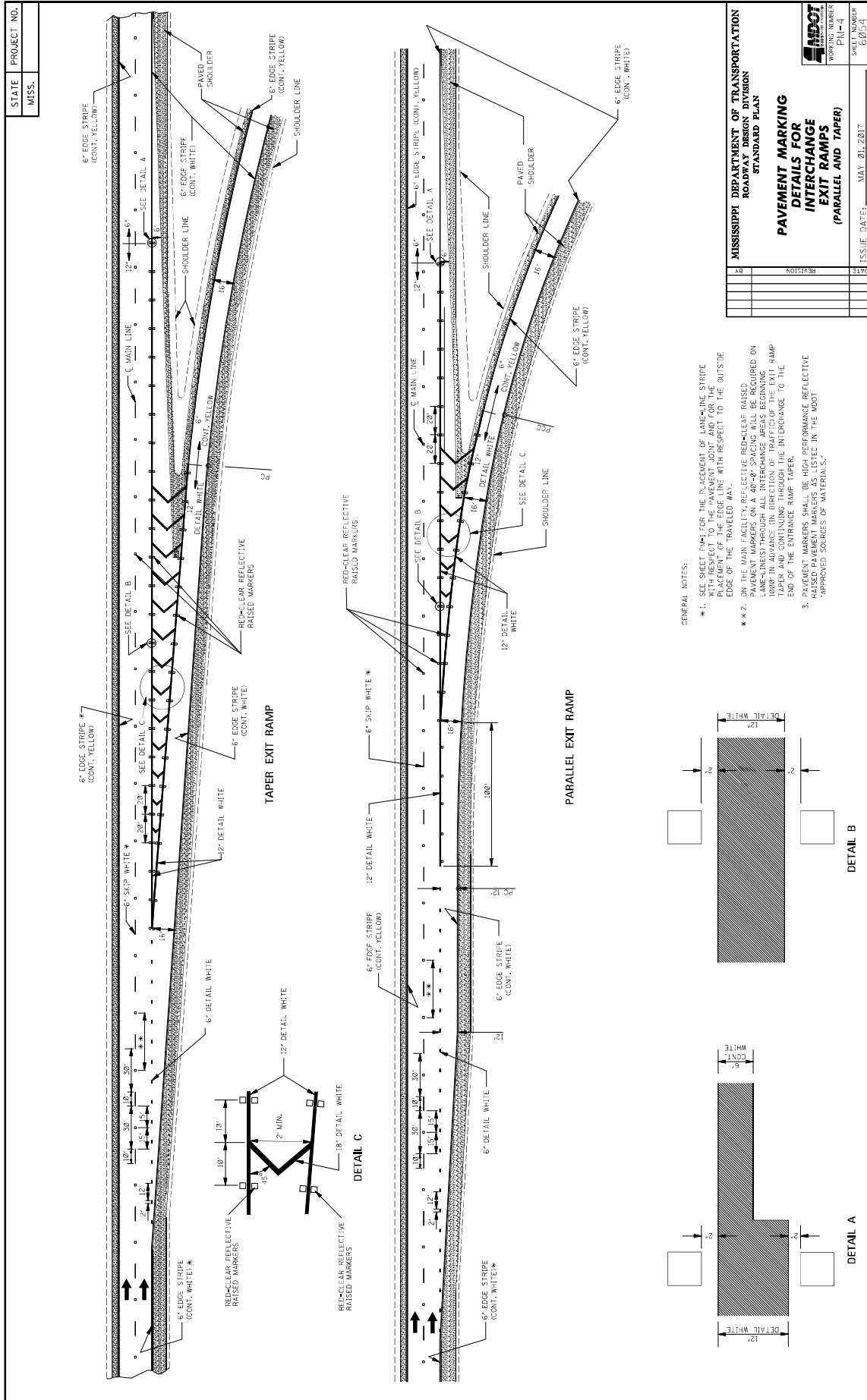


GENERAL NOTES:

- ** 1. SEE SHEET 10M FOR THE PLACEMENT OF LANE AND STRIPE WITH RESPECT TO THE PAVEMENT JOINT AND FOR THE PLACEMENT OF THE EDGE LINE WITH RESPECT TO THE OUTSIDE EDGE OF THE TRAVELED WAY.
- ** 2. ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-80' SPACING WILL BE REQUIRED ON APPROXIMATELY 1000' IN ADVANCE ON DIRECTION OF TRAFFIC OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER.
3. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MOST APPROVED SOURCES OF MATERIALS.

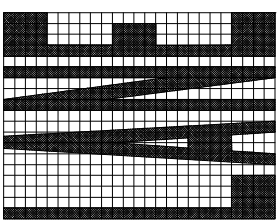
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| STATE PROJECT NO. | | MISS. | |
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN | | | |
| PAVEMENT MARKING DETAILS FOR INTERCHANGE RAMP (PARALLEL AND TAPER) | | | |
| SHEET NUMBER | | P1M-3 | |
| SHEET NUMBER | | 60353 | |
| ISSUE DATE: | | MAY 20, 2017 | |
| DATE | REVISION | BY | |
| | | | |

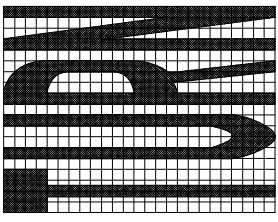


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| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
| ROADWAY DESIGN DIVISION | |
| STANDARD PLAN | |
| PAVEMENT MARKING | |
| INTERCHANGE | |
| EXIT RAMP | |
| (PARALLEL AND TAPER) | |
| SHEET NUMBER | ISSUE DATE: MAY 01, 2017 |
| PM-4 | |
| WORKING NUMBER | |
| 67294 | |
| DATE | REVISION |
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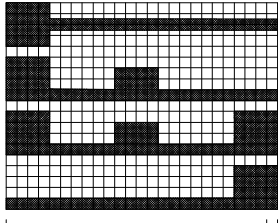
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| STATE MISS. | PROJECT NO. | | | | | | | | | | |
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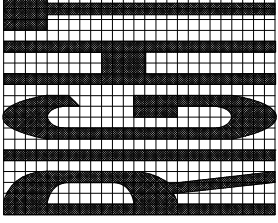
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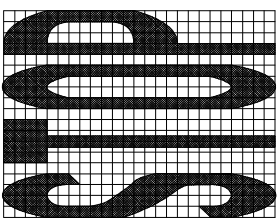
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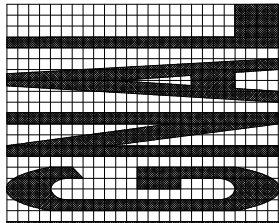
6'-4"



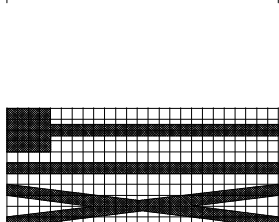
7'-0"



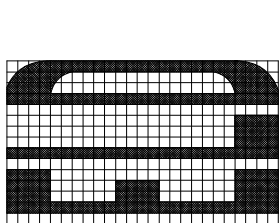
6'-4"



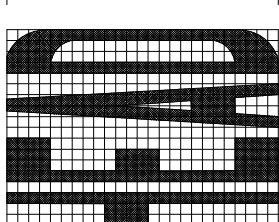
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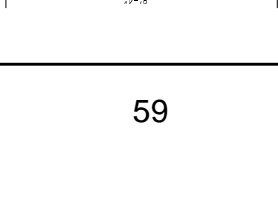
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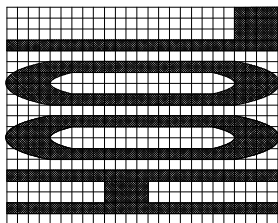
5'-4"



7'-0"



8'-0"



9'-8"

GENERAL NOTES:

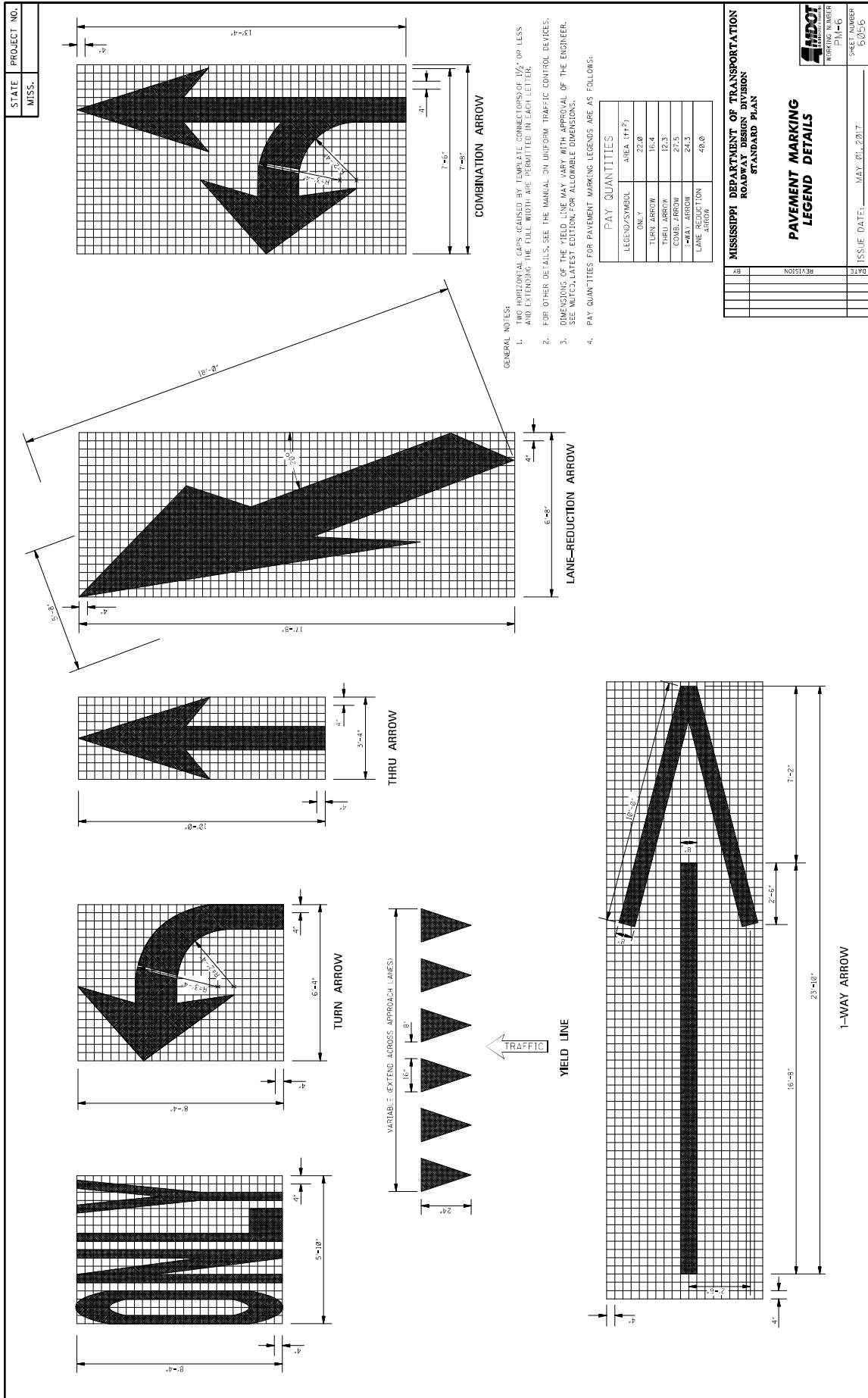
- TWO HORIZONTAL GAPS (USED BY TEMPLATE CONNECTIONS) OF 1/4" SHALL EXTEND THROUGH ALL WIDTH OF LETTERS.
- FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

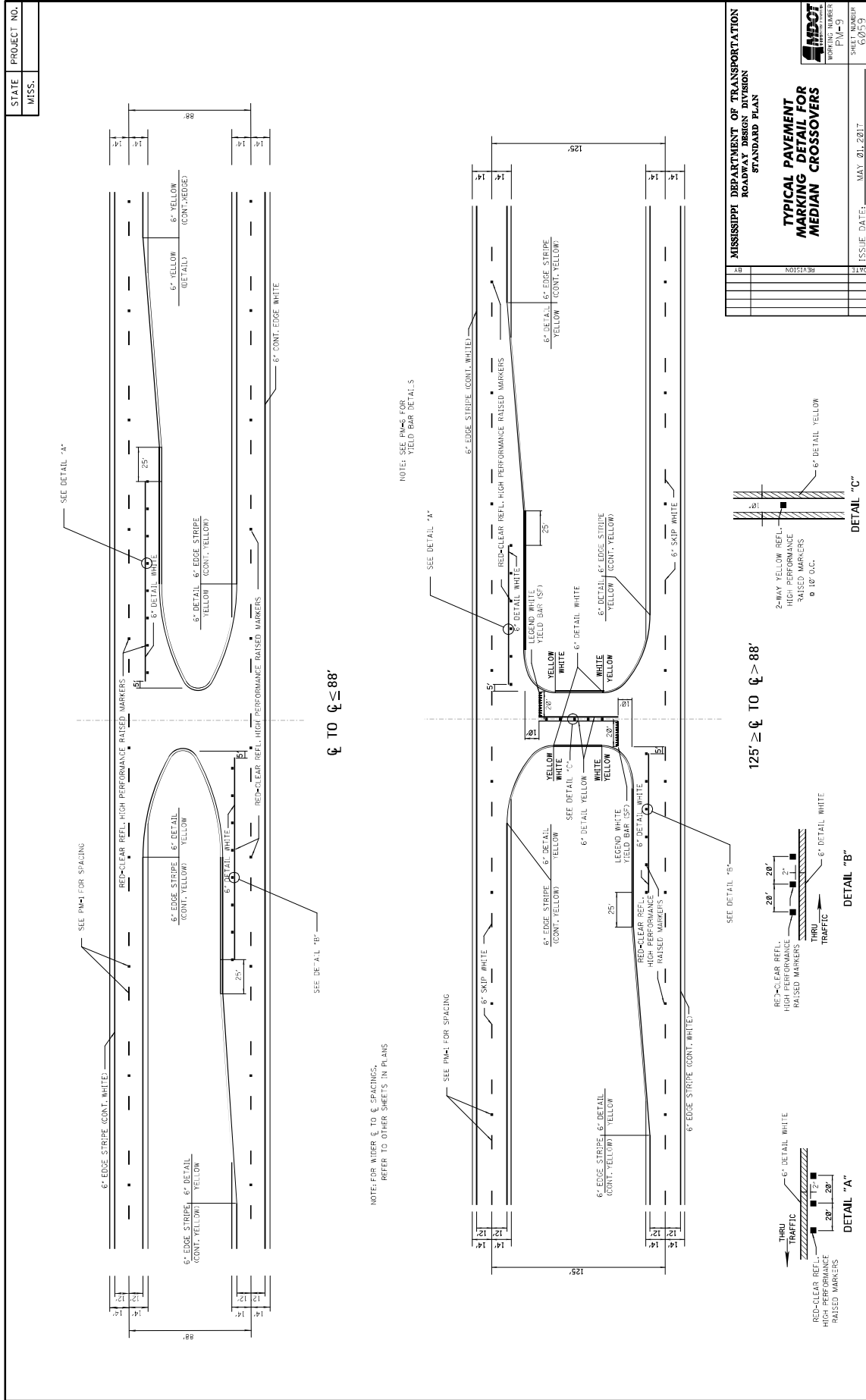
| LEGEND | AREA (ft ²) |
|---------|-------------------------|
| STOP | 24.6 |
| RIGHT | 28.6 |
| LEFT | 19.5 |
| TRAFFIC | 22.2 |
| YIELD | 32.2 |
| AHEAD | 26.8 |
| EXIT | 18.5 |
| SIGNAL | 32.5 |
| SCHOOL | 35.5 |

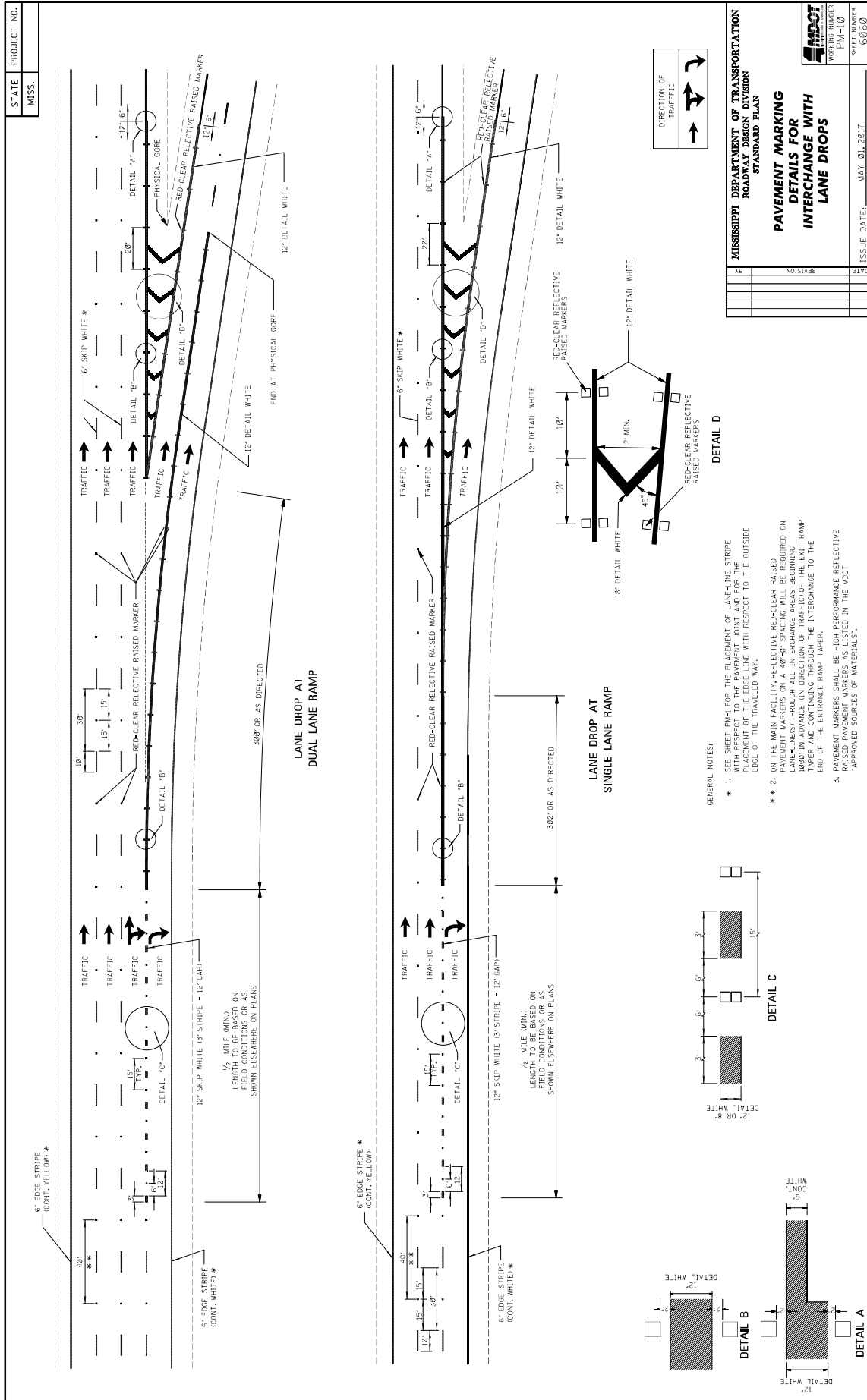
**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN**

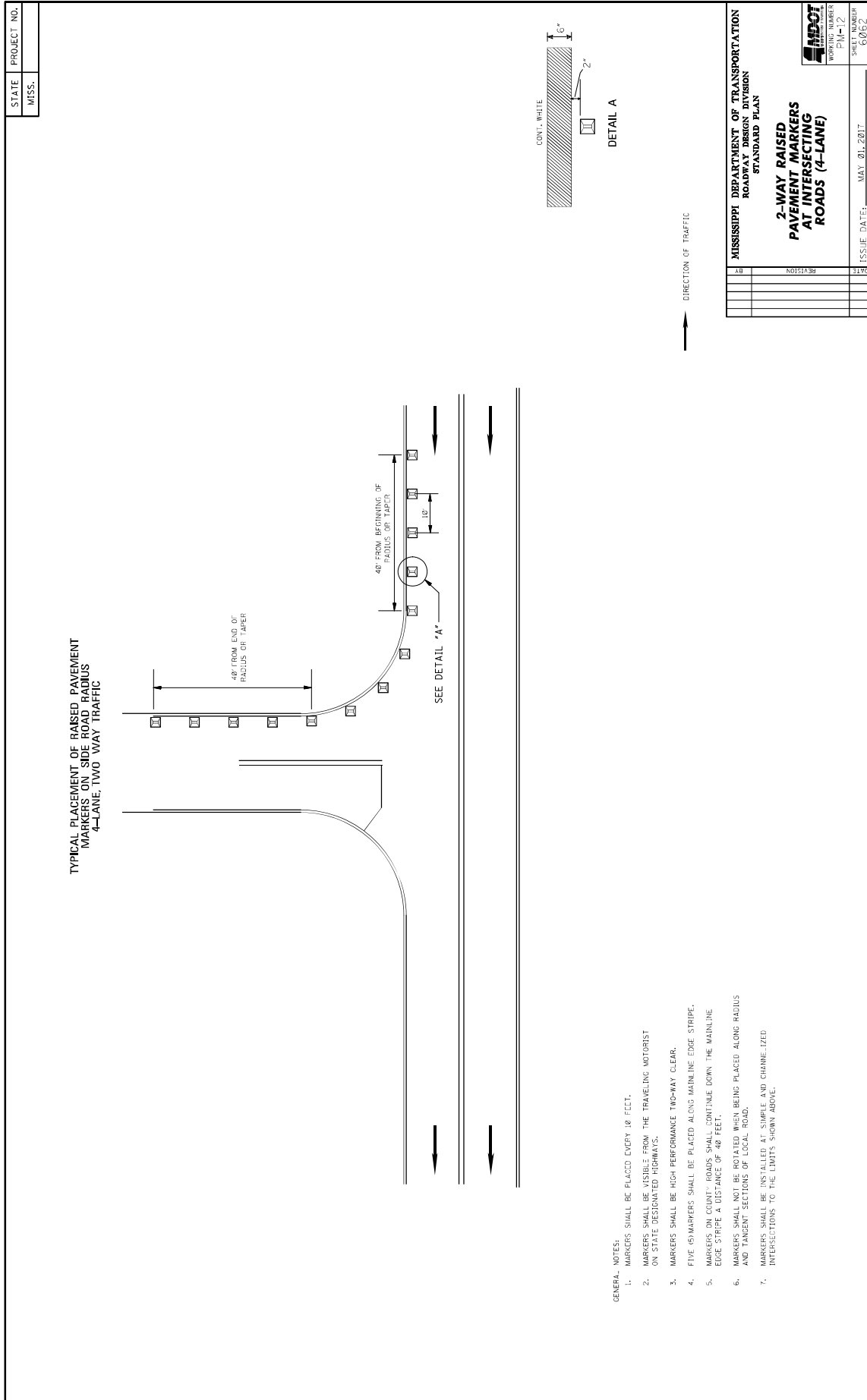
**PAVEMENT MARKING
LEGEND DETAILS**

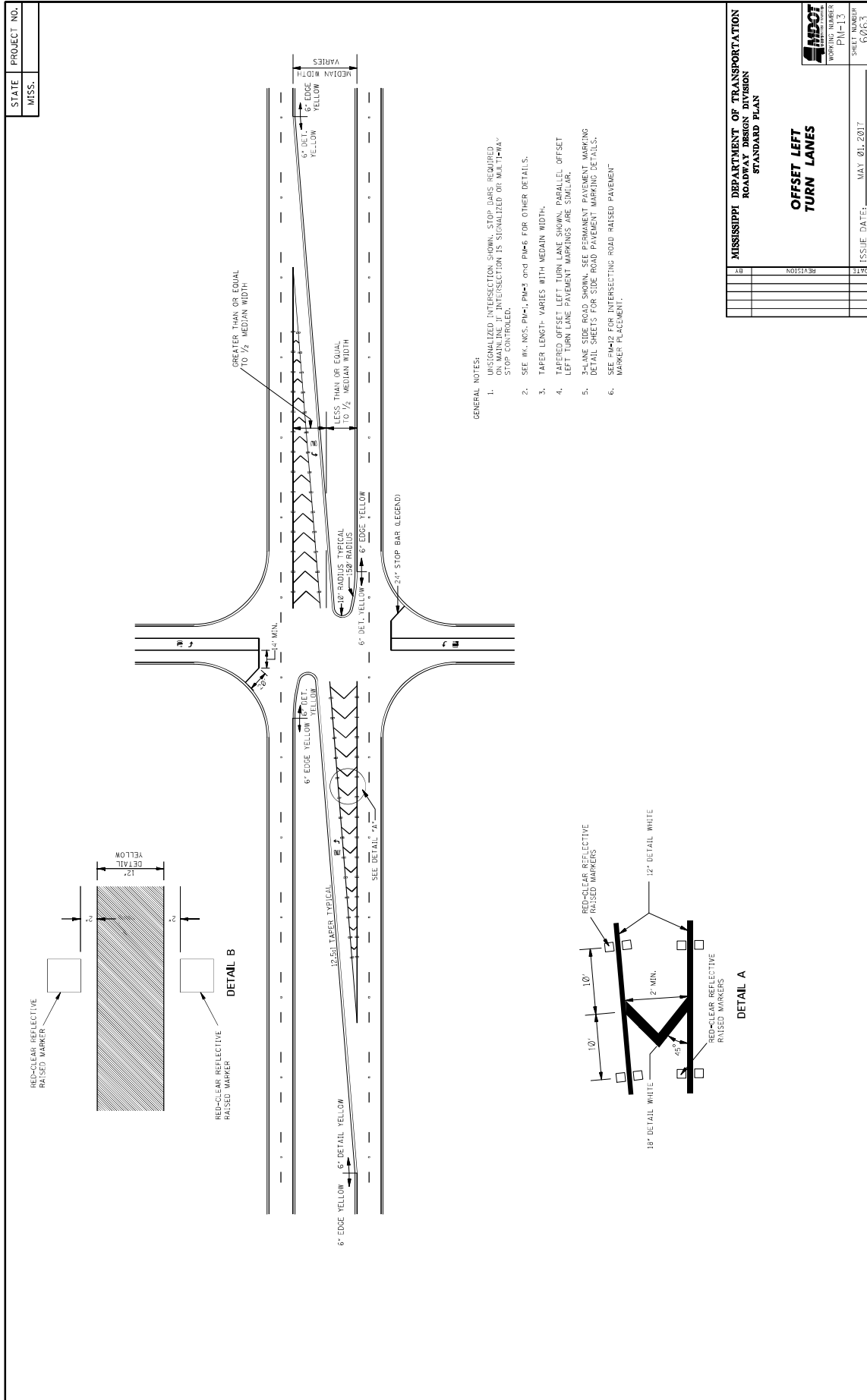
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| | SHEET NUMBER PM-5 6035 |
| | ISSUE DATE: MAY 01, 2017 |
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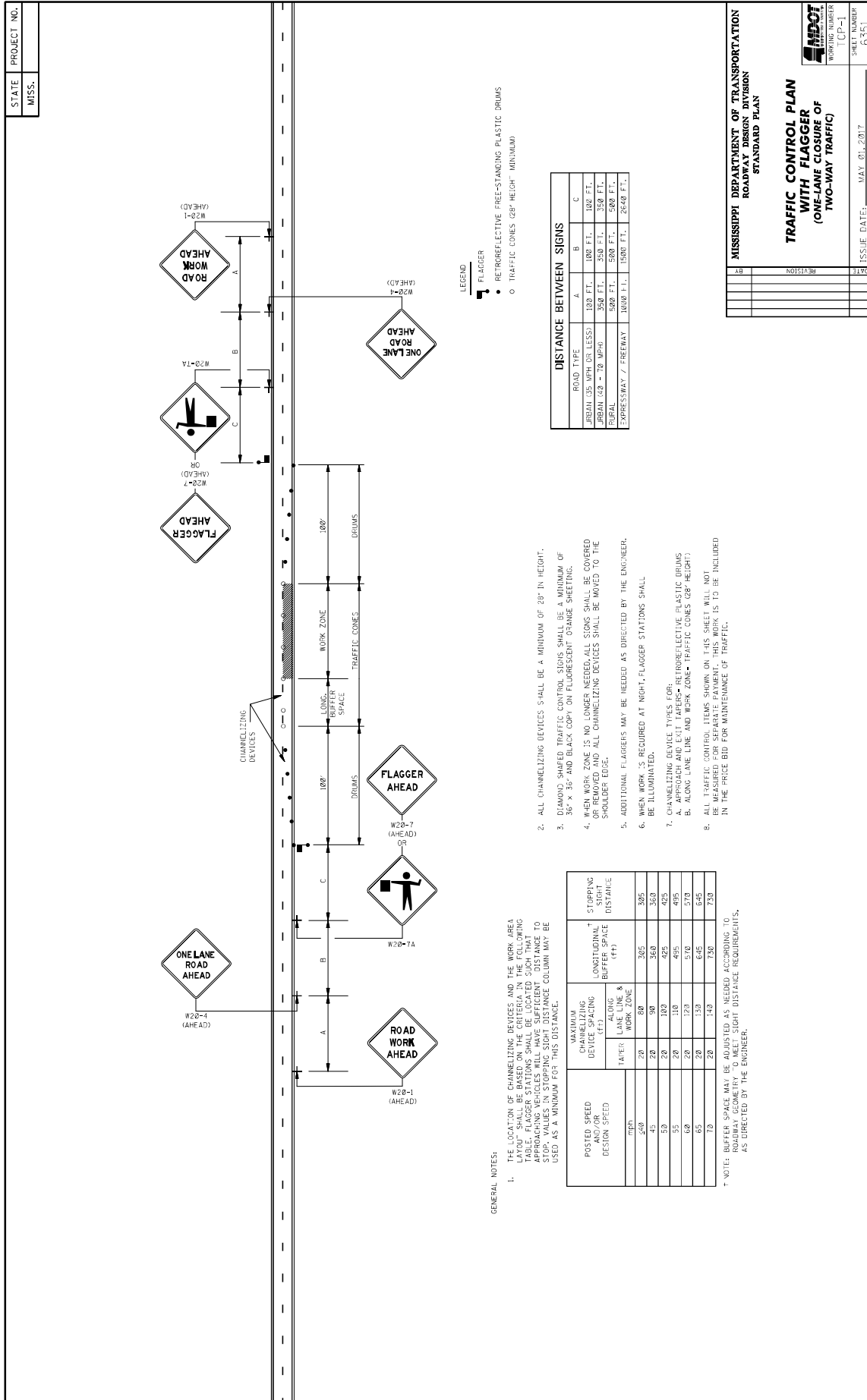








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|---|--------------------------|
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
| ROADWAY DESIGN DIVISION | |
| STANDARD PLAN | |
| OFFSET LEFT TURN LANES | |
| DATE | ISSUE DATE: MAY 01, 2017 |
| BY | SHEET NUMBER 0263 |
| REVISION | PROJECT NUMBER PM-13 |

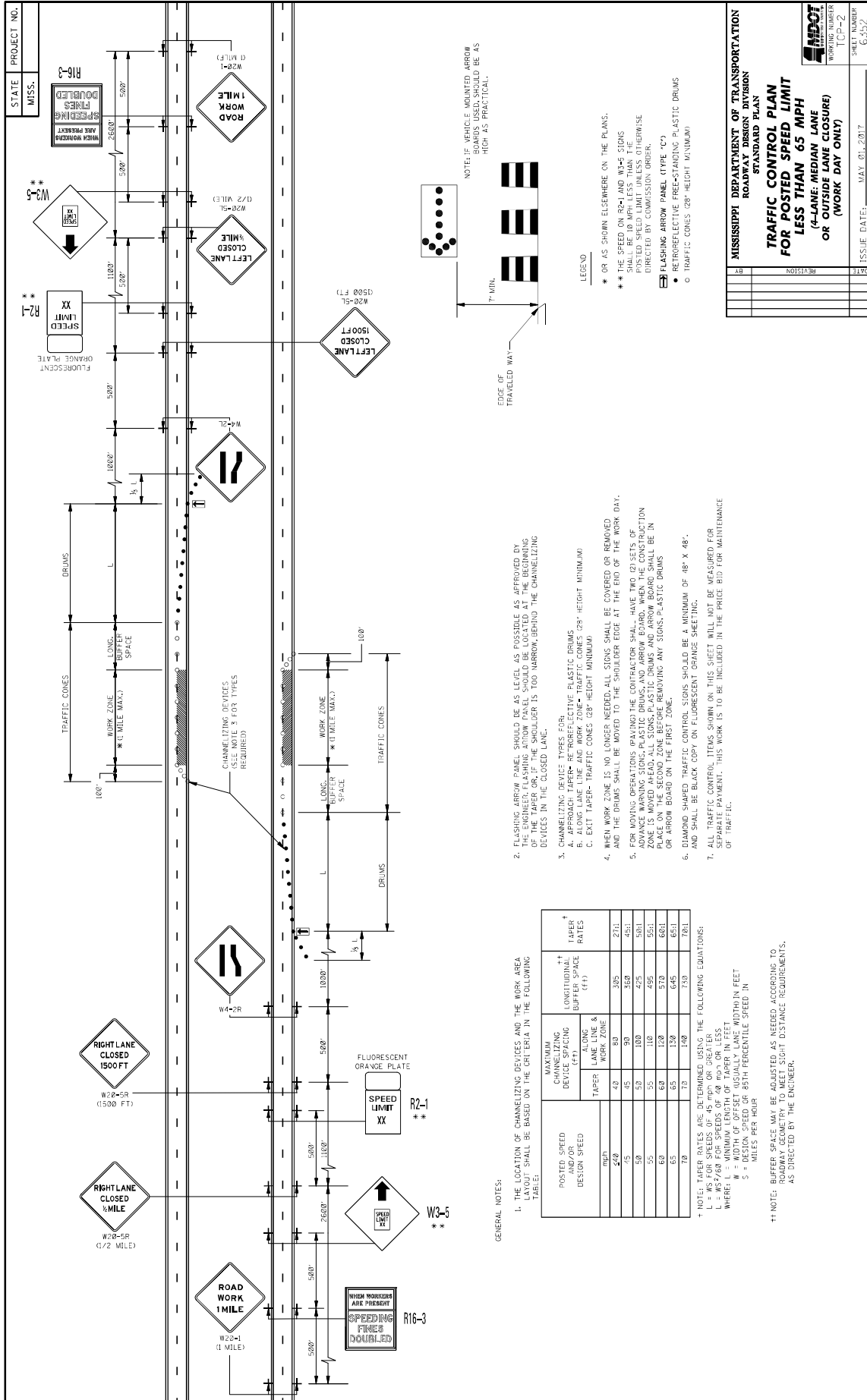


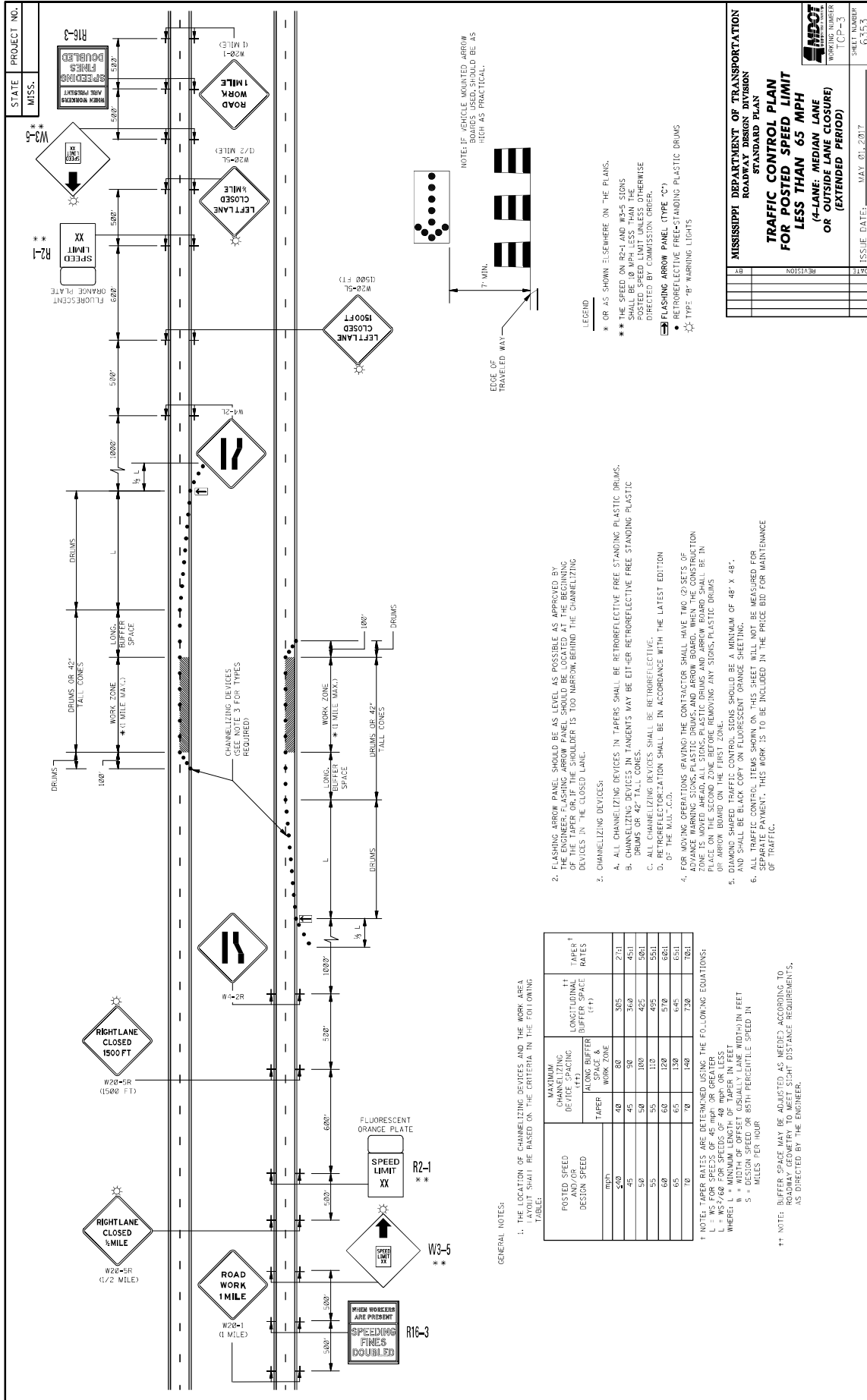
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

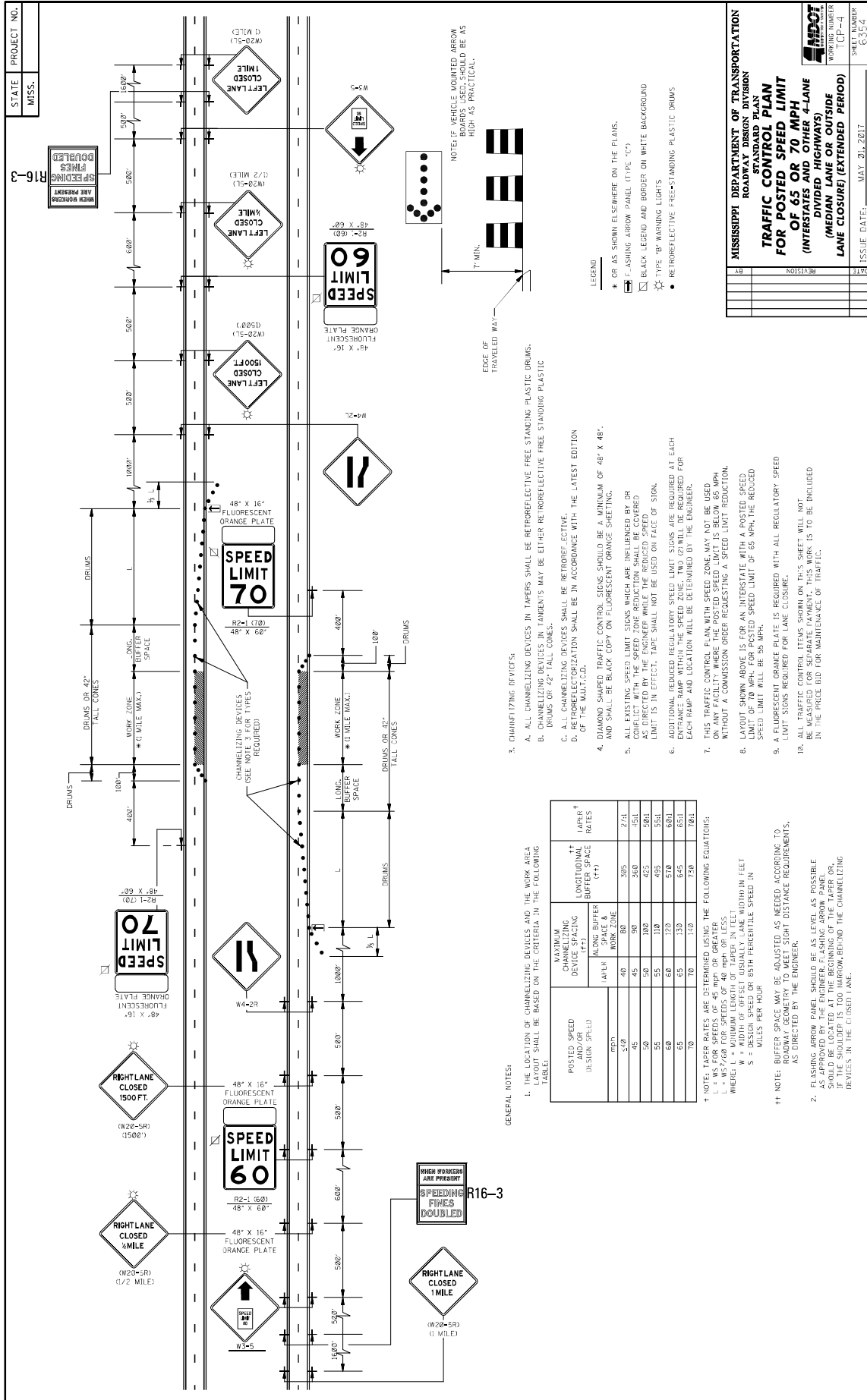
TRAFFIC CONTROL PLAN
WITH FLAGGER
(ONE-LANE CLOSURE OF
TWO-WAY TRAFFIC)

ISSUE DATE: MAY 01, 2017

WORKING NUMBER [CP-1]
SHEET NUMBER 6351







STATE PROJECT NO.
MISS.

R16-3

WHEN WORKERS ARE WORKING SPEEDING FINES DOUBLED

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
TRAFFIC CONTROL PLAN
FOR POSTED SPEED LIMIT
OF 65 OR 70 MPH
(INTERSTATES AND OTHER 4-LANE
DIVIDED HIGHWAYS)
(MEDIUM LANE OR OUTSIDE
LANE CLOSED/ EXTENDED PERIOD)

ISSUE DATE: MAY 20, 2012

REV. NO. REVISION

1 01

LEGEND

- * OR AS SHOWN ELSEWHERE ON THE PLANS.
- FLASHING ARROW PANEL (TYPE "C")
- BLACK, LEGGED AND BORDER ON WHITE BACKGROUND
- TYPE "B" MARKING LIGHTS
- RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS

- GENERAL NOTES:
- THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LENGTH SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
- | POSTED SPEED AND/OR DESIGN SPEED (MPH) | MAXIMUM CHANNELIZING DEVICE SPACING ALONG BUFFER SPACE & WORK ZONE (FT/L) | | LONGITUDINAL BUFFER SPACE (FT) | TAPER RATES (LAPL) |
|--|---|---------|--------------------------------|--------------------|
| | MINIMUM | MAXIMUM | | |
| 50 | 40 | 80 | 305 | 2/1 |
| 55 | 45 | 90 | 360 | 3/1 |
| 60 | 50 | 100 | 420 | 4/1 |
| 65 | 55 | 110 | 495 | 5/1 |
| 70 | 60 | 120 | 570 | 6/1 |
| 75 | 65 | 130 | 645 | 7/1 |
| 80 | 70 | 140 | 720 | 8/1 |
- NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 L = WS²/60 FOR SPEEDS OF 45 MPH OR GREATER
 L = WS²/60 FOR SPEEDS OF 40 MPH OR LESS
 WHERE: L = MINIMUM BUFFER SPACE (FEET)
 W = WIDTH OF BUFFER SPACE (FEET)
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR
- NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.
- FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR AT THE END OF THE TAPER. CHANNELIZING DEVICES IN THE CLOSED LANE.
- CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
 - CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
 - ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
 - RETROREFLECTIVIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD-6A.
 - DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48" AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
 - ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR CONFLICT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED. THE EXISTING SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON FACE OF SIGN.
 - ADDITIONAL REQUIRED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP AND LEGALION WILL BE DETERMINED BY THE ENGINEER.
 - THIS TRAFFIC CONTROL PLAN WITH SPEED ZONE MAY NOT BE USED ON ANY FACILITY WHERE THE POSTED SPEED LIMIT IS BELOW 65 MPH WITHOUT A COMMISSION ORDER REQUESTING A SPEED LIMIT REDUCTION.
 - LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH FOR PASTED SPEED LIMIT OF 65 MPH. THE REDUCED SPEED LIMIT WILL BE 55 MPH.
 - A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS REQUIRED FOR LANE CLOSURE.
 - ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

| | | |
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| STATE MISS. | PROJECT NO. | |
|----------------|-------------|--|

MOBILE OPERATIONS ON MULTILANE ROAD

MOBILE OPERATIONS ON MULTILANE ROAD

MOBILE OPERATIONS ON TWO-LANE ROAD

MOBILE OPERATIONS ON TWO-LANE ROAD

NOTES FOR MULTILANE LANE OPERATION:

- VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLASGS, SIGNS, OR ARROW PANELS.
- SHADOW VEHICLE 2 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA), AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE PLACED BEHIND SHADOW VEHICLE 2 SO AS NOT TO OBSCURE THE ARROW PANEL.
- SHADOW VEHICLE 1 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA).
- SHADOW VEHICLE 2 SHOULD TRAVEL AT A VARYING DISTANCE FROM THE WORK OPERATION SO AS TO PROVIDE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
- WHEN ADEQUATE SHOULDER WIDTH IS NOT AVAILABLE, SHADOW VEHICLE 2 SHOULD BE ELIMINATED.
- ON HIGH-SPEED ROADWAYS, A THIRD SHADOW VEHICLE SHOULD BE USED (i.e., VEHICLE 3 ON THE SHOULDER OF PRACTICALLY, VEHICLE 2 IN THE CLOSED LANE, AND VEHICLE 1 IN THE CLOSED LANE).
- ARROW PANELS SHALL BE AS A MINIMUM TYPE B, 60" X 36" IN ACCORDANCE WITH THE CRITERIA PRESENTED IN THE MUTCD.
- WORK SHOULD NORMALLY BE DONE DURING OFF-PEAK HOURS.
- VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE OBTURED BY EQUIPMENT OR SUPPLEMENTARY SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
- ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

NOTES FOR TWO-LANE OPERATION:

- WHERE PRACTICAL AND WHEN NEEDED, THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS. IF THIS CAN NOT BE DONE FREQUENTLY AS AN ALTERNATIVE, A "DO NOT PASS" SIGN MAY BE PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.
- THE DISTANCE BETWEEN THE WORK AND SHADOW VEHICLES MAY VARY ACCORDING TO TERRAIN, PAINT DRYING TIME, AND OTHER FACTORS. SHADOW VEHICLES ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD. WHENEVER ADEQUATE SIGHT DISTANCE IS NOT AVAILABLE, SHADOW VEHICLES SHOULD BE USED TO MAINTAIN THE MINIMUM DISTANCE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. THE SHADOW VEHICLE SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- ADDITIONAL SHADOW VEHICLES TO WARN AND REDUCE THE SPEED OF ONCOMING OR OPPOSING TRAFFIC MAY BE USED. POLICE PATROL CARS MAY BE USED FOR THIS PURPOSE.
- A TRUCK-MOUNTED ATTENUATOR (TMA) SHOULD BE USED ON THE SHADOW VEHICLE AND MAY BE USED ON THE WORK VEHICLE.
- THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS AND THE SHADOW VEHICLE SHALL BE EQUIPPED WITH BEACONS AND LIGHTS. TRUCK MOUNTED LIGHTS MOUNTED ON THE REAR, ADJACENT TO THE SIGN, SHADOW AND WORK VEHICLES SHALL DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWARD AND TO THE REAR.
- VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE OBTURED BY EQUIPMENT OR SUPPLEMENTARY SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
- ARROW BOARD TO BE USED IN CAUTION MODE.
- ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

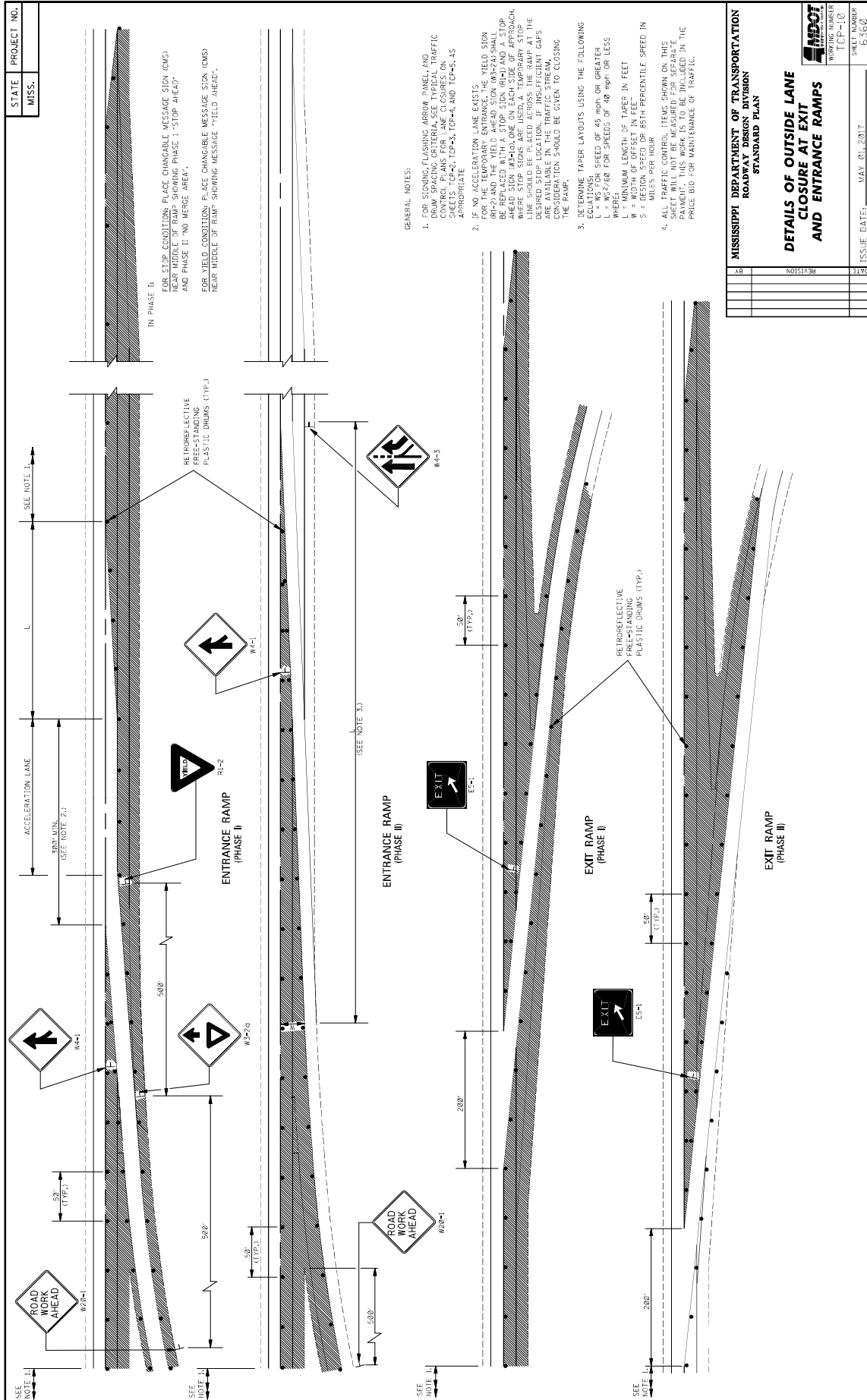
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

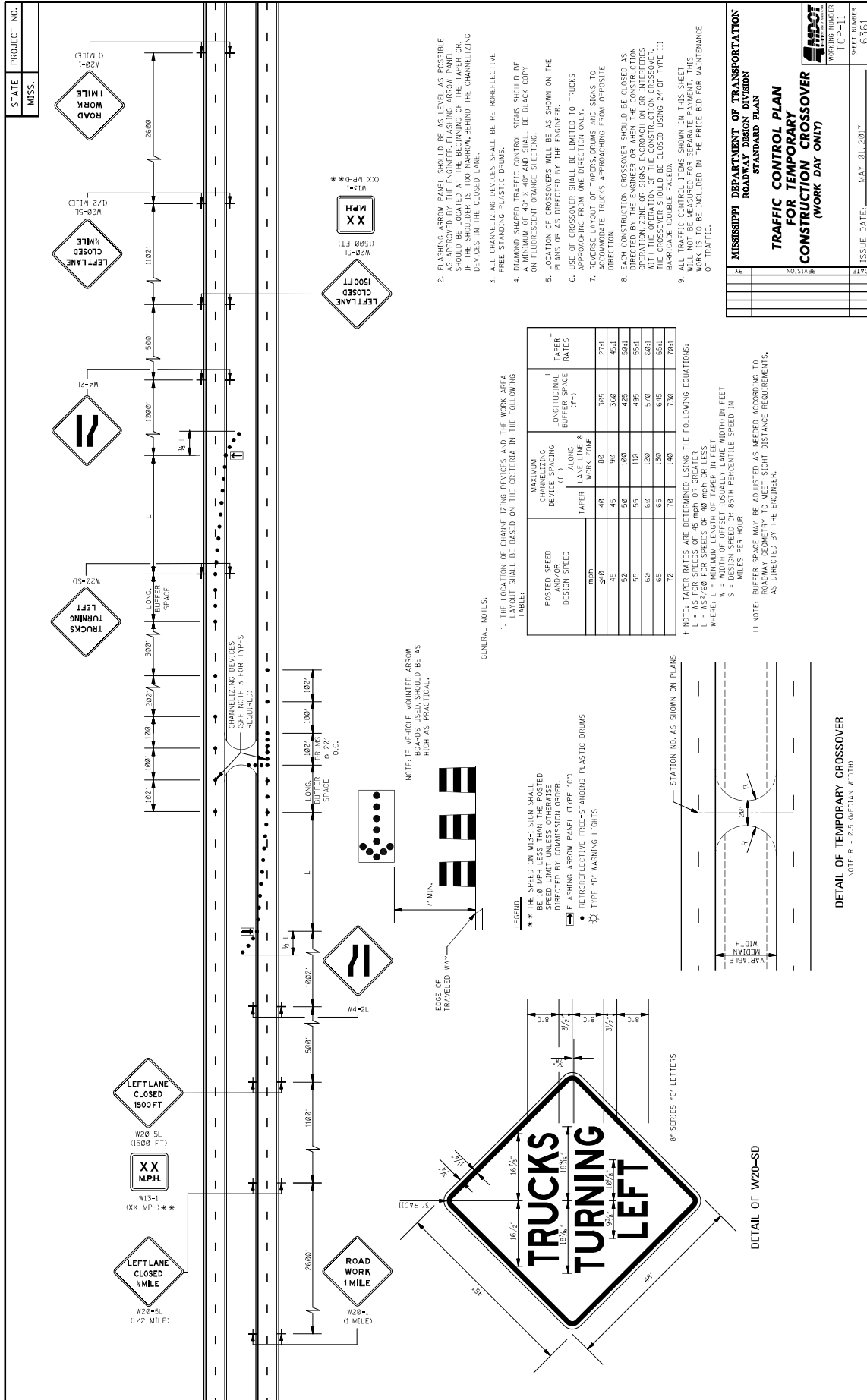
TRAFFIC CONTROL PLAN
MOBILE OPERATIONS
MULTILANE ROADS
TWO-LANE ROADS

| | | | | | | | | | |
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| REVISION | | | | | | | | | |
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ISSUE DATE: MAY 01, 2017

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| SHEET NUMBER | CP-9 |
| WORKING NUMBER | 6359 |



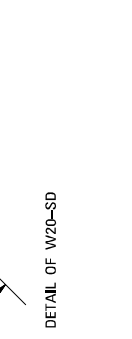
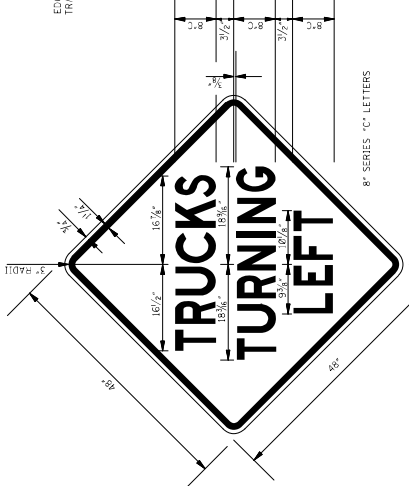
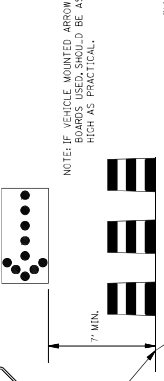


- FLASHING ARROW PANELS SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANELS SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
- ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
- DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE BLACK COPY ON FLUORESCENT ORANGE SUCTING.
- LOCATION OF CROSSOVERS WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- USE OF CROSSOVERS SHALL BE LIMITED TO TRUCKS APPROACHING FROM ONE DIRECTION ONLY.
- REVERSE LAYOUT OF TAPERS, DRUMS AND SIGNS TO ACCOMMODATE TRUCKS APPROACHING FROM OPPOSITE DIRECTION.
- EACH CONSTRUCTION CROSSOVER SHOULD BE CLOSED AS EARLY AS POSSIBLE AND REMAIN CLOSED THROUGH THE OPERATION ZONE OF SIGNS ENCROACH ON OR INTERFERE WITH THE OPERATION OF THE CONSTRUCTION CROSSOVER.
- THE CROSSOVER SHOULD BE CLOSED USING 24\"/>

| POSTED SPEED AND/OR DESIGN SPEED | MAXIMUM CHANNELIZING DEVICES SPACING (FT) | LONG. BUFFER SPACE (FT) | TAPER RATES | |
|----------------------------------|---|-------------------------|-----------------|-----------------|
| | | | MIN. TAPER RATE | MAX. TAPER RATE |
| 50 | 49 | 82 | 305 | 274 |
| 55 | 45 | 90 | 362 | 454 |
| 60 | 50 | 100 | 425 | 501 |
| 65 | 55 | 112 | 495 | 551 |
| 70 | 60 | 120 | 570 | 601 |
| 75 | 65 | 130 | 645 | 651 |
| 80 | 70 | 140 | 730 | 701 |

NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 $L = 1.47 S W$
 $L = W S^2 / 4.5$
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 W = WIDTH OF OFFSET USUALLY LANE WIDTH IN FEET
 S = DESIGN SPEED IN MILES PER HOUR
 45TH PERCENTILE SPEED IN MILES PER HOUR

NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

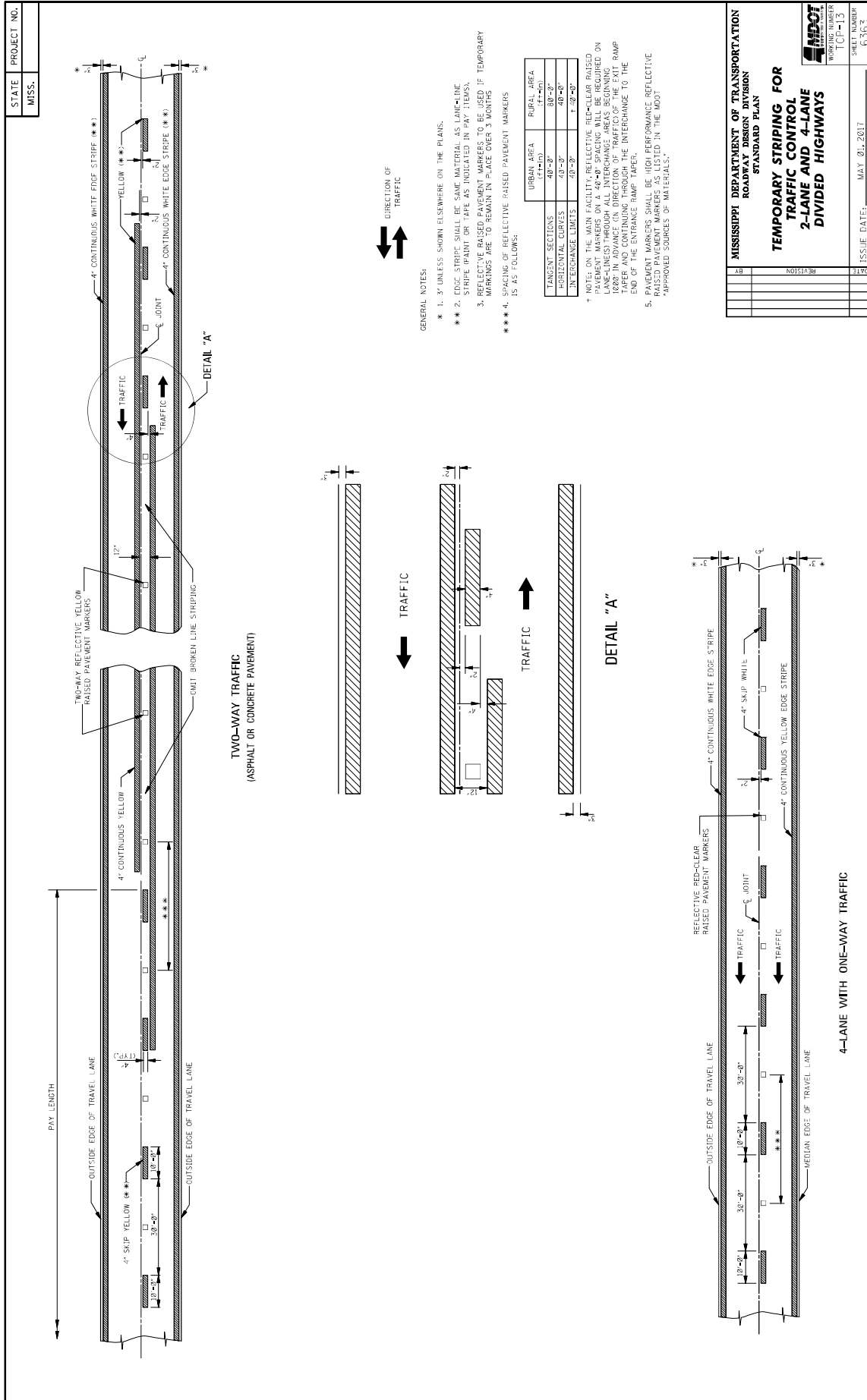


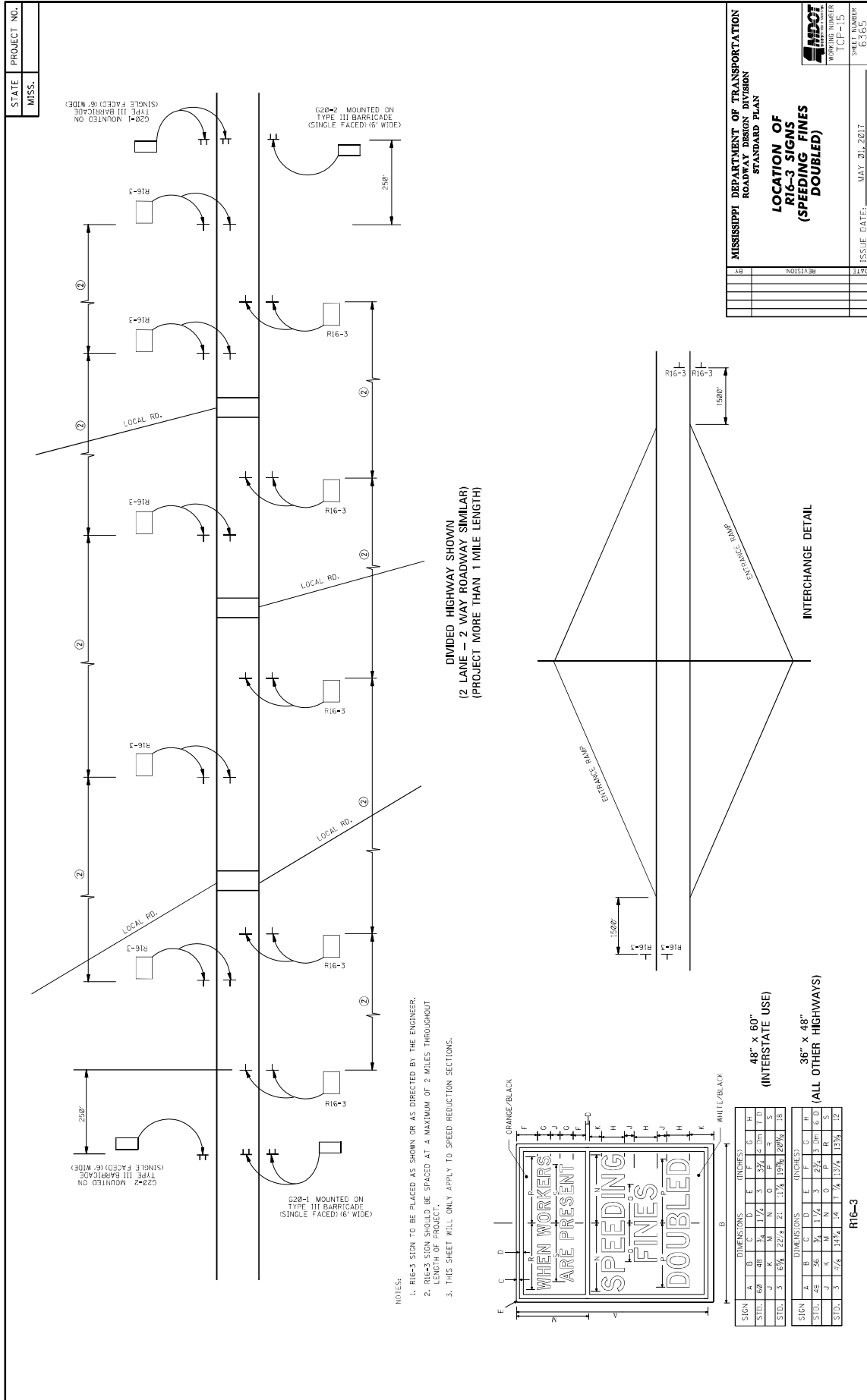
DETAIL OF TEMPORARY CROSSOVER
 NOTE: R = 60\"/>

STATE PROJECT NO. MISS.

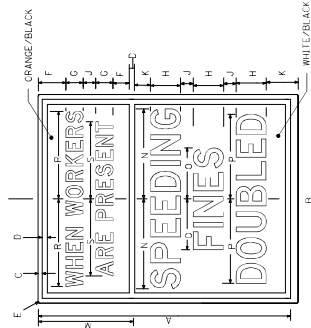
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN
**TRAFFIC CONTROL PLAN
 FOR TEMPORARY
 CONSTRUCTION CROSSOVER
 (WORK DAY ONLY)**

WORKING NUMBER: TSP-11
 SHEET NUMBER: 6361
 ISSUE DATE: MAY 01, 2017





- NOTES:
1. R16-3 SIGN TO BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 2. R16-3 SIGN SHOULD BE SPACED AT A MAXIMUM OF 2 MILES THROUGHOUT LENGTH OF PROJECT.
 3. THIS SHEET WILL ONLY APPLY TO SPEED REDUCTION SECTIONS.



| SIGN | | DIMENSIONS (INCHES) | | | | | | | | | | | | | | | | | |
|------|-----|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | |
| STD. | 6-0 | 48 | 3/4 | 1 1/4 | 5 | 3/4 | 4 | 1/4 | 1 1/4 | 1 3/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 | |
| STD. | 3 | 1 5/8 | 2 2/3 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 |

| SIGN | | DIMENSIONS (INCHES) | | | | | | | | | | | | | | | | | | |
|------|---|---------------------|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | | |
| STD. | 3 | 36 | 3 | 3/4 | 1 1/4 | 1 1/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 | 1 1/4 | 1 3/4 | 2 1/2 |

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

LOCATION OF R16-3 SIGNS (SPEEDING FINES DOUBLED)

ISSUE DATE: MAY 21, 2017

WORKING NUMBER ICF-15

SHEET NUMBER 6-163

| | |
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| STATE MISS. | PROJECT NO. |
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TYPICAL SHOULDER CLOSURE

(1) TO BE USED WITH EIGHT (8) FOOT OR GREATER WIDTH IMPROVED SHOULDER.
(2) TO BE USED WHEN CONSTRUCTION VEHICLES (EQUIPMENT) ENCRUSHES ON OR WITHIN TWO (2) FEET OF THE SHOULDER BREAK.

TYPICAL SHOULDER WORK #1
(SEE NOTE A-I THIS SHEET)

TYPICAL SHOULDER WORK #2

NOTE:
WORK OUTSIDE TWO (2) FOOT AND WITHIN TEN (10) FEET OF THE SHOULDER BREAK MAY BE PROTECTED BY PLACING DRUMS ALONG THE SHOULDER EDGE 300 FEET PRIOR TO AND 50 FEET BEYOND THE WORK AREA. OR SEE NOTE A-3 THIS SHEET.

DETAIL OF DRUM PLACEMENT AT PAVEMENT EDGE DROP-OFF

GRANULAR MATERIAL REQUIRED (SAME CLASSIFICATION AS SHOULDER MATERIAL. SEE TYPICAL SECTIONS)

NOTES:

- * A. PAVEMENT EDGE DROP-OFF
- 1. IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES PROTECTION REQUIRED. PLACE A SHOULDER WORK SIGN (W2-5) 500 FEET IN ADVANCE OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-3) AT THE BEGINNING AND THROUGHOUT THE WORK ZONE B (750'-C.C.).
- 2. TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PLACE OF DRUMS, PANELS, AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE MULTICOLA 17.3 L, WHERE L IS THE TAPER LENGTH IN FEET.
- 3. GREATER THAN THREE (3) INCHES-POSITIVE SEPARATION OR WEDGE WITH 4:1 OR FLATTER SLOPE NEEDED. IF THERE IS EIGHT (8) FEET OR MORE DISTANCE BETWEEN THE EDGE OF TRAVEL LANE AND DROP-OFF, THEN DRUMS, PANELS OR BARRICADES MAY BE USED.
- 4. FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN THREE (3) INCHES MAY BE PROTECTED WITH DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.
- 5. LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

B. DRUM SPACING

1. TANGENT'S = 2 X S
WHERE:
L = TAPER LENGTH IN FEET
S = SPEED IN MPH (POSTED OR 85 PERCENTILE)
W = WIDTH OF OFFSET IN FEET

C. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.

TABLE V-1. GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE

| X X SPEED (MPH) | DRUM LENGTH (FEET) |
|-----------------|--------------------|
| 25 | 35 |
| 30 | 40 |
| 35 | 45 |
| 40 | 50 |
| 45 | 55 |
| 50 | 60 |
| 55 | 65 |
| 60 | 70 |
| 65 | 75 |
| 70 | 80 |
| 75 | 85 |
| 80 | 90 |
| 85 | 95 |
| 90 | 100 |
| 95 | 105 |
| 100 | 110 |
| 105 | 115 |
| 110 | 120 |
| 115 | 125 |
| 120 | 130 |
| 125 | 135 |
| 130 | 140 |
| 135 | 145 |
| 140 | 150 |
| 145 | 155 |
| 150 | 160 |
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| 165 | 175 |
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| 175 | 185 |
| 180 | 190 |
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| 265 | 275 |
| 270 | 280 |
| 275 | 285 |
| 280 | 290 |
| 285 | 295 |
| 290 | 300 |
| 295 | 305 |
| 300 | 310 |
| 305 | 315 |
| 310 | 320 |
| 315 | 325 |
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| 325 | 335 |
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| 345 | 355 |
| 350 | 360 |
| 355 | 365 |
| 360 | 370 |
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| 370 | 380 |
| 375 | 385 |
| 380 | 390 |
| 385 | 395 |
| 390 | 400 |
| 395 | 405 |
| 400 | 410 |
| 405 | 415 |
| 410 | 420 |
| 415 | 425 |
| 420 | 430 |
| 425 | 435 |
| 430 | 440 |
| 435 | 445 |
| 440 | 450 |
| 445 | 455 |
| 450 | 460 |
| 455 | 465 |
| 460 | 470 |
| 465 | 475 |
| 470 | 480 |
| 475 | 485 |
| 480 | 490 |
| 485 | 495 |
| 490 | 500 |
| 495 | 505 |
| 500 | 510 |
| 505 | 515 |
| 510 | 520 |
| 515 | 525 |
| 520 | 530 |
| 525 | 535 |
| 530 | 540 |
| 535 | 545 |
| 540 | 550 |
| 545 | 555 |
| 550 | 560 |
| 555 | 565 |
| 560 | 570 |
| 565 | 575 |
| 570 | 580 |
| 575 | 585 |
| 580 | 590 |
| 585 | 595 |
| 590 | 600 |
| 595 | 605 |
| 600 | 610 |
| 605 | 615 |
| 610 | 620 |
| 615 | 625 |
| 620 | 630 |
| 625 | 635 |
| 630 | 640 |
| 635 | 645 |
| 640 | 650 |
| 645 | 655 |
| 650 | 660 |
| 655 | 665 |
| 660 | 670 |
| 665 | 675 |
| 670 | 680 |
| 675 | 685 |
| 680 | 690 |
| 685 | 695 |
| 690 | 700 |
| 695 | 705 |
| 700 | 710 |
| 705 | 715 |
| 710 | 720 |
| 715 | 725 |
| 720 | 730 |
| 725 | 735 |
| 730 | 740 |
| 735 | 745 |
| 740 | 750 |
| 745 | 755 |
| 750 | 760 |
| 755 | 765 |
| 760 | 770 |
| 765 | 775 |
| 770 | 780 |
| 775 | 785 |
| 780 | 790 |
| 785 | 795 |
| 790 | 800 |
| 795 | 805 |
| 800 | 810 |
| 805 | 815 |
| 810 | 820 |
| 815 | 825 |
| 820 | 830 |
| 825 | 835 |
| 830 | 840 |
| 835 | 845 |
| 840 | 850 |
| 845 | 855 |
| 850 | 860 |
| 855 | 865 |
| 860 | 870 |
| 865 | 875 |
| 870 | 880 |
| 875 | 885 |
| 880 | 890 |
| 885 | 895 |
| 890 | 900 |
| 895 | 905 |
| 900 | 910 |
| 905 | 915 |
| 910 | 920 |
| 915 | 925 |
| 920 | 930 |
| 925 | 935 |
| 930 | 940 |
| 935 | 945 |
| 940 | 950 |
| 945 | 955 |
| 950 | 960 |
| 955 | 965 |
| 960 | 970 |
| 965 | 975 |
| 970 | 980 |
| 975 | 985 |
| 980 | 990 |
| 985 | 995 |
| 990 | 1000 |

* * * POSTED SPEED, OFF-PEAK 85 PERCENTILE SPEED
* * * PRIORITY TO WORK STARTING OR THE ANTICIPATED OPERATING SPEED IN MPH.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL DETAILS
DRUM PLACEMENT
SHOULDER CLOSURE

WORKING NUMBER
 TCF-16
 SHEET NUMBER
 63-06

ISSUE DATE: MAY 20, 2017

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3676

CODE: (SP)

DATE: 09/21/2021

SUBJECT: Asphalt Gyrotory Compactor Internal Angle Calibration

Bidders are advised that by March 1, 2022, all asphalt gyrotory compactors shall be calibrated to an internal angle of $1.16^{\circ} \pm 0.02^{\circ}$. This requirement will be reflected in updates made to MT-78, MT-80, and MT-83. This calibration requirement also extends to all QC/QA testing.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4702

CODE: (SP)

DATE: 11/22/2022

SUBJECT: App for Traffic Control Reports

Bidders are advised that the Department has created a smart phone App for completing and submitting traffic control reports (Form CSD-762) required on this project. The Contractor who monitors traffic control activities and completes traffic control reports will be required to download and use this App when completing and submitting traffic control reports. The reports will then be readily available to all persons who need access to the forms. The App is free and is available for downloading at the following location.

<https://extacctmgmt.mdot.state.ms.us/>

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5182

CODE: (SP)

DATE: 6/20/2023

SUBJECT: Contract Time

PROJECT: SP-0610-00(018) / 108694301 -- Bolivar 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 August 8, 2023 and the date for Notice to Proceed / Beginning of Contract Time will be September 7, 2023.

Should the Contractor request a Notice to Proceed earlier than September 7, 2023 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.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 – NOTICE TO BIDDERS NO. 5183

CODE: (SP)

DATE: 06/20/2023

SUBJECT: Scope of Work

PROJECT: SP-0610-00(018) / 108694301 -- Bolivar County

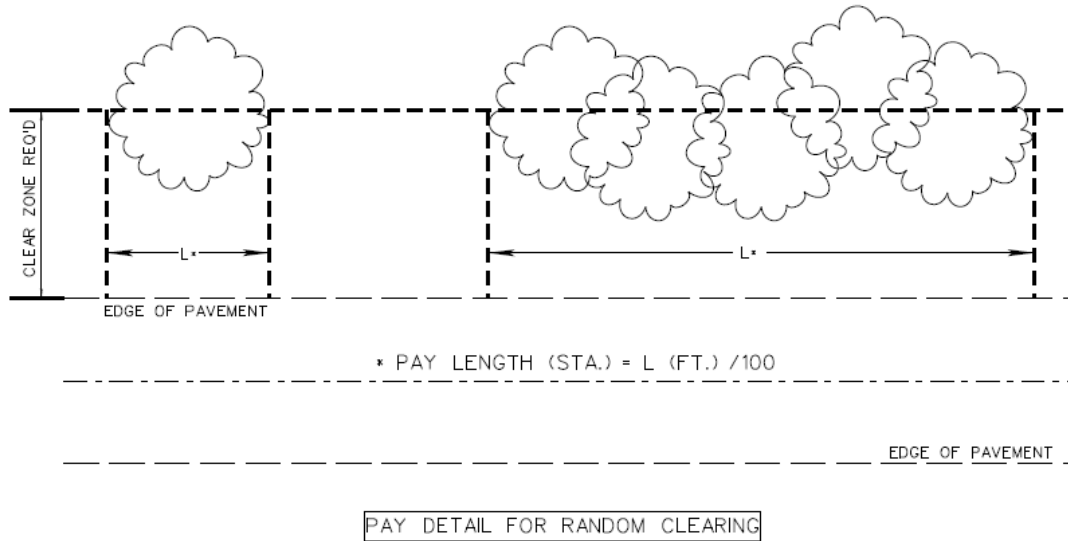
The contract documents do not include an official set of construction plans, but may, by reference, include some Standard Drawings when so specified in a Notice to Bidders entitled, “Standard Drawings.”

MISSISSIPPI HIGHWAY 448
OVERLAY FROM SR 1 TO US 61
BOLIVAR COUNTY
LOG MILE 0.008 TO 16.356

In general, the work to be accomplished using the pay items and corresponding specifications set forth in this contract is to overlay approximately 16.4 miles of SR 448 in Bolivar County between SR 1 at Benoit and US 61 at Shaw.

Work on the project shall consist of the following:

1. The Contractor shall erect and maintain construction signing, provide all signs, and traffic handling devices in accordance with the Traffic Control Plan. The costs for this work are to be included in the price bid for pay item number 618-A: Maintenance of Traffic. All traffic control devices on this project should comply with the latest version of the MUTCD. Fluorescent orange sheeting shall be used on all construction and traffic control signs except for those designated in the plans to be black legend and border on white background. The Contractor will be required to use 42-inch channelizer cones with 6-inch-wide reflective tape and 16-pound vertical panel bases for each cone.
2. The Contractor shall perform random clearing within the specified clearing limits, including vegetation overhanging the edge of the clearing limits. Over hanging vegetation shall be trimmed to a minimum height of thirty feet (30’) above the ground elevation at the edge of the clearing limits. It is the intent of this Contract for the vegetation, except for any merchantable timber that the Contractor desires, to be mulched onsite and left in place. Mulched material shall be spread such that no more than four inches (4”) in depth of material is placed in any location. This work shall be paid under pay item 201-D: Random Clearing, per Station. Each side of the roadway will be measured separately. Clearing within two feet (2’) of fences, utilities, and other obstructions as directed by the Engineer within the R.O.W. shall be omitted to avoid damages. The clearing limits are thirty feet (30’) on each side of the roadway centerline within the limits of the project.



3. The Contractor shall repair any failed pavement areas on the main facility as directed by the Project Engineer using the following construction sequence:

- a) Saw cut full depth through the failed pavement.
- b) Remove the failed pavement (asphalt and/or concrete).
- c) Remove any unsuitable material in the subgrade as directed by the Project Engineer. Removal of this material will be paid for as excess excavation.
- d) Backfill and stabilize the failed area with 19-mm, ST, Leveling asphalt. The final grade of the asphalt shall match the existing grade of the pavement. No lift of 19-mm asphalt pavement shall be greater than 3½ “ or as designated by the Project Engineer. Densities will not be required on this asphalt. The Contractor shall compact each lift to refusal or as directed by the Engineer. All repairs must be complete by the end of the workday and the lane closures must be removed from the roadway so that all lanes of travel are open to traffic.

NOTE: See the included pavement repair sheet.

4. The roadway shall be fine milled at the B.O.P., local roads, bridge ends and other areas as designated by the Project Engineer to ensure smooth transitions of new overlay with existing grade. It is the Contractor’s responsibility to ensure the drainage of surface water from the milled areas including the use of shoulder cuts.

The Contractor shall fine mill to a depth of 1½“ the asphalt pavement through the curb & gutter section in the City of Shaw (Log Mile 15.455-16.349). This section of the project will receive a single lift overlay and will not be leveled.

NOTE: The Contractor shall place temporary wedges of full lane width asphalt pavement immediately after the fine milling process to allow the safe transition of traffic. The length of the wedges will be three feet (3’) for every ½ inch in height. These wedges shall be maintained in a satisfactory condition by the Contractor until the permanent asphalt pavement

is placed. All costs for placing and maintaining these wedges shall be absorbed in other pay items. Cold mix will not be allowed.

- 5. The Contractor shall pre-grind the project as directed by the Project Engineer. The areas for pre-grinding are shown in the Pre-grinding Quantity sheet.
- 6. The Contractor shall place a 3/4" and variable of 9.5-mm, ST, Leveling asphalt on the main roadway in the locations listed below. The paving shall have a two percent (2%) cross slope or the appropriate super elevation rate in each direction from the centerline. The asphalt shall be placed in full lane width passes on the main roadway and in widths as necessary at intersections and other areas where the pavement width varies. Any work to control the laydown equipment for proper placement of the asphalt in the superelevated curves shall be absorbed by the Contractor at no additional cost to the State.

Leveling Sections:

- Log Mile 4.3-5.9
- Log Mile 8.2-9.9
- Log Mile 10.7-12.4
- Log Mile 12.9-13.8
- Log Mile 14.5-15.4

- 7. The Contractor shall place one 1 1/2 inch of 9.5-mm, ST asphalt on the main roadway having a two percent (2%) cross slope or the appropriate super elevation rate in each direction from the centerline. The asphalt shall be placed in full lane width passes on the main roadway and in widths as necessary at intersections and other areas where the pavement width varies. Any work to control the laydown equipment for proper placement of the asphalt in the superelevated curves shall be absorbed by the Contractor at no additional cost to the State.

Local roads shall be paved to the right-of-way or as directed by the Project Engineer. Any local roads that have not been paved will receive 3" of asphalt pavement as directed by the Project Engineer. Aprons shall be constructed at existing ramps that do not have paved aprons by placing 3" of asphalt pavement in widths and lengths as directed by the Project Engineer. Existing aprons shall be paved to match final main line grades. Any site grading at local roads, aprons and other areas will not be measured for separate payment but will be considered an absorbed item. The asphalt for this work will be paid under 9.5-mm, ST, Leveling asphalt.

- 8. Temporary striping shall conform to finished stripe specifications for alignment, reflectivity, straightness, and neatness. Temporary stripe shall be placed as needed for safe movement of traffic. All permanent pavement markings shall be hot thermoplastic.

NOTE: The stripe removal pay item is for the removal of stripe from concrete bridge decks.

NOTE: All bridges within the project limits shall be swept clean of debris. All costs for sweeping bridges shall be absorbed in other pay items.

9. The existing shoulders shall be raised to match the new pavement as directed by the Project Engineer. This may be done by grading existing material and/or placing any needed granular material, all to be bladed and dressed to a finished slope of 4%.

Note: Any existing low shoulders or at any time there is a differential more than two (2) inches, the Contractor shall raise the shoulder grade up to the current asphalt grade. The Contractor may pull up existing shoulder material if possible or place new granular material. Incidental work such as removing vegetation, shaping, and compacting shoulders including the base for paved aprons, and other incidental work that is necessary to complete the work will not be measured for separate payment and the cost will be included in the items bid.

10. The Contractor shall install guard rail on the project using the guard rail pay items in the proposal. (See the included Guard Rail sheet.)
11. Raised pavement markers shall be placed at 80-foot intervals in tangents and 40-foot intervals in curves and urban areas along the centerline or roadway. Existing raised pavement markers shall be removed prior to the placement of asphalt and shall be considered an absorbed item of work. Post mounted Type III object markers shall be installed at all bridge sites.

PAVEMENT REPAIRS

| No. | Log Mile | Lat. | Long. | Lane | Length (LF) | Width (LF) | Area (SY) | Excess Excav. (CY) | Asphalt 19mm (T) | Sawcut (LF) | Removal Concrete (SY) |
|-----|----------|----------|-----------|------|-------------|------------|-------------|--------------------|------------------|-------------|-----------------------|
| 1 | 0.166 | 33.64957 | -91.00749 | WB | 6 | 4 | 3 | 1 | 2 | 14 | |
| 2 | 0.298 | 33.64808 | -91.00606 | WB | 30 | 4 | 13 | 4 | 9 | 38 | |
| 3 | 0.382 | 33.64714 | -91.00515 | WB | 25 | 4 | 11 | 4 | 8 | 33 | |
| 4 | 0.861 | 33.64194 | -90.99979 | WB | 10 | 4 | 4 | 1 | 3 | 18 | |
| 5 | 1.665 | 33.63287 | -90.99143 | WB | 25 | 5 | 14 | 5 | 9 | 60 | |
| 6A | 1.887 | 33.63020 | -90.98932 | WB | 60 | 10 | 67 | 22 | 45 | 80 | |
| 6B | 1.887 | 33.63020 | -90.98932 | EB | 40 | 10 | 44 | 15 | 30 | 60 | |
| 7 | 2.024 | 33.62822 | -90.98917 | WB | 6 | 4 | 3 | 1 | 2 | 14 | |
| 8 | 2.878 | 33.61621 | -90.98707 | CL | 6 | 4 | 3 | 1 | 2 | 20 | |
| 9 | 3.150 | 33.61264 | -90.98505 | WB | 6 | 4 | 3 | 1 | 2 | 20 | |
| 10 | 3.282 | 33.61094 | -90.98403 | WB | 6 | 4 | 3 | 1 | 2 | 14 | |
| 11 | 3.439 | 33.60891 | -90.98279 | EB | 6 | 4 | 3 | 1 | 2 | 14 | |
| 12 | 7.284 | 33.60278 | -90.91980 | WB | 80 | 4 | 36 | 12 | 24 | 88 | |
| 13 | 14.167 | 33.60330 | -90.80142 | EB | 10 | 10 | 11 | 4 | 8 | 30 | |
| 14 | 14.379 | 33.60490 | -90.79828 | EB | 30 | 4 | 13 | 4 | 9 | 38 | |
| 15 | 15.096 | 33.60706 | -90.78644 | WB | 100 | 2 | 22 | 7 | 15 | 104 | |
| 16 | 15.202 | 33.60687 | -90.78463 | WB | 20 | 3 | 7 | 2 | 5 | 26 | |
| 17A | 15.946 | 33.60264 | -90.77283 | WB | 15 | 12 | 20 | 7 | 14 | 39 | 20 |
| 17B | 15.946 | 33.60264 | -90.77283 | EB | 15 | 12 | 20 | 7 | 14 | 39 | 20 |
| 18 | 16.011 | 33.60226 | -90.77180 | CL | 4 | 4 | 2 | 1 | 1 | 12 | 2 |
| | | | | | | | 302 | 101 | 206 | 761 | 42 |
| | | | | | | | (SY) | (CY) | (T) | (LF) | (SY) |

* Concrete under asphalt in City of Shaw

| Bridge No. | Quadrant | Lane | Guard Rail Removal | | Guard Rail w-beam LF | Guard Rail Terminals Flared | | Br. End Sect. Type H | Br. End Sect. Type I | Delinator | | Type 3 Obj. Marks. |
|--------------|----------|------|--------------------|-----------|----------------------|-----------------------------|-----------|----------------------|----------------------|------------|-----------|--------------------|
| | | | LF | EA | | EA | EA | | | | | |
| 5.6 | SW | EB | 209 | 1 | 150.0 | 1 | 1 | | 1 | 8 | 1 | |
| 5.6 | NW | WB | 121 | 1 | 62.5 | 1 | 1 | | 1 | 5 | 1 | |
| 5.6 | NE | WB | 209 | 1 | 150.0 | 1 | 1 | | 1 | 8 | 1 | |
| 5.6 | SE | EB | 121 | 1 | 62.5 | 1 | 1 | | 1 | 5 | 1 | |
| 8.6 | SW | EB | 209 | 1 | 150.0 | 1 | 1 | | 1 | 8 | 1 | |
| 8.6 | NW | WB | 121 | 1 | 62.5 | 1 | 1 | | 1 | 5 | 1 | |
| 8.6 | NE | WB | 209 | 1 | 150.0 | 1 | 1 | | 1 | 8 | 1 | |
| 8.6 | SE | EB | 121 | 1 | 62.5 | 1 | 1 | | 1 | 5 | 1 | |
| 11.2 | SW | EB | 214 | 1 | 75.0 | 1 | 1 | 1 | | 8 | 1 | |
| 11.2 | NW | WB | 77 | 1 | 12.5 | 1 | 1 | 1 | | 5 | 1 | |
| 11.2 | NE | WB | 214 | 1 | 75.0 | 1 | 1 | 1 | | 8 | 1 | |
| 11.2 | SE | EB | 77 | 1 | 12.5 | 1 | 1 | 1 | | 5 | 1 | |
| 12.4 | SW | EB | 209 | 1 | 150.0 | 1 | 1 | | 1 | 8 | 1 | |
| 12.4 | NW | WB | 121 | 1 | 62.5 | 1 | 1 | | 1 | 5 | 1 | |
| 12.4 | NE | WB | 209 | 1 | 150.0 | 1 | 1 | | 1 | 8 | 1 | |
| 12.4 | SE | EB | 121 | 1 | 62.5 | 1 | 1 | | 1 | 5 | 1 | |
| Total | | | 2562 | 16 | 1450 | 4 | 12 | 104 | 16 | 104 | 16 | EA |
| | | | LF | EA | LF | EA | EA | EA | EA | EA | EA | EA |

PRE-GRINDING WEST BOUND

| Lane 2 From EOP | Start Distance (ft) | Stop Distance (ft) | MRI (in/mi) | Start LM | End LM | Grind Leng | Area (sq. ft.) | Cost |
|--------------------|---------------------|--------------------|-------------|----------|--------|------------|----------------|-------------|
| | 23.33333 | 151.3333 | 1576.048 | 16.377 | 16.352 | 25 | 300 | \$ 975.00 |
| | 189.1667 | 196.75 | 533.8384 | 16.345 | 16.344 | 8 | 96 | \$ 312.00 |
| | 1172.417 | 1183.083 | 531.5464 | 16.159 | 16.157 | 11 | 132 | \$ 429.00 |
| | 1753.333 | 1774.083 | 571.8884 | 16.049 | 16.045 | 21 | 252 | \$ 819.00 |
| | 2178 | 2185 | 515.7767 | 15.968 | 15.967 | 7 | 84 | \$ 273.00 |
| | 2370.25 | 2410.75 | 1450.399 | 15.932 | 15.924 | 25 | 300 | \$ 975.00 |
| | 2767.75 | 2822.667 | 1080.679 | 15.857 | 15.846 | 25 | 300 | \$ 975.00 |
| | 2841.5 | 2846.167 | 521.807 | 15.843 | 15.842 | 5 | 60 | \$ 195.00 |
| | 2848.833 | 2887.167 | 796.5262 | 15.841 | 15.834 | 25 | 300 | \$ 975.00 |
| | 3112.417 | 3166.5 | 688.074 | 15.792 | 15.781 | 25 | 300 | \$ 975.00 |
| | 3357.25 | 3382.5 | 807.0052 | 15.745 | 15.740 | 25 | 300 | \$ 975.00 |
| | 3655.583 | 3676.417 | 654.4734 | 15.689 | 15.685 | 21 | 252 | \$ 819.00 |
| | 4372.75 | 4379.583 | 554.5533 | 15.553 | 15.552 | 7 | 84 | \$ 273.00 |
| | 5933.5 | 5956.167 | 569.2202 | 15.257 | 15.253 | 23 | 276 | \$ 897.00 |
| | 6317.75 | 6342.667 | 748.811 | 15.184 | 15.180 | 25 | 300 | \$ 975.00 |
| | 9577.666 | 9582.249 | 563.2382 | 14.567 | 14.566 | 5 | 60 | \$ 195.00 |
| | 10124.5 | 10130.25 | 540.3049 | 14.463 | 14.462 | 6 | 72 | \$ 234.00 |
| | 11813.33 | 11821.75 | 534.9206 | 14.144 | 14.142 | 8 | 96 | \$ 312.00 |
| | 24753.58 | 24776.25 | 575.0679 | 11.693 | 11.689 | 23 | 276 | \$ 897.00 |
| | 40466.33 | 40480.58 | 578.2946 | 8.717 | 8.714 | 14 | 168 | \$ 546.00 |
| | 50478.08 | 50488.66 | 549.8101 | 6.821 | 6.819 | 11 | 132 | \$ 429.00 |
| | 67804.49 | 67823.92 | 594.754 | 3.539 | 3.536 | 19 | 228 | \$ 741.00 |
| | 68195.25 | 68204.33 | 559.4257 | 3.465 | 3.464 | 9 | 108 | \$ 351.00 |
| | 68454.41 | 68478.08 | 767.1318 | 3.416 | 3.412 | 24 | 288 | \$ 936.00 |
| | 75917.34 | 75935.84 | 621.684 | 2.003 | 1.999 | 19 | 228 | \$ 741.00 |
| | 76503.33 | 76518.58 | 551.754 | 1.892 | 1.889 | 15 | 180 | \$ 585.00 |
| | 76619.5 | 76700.16 | 1072.141 | 1.870 | 1.854 | 25 | 300 | \$ 975.00 |
| | 77822.08 | 77846.66 | 665.6887 | 1.642 | 1.637 | 25 | 300 | \$ 975.00 |
| | 84565.09 | 84572.16 | 534.5779 | 0.365 | 0.364 | 7 | 84 | \$ 273.00 |
| | 84587.58 | 84602.41 | 560.5866 | 0.361 | 0.358 | 15 | 180 | \$ 585.00 |
| | 85035.66 | 85051 | 579.0812 | 0.276 | 0.273 | 15 | 180 | \$ 585.00 |
| | 85053.08 | 85083.16 | 760.7878 | 0.272 | 0.267 | 25 | 300 | \$ 975.00 |
| | 85724.41 | 85748.66 | 618.4403 | 0.145 | 0.141 | 24 | 288 | \$ 936.00 |
| | | | | | | | 6804 | (SF) |

| PRE-GRINDING EAST BOUND | | | | | | | | | |
|-------------------------|---------------------|--------------------|-------------|----------|--------|------------|----------------|-------------|--|
| Lane 1 | Start Distance (ft) | Stop Distance (ft) | MRI (in/mi) | Start LM | End LM | Grind Leng | Area (sq. ft.) | Cost | |
| From BOP | | | | | | | | | |
| | 12.58333 | 64.41666 | 947.3725 | 0.002 | 0.012 | 25 | 300 | \$ 975.00 | |
| | 284.3333 | 308.75 | 600.6074 | 0.054 | 0.058 | 24 | 288 | \$ 936.00 | |
| | 1211.083 | 1220.333 | 556.1592 | 0.229 | 0.231 | 9 | 108 | \$ 351.00 | |
| | 9907.416 | 9978.167 | 1179.869 | 1.876 | 1.890 | 25 | 300 | \$ 975.00 | |
| | 18123.75 | 18136.83 | 520.5182 | 3.433 | 3.435 | 13 | 156 | \$ 507.00 | |
| | 74760.16 | 74787.5 | 886.6844 | 14.159 | 14.164 | 25 | 300 | \$ 975.00 | |
| | 75869.16 | 75896.08 | 678.7271 | 14.369 | 14.374 | 25 | 300 | \$ 975.00 | |
| | 82886.25 | 82914.25 | 876.2531 | 15.698 | 15.703 | 25 | 300 | \$ 975.00 | |
| | 83415.5 | 83454.16 | 932.8819 | 15.798 | 15.806 | 25 | 300 | \$ 975.00 | |
| | 83490.58 | 83501.75 | 533.6277 | 15.813 | 15.815 | 11 | 132 | \$ 429.00 | |
| | 83698 | 83723.41 | 695.274 | 15.852 | 15.857 | 25 | 300 | \$ 975.00 | |
| | 83763.59 | 83808 | 1339.047 | 15.864 | 15.873 | 25 | 300 | \$ 975.00 | |
| | 84165.16 | 84182.25 | 664.3 | 15.940 | 15.944 | 17 | 204 | \$ 663.00 | |
| | 84826 | 84848.66 | 668.5155 | 16.066 | 16.070 | 23 | 276 | \$ 897.00 | |
| | 85100.84 | 85124.75 | 773.7784 | 16.118 | 16.122 | 24 | 288 | \$ 936.00 | |
| | 85314.08 | 85329.91 | 600.8959 | 16.158 | 16.161 | 16 | 192 | \$ 624.00 | |
| | 85381.25 | 85401.08 | 632.3652 | 16.171 | 16.174 | 20 | 240 | \$ 780.00 | |
| | 85483.91 | 85497.16 | 549.6749 | 16.190 | 16.193 | 13 | 156 | \$ 507.00 | |
| | 86118.75 | 86126.09 | 533.7065 | 16.310 | 16.312 | 7 | 84 | \$ 273.00 | |
| | | | | | | | 4524 | (SF) | |

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

907-102.01--Prequalification of Bidders. 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.

907-102.02--Contents of Proposal Forms. 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>.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

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

907-103.01.1--For Projects Constructed Without Federal Funds. 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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

907-105.1--Authority of the Engineer. 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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-109-4

CODE: (IS)

DATE: 04/19/2021

SUBJECT: Measurement and Payment

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

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

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

907-109.04--Extra Work.

907-109.04.1--Supplemental Agreement. Delete the second paragraph of Subsection 109.04.1 on page 90.

907-109.06--Partial Payment.

907-109.06.2--Advancement on Materials.

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.

907-109.07--Changes in Material Costs. After the fifth paragraph of Subsection 109.07 on page 96, change the web address to the following.

https://mdot.ms.gov/portal/current_letting

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

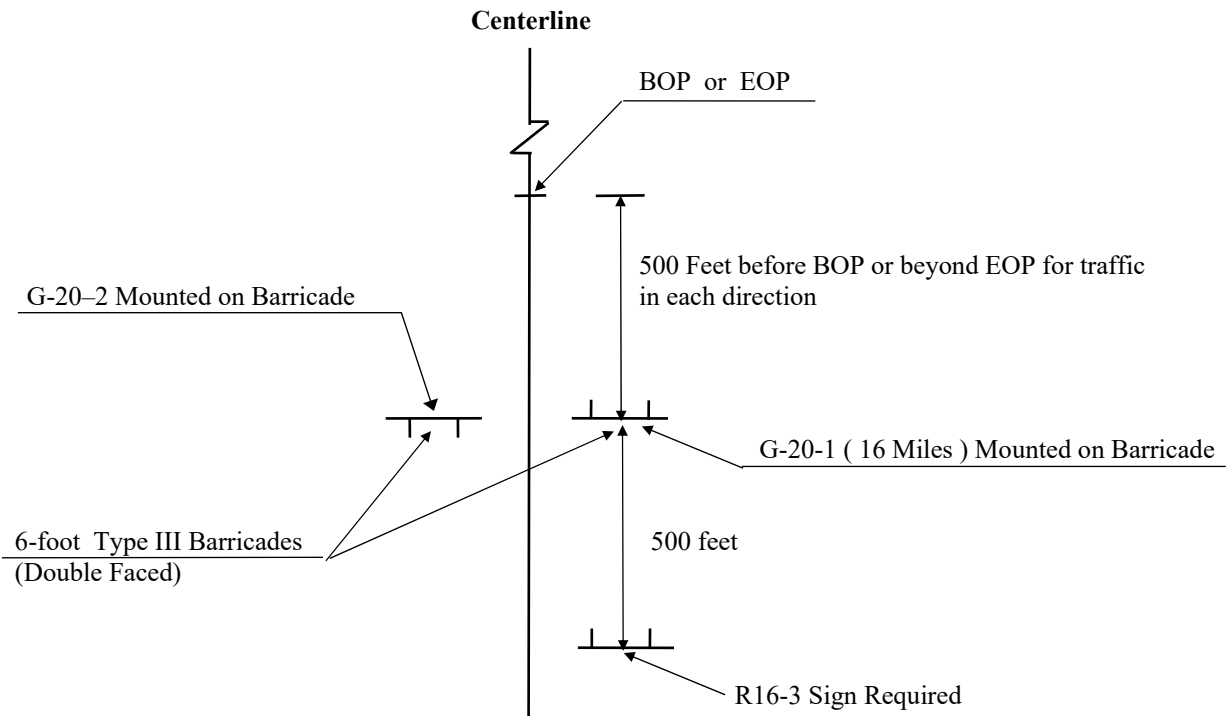
SUPPLEMENT TO SPECIAL PROVISION NO. 907-618-4

DATE: 06/05/2023

PROJECT: SP-0610-00(018) / 108694301 -- Bolivar County

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

Additional traffic control devices will be required as follows.



ADDITIONAL TRAFFIC CONTROL SIGNS REQUIRED:

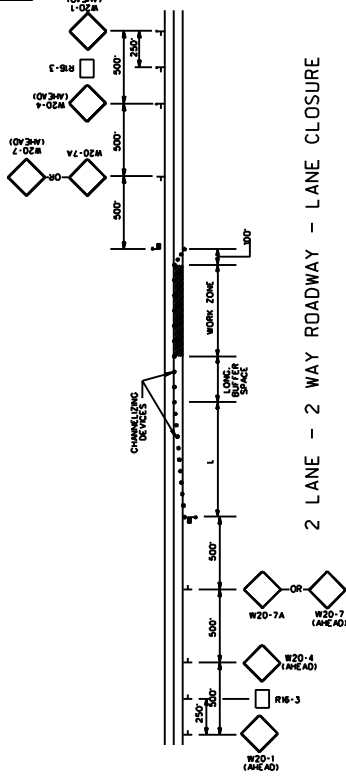
- 13 - W20-1 "AHEAD" signs required. One (1) W20-1 "AHEAD" sign is required at each local road or street entering the project.
- 67 - R4-1 "DO NOT PASS" signs required.
- 12 - R4-2 "PASS WITH CARE" signs required.
- 14 - W14-3 "NO PASSING ZONE" signs required.
- 18 - R16-3 "SPEEDING FINES DOUBLED" signs required.

R4-1 "DO NOT PASS", R4-2 "PASS WITH CARE", and W14-3 "NO PASSING ZONE" signs are required in accordance with Subsection 618.03.3, this drawing, and as specified in the Manual on Uniform Traffic Control Devices.

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

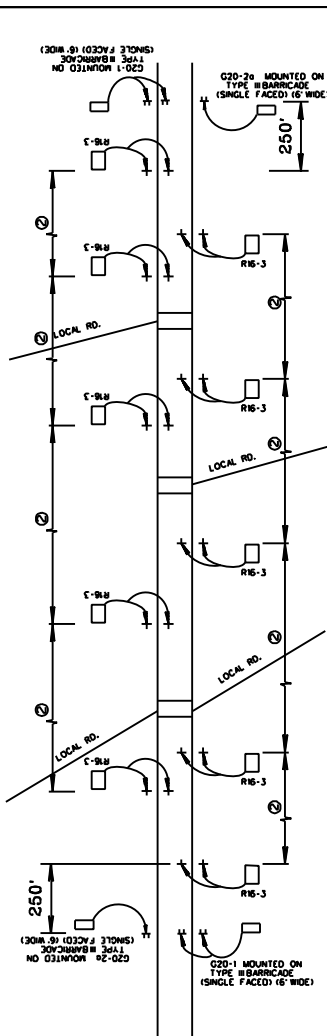
All construction signs and barricades shown on this page shall be included in the bid price for Pay Item 618-A, Maintenance of Traffic. Fluorescent orange sheeting shall be used on all construction and traffic control signs except for R16-3, R4-1 and R4-2 signs which shall be black legend and border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

STATE PROJECT NO.
MISS.

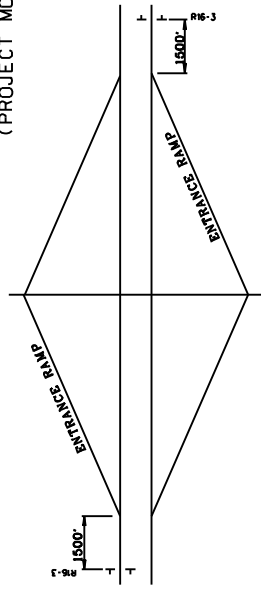


2 LANE - 2 WAY ROADWAY - LANE CLOSURE

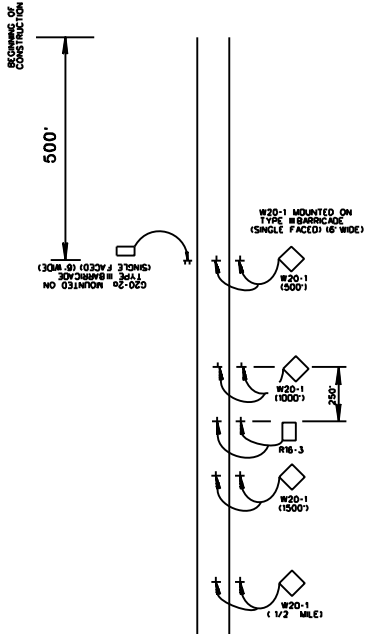
DIVIDED HIGHWAY
(PROJECTS LESS THAN 1 MILE LENGTH)



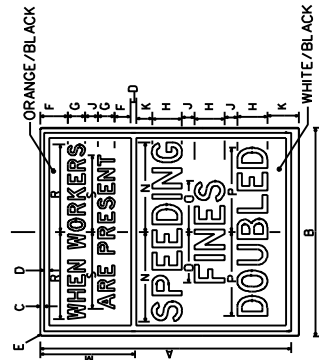
DIVIDED HIGHWAY SHOWN
(2 LANE - 2 WAY ROADWAY SIMILAR)
(PROJECT MORE THAN 1 MILE LENGTH)



INTERSTATE DETAIL



- NOTES
- 1. R16-3 SIGN TO BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - 2. R16-3 SIGN SHALL BE SPACED AT A MAXIMUM OF 2 MILES THROUGHOUT LENGTH OF PROJECT.



| SIGN | DIMENSIONS (INCHES) | | | | | | | | | | | | |
|------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ST1L | 60 | 48 | 3/4 | 1/4 | J | 3/4 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |
| ST1L | 3 | 4 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |

| SIGN | DIMENSIONS (INCHES) | | | | | | | | | | | | |
|------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ST1L | 48 | 36 | 3/4 | 1/4 | N | 3/4 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |
| ST1L | 3 | 4 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |

48" X 60"
(INTERSTATE USE)

36" X 48"
(ALL OTHER HIGHWAYS)

R16-3

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

LOCATION OF R16-3 SIGNS

| | | |
|----------|----|------|
| REVISION | BY | DATE |
| | | |
| | | |
| | | |

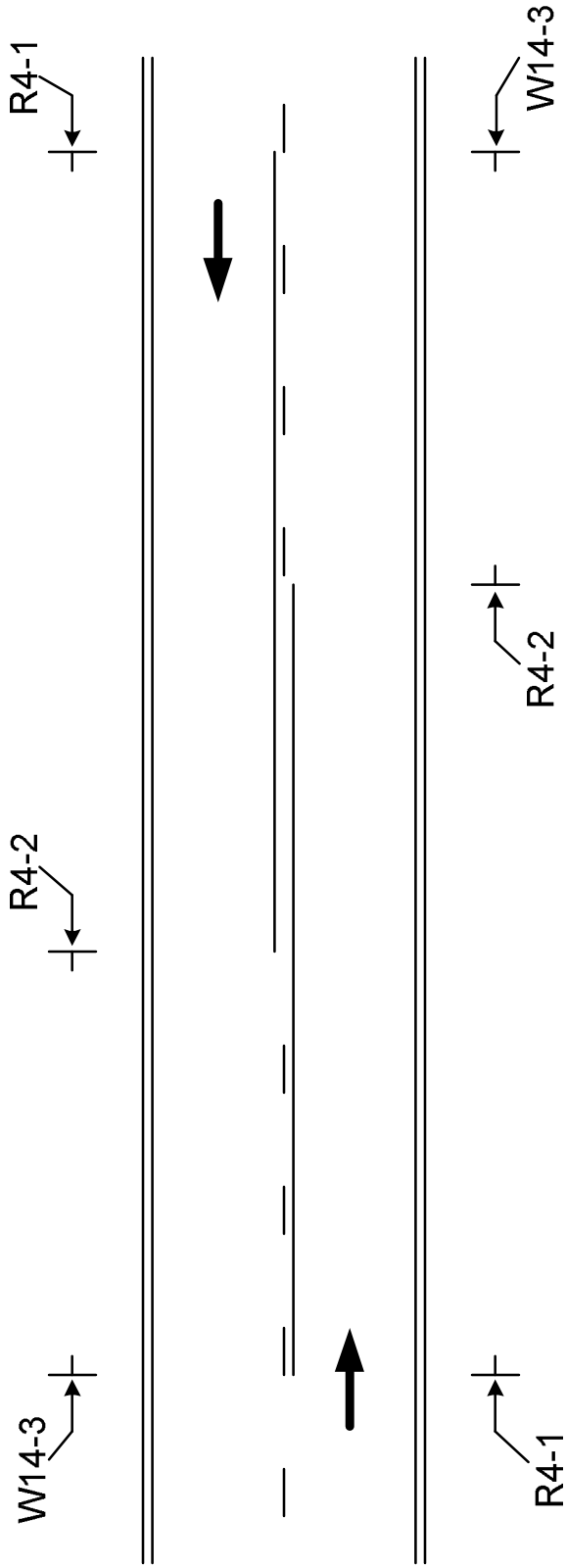
WORKING NUMBER

SHEET NUMBER

FILE NAME: SPEED_SIGN_DETAIL.DWG

DATE: 02/08/09

CHECKED: _____



The W14-3, No Passing Zone sign, shall be placed on the left side of the road at the beginning of each no passing zone.

The R4-1, Do Not Pass signs, shall be placed on the right side of the road at the beginning of the no passing zone. Additional R4-1 signs shall be placed right and left in increments of 750 to 1000 feet throughout the length of the no passing zone.

The R4-2, Pass With Care sign, shall be placed on the right side of the road at the end of the no passing zone.

The R4-1, R4-2 and W14-3 signs are to be used when standard pavement markings are not in place. The signs may also be used to emphasize pavement markings.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-618-4

CODE: (SP)

DATE: 02/01/2018

SUBJECT: Additional Signing Requirements

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

907-618.01.2--Traffic Control Plan. At the end of Subsection 618.01.2 on page 441, add the following:

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-619-6

CODE: (SP)

DATE: 03/21/2018

SUBJECT: Temporary Portable Rumble Strips

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

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

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

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

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

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

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

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

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

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

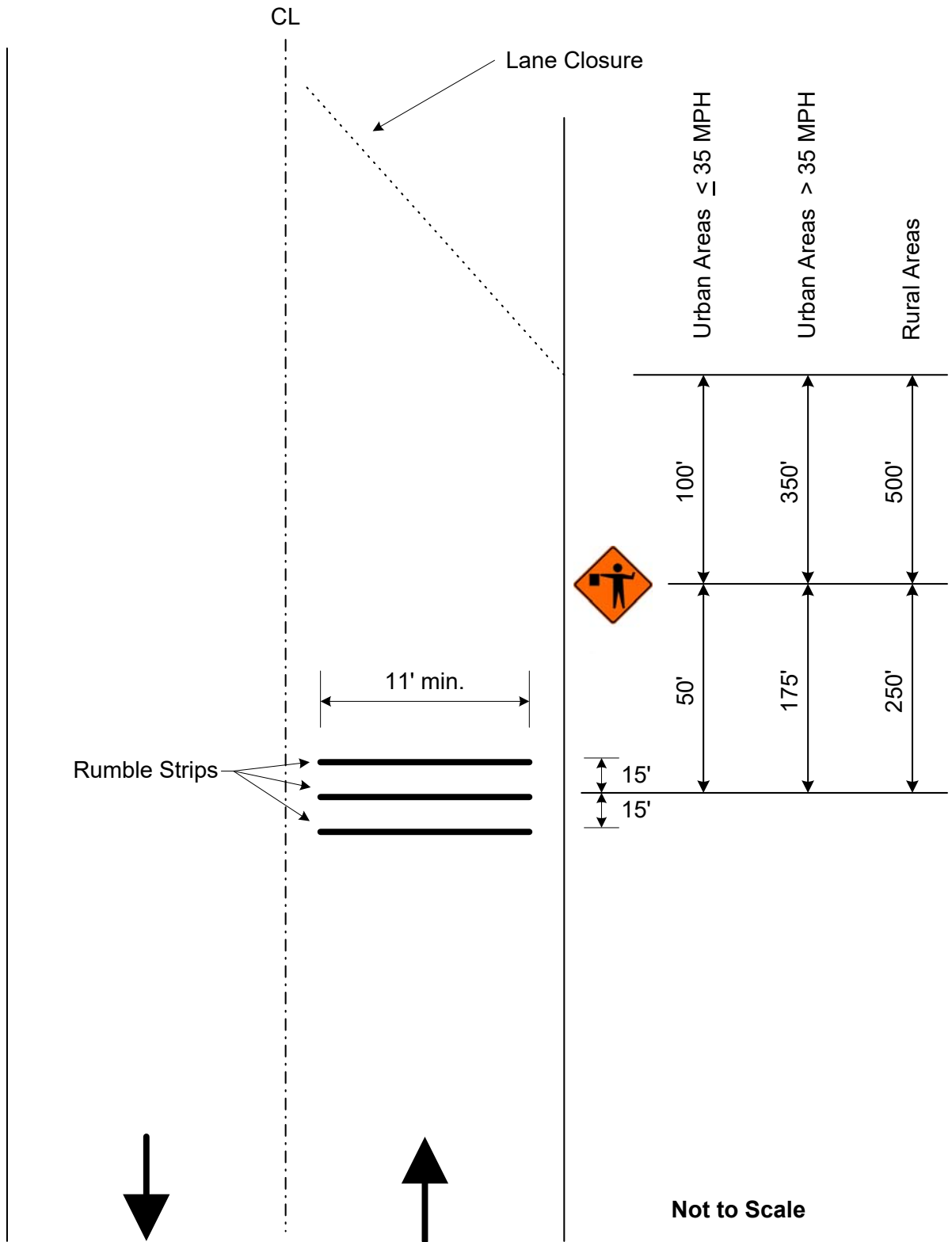
Temporary Portable Rumble Strips will be measured for payment by the linear foot only when a pay item for temporary portable rumble strips is included in the contract. Otherwise, temporary portable rumble strips will be included in the cost of pay item 618-A, Maintenance of Traffic. The quantity of temporary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

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

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

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

907-619-B: Temporary Portable Rumble Strips - per linear foot



Detail of Temporary Portable Rumble Strips

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-701-3

CODE: (IS)

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.

907-701.01--General. 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.

907-701.02.1.2--Alkali Content. 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:

$$\text{lb alkali per cu Yd} = \frac{(\text{lb cement per cu Yd}) \times (\% \text{Na}_2\text{O equivalent in cement})}{100}$$

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*.

907-701.02.2--Replacement by Other Cementitious Materials. 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.

907-701.02.2.1--Portland Cement Concrete Exposed to Soluble Sulfate Conditions or Seawater.

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.

Table 1- Cementitious Materials for Soluble Sulfate Conditions or Seawater

| 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 |

* 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.

907-701.02.2.2--Portland 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.

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

- Type II – Portland-limestone cement
- Type IP – Portland-pozzolan cement
- Type IS – Portland blast-furnace slag cement

Blended cement Types II, 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.

907-701.04.1.2--Alkali Content. 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*.

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

The maximum replacement of blended cement Type II 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.

907-701.04.2.1--Blended Cement Concrete Exposed to Soluble Sulfate Conditions or Seawater. 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.

Table 2- Cementitious Materials for Soluble Sulfate Conditions or Seawater

| 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 IL (MS) * cement, Type IL cement with one of the following 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 |

* 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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

907-702.04--Sampling. 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.

907-702.07--Emulsified Asphalt. 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.

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

**TABLE V
SPECIFICATION FOR FOG SEAL**

| Test Requirements | LD-7 | | CHPF-1 | | Test Method |
|--|------|------|--------|------|--------------|
| | Min. | Max. | Min. | Max. | |
| 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 |

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-703-2

CODE: (SP)

DATE: 11/29/2022

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--Coarse Aggregates for Hydraulic Cement Concrete.

907-703.03.2--Detail Requirements.

907-703.03.2.4--Gradation. In the table in Subsection 703.03.2.4 on page 734, add 100 for the percent passing by weight on the 1½-inch sieve for Size No. 67 aggregates.

Delete Note 2 under the table in Subsection 703.03.2.4 on page 734, and substitute the following.

Note ² – 100 percent shall pass the 1-inch sieve for Size 67 used in Class F and Class FX concrete.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

907-705.04--Stone Riprap. 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 pre-approved source and be visually approved prior to use.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-707-3

CODE: (IS)

DATE: 10/27/2021

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.

907-707.02--Joint Filler.

907-707.02.2--Preformed Sponge, Rubber, Cork and Closed-Cell Polypropylene Foam Joint Fillers for concrete Paving and Structural Constructions. Delete the two paragraphs of Subsection 707.02.2 on page 755, and substitute the following.

Preformed joint filler shall conform to AASHTO M 153 for sponge, rubber, and cork and tested according to ASTM D545. The type required will be indicated on the plans.

Closed-cell polypropylene foam shall conform to the requirements in ASTM D8139 and tested in accordance with ASTM D545.

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

- (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.

907-707.06--Flexible Plastic Gasket for Joining Conduit. 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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

907-711.02.3--Steel Welded and Non-Welded Wire Reinforcement, Plain and Deformed, for Concrete.

907-711.02.3.1--Plain Steel Wire. 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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-712-1

CODE: (SP)

DATE: 12/07/2021

SUBJECT: Fence and Guardrail

Section 712, Fence and Guardrail, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-712.01--General. After the sentence in Subsection 712.01 on page 785, add the following.

All materials' inspection, testing, and certification will be performed in accordance with the requirements of the current version of the Department's *Materials Division Inspection, Testing, and Certification Manual*.

Delete Subsections 712.02 and 712.03 on page 785, and substitute the following.

907-712.02--Barbed Wire. Barbed wire shall conform to the requirements of AASHTO M 280. In the coastal counties of Hancock, Harrison, and Jackson, either Coating Type Z Class 3 or Coating Type A shall be furnished. In all other areas of the State, either Coating Type Z Class 1, Coating Type Z Class 3, Coating Type ZA Class 60, or Coating Type A shall be furnished.

907-712.03--Metallic-Coated, Steel Woven Wire Fence Fabric. Woven wire fencing (i.e., "hog wire") shall conform to the requirements of AASHTO M 279. In the coastal counties of Hancock, Harrison, and Jackson, either Coating Type Z Class 3 or Coating Type A shall be furnished. In all other areas of the State, either Coating Type Z Class 1, Coating Type Z Class 3, Coating Type ZA Class 60, or Coating Type A shall be furnished.

907-712.04--Chain Link Fence. Delete Subsections 712.04.1 thru 712.04.7 on pages 785 & 786, and substitute the following.

907-712.04.1--Fabric. In the coastal counties of Hancock, Harrison, and Jackson, either Type I Class D, Type II, Type III, or Type IV fabrics shall be furnished. In all other areas of the State, either Type I Class C, Type I Class D, Type II, Type III, or Type IV fabrics shall be furnished.

907-712.04.2--Tie Wire. Tie wire shall be of the same material as the fencing wire being used, shall be of good commercial quality, and shall meet the requirements of AASHTO M 181. Either Type I, Type II, Type III, or Type IV tie wire shall be furnished.

907-712.04.3--Tension Wire. Tension wire shall be of the same material as the fencing wire being used, shall be of good commercial quality, and shall meet the requirements of AASHTO M 181. In the coastal counties of Hancock, Harrison, and Jackson, either Type I Class 3, Type II, Type III, or Type IV tension shall be furnished. In all other areas of the State, either Type II, Type III, Type IV, or Type I Classes 1, 2, or 3 tension wires shall be furnished.

907-712.04.4--Posts Rails, Gate Frames, and Expansion Sleeves. Posts, rails, gate frames, and expansion sleeves shall conform to the requirements for posts in Subsection 712.05.2, unless otherwise designated in the contract.

907-712.04.5--Miscellaneous Fittings and Hardware. Miscellaneous fittings and hardware shall conform to the requirements of Subsection 712.16.

907-712.05--Fence Posts and Braces.

907-712.05.1--Treated Timber Posts and Braces.

907-712.05.1.1--General. Delete the third, fourth, fifth, and sixth paragraphs of Subsection 712.05.1.1 on page 787, and substitute the following.

All wood posts and braces shall be treated in accordance with Subsections 718.03 and 718.04.

907-712.05.1.2--Round Posts. Delete the last sentence of the last paragraph of Subsection 712.05.1.2 on page 788.

907-712.05.1.3--Sawed Posts. Delete the last sentence of the paragraph of Subsection 712.05.1.3 on page 788.

907-712.05.1.4--Sawed Braces. Delete the last sentence of the paragraph of Subsection 712.05.1.4 on page 788.

Delete Subsection 712.05.2 on page 788, and substitute the following.

907-712.05.2--Metal Posts.

907-712.05.2.1--Round Steel Pipe. Round steel pipe shall meet the requirements of AASHTO M 181, either Grade 1 (i.e., meeting the requirements in ASTM F 1083) or Grade 2 (i.e., meeting the requirements of ASTM F 1043).

Round steel pipe shall be sized in accordance with NPS (nominal pipe size) designations as shown on Plans, and not according to the outer or inner pipe diameter.

907-712.05.2.2--Steel Fence Post and Assemblies, Hot-Wrought. Steel posts with the following section shapes, Tee, channel or U, and Y-Bar shall meet the requirements of AASHTO M 281, galvanized in accordance with the requirements of AASHTO M 111, unless otherwise specified in the contract. Acceptance of these steel posts shall be by certification from the manufacturer, producer, supplier, or fabricator, as applicable.

907-712.05.2.3--Blank.

907-712.05.2.4--Steel H-Beam Posts. Steel H-Beam posts shall be produced from structural quality weldable steel having a minimum yield strength of 45,000 psi and shall be galvanized in accordance with ASTM A 123. Steel H-Beam line posts shall be 2.250 inches by 1.625 inches and shall weigh 3.43 pounds per foot. A tolerance of plus or minus 5.0 percent is allowed for

weight per foot. A tolerance of plus or minus 1.0 percent is allowed for dimensions.

907-712.05.2.5--Aluminum-Alloy Posts and Assemblies. Round aluminum-alloy posts shall meet the requirements of ASTM B 241, Alloy 6061, T6. Aluminum-Alloy H-Beam posts shall meet the requirements of ASTM B 221, Alloy 6061, T6.

907-712.05.2.6--Formed Steel Section Posts. Formed steel section posts, "C" sections, shall be formed from sheet steel conforming to ASTM A 1011, Grade 45, and shall be galvanized in accordance with ASTM A 123.

907-712.06--Guard and Guardrail Posts.

907-712.06.2--Treated Wood Posts.

907-712.06.2.1--Square Posts. Delete the paragraph in Subsection 712.06.2.1 on page 789, and substitute the following.

All square posts shall be inspected for conformance with Section 712.05, except that the posts may be rough and shall be within $\pm 3/8$ " of the dimensions shown on the plans.

907-712.06.2.2--Round Posts. Delete the paragraph in Subsection 712.06.2.2 on page 789, and substitute the following.

All round posts shall be inspected for conformance with Section 712.05, except that the posts shall be of the shape and dimensions shown on the plans.

907-712.06.5--Treated Wood Blocks for Use with Metal Guardrail Posts. Delete the paragraphs of Subsection 712.06.5 on pages 789 & 790, and substitute the following.

Treated wood blocks for use with metal guardrail posts shall be within $\pm 3/8$ " of the size and dimensions shown on the plans, except that a minus tolerance shall not be allowed for the slotted width in which the metal post must fit.

Delete Subsection 712.16 on page 791, and substitute the following.

907-712.16--Hardware. All ferrous metal hardware for fencing such as bolts, nuts, washers, and metal straps shall be as specified on the plans and galvanizing shall not be less than 1.0 ounce per square foot of uncoated area. Aluminum coated hardware shall be coated with aluminum meeting the requirements of AASHTO M 181 for aluminum coating and at the rate of not less than 0.4 ounces per square foot of uncoated area.

Aluminum alloy hardware shall conform to the requirements of ASTM B 221 for extruded aluminum alloy 6063, T6. The finished members shall be of uniform quality.

Aluminum-zinc coated hardware shall be coated with an aluminum-zinc alloy meeting the chemical requirements and weight of coating specified for aluminum-zinc alloy coated metal gates.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-714-3

CODE: (SP)

DATE: 08/31/2021

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.

907-714.01--Water.

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

907-714.01.2--Water for Use in Concrete. 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.

907-714.01.3--Water for Use in Chemically Stabilized Based. 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.

907-714.05--Fly Ash.

907-714.05.1--General. Delete the first sentence of the fifth paragraph in Subsection 714.05.1 on page 797.

907-714.13--Geotextiles.

907-714.13.11--Tables. Delete Table 1 in Subsection 714.13.11 on page 813, and substitute the following.

Table 1 - Geotextiles

| Type Designation | I ¹ Sediment Control | II ¹ Control | III Drainage | IV Paving | V Separation & Drainage | | VI Separation, Stabilization & Reinforcement | | VIII High Strength | IX High Strength | Test Method |
|--|------------------------------------|----------------------------|-----------------|-----------------|----------------------------|--------------|---|--------------|-----------------------|---------------------|-------------|
| | | | | | Woven | Non-Woven | Woven | Non-Woven | | | |
| Grab Strength (lb) | 50 | 90 | 110 | 90 | 200 | 280 | 180 | 450 | 280 | 280 | ASTM D 4632 |
| Elongation (%) | ---- | 50% max @ 45 lb | 20% min | 50% min @ break | 50% min | 50% max | 50% min | 50% max | 50% min | 50% min | ASTM D 4632 |
| Seam Strength (lb) | ---- | ---- | 70 | ---- | 180 | 240 | 160 | 400 | 240 | 240 | ASTM D 4632 |
| Puncture Strength (lb) | ---- | ---- | 40 | ---- | 80 | 110 | 75 | 180 | 115 | 115 | ASTM D 6241 |
| Trapezoidal Tear (lb) | ---- | ---- | 40 | ---- | 80 | 100 | 70 | 150 | 100 | 100 | ASTM D 4533 |
| Asphalt Retention (gal/yd ²) | ---- | ---- | ---- | 0.2 | ---- | ---- | ---- | ---- | ---- | ---- | ASTM D 6140 |
| Permittivity (sec ⁻¹) min | 0.05 | 0.05 | 0.5 | ---- | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | ASTM D 4491 |
| AOS Woven (mm) max | 0.60 | 0.60 | 0.6 | ---- | 0.6 | 0.43 | ---- | 0.43 | ---- | ---- | ASTM D 4751 |
| AOS Non-Woven (mm) max | 0.84 | 0.84 | 0.43 | ---- | 0.43 | ---- | 0.43 | ---- | 0.43 | 0.43 | ---- |
| Tensile Strength after UV (% Retained) | 70% @ 500 hr | 70% @ 500 hr | 50% @ 500 hr | ---- | 50% @ 500 hr | 50% @ 500 hr | 50% @ 500 hr | 50% @ 500 hr | 50% @ 500 hr | 50% @ 500 hr | ASTM D 4355 |
| Melting Point °(F) | ---- | ---- | ---- | 325 | ---- | ---- | ---- | ---- | ---- | ---- | ASTM D 276 |
| Minimum Ultimate Tensile Strength ³ (lb/in) | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | 660 | 2000 | ASTM D 4595 |

Notes: 1 - All property values, with the exception of apparent opening size (AOS), represent minimum average roll values in the weakest principal direction. Values for AOS represent the maximum average roll values, 2 - Values not identified in this table should meet manufacturer certification for the use and application, 3 - Machine direction

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

907-714.15--Geogrids.

907-714.15.1--General. 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.

907-714.15.1.1--Geogrid for Retaining Walls and Reinforced Soil Slopes. 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.

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

907-714.15.2--Marking, Shipment, and Storage. 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.

907-714.15.3--Manufacturer Certification. 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.

907-714.15.4--Acceptance Sampling and Testing. 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 |
|---|------------------|------|------|------|------|------|------------------------|
| | I | 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).

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-718-1

CODE: (SP)

DATE: 12/07/2021

SUBJECT: Timber and Dimension Lumber

Section 718, Timber and Dimension Lumber, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

Delete the Subsections in Section 718 on pages 836 thru 838, and substitute the following.

907-718.01--General. All timber and dimension lumber shall be Southern pine and shall conform in all respects to applicable requirements of AASHTO M 168. The Department reserves the right to sample and to test all materials at any time; all inspection, testing, and certification of materials will be performed in accordance with the requirements of the current version of the Department's *Materials Division Inspection, Testing, and Certification Manual*.

Timber and dimension lumber shall be furnished in the sizes shown on the plans or as specified. Unless otherwise specified, timber and dimension lumber shall be No. 1, or better, graded according to the latest American Lumber Standards.

Only one type of preservative shall be used for the treatment of materials for any one class of construction on a project, unless otherwise specified.

Where treated timber and dimensional lumber is to be used in non-highway construction or use, such as decking, handrails in walking trails, or in any manner where general public exposure by touch is possible, the treatment requirements will be as per project plans and/or approved by the State Materials Engineer.

907-718.02--Untreated Timber and Dimension Lumber. Untreated timber and dimension lumber shall conform to the requirements of AASHTO M 168.

907-718.03--Treated Timber and Dimension Lumber. Timber and dimension lumber to be treated shall meet the requirements herein specified and shall be treated as specified. Treated timber or dimensional lumber will not be accepted for use unless it has been inspected by an authorized representative of the Department and found to be satisfactory after treatment.

907-718.03.1--Blank.

907-718.03.2--Treatment.

907-718.03.2.1--General. All materials shall be treated in accordance with AASHTO M 133 unless otherwise directed by the Environmental Protection Agency (EPA).

907-718.03.2.2--Blank.

907-718.03.2.3--Inspection. Treated timber and dimension lumber shall be inspected by an authorized representative of the Department before being incorporated into the work. Treatment reports shall be provided to the Department for each lot of material supplied.

907-718.03.3--Blank.

907-718.03.4--Storage of Treated Material. All material treated for stock shall be stacked as compactly as possible on a well-drained surface. Material shall be supported on sills spaced as necessary, not to exceed 10 foot intervals and shall have at least one foot of air space beneath the stacks.

All materials treated with preservatives for use in buildings and applications where painting is required shall be dried after treatment. The treated wood shall be dried in accordance with American Lumber Standards.

907-718.04--Preservative. Preservatives shall be as specified in AASHTO M 133 unless otherwise directed by the Environmental Protection Agency (EPA).

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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.

907-720.01.4--Acceptance Procedures. 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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-721-4

CODE: (IS)

DATE: 04/19/2022

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.

907-721.06.2--Performance Requirements. 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/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 |

After Subsection 721.10 on page 864, add the following.

907-721.11--Digital Applied Printing. The following addresses the requirements for digitally printed finished retroreflective traffic control signs on flat sheet aluminum and digitally printed traffic sign faces intended to be applied to a sign substrate.

907-721.11.1--Digitally Printed Ink Systems. Traffic signs must be produced using components, and processes that comply with the retroreflective sheeting manufacturer’s recommendations.

Digital printed ink systems used to print traffic signs must meet and comply with daytime and nighttime chromaticity (color standards) as recognized in ASTM D4956 “Standard Specification for Retroreflective Sheeting for Traffic Control.”

Digital printed ink systems must meet 70% of the initial retroreflectivity specifications of each respective reflective film color as found in ASTM D4956 “Standard Specification for Retroreflective Sheeting for Traffic Control.”

Prior to fabrication and preferably at the preconstruction meeting, the Contractor shall advise the Project Engineer in writing as to which signs on the project will be digitally printed and which ones will be screen printed. The Contractor shall submit to the Project Engineer certifications for all digitally printed signs, which will be forwarded to the State Traffic Engineer for review.

907-721.11.2--Protective Overlay Film. Permanent traffic signs printed with digital ink systems will be fabricated with a full sign protective overlay film designed to provide a smooth surface needed for retroreflectivity, and to protect the sign from fading and UV degradation. The overlamine shall comply with the retroreflective sheeting manufacturer’s recommendations to ensure proper adhesion and transparency and will also meet the reflective film durability as identified in Table 1.

**Table 1
Retroreflective Film Minimum Durability Requirements**

| ASTM D4956 Type | Full Sign Replacement Term (years) | Sheeting Replacement Term (years) |
|------------------------|---|--|
| IV | 7 | 10 |
| VIII | 7 | 10 |
| IX | 7 | 12 |
| XI | 7 | 12 |

Temporary signs used in work zones printed with black ink only will not require a protective overlay film as long as the finished sign is warranted for a minimum outdoor durability of three years by the sheeting manufacturer.

907-721.11.3--Inspection. During fabrication, the Contractor shall provide sufficient testing and quality control throughout fabrication to insure good workmanship. Once the material has been received, it may be subject to random testing to ensure compliance with all requirements. If any test samples do not conform to the requirements, the entire order may be returned at the vendor’s expense.

907-721.11.4--Traffic Sign Performance Warranty Provisions. Based on the ASTM Type of sheeting specified, traffic control signs shall be warranted for the duration shown in Table 1. The Contractor shall supply a copy of the warranty document with complete details of terms and conditions upon request of the Department.

907-721.11.5--Certified Digital Sign Fabricator. Sign fabricators using digital imaging methods to produce regulated traffic signs must be certified by the reflective sheeting manufacturer whose materials are used to produce the delivered signs.

Certified sign fabricators must undergo an audit process by the sheeting manufacturer to ensure they have the proper equipment, manufacturing capabilities, manufacturing application processes and the materials required to fulfill the sheeting manufacturer's warranty obligations. Sign fabricators must recertify annually with reflective sheeting manufacturers or utilize a 3rd party certifier approved by the reflective sheeting manufacturer.

The Contractor shall submit proof of Sign Fabricator Certification as issued by the retroreflective sign sheeting manufacturer to the Project Engineer upon delivery of the signs, or with the Shop Drawings.

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

SECTION 905 -- PROPOSAL (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 _____

Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

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

President Address

Secretary Address

Treasurer Address

The following is my (our) itemized proposal.

Overlay approximately 16 miles of SR 448 from SR 1 to US 61, known as State Project No. SP-0610-00(018) / 108694301 in Bolivar County.

| Line no. | Item Code | Adj Code | Quantity | Units | Description[Fixed Unit Price] |
|----------------------|-----------|----------|----------|-------------|--|
| Roadway Items | | | | | |
| 0010 | 201-D001 | | 165 | Station | Random Clearing |
| 0020 | 202-B007 | | 302 | Square Yard | Removal of Asphalt Pavement, All Depths |
| 0030 | 202-B073 | | 42 | Square Yard | Removal of Concrete Pavement, All Depths |
| 0040 | 202-B150 | | 2,562 | Linear Feet | Removal of Guard Rail Including Post, Blockouts & Hardware |
| 0050 | 202-B240 | | 1,250 | Linear Feet | Removal of Traffic Stripe |
| 0060 | 203-G001 | (E) | 101 | Cubic Yard | Excess Excavation, FM, AH |
| 0070 | 304-D002 | (GT) | 5,000 | Ton | Granular Material, Crushed Stone |
| 0080 | 403-A015 | (BA1) | 17,000 | Ton | 9.5-mm, ST, Asphalt Pavement |
| 0090 | 403-B006 | (BA1) | 206 | Ton | 19-mm, ST, Asphalt Pavement, Leveling |
| 0100 | 403-B012 | (BA1) | 6,500 | Ton | 9.5-mm, ST, Asphalt Pavement, Leveling |
| 0110 | 406-D001 | | 16,500 | Square Yard | Fine Milling of Bituminous Pavement, All Depths |
| 0120 | 407-A001 | (A2) | 18,500 | Gallon | Asphalt for Tack Coat |
| 0130 | 412-A001 | | 11,328 | Square Feet | Pre-Grinding (\$3.25) |
| 0140 | 503-C010 | | 761 | Linear Feet | Saw Cut, Full Depth |
| 0150 | 606-B001 | | 1,450 | Linear Feet | Guard Rail, Class A, Type 1 |
| 0160 | 606-D019 | | 4 | Each | Guard Rail, Bridge End Section, Type H |
| 0170 | 606-D022 | | 12 | Each | Guard Rail, Bridge End Section, Type I |
| 0180 | 606-E005 | | 16 | Each | Guard Rail, Terminal End Section, Flared |
| 0190 | 618-A001 | | 1 | Lump Sum | Maintenance of Traffic |
| 0200 | 618-B001 | | 1 | Square Feet | Additional Construction Signs (\$10.00) |
| 0210 | 619-A1001 | | 45 | Mile | Temporary Traffic Stripe, Continuous White |
| 0220 | 619-A2001 | | 19 | Mile | Temporary Traffic Stripe, Continuous Yellow |
| 0230 | 619-A4002 | | 14 | Mile | Temporary Traffic Stripe, Skip Yellow |
| 0240 | 619-A5001 | | 3,000 | Linear Feet | Temporary Traffic Stripe, Detail |
| 0250 | 619-A6002 | | 500 | Linear Feet | Temporary Traffic Stripe, Legend |
| 0260 | 620-A001 | | 1 | Lump Sum | Mobilization |
| 0270 | 626-B002 | | 31 | Mile | 6" Thermoplastic Double Drop Traffic Stripe, Continuous White |
| 0280 | 626-D001 | | 13 | Mile | 6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow |
| 0290 | 626-E001 | | 10 | Mile | 6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow |
| 0300 | 626-G004 | | 3,425 | Linear Feet | Thermoplastic Double Drop Detail Stripe, White |
| 0310 | 626-G005 | | 1,625 | Linear Feet | Thermoplastic Double Drop Detail Stripe, Yellow |
| 0320 | 626-H002 | | 1,900 | Linear Feet | Thermoplastic Double Drop Legend, White |
| 0330 | 627-J001 | | 700 | Each | Two-Way Clear Reflective High Performance Raised Markers |
| 0340 | 627-L001 | | 1,550 | Each | Two-Way Yellow Reflective High Performance Raised Markers |
| 0350 | 630-F006 | | 104 | Each | Delineators, Guard Rail, White |
| 0360 | 630-G005 | | 16 | Each | Type 3 Object Markers, OM-3R or OM-3L, Post Mounted |

| Line no. | Item Code | Adj Code | Quantity | Units | Description Fixed Unit Price |
|----------|--------------|----------|----------|-------------|----------------------------------|
| 0370 | 907-619-B001 | | 66 | Linear Feet | Temporary Portable Rumble Strips |

For Informational Purposes Only

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

CONDITIONS FOR COMBINATION BID

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).

| | <u>Project No.</u> | <u>County</u> | <u>Project No.</u> | <u>County</u> |
|----|--------------------|---------------|--------------------|---------------|
| 1. | _____ | _____ | 6. | _____ |
| 2. | _____ | _____ | 7. | _____ |
| 3. | _____ | _____ | 8. | _____ |
| 4. | _____ | _____ | 9. | _____ |
| 5. | _____ | _____ | 10. | _____ |

(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)

| Project Number | Pay Item Number | Unit | Unit Price Reduction | Total Item Reduction | Total Contract Reduction |
|----------------|-----------------|------|----------------------|----------------------|--------------------------|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | |

For Informational Purposes Only

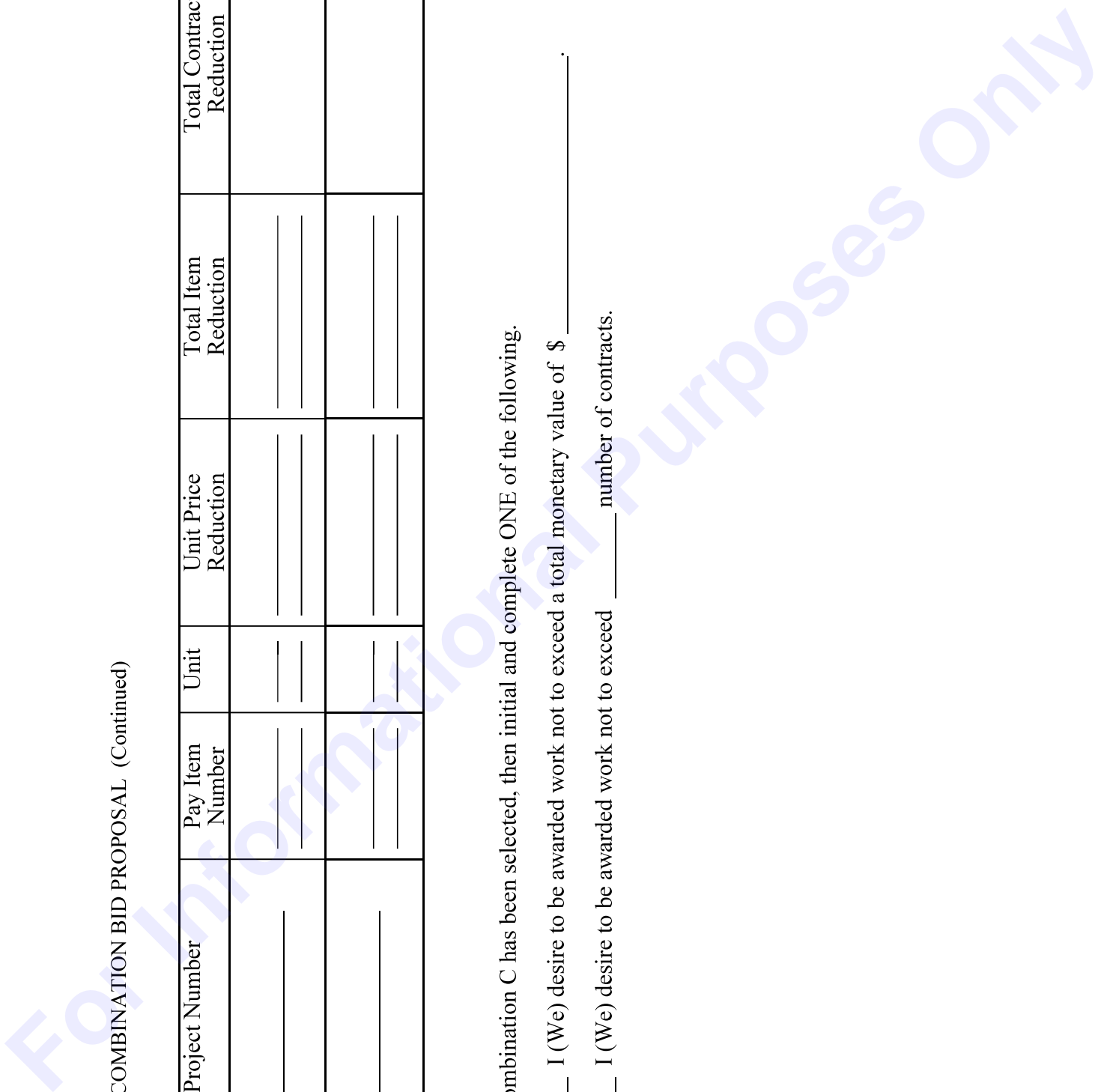
SECTION 905 - COMBINATION BID PROPOSAL (Continued)

| Project Number | Pay Item Number | Unit | Unit Price Reduction | Total Item Reduction | Total Contract Reduction |
|----------------|-----------------|------|----------------------|----------------------|--------------------------|
| 9. | | | | | |
| | | | | | |
| | | | | | |
| 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 exceed _____ number of contracts.



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 DOES NOT constitute APPROVAL 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 DOES NOT preclude subsequent subcontracts. Subsequent subcontracts, if any, equal to or in excess of fifty thousand dollars (\$50,000.00) will be in accordance with regulations promulgated and adopted by the Mississippi State Board of Contractors on September 8, 2011.

Contractor _____

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
CERTIFICATION

I, _____,
(Name of person signing bid)

individually, and in my capacity as _____ of
(Title of person signing bid)

(Name of Firm, partnership, or Corporation)

do hereby certify under penalty of perjury under the laws of the United States and the State of Mississippi

that _____, Bidder
(Name of Firm, Partnership, or Corporation)

on Project No. **SP-0610-00(018)/ 108694301000**

in **Bolivar** _____ County(ies), Mississippi, has not either directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its corporate officers or principal owners.

Except as noted hereafter, it is further certified that said legal entity and its corporate officers, principal owners, managers, auditors and others in a position of administering federal funds are not currently under suspension, debarment, voluntary exclusion or determination of ineligibility; nor have a debarment pending; nor been suspended, debarred, voluntarily excluded or determined ineligible within the past three years by the Mississippi Transportation Commission, the State of Mississippi, any other State or a federal agency; nor been indicted, convicted or had a civil judgment rendered by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.

Do exceptions exist and are made a part thereof? Yes / No

Any exceptions shall address to whom it applies, initiating agency and dates of such action.

Note: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.

All of the foregoing is true and correct.

(1/2016 S)

SECTION 902

CONTRACT FOR SP-0610-00(018)/ 108694301000

LOCATED IN THE COUNTY(IES) OF Bolivar

STATE OF MISSISSIPPI,
COUNTY OF HINDS

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

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

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

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

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

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

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

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

Witness our signatures this the ___ day of _____, _____.

Contractor(s)

By _____

MISSISSIPPI TRANSPORTATION COMMISSION

Title _____

By _____

Signed and sealed in the presence of:
(names and addresses of witnesses)

Executive Director

Secretary to the Commission

Award authorized by the Mississippi Transportation Commission in session on the ___ day of _____, _____, Minute Book No. _____, Page No. _____.

SECTION 903
PERFORMANCE AND PAYMENT BOND

CONTRACT BOND FOR: SP-0610-00(018)/108694301000

LOCATED IN THE COUNTY(IES) OF: Bolivar

STATE OF MISSISSIPPI,
COUNTY OF HINDS

Know all men by these presents: that we, _____
(Contractor)
_____ Principal, a _____

residing at _____ in the State of _____

and _____

(Surety)
residing at _____ in the State of _____,

authorized to do business in the State of Mississippi, under the laws thereof, as surety, effective as of the contract date shown below, are held and firmly bound unto the State of Mississippi in the sum of _____

_____ Dollars, lawful money of the United States of America, to be paid to it for which payment well and truly to be made, we bind ourselves, our heirs, administrators, successors, or assigns jointly and severally by these presents.

The conditions of this bond are such, that whereas the said _____

_____ principal, has (have) entered into a contract with the Mississippi Transportation Commission, bearing the date of _____ day of _____ A.D. _____ hereto annexed, for the construction of certain projects(s) in the State of Mississippi as mentioned in said contract in accordance with the Contract Documents therefor, on file in the offices of the Mississippi Department of Transportation, Jackson, Mississippi.

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

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 |



BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____
Contractor

Address

City, State ZIP

As principal, hereinafter called the Principal, and _____
Surety

a corporation duly organized under the laws of the state of _____

as Surety, hereinafter called the Surety, are held and firmly bound unto State of Mississippi, Jackson, Mississippi

As Obligee, hereinafter called Obligee, in the sum of **Five Per Cent (5%) of Amount Bid**

Dollars(\$ _____)

for the payment of which sum will and truly to be made, the said Principal and said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for **Overlay approximately 16 miles of SR 448 from SR 1 to US 61, known as State Project No. SP-0610-00(018) / 108694301 in Bolivar County.**

NOW THEREFORE, the condition of this obligation is such that if the aforesaid Principal shall be awarded the contract, the said Principal will, within the time required, enter into a formal contract and give a good and sufficient bond to secure the performance of the terms and conditions of the contract, then this obligation to be void; otherwise the Principal and Surety will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally contracts with another party to perform the work if the latter amount be in excess of the former, but in no event shall liability hereunder exceed the penal sum hereof.

Signed and sealed this _____ day of _____, 20__

(Principal) (Seal)

(Witness) (Name) By: _____ (Title)

(Surety) (Seal)

(Witness) (Attorney-in-Fact) By: _____

(MS Agent)

Mississippi Insurance ID Number

