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SM No. CSP0059031031

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

01

Bridge Repair on I-20/59 over SR 145/22nd Ave. (Bridge No. 153.0B), known as State Project No. SP-0059-03(103) / 109488301 in Lauderdale County.

Project Completion: 12/18/2023

(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
TABLE OF CONTENTS**

PROJECT: SP-0059-03(103)/109488301 - Lauderdale

Section 901 - Advertisement

Section 904 - Notice to Bidders

| | |
|-------|--|
| #1 | Governing Specification, w/ Supplement |
| #3 | Final Cleanup |
| #9 | Federal Bridge Formula |
| #296 | Reduced Speed Limit Signs |
| #445 | Mississippi Agent or Qualified Nonresident Agent |
| #516 | Errata and Modifications to the 2017 Standard Specifications |
| #1226 | Material Storage Under Bridges |
| #1241 | Fuel and Material Adjustments |
| #2206 | MASH Compliant Devices |
| #2273 | Mississippi Special Fuel Tax Law |
| #2654 | Disadvantaged Business Enterprises In Special Funded Projects, w/ Supplement |
| #2895 | Exploratory Joint Cleanout |
| #2954 | Reflective Sheeting for Signs |
| #3599 | Standard Drawings w/Supplement |
| #4702 | App for Traffic Control Report |
| #5412 | Contract Time |
| #5413 | Scope of Work |
| #5414 | Lane Closure Restrictions |
| #5415 | Additional Construction Requirements |
| #5416 | General Notes |
| #5417 | Temporary Construction Signs |
| #5418 | Underground Utilities |

Section 907 - Special Provisions

| | |
|-----------|--|
| 907-101-1 | Definitions and Terms |
| 907-102-2 | Bidding Requirements and Conditions |
| 907-103-2 | Award and Execution of Contract |
| 907-105-2 | Control of Work |
| 907-108-4 | Subletting of Contract |
| 907-109-4 | Measurement and Payment |
| 907-619-5 | Traffic Control for Construction Zones |
| 907-701-3 | Hydraulic Cement |
| 907-702-4 | Bituminous Materials |
| 907-703-2 | Gradation |
| 907-705-1 | Stone Riprap |
| 907-707-3 | Joint Materials |
| 907-711-2 | Plain Steel Wire |
| 907-712-1 | Fence and Guardrail |
| 907-714-3 | Miscellaneous Materials |
| 907-718-1 | Timber and Dimension Lumber |
| 907-720-2 | Acceptance Procedure for Glass Beads |
| 907-721-4 | Materials for Signing |

PROJECT: SP-0059-03(103)/109488301 - Lauderdale

907-808-1 Joint Repair
907-823-7 Preformed Joint Seal

Section 905 - Proposal, Proposal Bid Items, Combination Bid Proposal
State Board of Contractors Requirement
State Certification Regarding Non-Collusion, Debarment and Suspensions
Section 902 - Contract Form
Section 903 - Contract Bond Forms

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

10/17/2023 03:43 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Thursday, October 26, 2023, from Bid Express Service and shortly thereafter publicly read in the Construction Division for:

Emergency Bridge Repair on I-20/59 over SR 145/22nd Avenue on Bridge No. 153.0B, known as State Project No. SP-0059-03(103) / 109488301 in Lauderdale County.

In accordance with authority granted under Section 65-1-85 Mississippi Code of 1972, Annotated, the work to be accomplished under this contract has been declared by the Executive Director to be an emergency, and it is desired that you submit a bid for performing the needed and necessary work for alleviating the situation that exists at this site.

The attention of bidders is directed to the Contract Provisions governing selection and employment of labor. Minimum wage rates have been predetermined by the Secretary of Labor and are subject to Public Law 87-581, Work Hours Act of 1962, as set forth in the Contract Provisions.

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 award of this contract will be contingent upon the Contractor satisfying the DBE requirements.

Contractors may request permission to bid online at <http://shopmdot.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 <https://shopmdot.ms.gov>. Specimen proposals are available at a cost of Ten Dollars (\$10.00) per proposal plus a small convenience fee. Cash or checks will not be accepted as payment.

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. 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. 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. 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 0 percent for the Disadvantaged Business Enterprise. The low bidder is 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.

Delete the section entitled “PRE-BID MEETING” on page 5.

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. 2895

CODE: (SP)

DATE: 10/14/2020

SUBJECT: Exploratory Joint Cleanout

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

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:

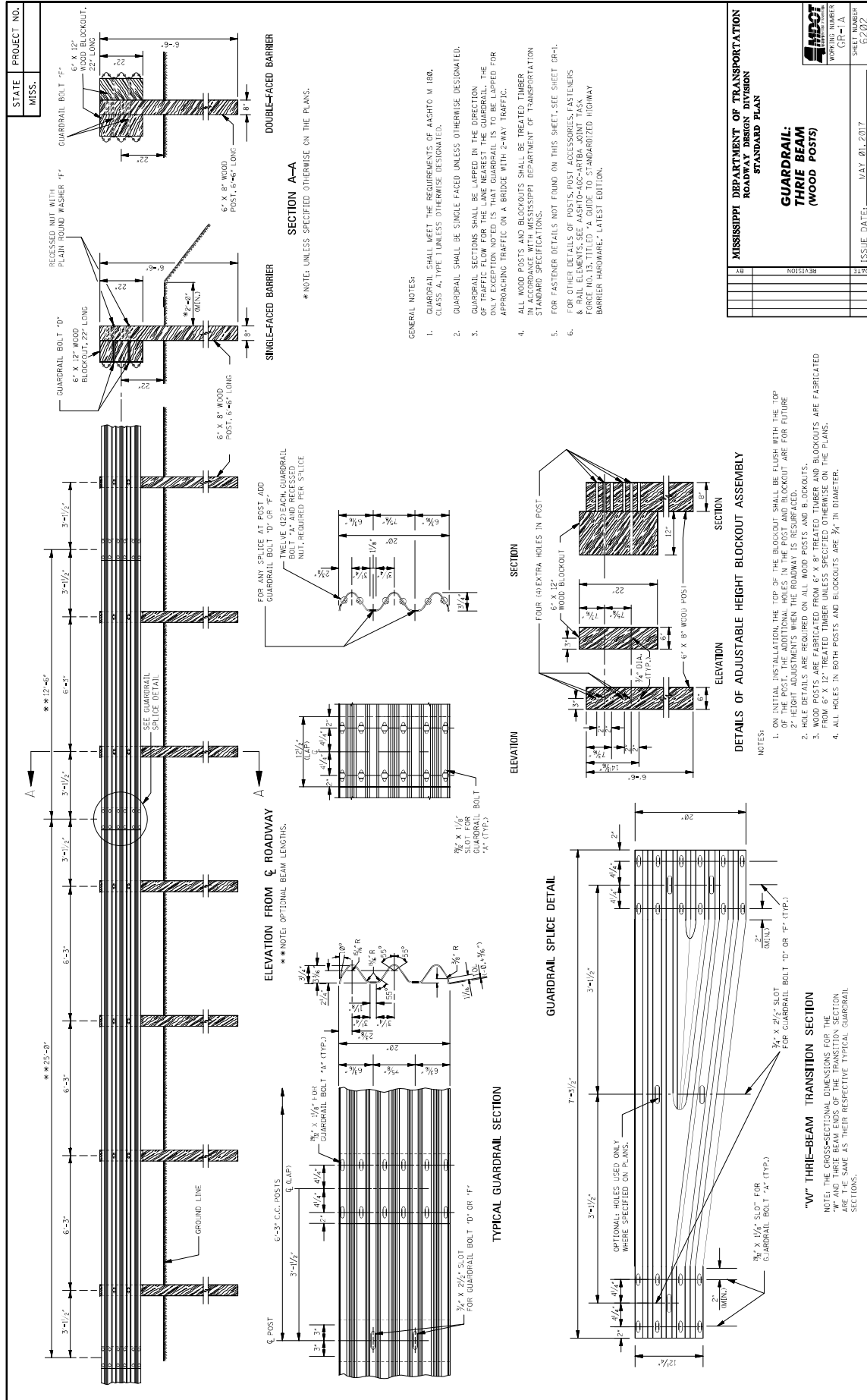
- Brown background sheeting on guide signs shall be a minimum Type VIII sheeting,
- Green and blue background sheeting on guide signs shall be a minimum Type IX sheeting, and
- All white, yellow, red, fluorescent yellow, and fluorescent yellow/green sheeting shall be Type XI sheeting.

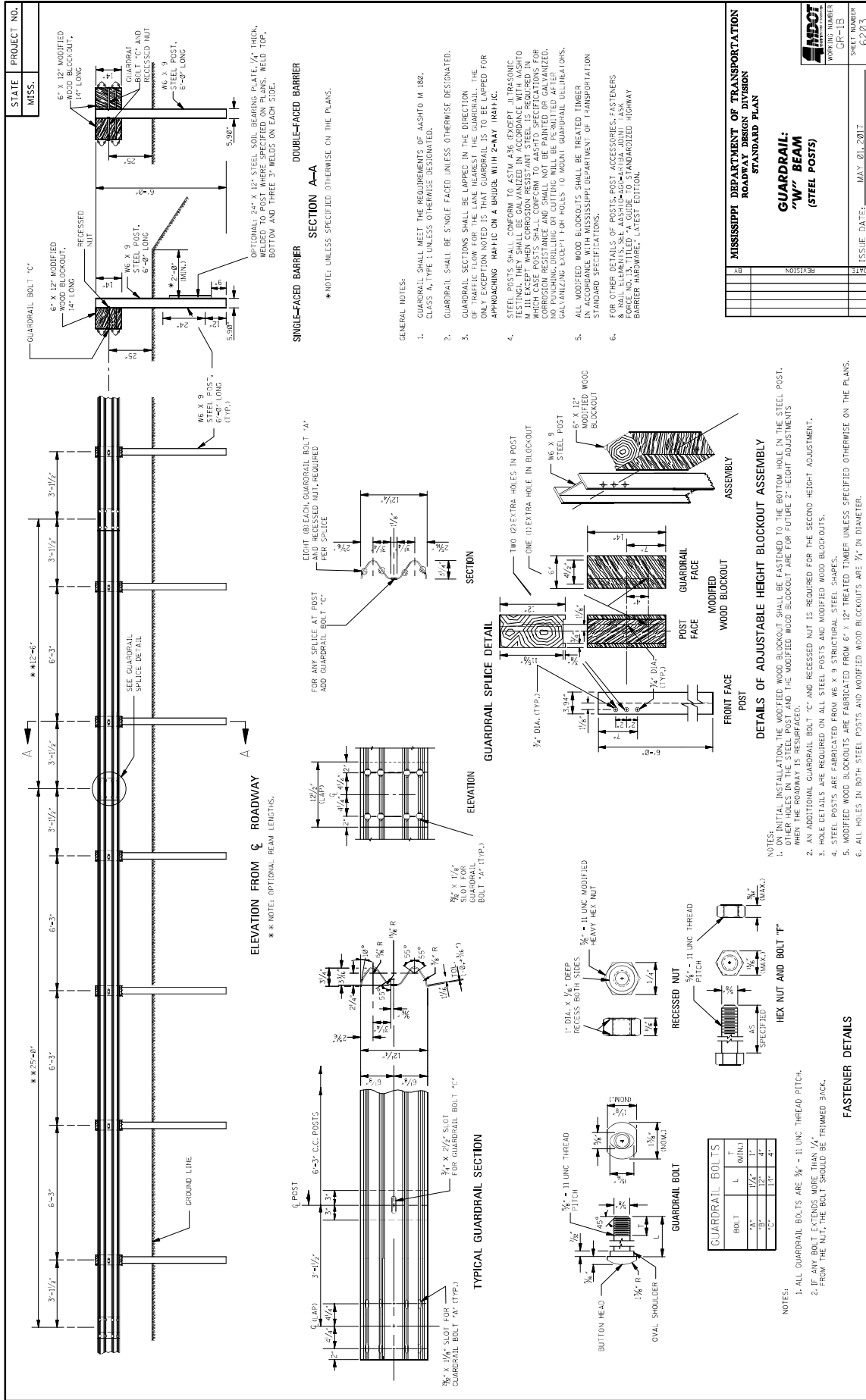
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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

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

| After the last drawing on page 33, add the following.



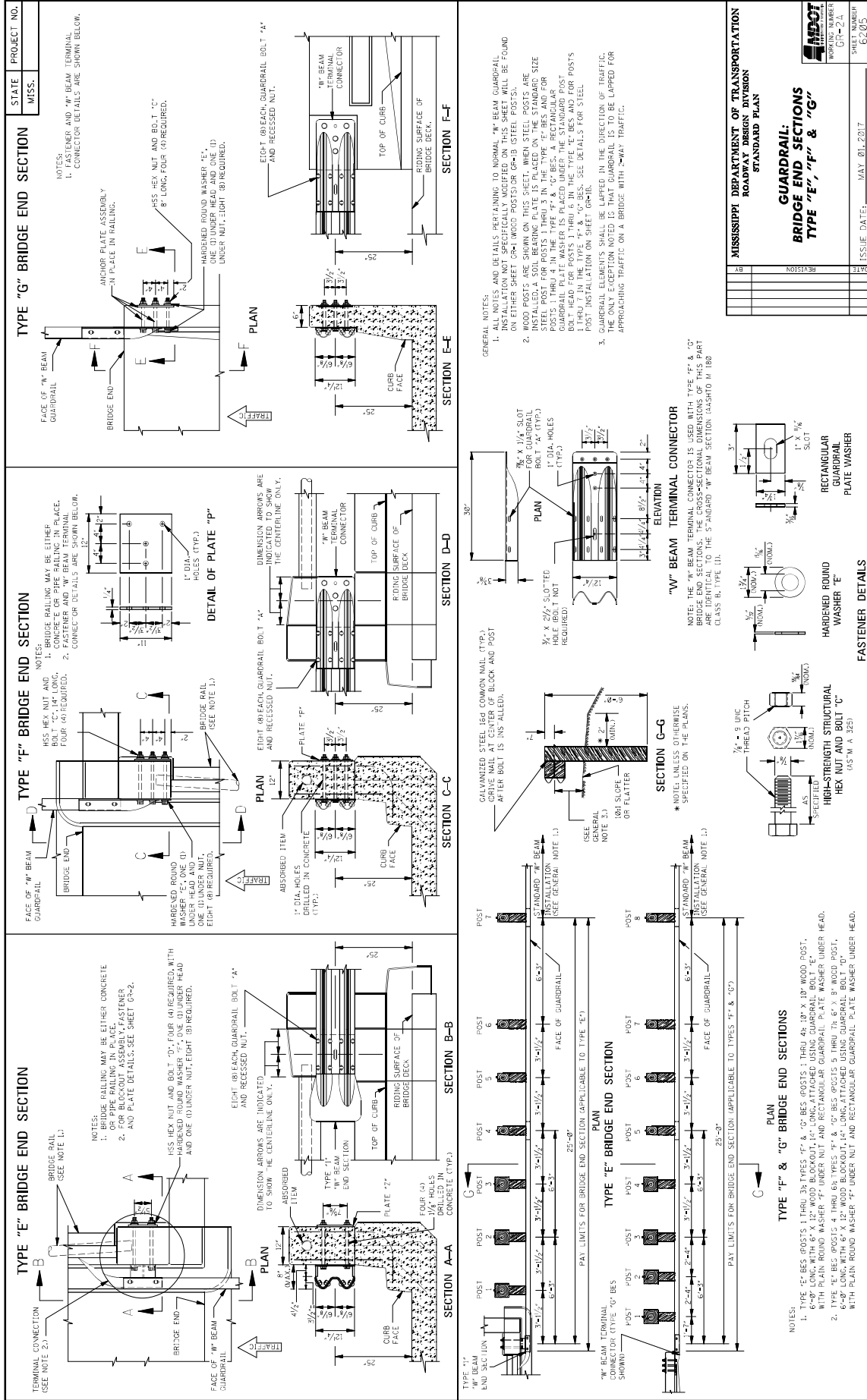


MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

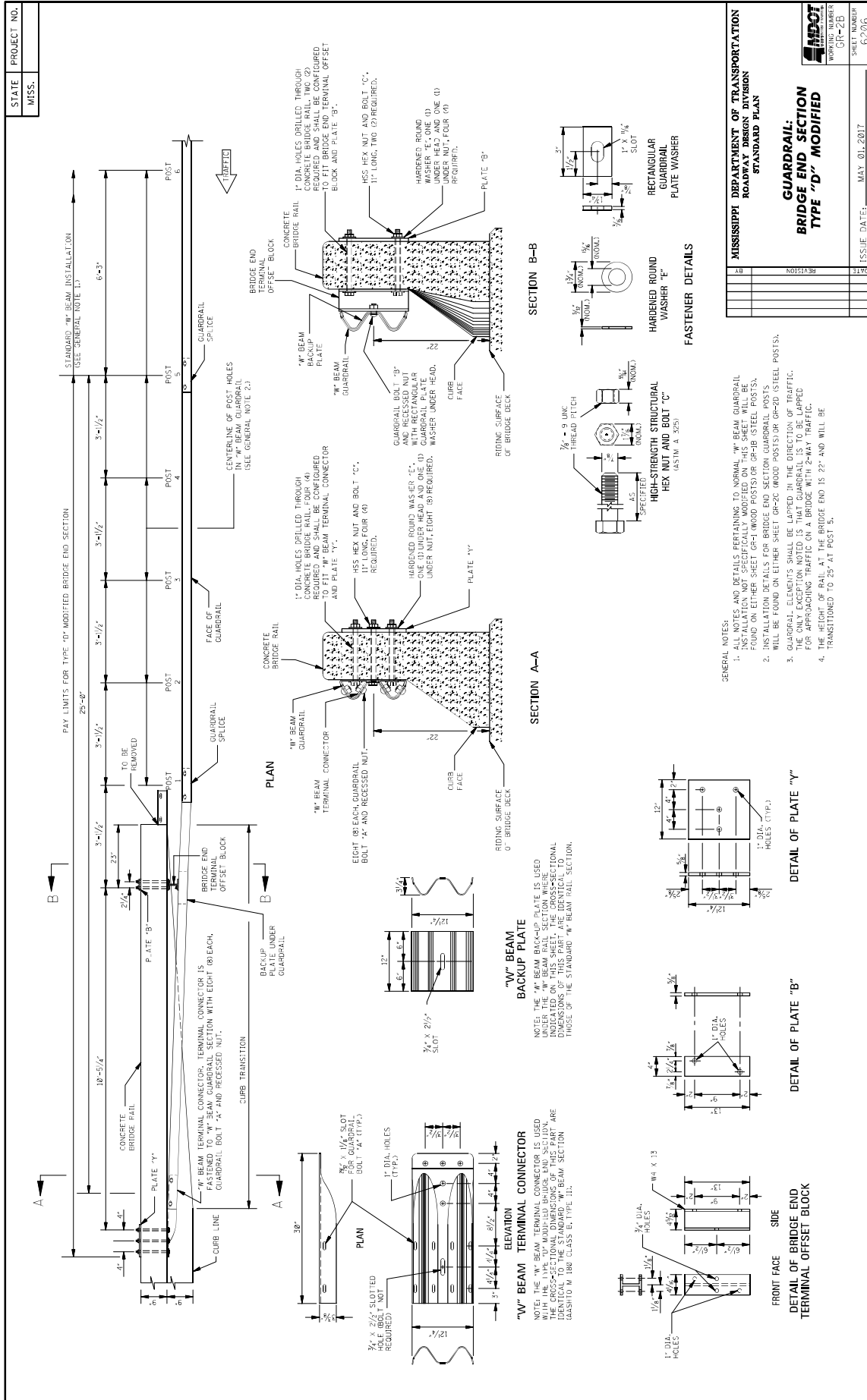
GUARDRAIL:
"W" BEAM
(STEEL POSTS)

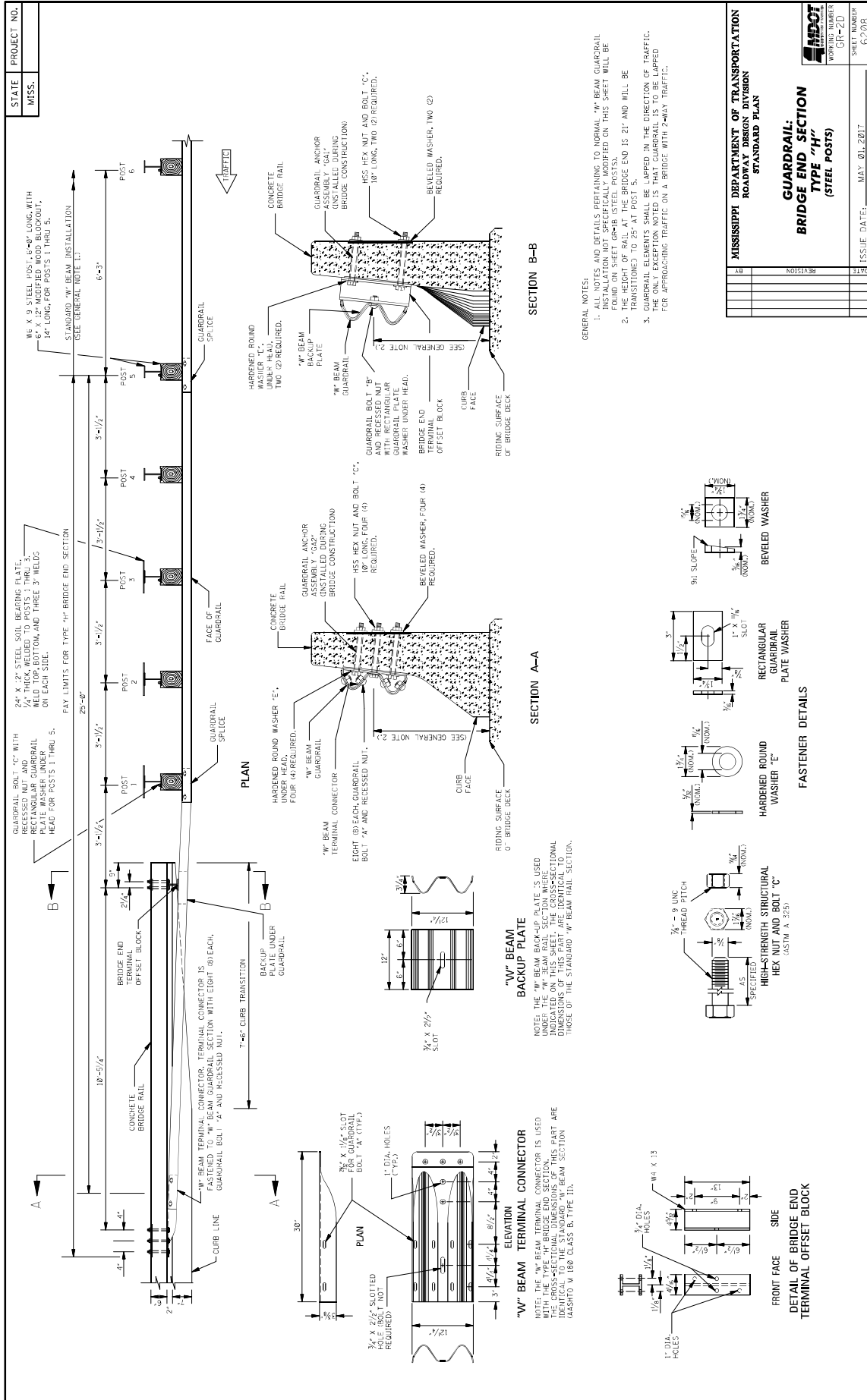
WORKING NUMBER: GH-15
SHEET NUMBER: 6283

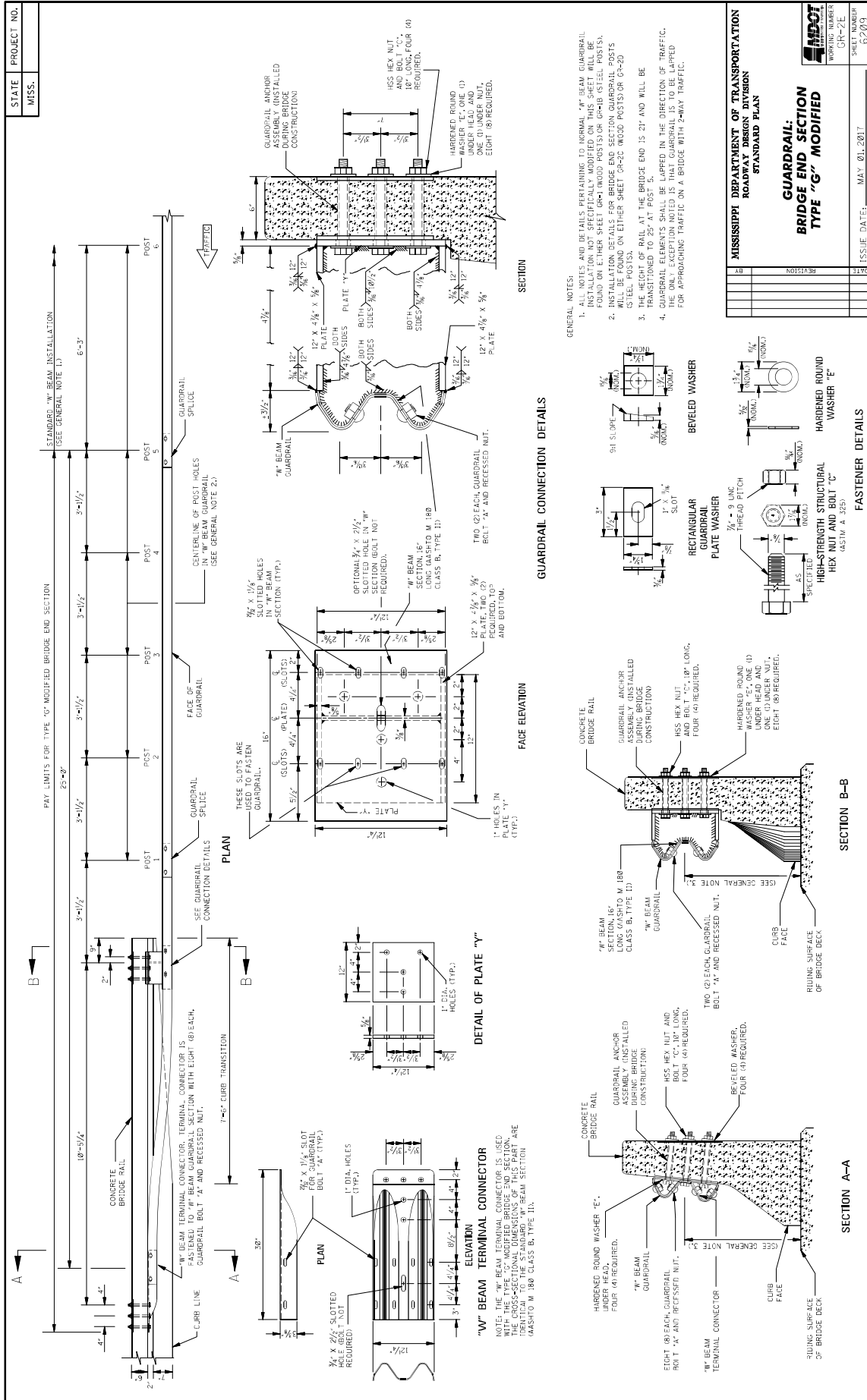
ISSUE DATE: MAY 01, 2011

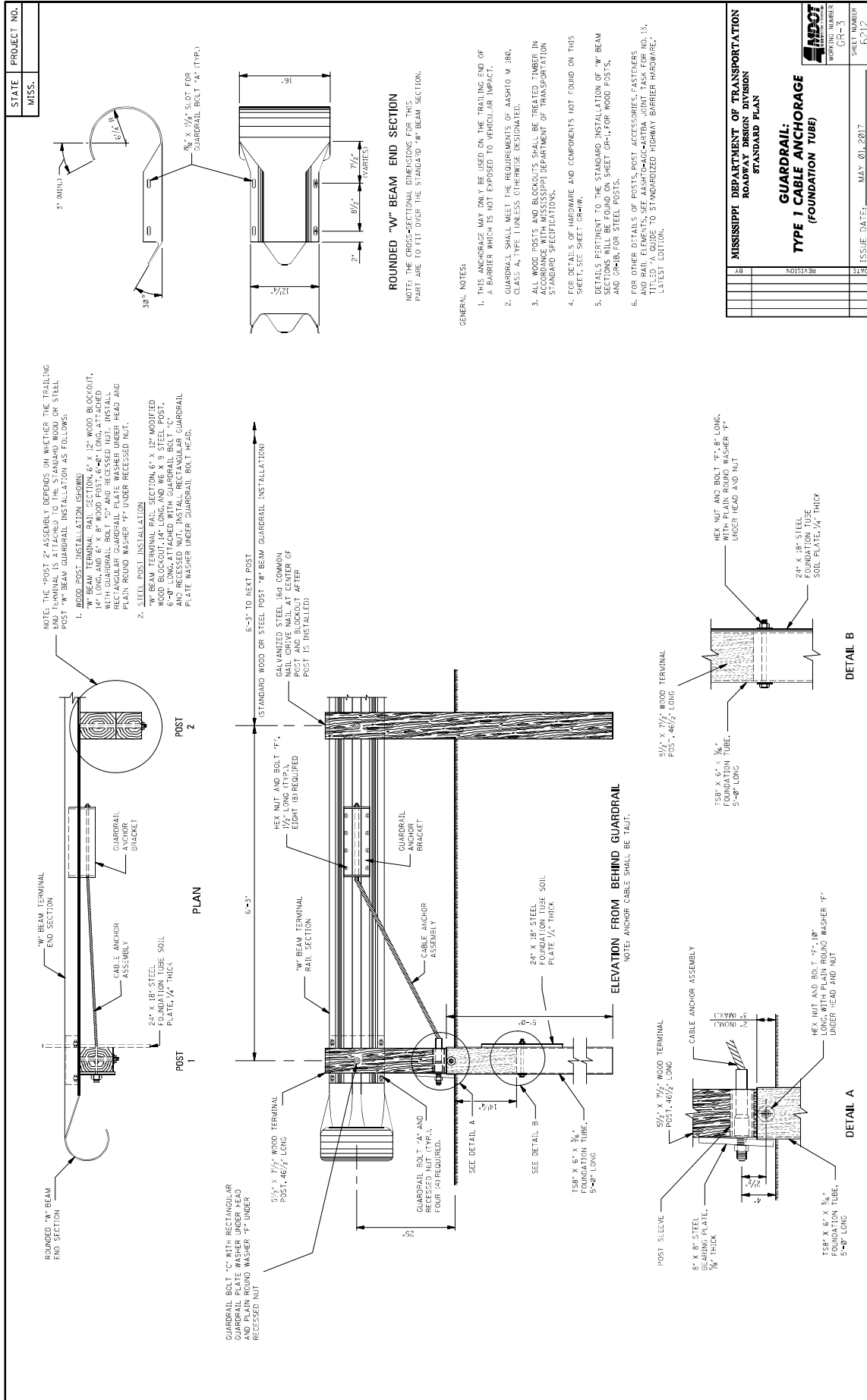


| | | | |
|--|--|--------------|--|
| STATE | | PROJECT NO. | |
| MISS. | | | |
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN | | | |
| GUARDRAIL: BRIDGE END SECTIONS TYPE "E", "F" & "G" | | | |
| DRAWING NUMBER | | SHEET NUMBER | |
| GT-2.4 | | 62.05 | |
| DATE | | ISSUE DATE: | |
| | | MAY 01, 2017 | |









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

NOTE: THE "POST 2" ASSEMBLY DEPENDS ON WHETHER THE TRAILING END TERMINAL IS ATTACHED TO THE STANDARD WOOD OR STEEL POST "W" BEAM GUARDRAIL INSTALLATION AS FOLLOWS:

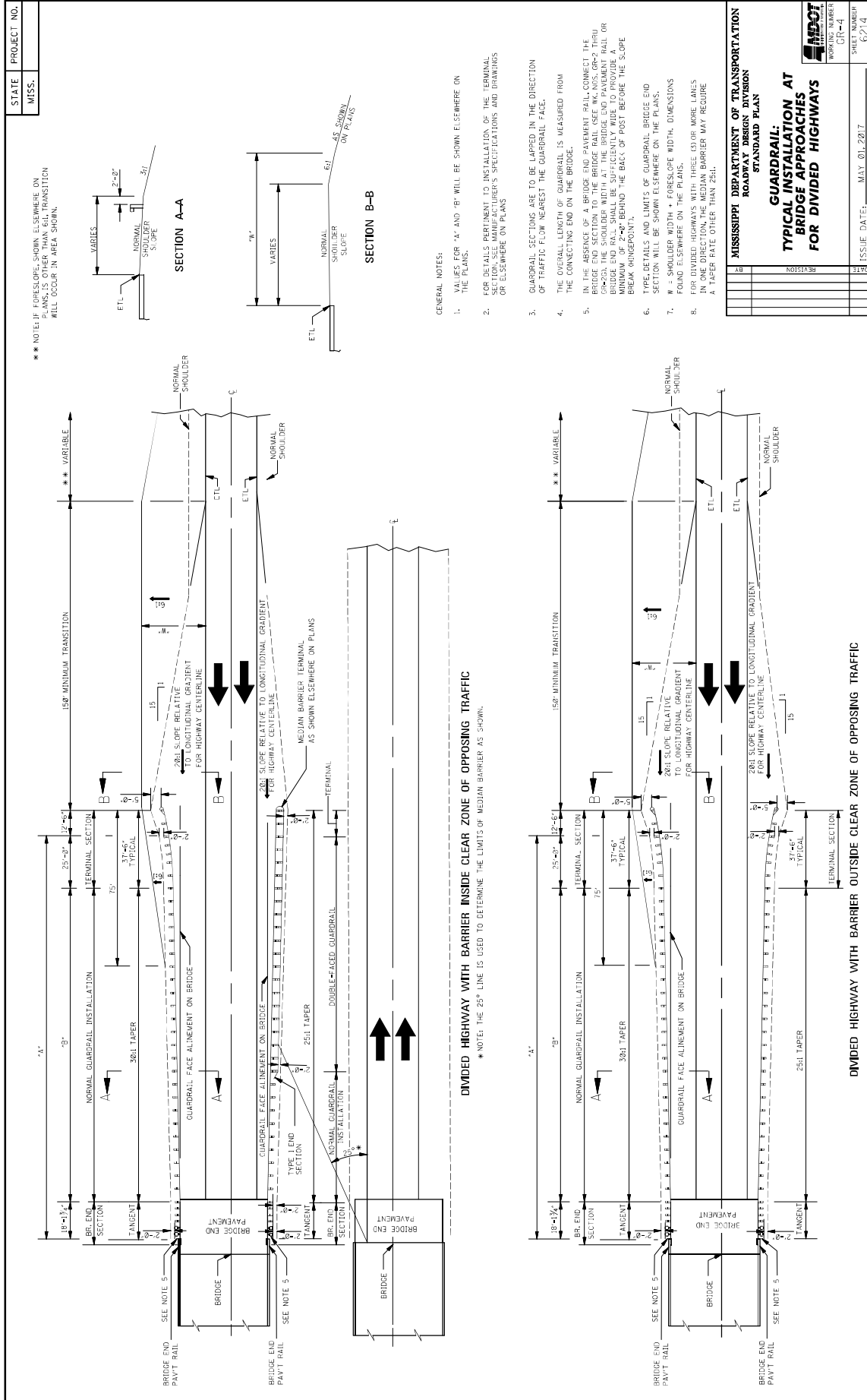
1. WOOD POST INSTALLATION (AS SHOWN)
 "W" BEAM TERMINAL RAIL SECTION, 6" X 12" WOOD BLOCKOUT, AND GALVANIZED STEEL 164 COMMON POST AND BLOCKOUT WITH RECTANGULAR GUARDRAIL "D" AND RECESSED NUT. INSTALL PLAIN ROUND WASHER "F" UNDER RECESSED NUT.

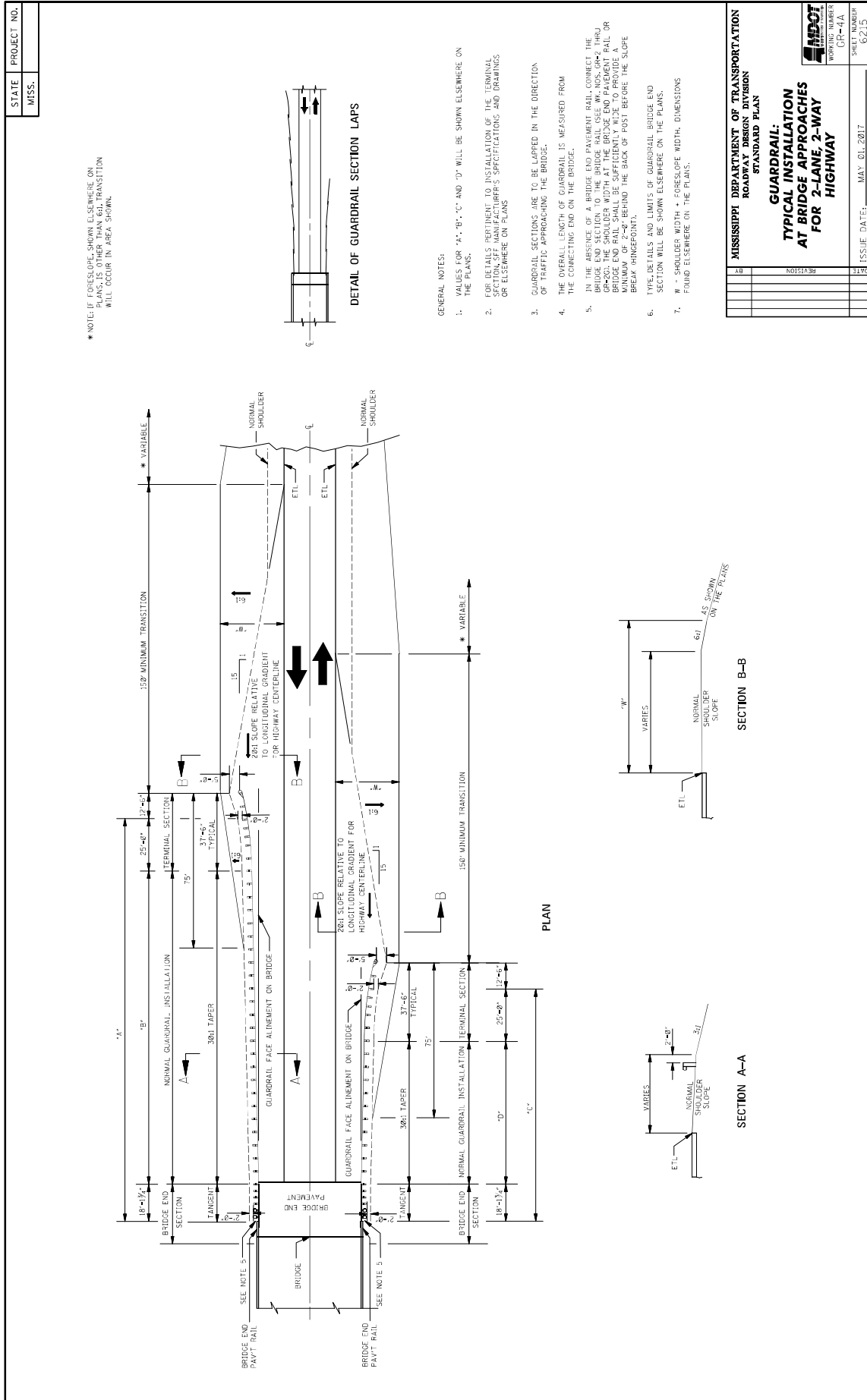
2. STEEL POST INSTALLATION
 "W" BEAM TERMINAL RAIL SECTION, 6" X 12" MODIFIED WOOD BLOCKOUT AND GALVANIZED STEEL 164 COMMON POST, AND RECESSED NUT. INSTALL RECTANGULAR GUARDRAIL "D" AND PLAIN ROUND WASHER "F" UNDER RECESSED NUT.

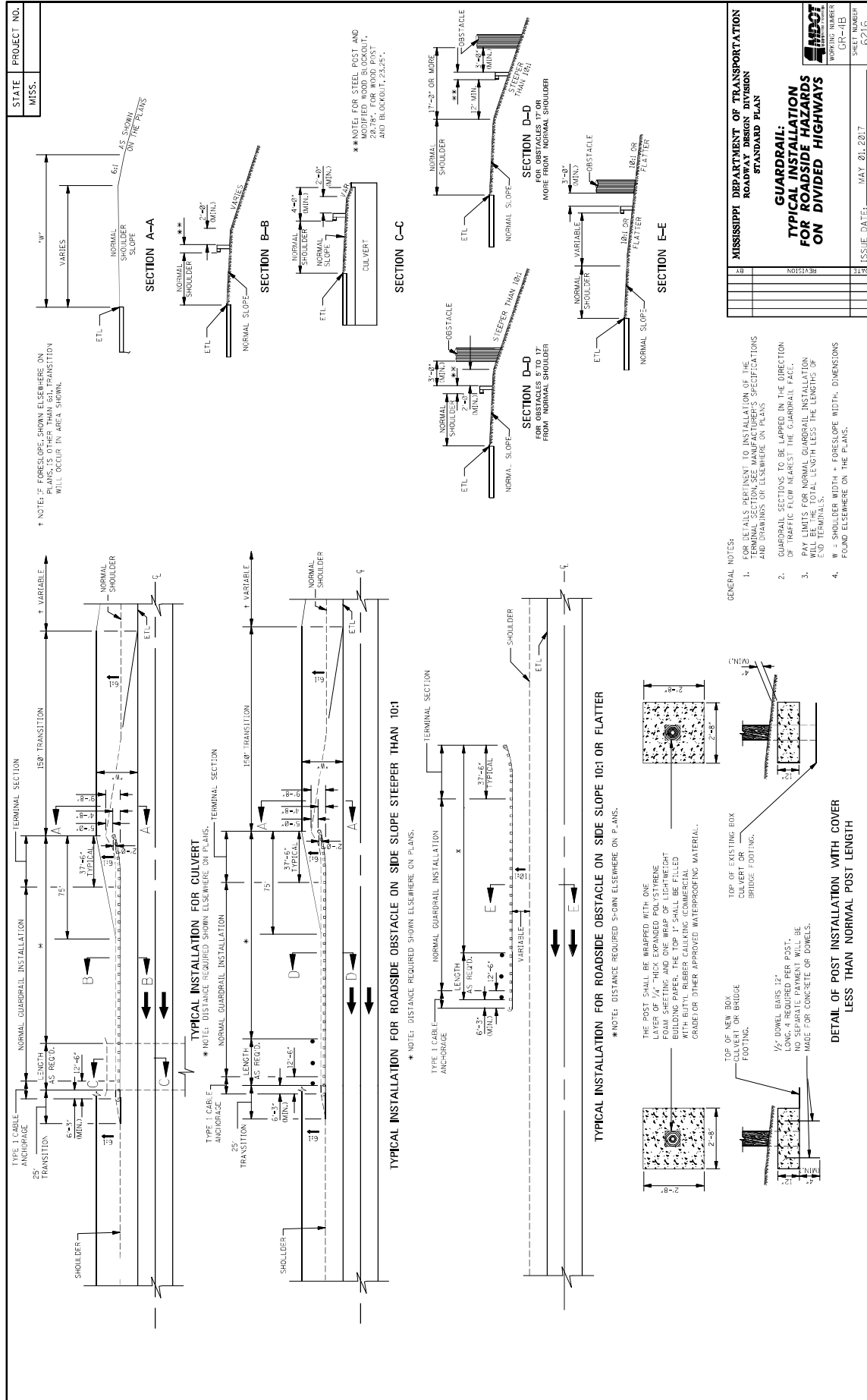
GENERAL NOTES:

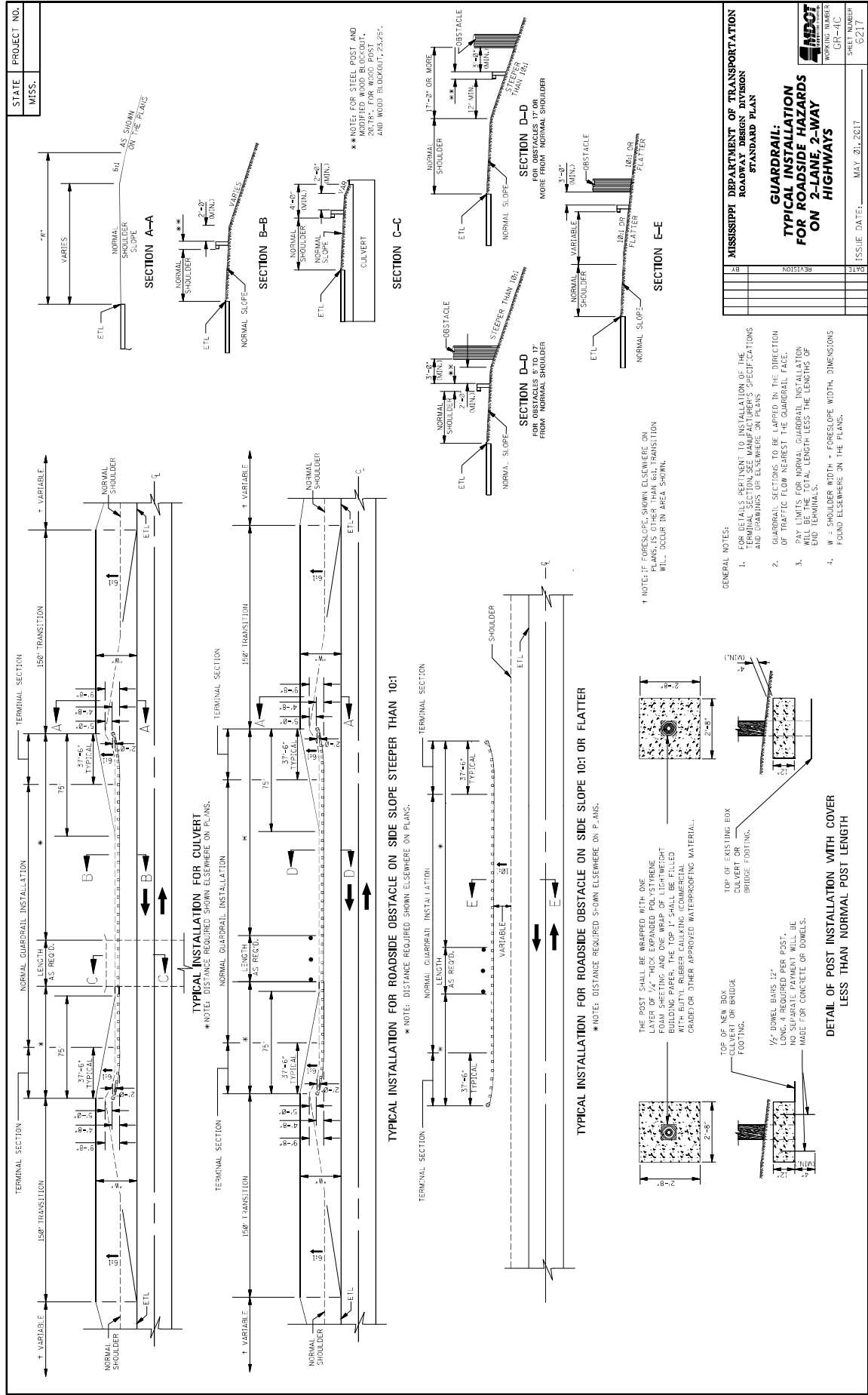
- THIS ANCHORAGE MAY ONLY BE USED ON THE TRAILING END OF A BARRIER WHICH IS NOT EXPOSED TO VEHICULAR IMPACT.
- GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 18A, CLASS A, TYPE 1 UNLESS OTHERWISE DESIGNATED.
- ALL WOOD POSTS AND BLOCKOUTS SHALL BE TREESIES TIMBERS IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- CONCRETE FOR THE CONCRETE FOUNDATION MAY BE EITHER CLASS "B" STRUCTURAL CONCRETE OR AN APPROVED COMMERCIAL PRE-MIXED BAG CONCRETE. THE WELDED WIRE FABRIC FOR THE CONCRETE FOUNDATION SHALL CONFORM TO AASHTO M 221/A M 222/A AND AASHTO M 55/A M 55.
- FOR DETAILS OF HARDWARE AND COMPONENTS NOT FOUND ON THIS SHEET, SEE SHEET GROUP.
- DETAILS PERTINENT TO THE STANDARD INSTALLATION OF "W" BEAM GUARDRAIL SHALL BE FOUND ON SHEET GROUP 11 FOR WOOD POSTS, AND GROUP 12 FOR STEEL POSTS.
- FOR OTHER DETAILS OF POSTS, POST ACCESSORIES FASTENERS AND HARDWARE, SEE SHEET GROUP 11, GROUP 12, GROUP 13, AND GROUP 14.
- FOR STANDARDIZED HIGHWAY BARRIER HARDWARE, SEE AASHTO M 291/A M 292/A M 293/A M 294/A M 295/A M 296/A M 297/A M 298/A M 299/A M 300/A M 301/A M 302/A M 303/A M 304/A M 305/A M 306/A M 307/A M 308/A M 309/A M 310/A M 311/A M 312/A M 313/A M 314/A M 315/A M 316/A M 317/A M 318/A M 319/A M 320/A M 321/A M 322/A M 323/A M 324/A M 325/A M 326/A M 327/A M 328/A M 329/A M 330/A M 331/A M 332/A M 333/A M 334/A M 335/A M 336/A M 337/A M 338/A M 339/A M 340/A M 341/A M 342/A M 343/A M 344/A M 345/A M 346/A M 347/A M 348/A M 349/A M 350/A M 351/A M 352/A M 353/A M 354/A M 355/A M 356/A M 357/A M 358/A M 359/A M 360/A M 361/A M 362/A M 363/A M 364/A M 365/A M 366/A M 367/A M 368/A M 369/A M 370/A M 371/A M 372/A M 373/A M 374/A M 375/A M 376/A M 377/A M 378/A M 379/A M 380/A M 381/A M 382/A M 383/A M 384/A M 385/A M 386/A M 387/A M 388/A M 389/A M 390/A M 391/A M 392/A M 393/A M 394/A M 395/A M 396/A M 397/A M 398/A M 399/A M 400/A M 401/A M 402/A M 403/A M 404/A M 405/A M 406/A M 407/A M 408/A M 409/A M 410/A M 411/A M 412/A M 413/A M 414/A M 415/A M 416/A M 417/A M 418/A M 419/A M 420/A M 421/A M 422/A M 423/A M 424/A M 425/A M 426/A M 427/A M 428/A M 429/A M 430/A M 431/A M 432/A M 433/A M 434/A M 435/A M 436/A M 437/A M 438/A M 439/A M 440/A M 441/A M 442/A M 443/A M 444/A M 445/A M 446/A M 447/A M 448/A M 449/A M 450/A M 451/A M 452/A M 453/A M 454/A M 455/A M 456/A M 457/A M 458/A M 459/A M 460/A M 461/A M 462/A M 463/A M 464/A M 465/A M 466/A M 467/A M 468/A M 469/A M 470/A M 471/A M 472/A M 473/A M 474/A M 475/A M 476/A M 477/A M 478/A M 479/A M 480/A M 481/A M 482/A M 483/A M 484/A M 485/A M 486/A M 487/A M 488/A M 489/A M 490/A M 491/A M 492/A M 493/A M 494/A M 495/A M 496/A M 497/A M 498/A M 499/A M 500/A M 501/A M 502/A M 503/A M 504/A M 505/A M 506/A M 507/A M 508/A M 509/A M 510/A M 511/A M 512/A M 513/A M 514/A M 515/A M 516/A M 517/A M 518/A M 519/A M 520/A M 521/A M 522/A M 523/A M 524/A M 525/A M 526/A M 527/A M 528/A M 529/A M 530/A M 531/A M 532/A M 533/A 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M 659/A M 660/A M 661/A M 662/A M 663/A M 664/A M 665/A M 666/A M 667/A M 668/A M 669/A M 670/A M 671/A M 672/A M 673/A M 674/A M 675/A M 676/A M 677/A M 678/A M 679/A M 680/A M 681/A M 682/A M 683/A M 684/A M 685/A M 686/A M 687/A M 688/A M 689/A M 690/A M 691/A M 692/A M 693/A M 694/A M 695/A M 696/A M 697/A M 698/A M 699/A M 700/A M 701/A M 702/A M 703/A M 704/A M 705/A M 706/A M 707/A M 708/A M 709/A M 710/A M 711/A M 712/A M 713/A M 714/A M 715/A M 716/A M 717/A M 718/A M 719/A M 720/A M 721/A M 722/A M 723/A M 724/A M 725/A M 726/A M 727/A M 728/A M 729/A M 730/A M 731/A M 732/A M 733/A M 734/A M 735/A M 736/A M 737/A M 738/A M 739/A M 740/A M 741/A M 742/A M 743/A M 744/A M 745/A M 746/A M 747/A M 748/A M 749/A M 750/A M 751/A M 752/A M 753/A M 754/A M 755/A M 756/A M 757/A M 758/A M 759/A M 760/A M 761/A M 762/A M 763/A M 764/A M 765/A M 766/A M 767/A M 768/A M 769/A M 770/A M 771/A M 772/A M 773/A M 774/A M 775/A M 776/A M 777/A M 778/A M 779/A M 780/A M 781/A M 782/A M 783/A M 784/A M 785/A M 786/A M 787/A M 788/A M 789/A M 790/A M 791/A M 792/A M 793/A M 794/A M 795/A M 796/A M 797/A M 798/A M 799/A M 800/A M 801/A M 802/A M 803/A M 804/A M 805/A M 806/A M 807/A M 808/A M 809/A M 810/A M 811/A M 812/A M 813/A M 814/A M 815/A M 816/A M 817/A M 818/A M 819/A M 820/A M 821/A M 822/A M 823/A M 824/A M 825/A M 826/A M 827/A M 828/A M 829/A M 830/A M 831/A M 832/A M 833/A M 834/A M 835/A M 836/A M 837/A M 838/A M 839/A M 840/A M 841/A M 842/A M 843/A M 844/A M 845/A M 846/A M 847/A M 848/A M 849/A M 850/A M 851/A M 852/A M 853/A M 854/A M 855/A M 856/A M 857/A M 858/A M 859/A M 860/A M 861/A M 862/A M 863/A M 864/A M 865/A M 866/A M 867/A M 868/A M 869/A M 870/A M 871/A M 872/A M 873/A M 874/A M 875/A M 876/A M 877/A M 878/A M 879/A M 880/A M 881/A M 882/A M 883/A M 884/A M 885/A M 886/A M 887/A M 888/A M 889/A M 890/A M 891/A M 892/A M 893/A M 894/A M 895/A M 896/A M 897/A M 898/A M 899/A M 900/A M 901/A M 902/A M 903/A M 904/A M 905/A M 906/A M 907/A M 908/A M 909/A M 910/A M 911/A M 912/A M 913/A M 914/A M 915/A M 916/A M 917/A M 918/A M 919/A M 920/A M 921/A M 922/A M 923/A M 924/A M 925/A M 926/A M 927/A M 928/A M 929/A M 930/A M 931/A M 932/A M 933/A M 934/A M 935/A M 936/A M 937/A M 938/A M 939/A M 940/A M 941/A M 942/A M 943/A M 944/A M 945/A M 946/A M 947/A M 948/A M 949/A M 950/A M 951/A M 952/A M 953/A M 954/A M 955/A M 956/A M 957/A M 958/A M 959/A M 960/A M 961/A M 962/A M 963/A M 964/A M 965/A M 966/A M 967/A M 968/A M 969/A M 970/A M 971/A M 972/A M 973/A M 974/A M 975/A M 976/A M 977/A M 978/A M 979/A M 980/A M 981/A M 982/A M 983/A M 984/A M 985/A M 986/A M 987/A M 988/A M 989/A M 990/A M 991/A M 992/A M 993/A M 994/A M 995/A M 996/A M 997/A M 998/A M 999/A M 1000/A

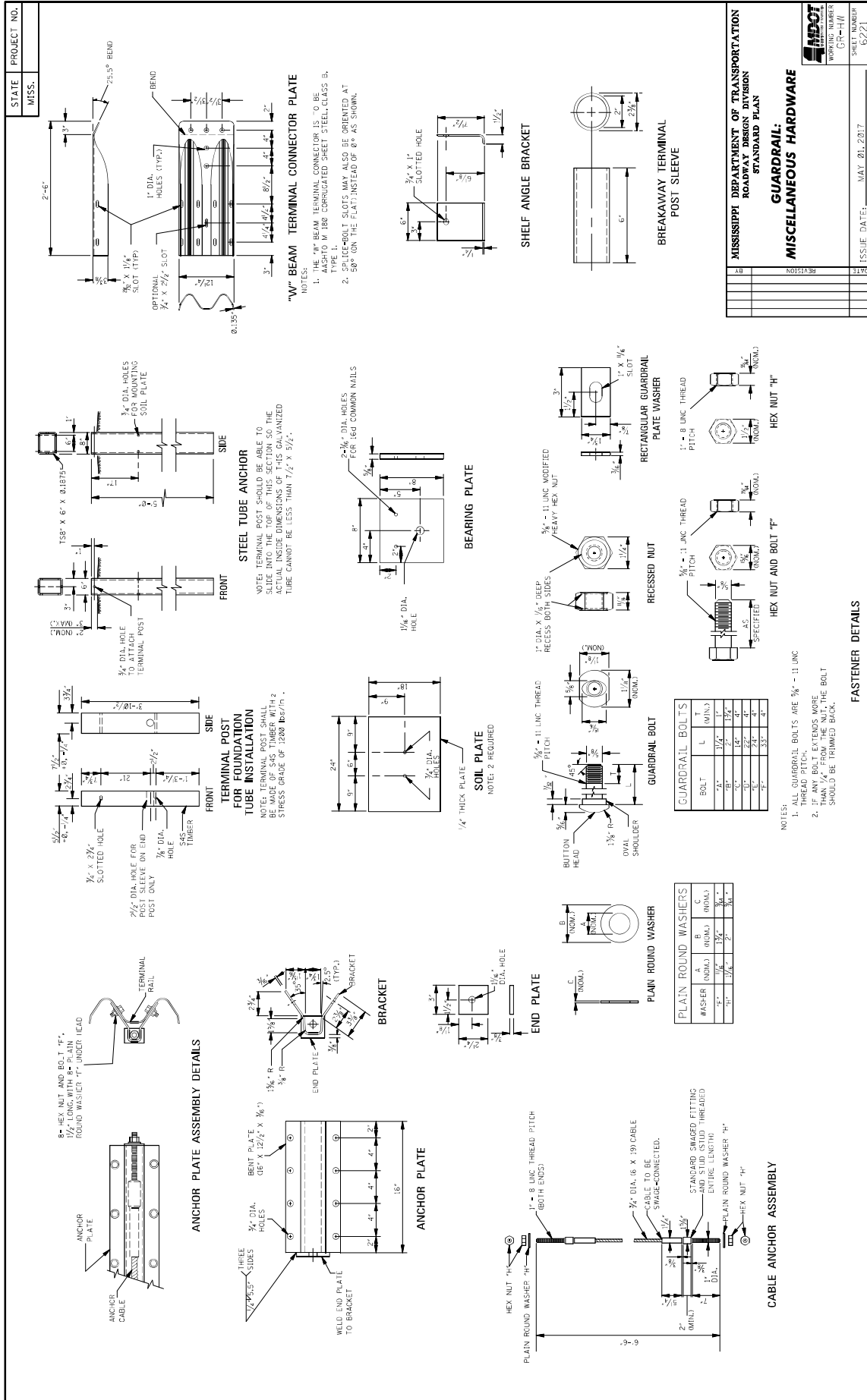
| | |
|---|---|
| MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN | |
| GUARDRAIL: TYPE 1 CABLE ANCHORAGE (CONCRETE FOOTING) | WORKING NUMBER GT-3.1 SHEET NUMBER 621.3 |
| DATE | ISSUE DATE: MAY 01, 2017 |

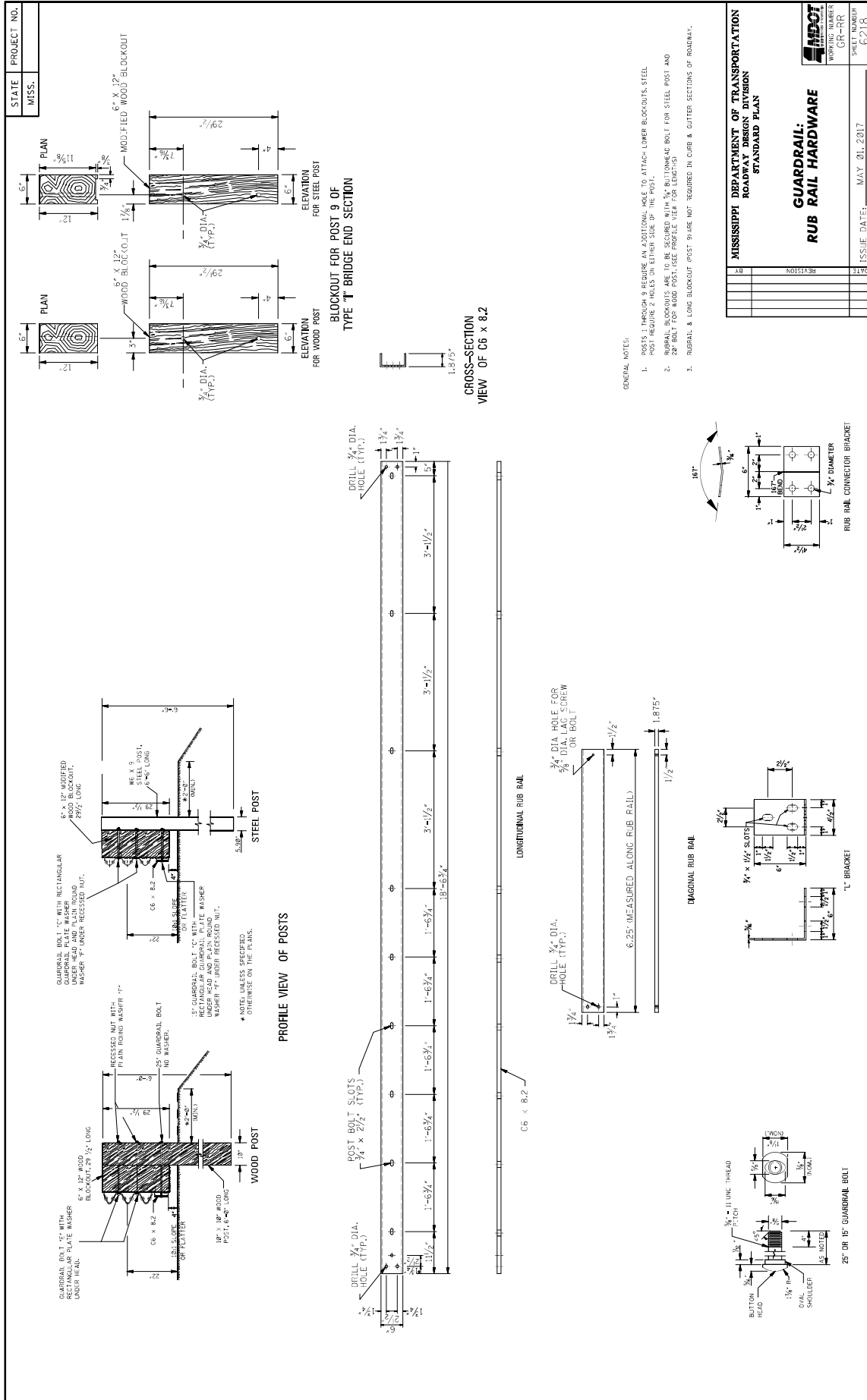












| | | |
|----------------|-------------|--|
| STATE MISS. | PROJECT NO. | |
|----------------|-------------|--|

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.

SINGLE OR DOUBLE AS REQUIRED

DETAIL OF SINGLE WHITE OR SINGLE YELLOW DELINEATOR

DETAIL OF DOUBLE WHITE OR DOUBLE YELLOW DELINEATOR

REAR VIEW OF DELINEATOR ASSEMBLY

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

NOTE: TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGNS ARE TO BE FASTENED TO U-SECTION POSTS WITH 3/8\"/>

DETAIL OF TYPE 3 OBJECT MARKER

DELINEATOR MOUNTING ON OUTSIDE SHOULDER ALONG MAIN FACILITY OR RAMP

NOTE: DELINEATORS ARE TO BE FASTENED TO U-SECTION POSTS WITH 3/8\"/>

DELINEATOR MOUNTING ON INTERCHANGE LOOPS WITH UNMOUNTABLE CURB ON INSIDE

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\"/>

DETAIL OF TYPE 3 OBJECT MARKER INSTALLATION

DELINEATOR MOUNTING ON OUTSIDE SHOULDER WITH MOUNTABLE CURB ALONG MAIN FACILITY OR RAMP

DELINEATOR MOUNTING ON INTERCHANGE LOOPS WITH UNMOUNTABLE CURB ON INSIDE

MOUNTING DETAIL

GENERAL NOTES:

- DELINEATORS AND TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 0.200\"/>
- DELINEATOR, 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\"/>
 - B. TYPE 3 OBJECT MARKER POSTS 9'-0\"/>
 - C. DISTANCE REFERENCE SIGN POSTS 12'-0\"/>
- 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.

STATE MISS.

PROJECT NO.

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: 6214

ISSUE DATE: MAY 01, 2017

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 – NOTICE TO BIDDERS NO. 3599

CODE: (SP)

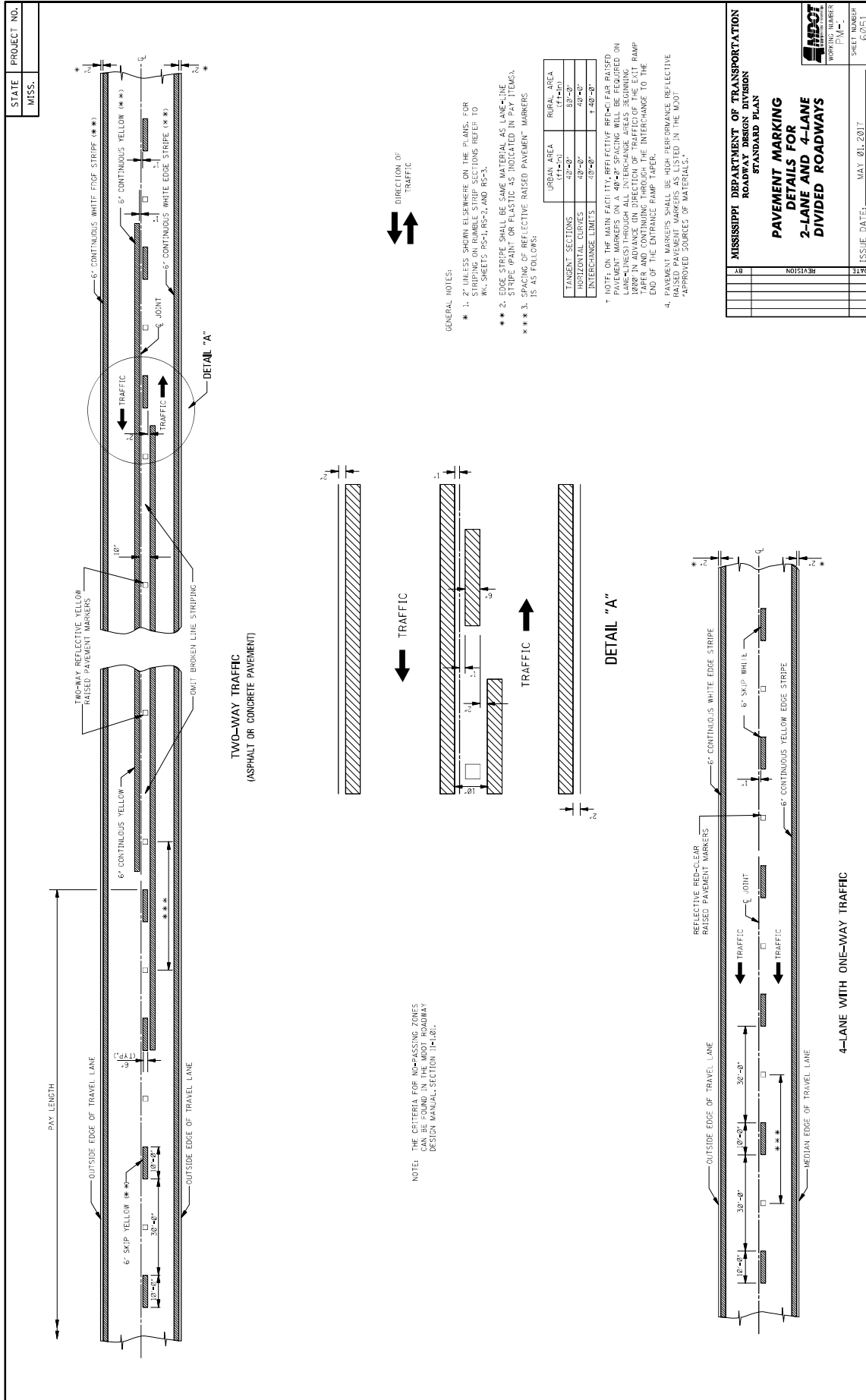
DATE: 08/11/2021

SUBJECT: Standard Drawings

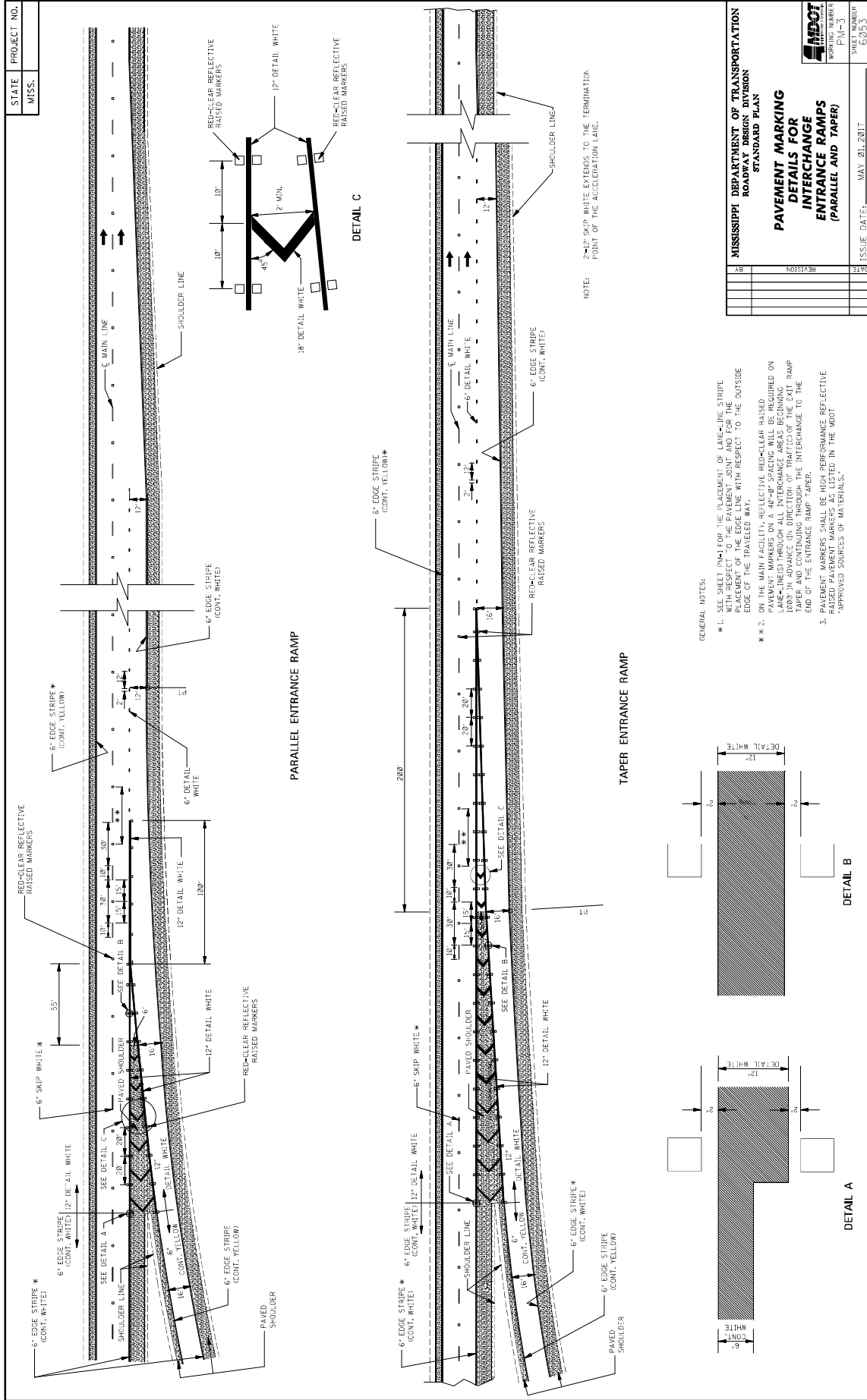
Standard Drawings attached hereto shall govern appropriate items of required work.

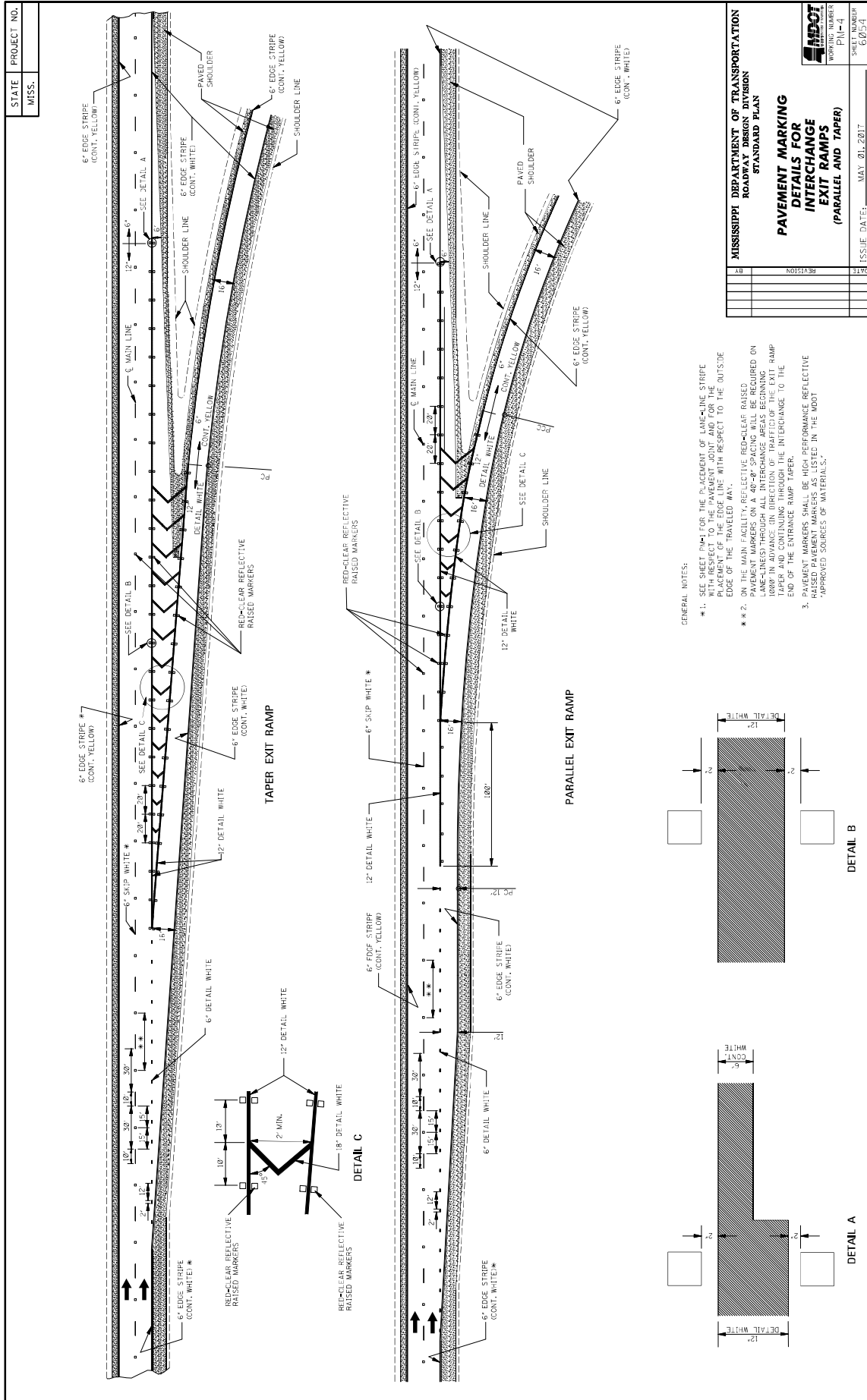
Larger copies of Standard Drawings may be purchased from:

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



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| MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN |
| PAVEMENT MARKING DETAILS FOR 2-LANE AND 4-LANE DIVIDED ROADWAYS |
| DATE: _____ REVISION: _____ |
| ISSUE DATE: MAY 01, 2017 SHEET NUMBER: 6001 WORKING NUMBER: P.M.- |





- GENERAL NOTES:
- * 1. SEE SHEET PM-1 FOR THE PLACEMENT OF LANE-LINE STRIPE WITH RESPECT TO THE PAVEMENT JOINT AND FOR THE PLACE OF THE PAVED SHOULDER WITH RESPECT TO THE OUTSIDE EDGE OF THE FINISHED MARKING. RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-84" SPACING WILL BE REQUIRED ON LANE-LINES THROUGH ALL INTERCHANGE AREAS BEGINNING 1000' IN ADVANCE IN DIRECTION OF TRAFFIC OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER.
 - * 2. RAISED PAVEMENT MARKERS BE HIGH PERFORMANCE REFLECTIVE 'APPROVED SOURCES OF MATERIALS.'

| | |
|---|--------------------------|
| 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 | |
| 62/2/4 | |

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

6'-4"

8'-4"

4"

6'-4"

8'-4"

4"

6'-4"

8'-4"

4"

6'-4"

8'-4"

4"

5'-4"

8'-4"

4"

7'-0"

8'-4"

4"

7'-0"

8'-4"

4"

8'-0"

8'-4"

4"

9'-8"

8'-4"

4"

GENERAL NOTES:

- TWO HORIZONTAL GAPS (USED BY TEMPLATE CONNECTIONS) OF 1/2" 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 (sq ft) |
|---------|--------------|
| STOP | 24.6 |
| RIGHT | 28.6 |
| LEFT | 19.5 |
| TRAFFIC | 22.2 |
| YIELD | 32.2 |
| EXIT | 26.8 |
| SIGNAL | 18.5 |
| SCHOOL | 32.5 |

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
LEGEND DETAILS**

| | |
|--|--------------------------|
| | ISSUE DATE: MAY 01, 2017 |
| | SHEET NUMBER 6055 |
| | WORKING NUMBER PM-5 |
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|----------------|-------------|--|--|
| STATE MISS. | PROJECT NO. | | |
|----------------|-------------|--|--|

ONLY: 8'-4" x 5'-10"

TURN: 8'-4" x 6'-4"

COMBINATION: 13'-4" x 7'-8"

LANE-REDUCTION: 17'-8" x 6'-6"

THRU: 10'-0" x 5'-4"

1-WAY: 25'-10" x 7'-2"

GENERAL NOTES:

- TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTIONS OF 1/4" OR LESS AND EXTENDING THE FULL WIDTH) ARE PERMITTED IN EACH LETTER.
- FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- DIMENSIONS OF THE YIELD LINE MAY VARY WITH APPROVAL OF THE ENGINEER. SEE MUTCD, LATEST EDITION, FOR ALLOWABLE DIMENSIONS.
- PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

| PAY QUANTITIES | |
|----------------------|-------------------------|
| LEGEND/SYMBOL | AREA (ft ²) |
| ONLY | 22.0 |
| TURN ARROW | 16.4 |
| COMB. ARROW | 12.3 |
| LANE-REDUCTION ARROW | 24.3 |
| 1-WAY ARROW | 40.0 |

GENERAL NOTES:

- TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTIONS OF 1/4" OR LESS AND EXTENDING THE FULL WIDTH) ARE PERMITTED IN EACH LETTER.
- FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- DIMENSIONS OF THE YIELD LINE MAY VARY WITH APPROVAL OF THE ENGINEER. SEE MUTCD, LATEST EDITION, FOR ALLOWABLE DIMENSIONS.
- PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

PAVEMENT MARKING LEGEND DETAILS

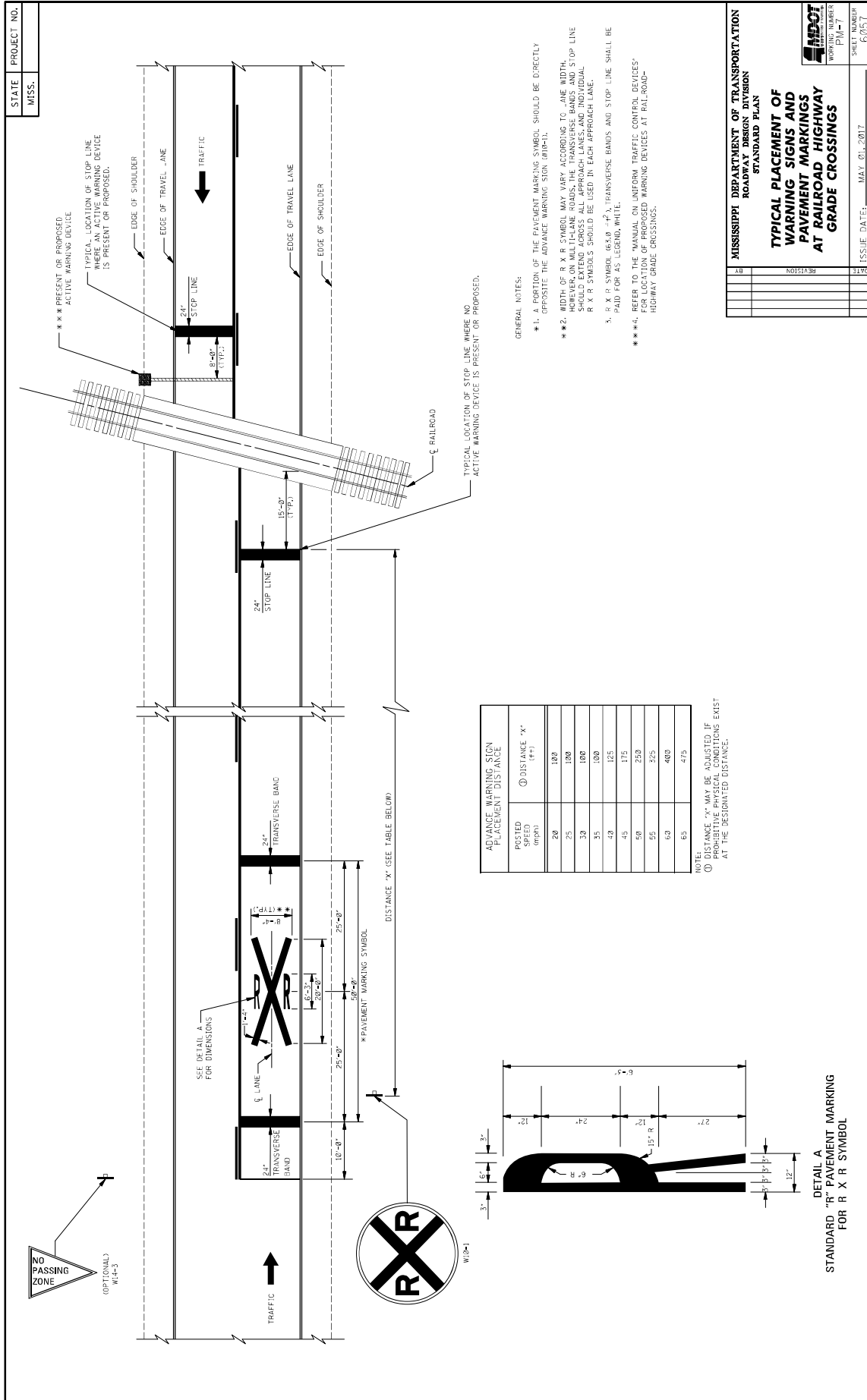
BY: _____ DATE: _____

REVISION: _____

ISSUE DATE: MAY 01, 2017

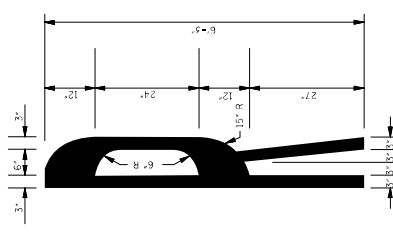
SHEET NUMBER: PM-6

SHEET TOTAL: 60/66



| POSTED SPEED (mph) | ① DISTANCE 'X' (ft) |
|--------------------|---------------------|
| 20 | 100 |
| 25 | 100 |
| 30 | 100 |
| 35 | 100 |
| 40 | 125 |
| 45 | 175 |
| 50 | 250 |
| 55 | 325 |
| 60 | 400 |
| 65 | 475 |

NOTE: DISTANCE 'X' MAY BE ADJUSTED IF PROTECTIVE PHYSICAL CONDITIONS EXIST AT THE DESIGNATED DISTANCE.



DETAIL A
STANDARD "R" PAVEMENT MARKING
FOR R X R SYMBOL

- GENERAL NOTES:
- **1. A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W14-3).
 - **2. WIDTH OF R X R SYMBOL MAY VARY ACCORDING TO LANE WIDTH. SYMBOL SHOULD EXTEND ACROSS ALL APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.
 - **3. R X R SYMBOL (65 X 8 - 1/2") TRANSVERSE BANDS AND STOP LINE SHALL BE PAID FOR AS LEGEND WHITE.
 - **4. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR LOCATION OF PROPOSED WARNING DEVICES AT RAILROAD-HIGHWAY GRADE CROSSINGS.

STATE PROJECT NO.
MISS.

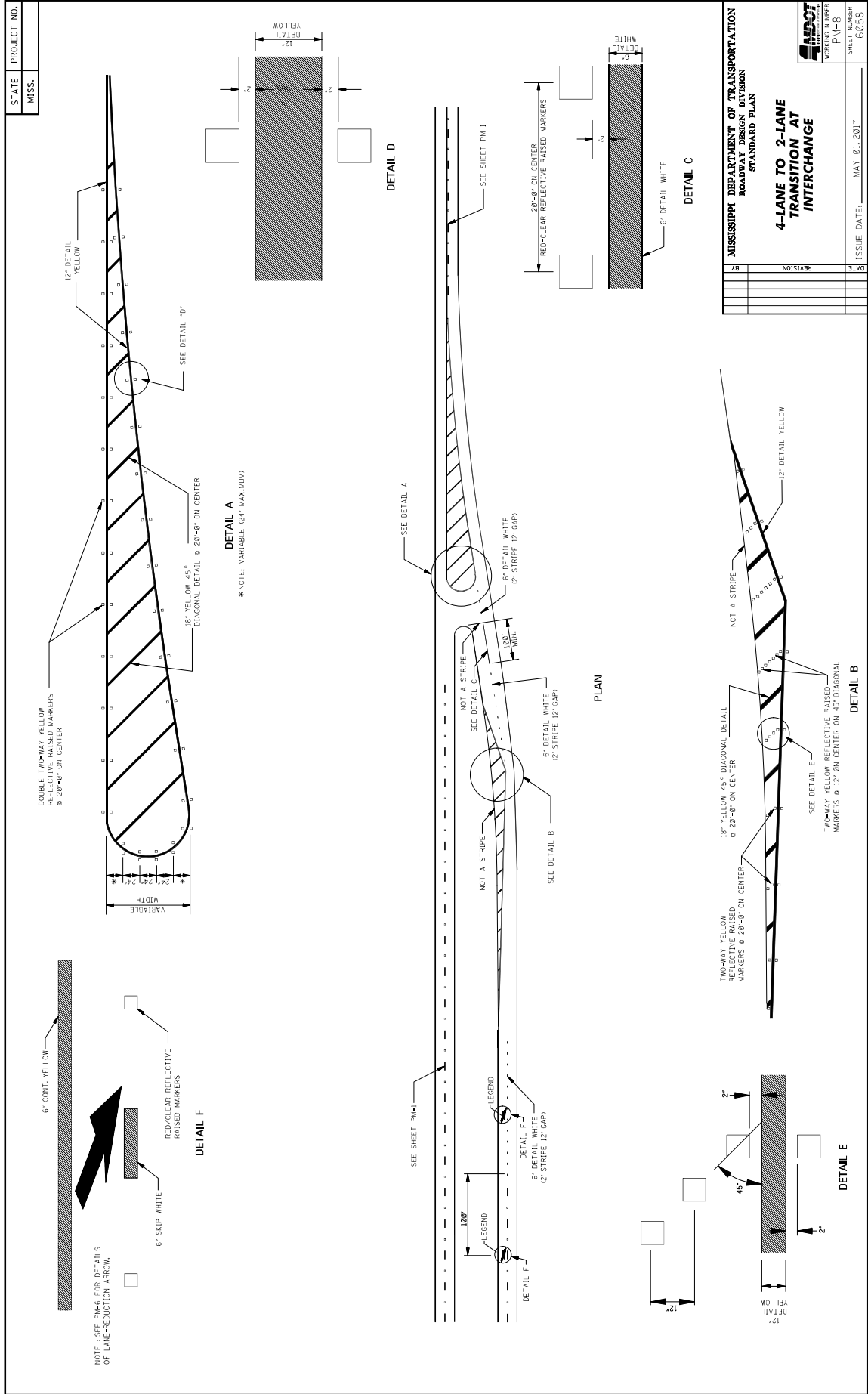
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

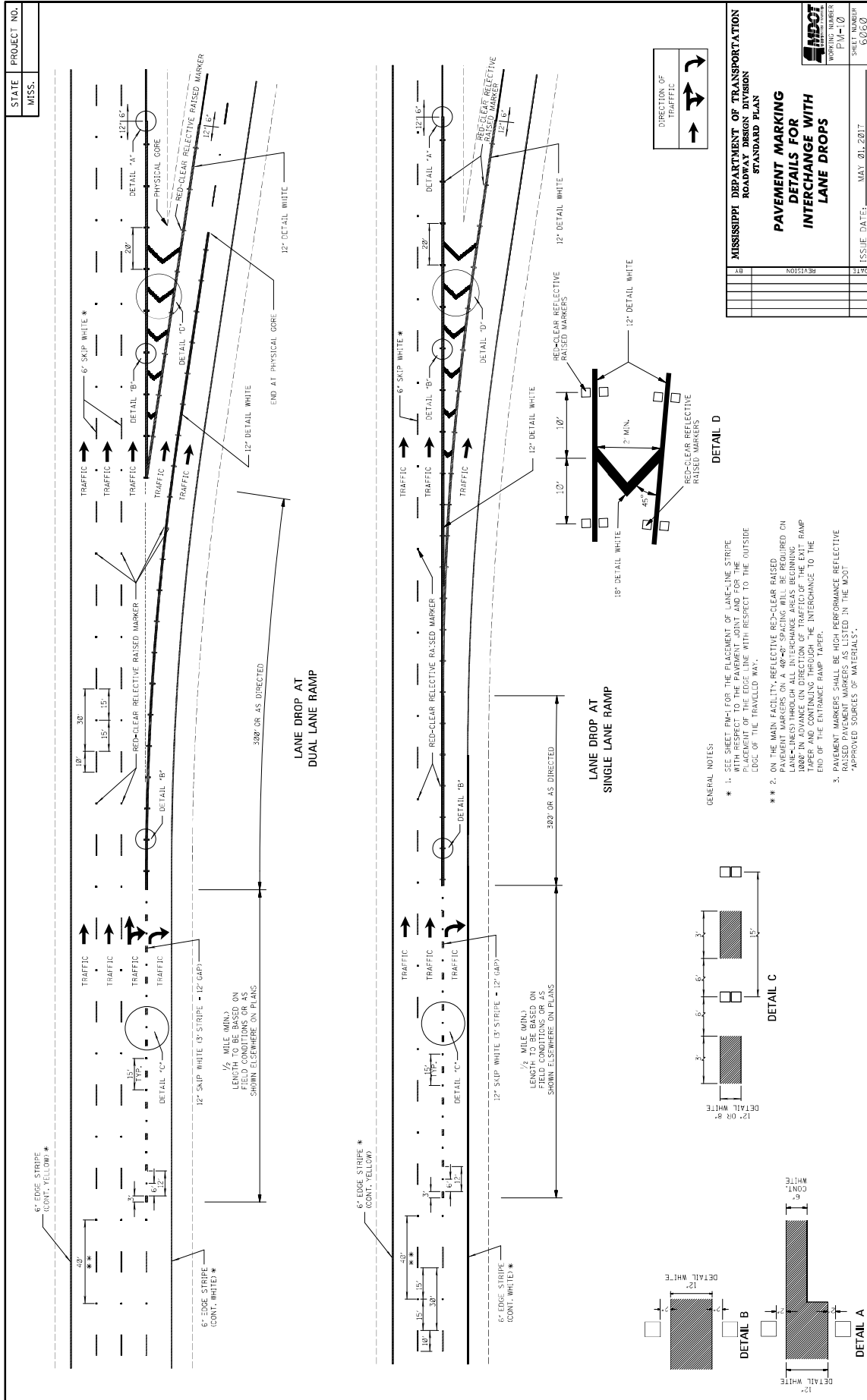
TYPICAL PLACEMENT OF WARNING SIGNS AND PAVEMENT MARKINGS AT RAILROAD HIGHWAY GRADE CROSSINGS

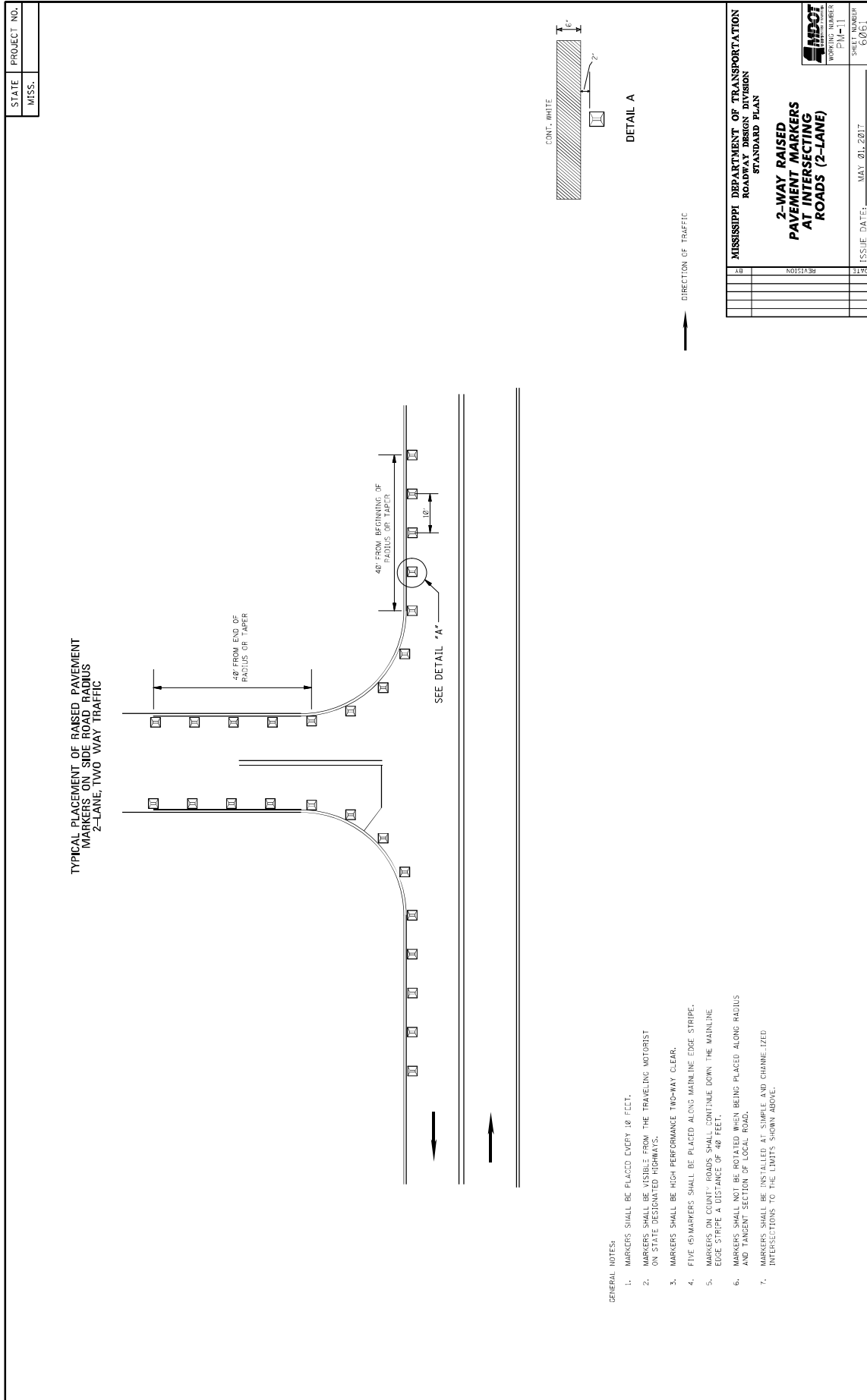
MDOT
WORKING NUMBER
P10-1

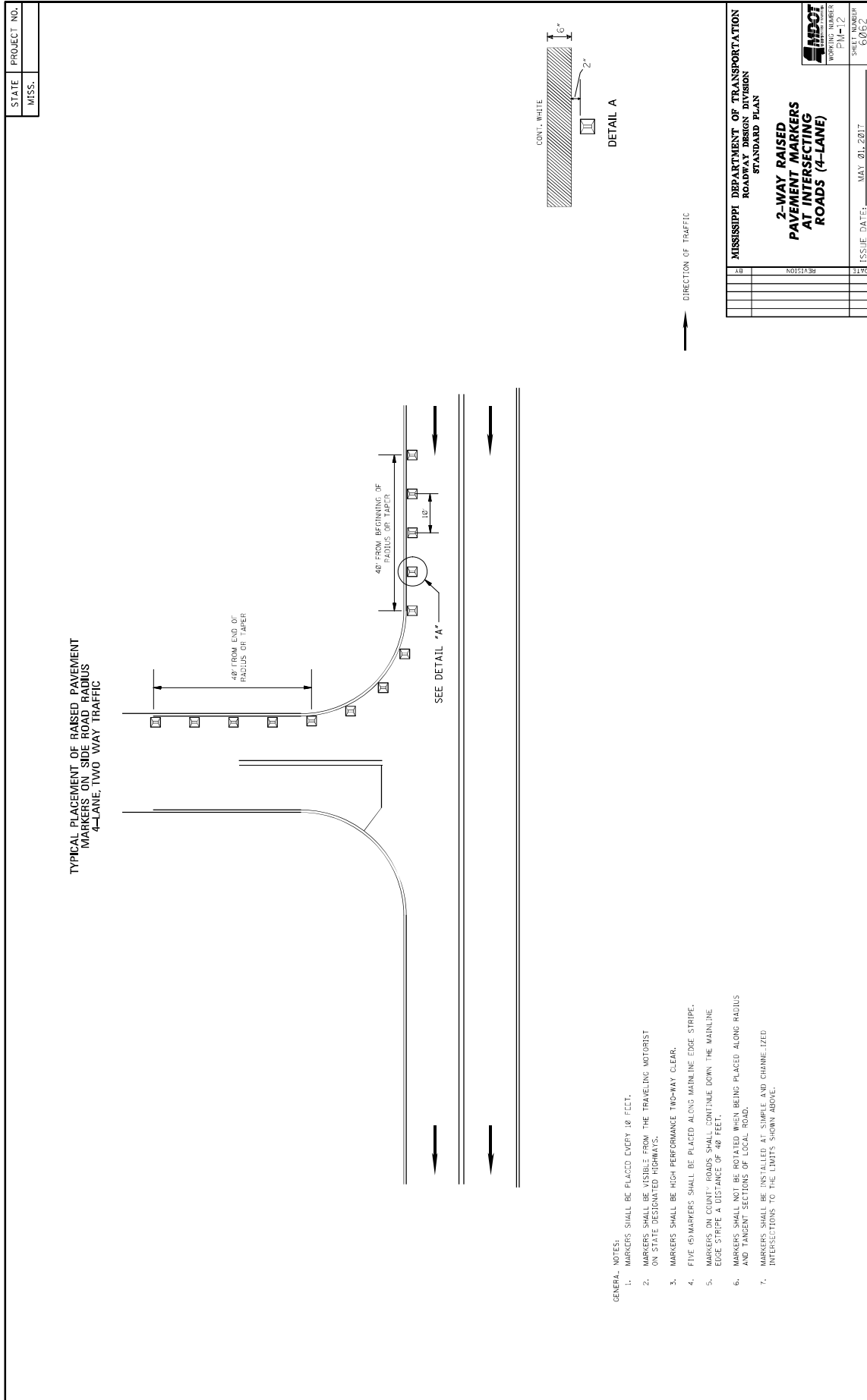
SHEET NUMBER
60511

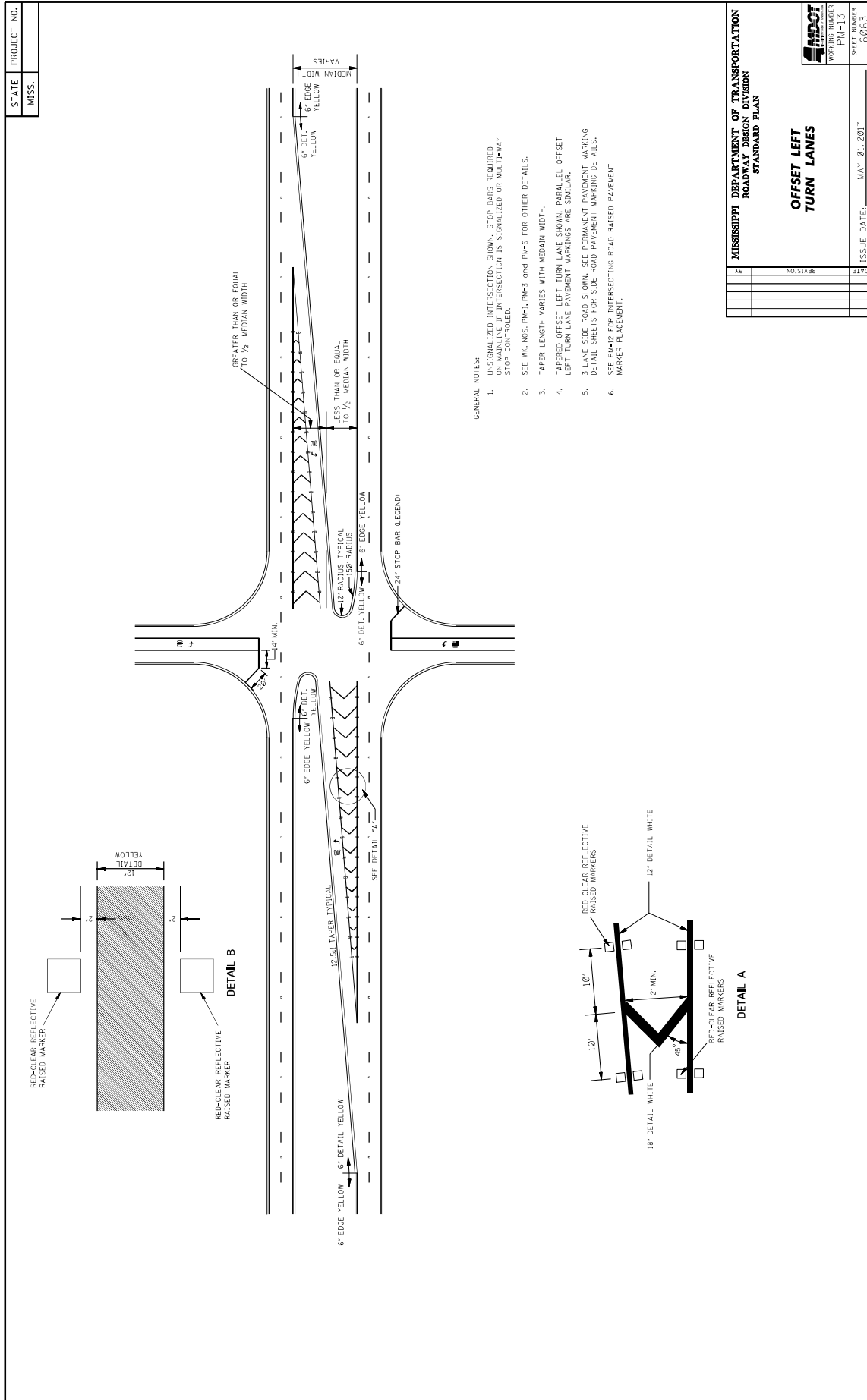
ISSUE DATE: MAY 01, 2017

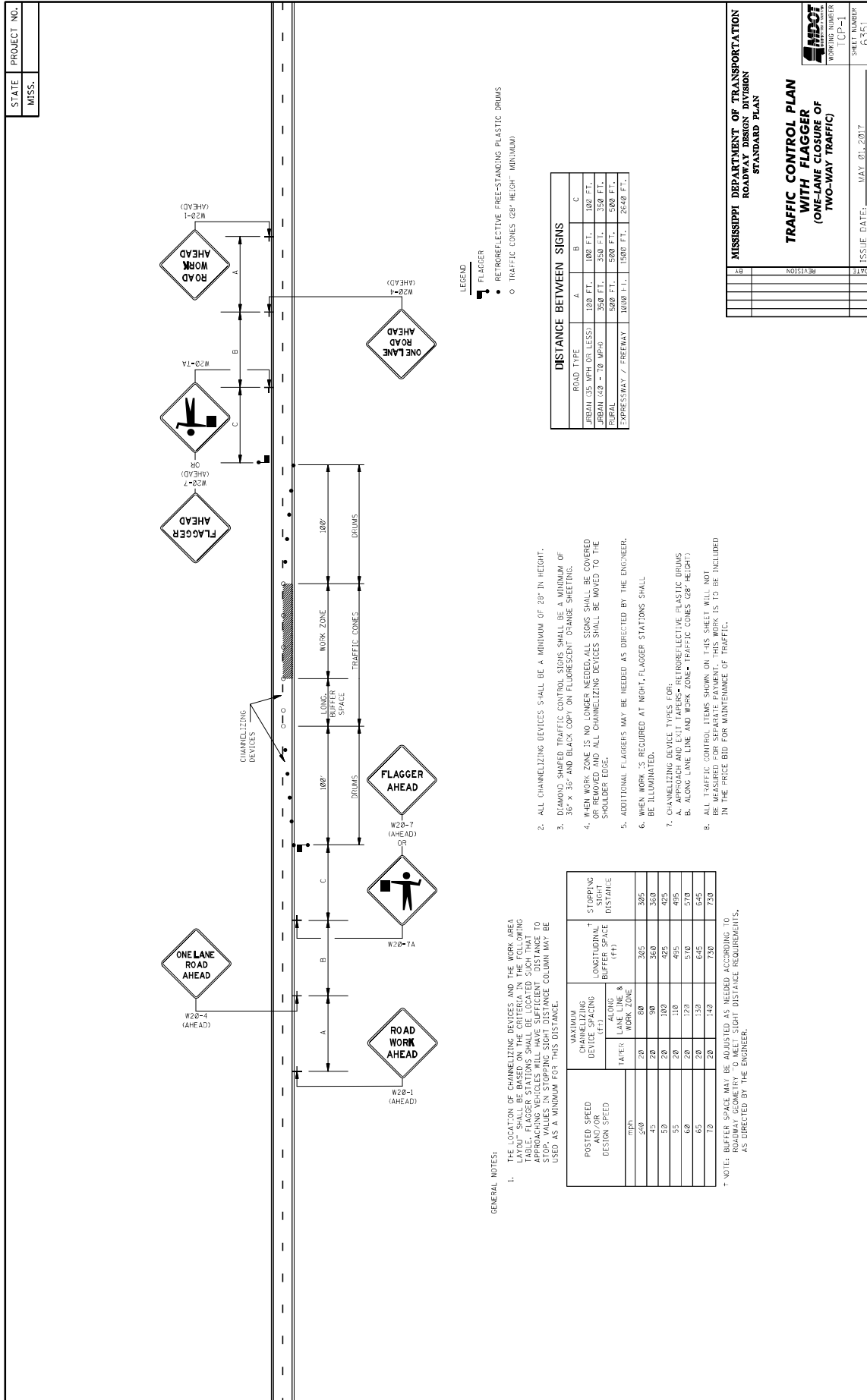


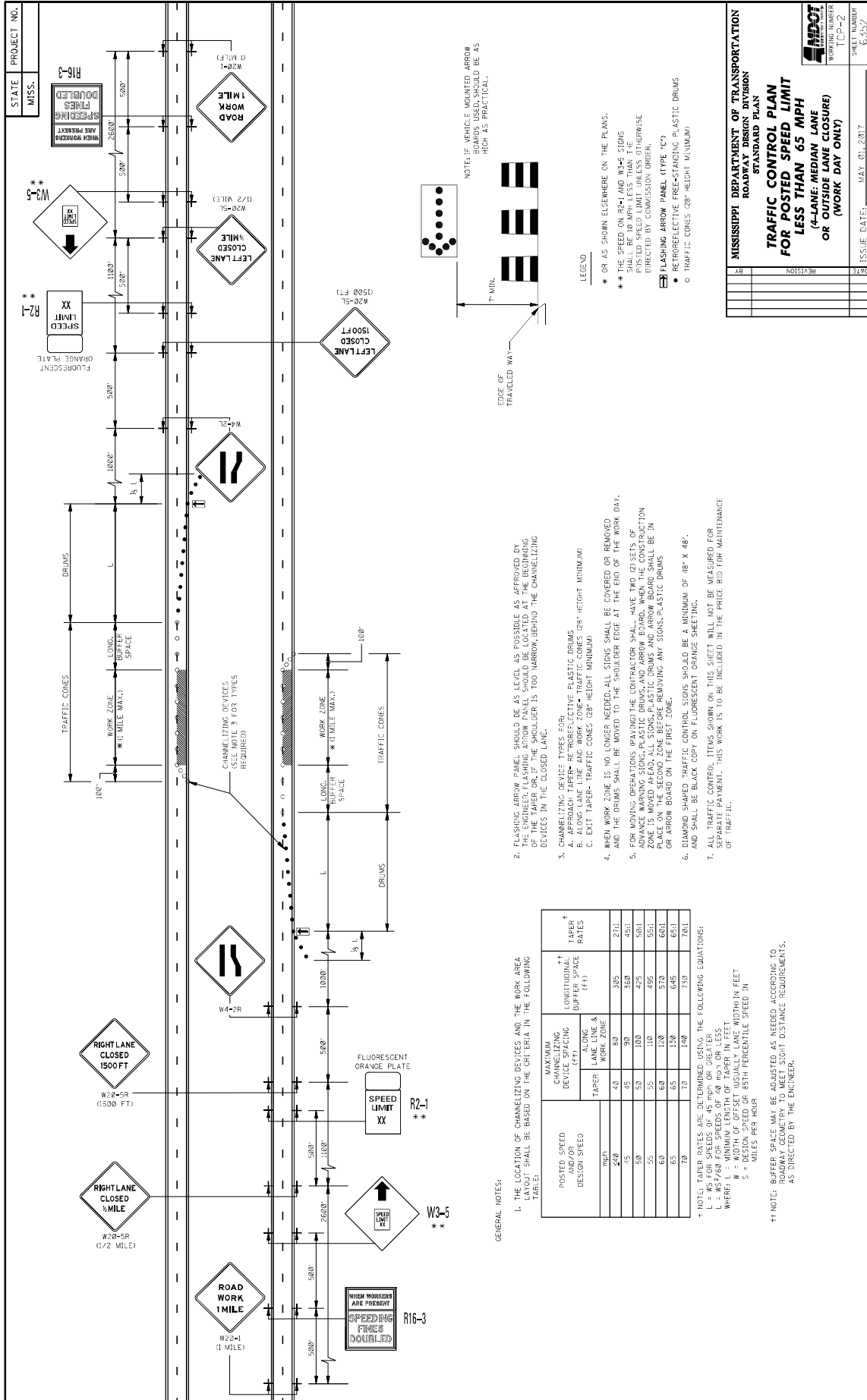


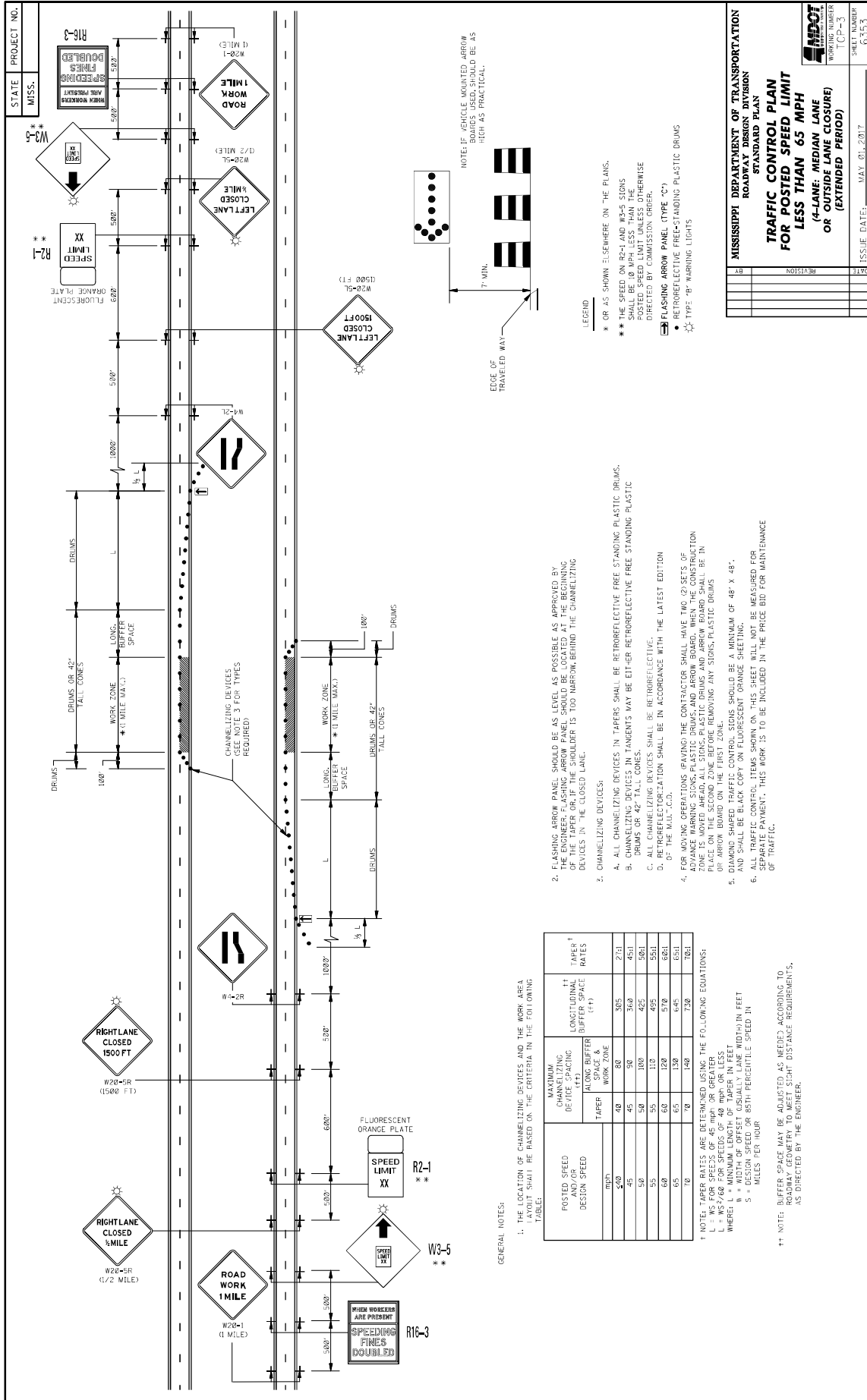


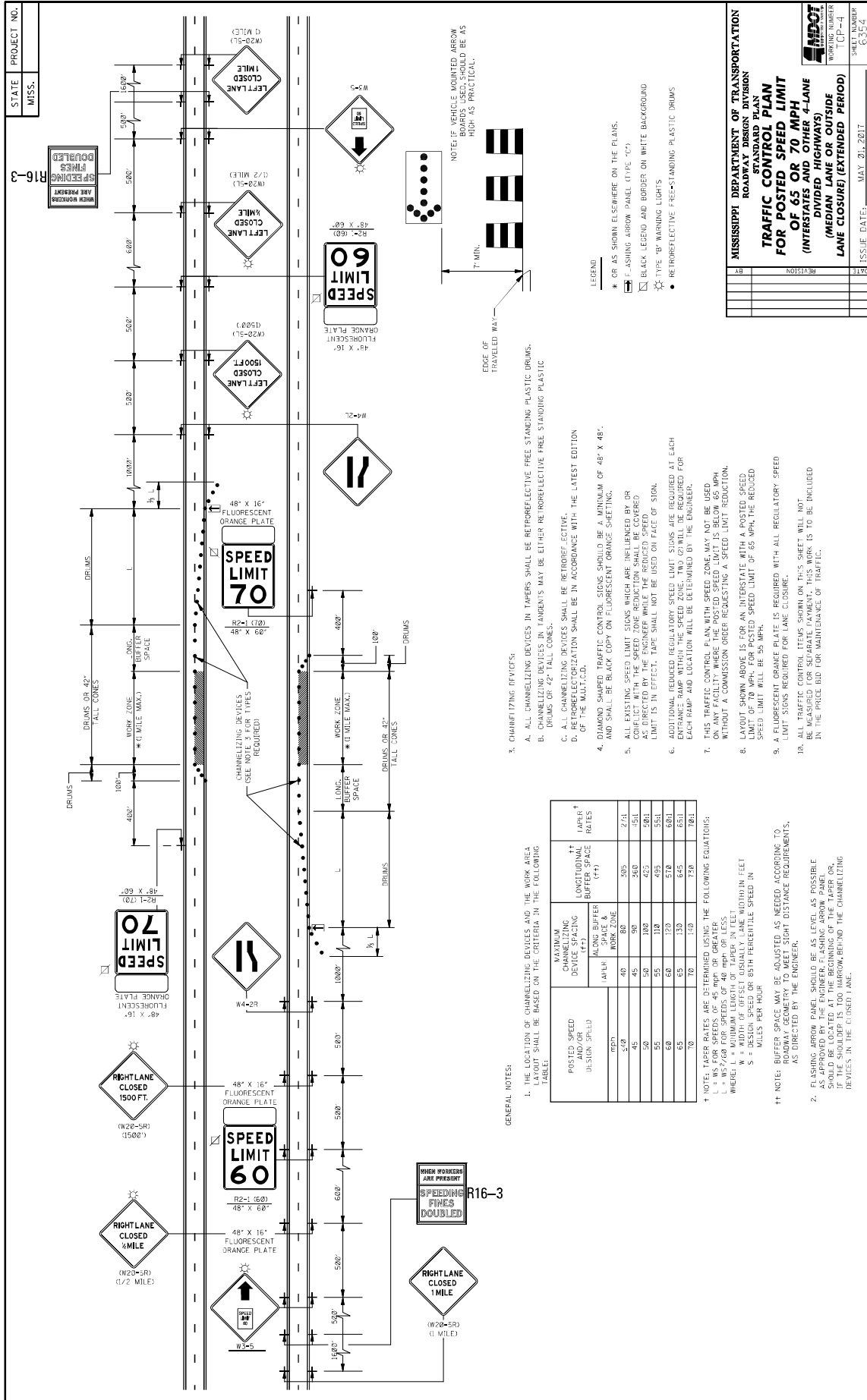


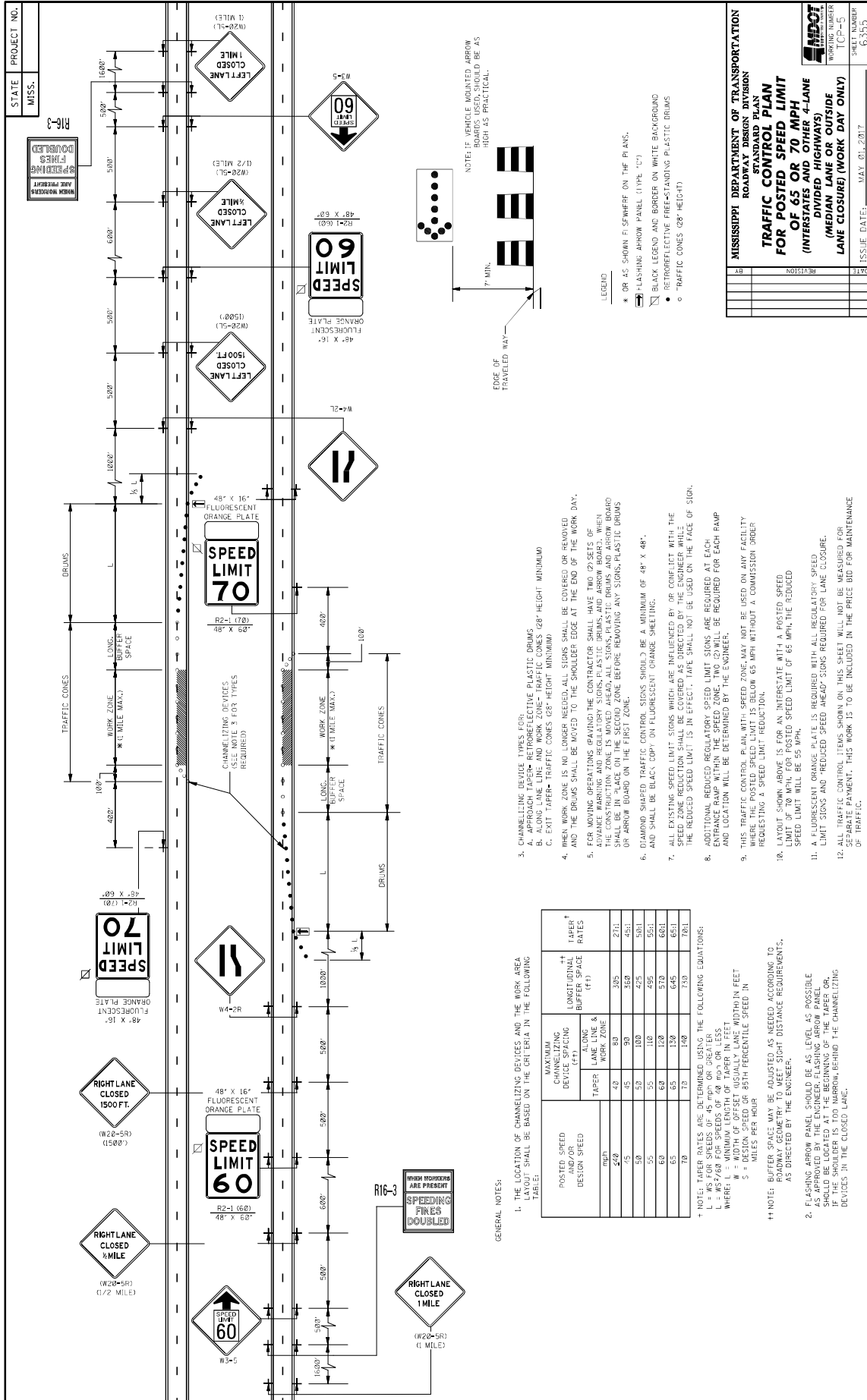












STATE PROJECT NO.
MISS.

WORKING NUMBER
ICP-5

SHEET NUMBER
03500

WING BARRICADES

- WING BARRICADES ARE TYPE II BARRICADES ERECTED ON THE SHOULDER OF A ROADWAY OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
- WING BARRICADES SHOULD BE USED:
 - IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
 - IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.

BARRICADE CLOSING A ROAD

| | I | II | III |
|---|------------------------|------------------------|---|
| WIDTH OF RAIL ** | 8" MIN. - 12" MAX. | 8" MIN. - 12" MAX. | 8" MIN. - 12" MAX. |
| LENGTH OF RAIL ** | 24' MIN. | 24' MIN. | 48' MIN. |
| WIDTH OF STRIPE * | 6" | 6" | 6" |
| HEIGHT | 36" MIN. | 36" MIN. | 60" MIN. |
| NUMBER OF RETROREFLECTORIZED RAIL FACES | 2 (ONE EACH DIRECTION) | 4 (TWO EACH DIRECTION) | 3 IF FACING TRAFFIC IN ONE DIRECTION 4 IF FACING TRAFFIC IN TWO DIRECTIONS |

BARRICADE CHARACTERISTICS

* 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.

** 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS AND OTHER HIGH SPEED ROADWAYS, SHALL HAVE A MINIMUM OF 270' OF REFLECTIVE AREA FACING TRAFFIC.

STANDARD BARRICADES

- THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION OF TRAFFIC IS TO PASS).
- RAIL STRIPE SHALL BE 6 INCHES, EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES.
- DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
- FOR ADDITIONAL INFORMATION OR DETAILS, SEE METHOD, LATEST EDITION.
- BARRICADES ARE CLASSIFIED BY FHWA AS CATEGORY II WHEN DEVICES WHICH REQUIRE SUCCESSFULLY CRASH TESTED. A LIST OF CRASHWORTHY BARRICADES AND OTHER CATEGORY II DEVICES CAN BE FOUND ON FHWA'S WEBSITE: http://safety.fhwa.dot.gov/roadway_dept/pafety_guidance/road_hardware/cat2.cfm

CHEVRON SIGN DETAIL

- A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
- THE CHEVRON SIGN SHALL BE MOUNTED ON CRASHWORTHY SUPPORT.
- CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHOULD BE PLACED APPROXIMATELY 2' 40" BEHIND THE LANE TRANSITION STRIPE.

PLASTIC DRUM STRIPING DETAIL

- PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH MARKING STRIPES. THE STRIPING COLOR OF DRUMS SHALL BE WHITE. STRIPES SHALL BE RETROREFLECTIVE, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
- DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
- WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.

TYPE 3 OBJECT MARKER (OM-3R)

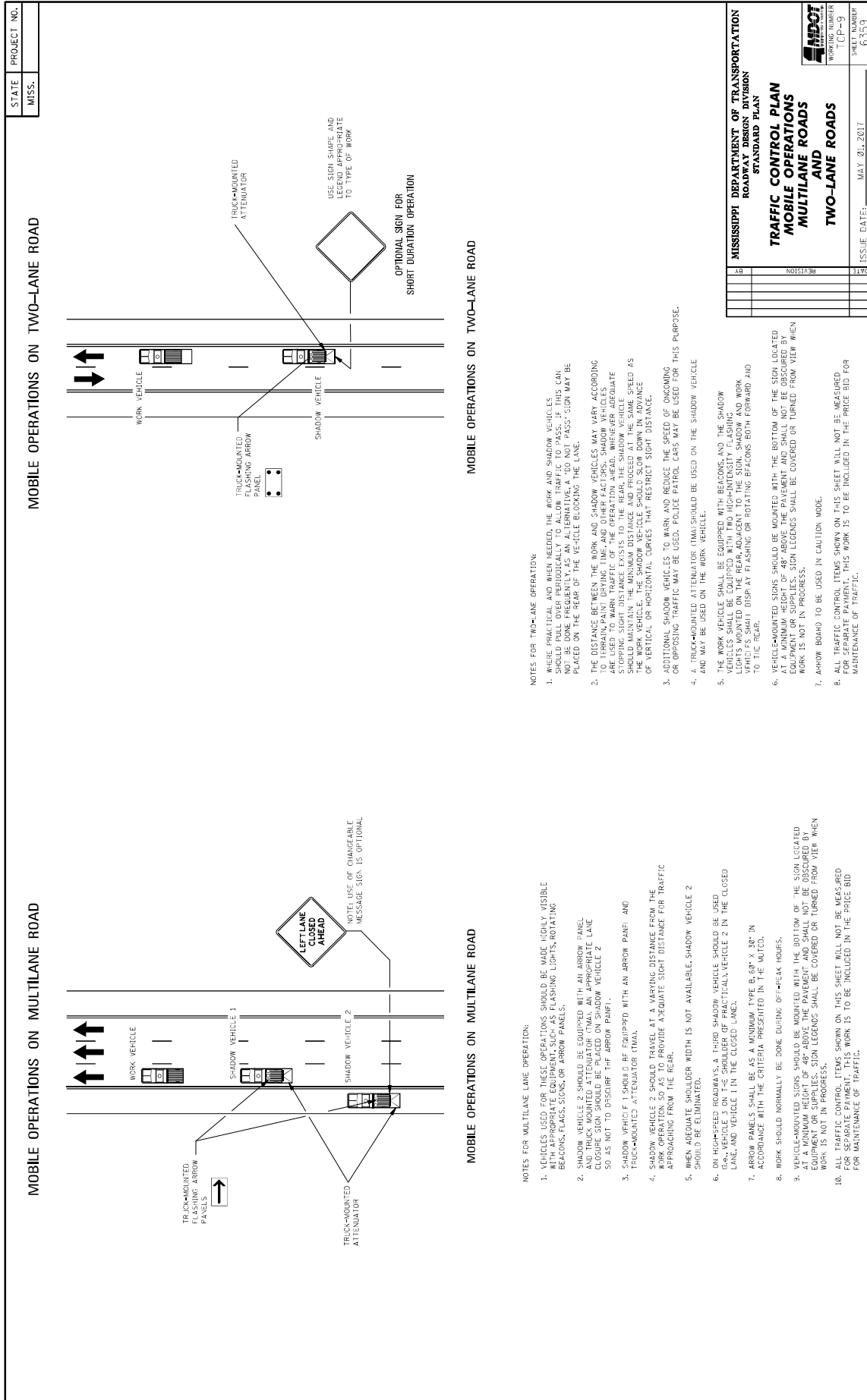
- TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DETERMINED NECESSARY BY THE ENGINEER.
- THE OM-3R IS SIMILAR EXCEPT THE STRIPES SLOPE DOWNWARD FROM THE UPPER LEFT SIDE TO THE LOWER RIGHT SIDE AND SHALL BE PLACED ON THE LEFT SIDE OF THE OBJECT.
- THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

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

HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

| DATE | REVISION |
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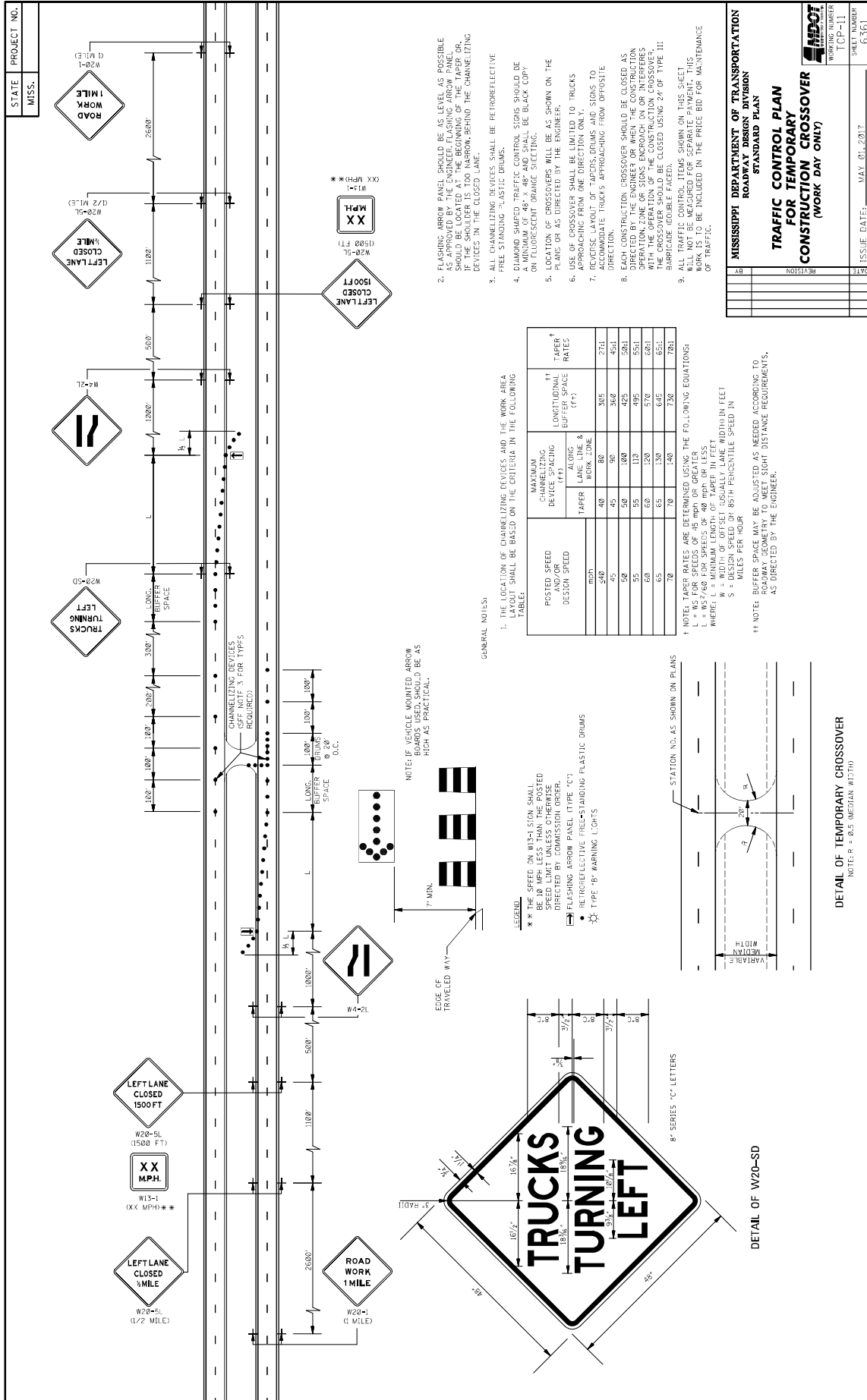
ISSUE DATE: MAY 20, 2017



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

MOBILE OPERATIONS ON TWO-LANE ROAD

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| MISSISSIPPI DEPARTMENT OF TRANSPORTATION | |
| ROADWAY DESIGN DIVISION | |
| STANDARD PLAN | |
| TRAFFIC CONTROL PLAN | |
| MOBILE OPERATIONS | |
| MULTILANE ROADS | |
| TWO-LANE ROADS | |
| ISSUE DATE: | MAY 01, 2017 |
| SHEET NUMBER | CP-9 |
| WORKING NUMBER | 6359 |



STATE PROJECT NO.
MISS.

W20-1 (1 MILE)
ROAD WORK 1 MILE

W20-5L (1/2 MILE)
LEFT LANE CLOSED 1/2 MILE

W4-2L
TRUCKS TURNING LEFT

W20-5D
LONG BUFFER SPACE

W20-5L (1500 FT)
LEFT LANE CLOSED 1500 FT

W13-1 (XX MPH) **
XX MPH

W20-5L (1/2 MILE)
LEFT LANE CLOSED 1/2 MILE

W20-1 (1 MILE)
ROAD WORK 1 MILE

W20-5L (1500 FT)
LEFT LANE CLOSED 1500 FT

W13-1 (XX MPH) **
XX MPH

W4-2L
TRUCKS TURNING LEFT

W20-5L (1500 FT)
LEFT LANE CLOSED 1500 FT

W13-1 (XX MPH) **
XX MPH

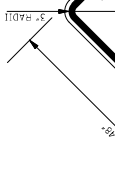
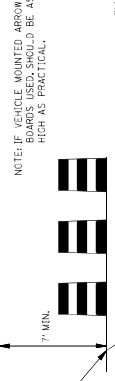
W20-5L (1/2 MILE)
LEFT LANE CLOSED 1/2 MILE

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA SET SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
2. 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.
3. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE BLACK COPY ON FLUORESCENT ORANGE SUCTING.
5. LOCATION OF CROSSOVERS WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. USE OF CROSSOVERS SHALL BE LIMITED TO TRUCKS APPROACHING FROM ONE DIRECTION ONLY.
7. REVERSE LAYOUT OF TAPERS, DRUMS AND SIGNS TO ACCOMMODATE TRUCKS APPROACHING FROM OPPOSITE DIRECTION.
8. EACH CONSTRUCTION CROSSOVER SHOULD BE CLOSED AS EARLY AS POSSIBLE AND KEPT CLOSED UNTIL THE OPERATION ZONE OF SIGNS ENOUGH ON OR INTERFERES WITH THE OPERATION OF THE CONSTRUCTION CROSSOVER. THE CROSSOVER SHOULD BE CLOSED USING 24" OF TYPE III RETROREFLECTIVE PLASTIC DRUMS.
9. 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.

GENERAL NOTES:
1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA SET SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

| POSTED SPEED AND/OR DESIGN SPEED | MAXIMUM CHANNELIZING DEVICES SPACING (FT) | LONGITUDINAL BUFFER SPACE (FT) | TAPER RATES |
|----------------------------------|---|--------------------------------|-------------|
| | | | |
| 50 | 40 | 80 | 305 |
| 55 | 45 | 90 | 362 |
| 60 | 50 | 100 | 425 |
| 65 | 55 | 110 | 495 |
| 70 | 60 | 120 | 570 |
| 75 | 65 | 130 | 645 |
| 80 | 70 | 140 | 720 |

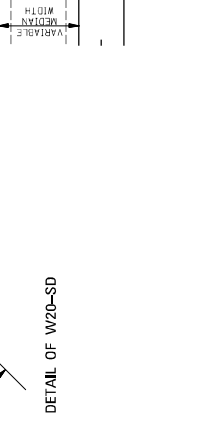
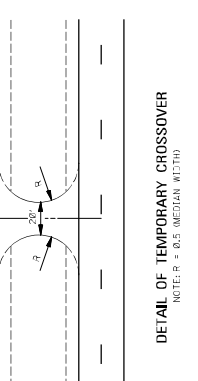
NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 $L = W \times S$
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 W = WIDTH OF OFFSET USUALLY LANE WIDTH IN FEET
 S = 85TH PERCENTILE SPEED IN MILES PER HOUR
 ** NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

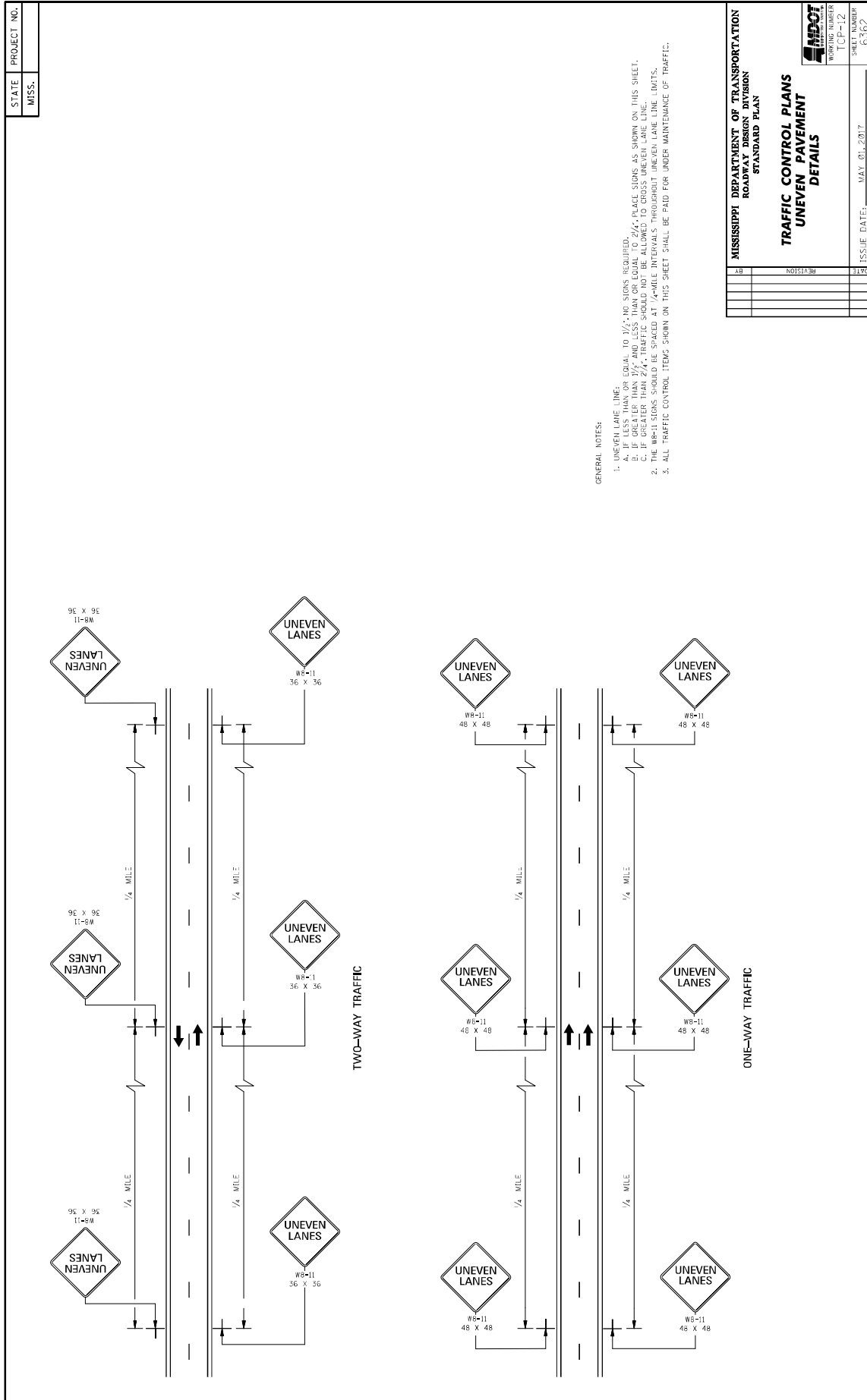


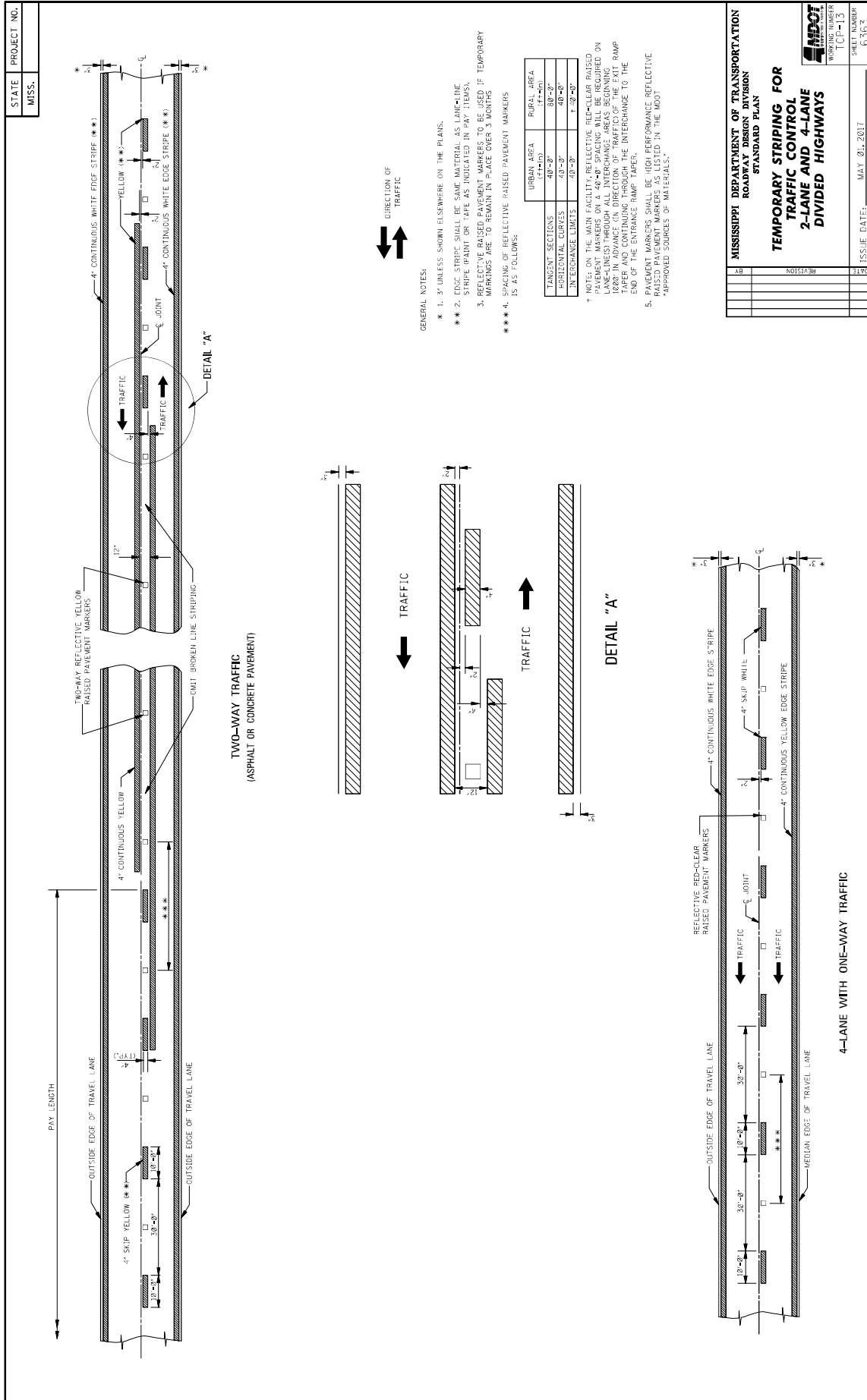
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN
**TRAFFIC CONTROL PLAN
 FOR TEMPORARY
 CONSTRUCTION CROSSOVER
 (WORK DAY ONLY)**

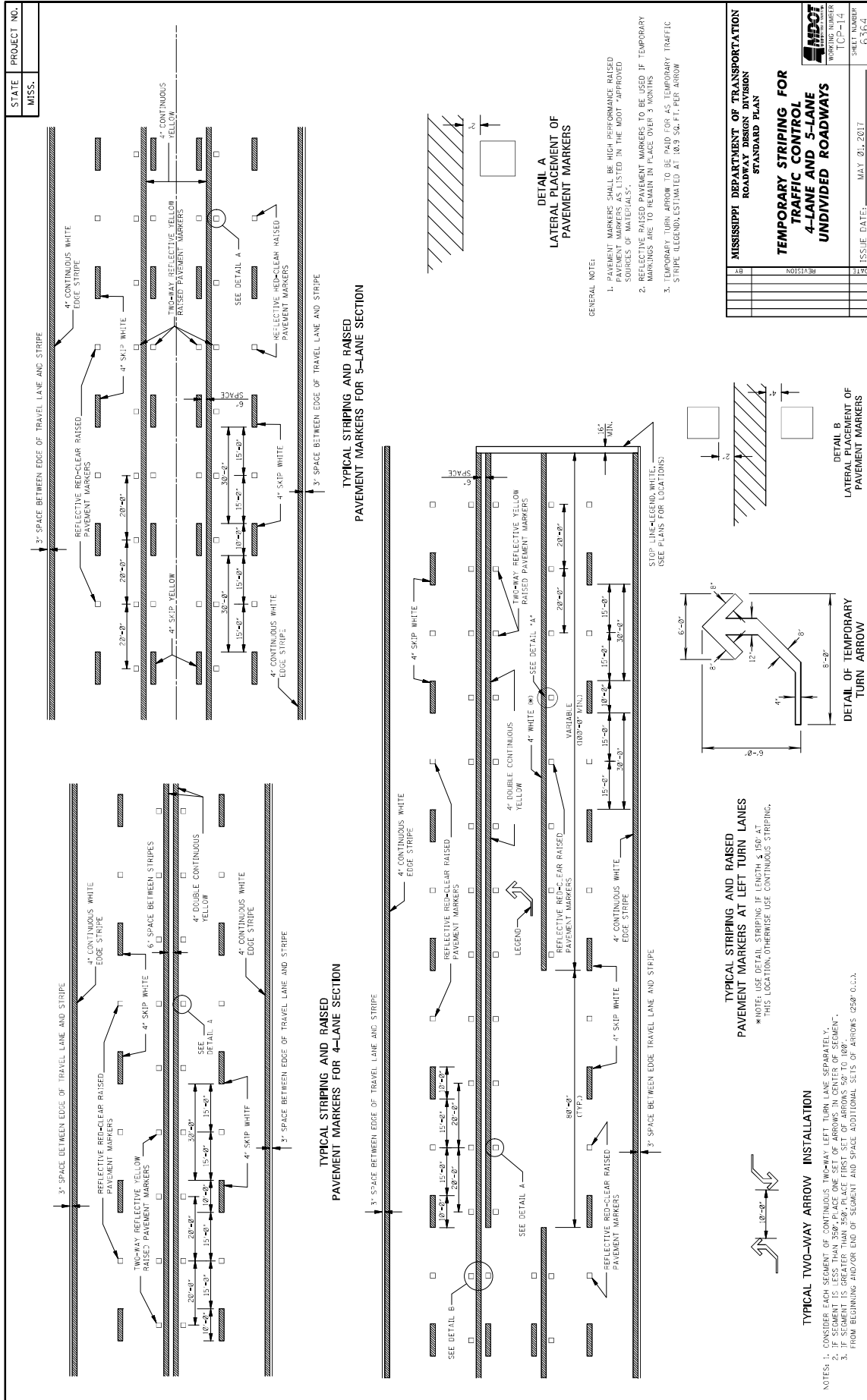
WORKING NUMBER: TSP-11
 SHEET NUMBER: 6361
 ISSUE DATE: MAY 01, 2017

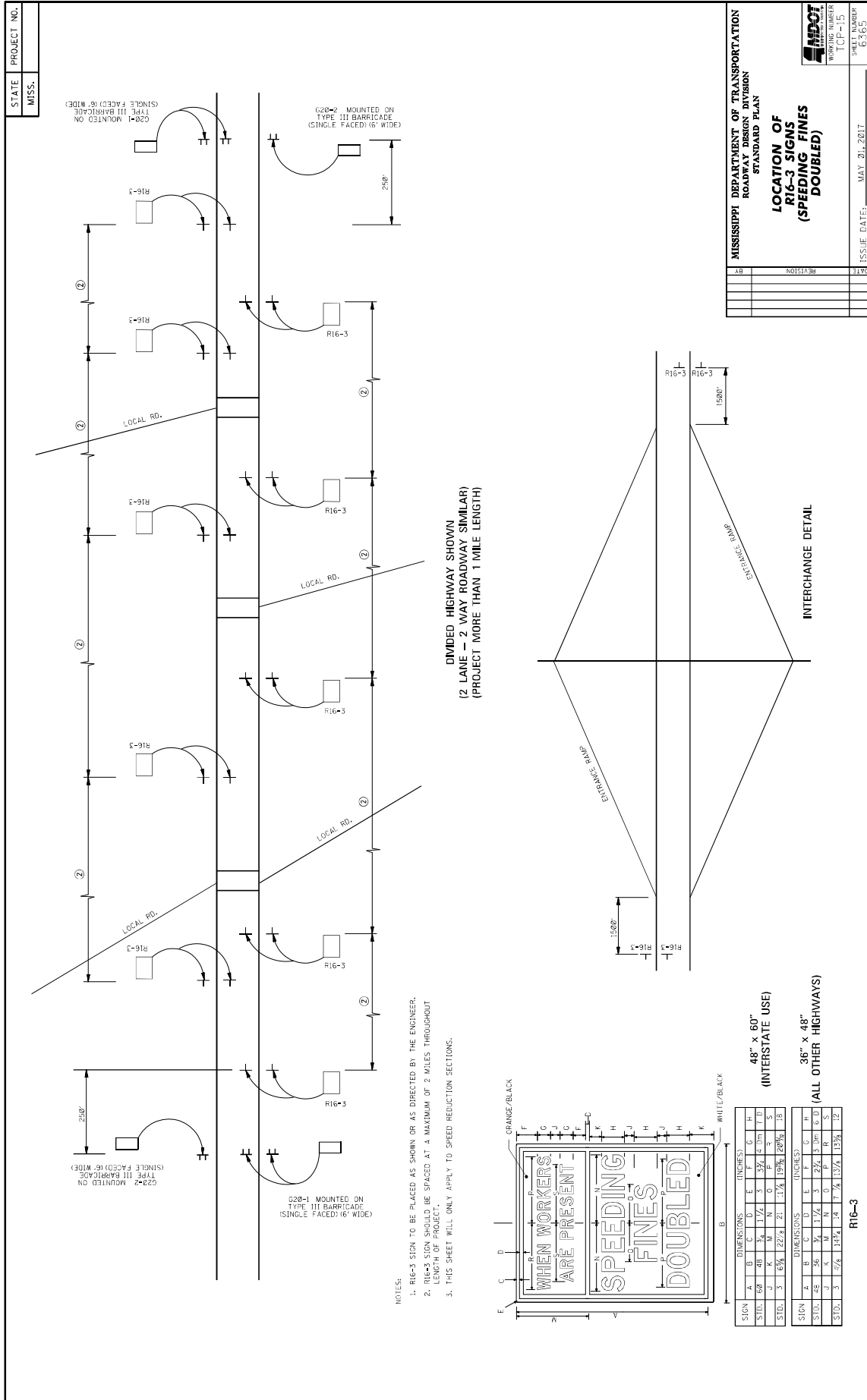
| REVISION | DATE | BY |
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STATE PROJECT NO.
MISS.

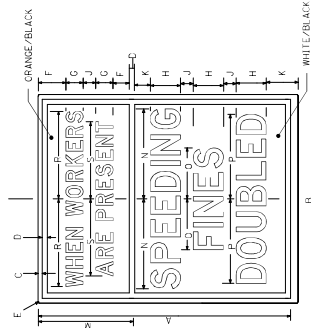
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

LOCATION OF R16-3 SIGNS (SPEEDING FINES DOUBLED)

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| DATE | REVISION |
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ISSUE DATE: MAY 21, 2017
DRAWING NUMBER: ICF-15
SHEET NUMBER: 6-163

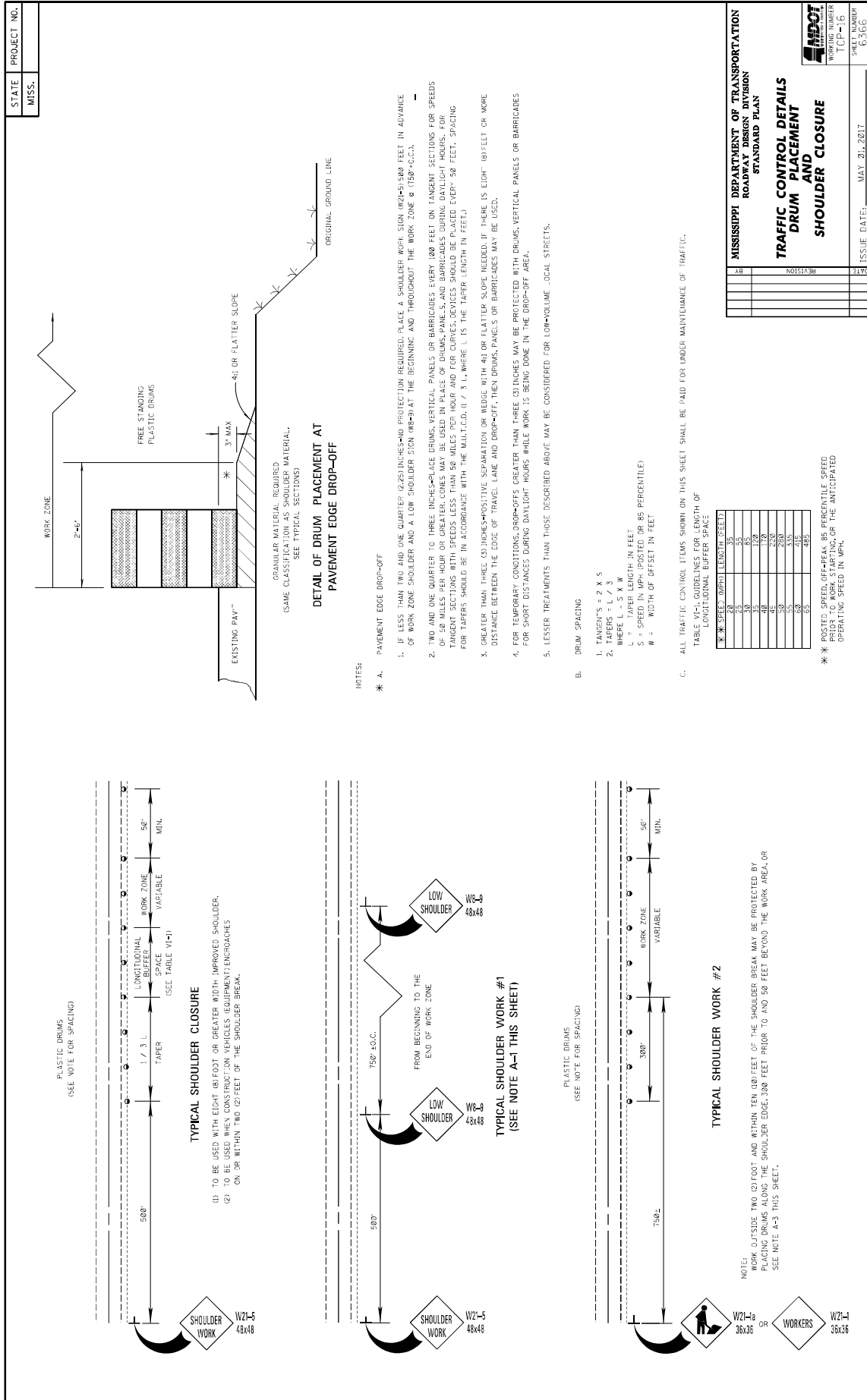
- NOTES:
1. R16-3 SIGN TO BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 2. R16-3 SIGN SHOULD BE SPACED AT A MAXIMUM OF 2 MILES THROUGHOUT LENGTH OF PROJECT.
 3. THIS SHEET WILL ONLY APPLY TO SPEED REDUCTION SECTIONS.



48" x 60" (INTERSTATE USE)

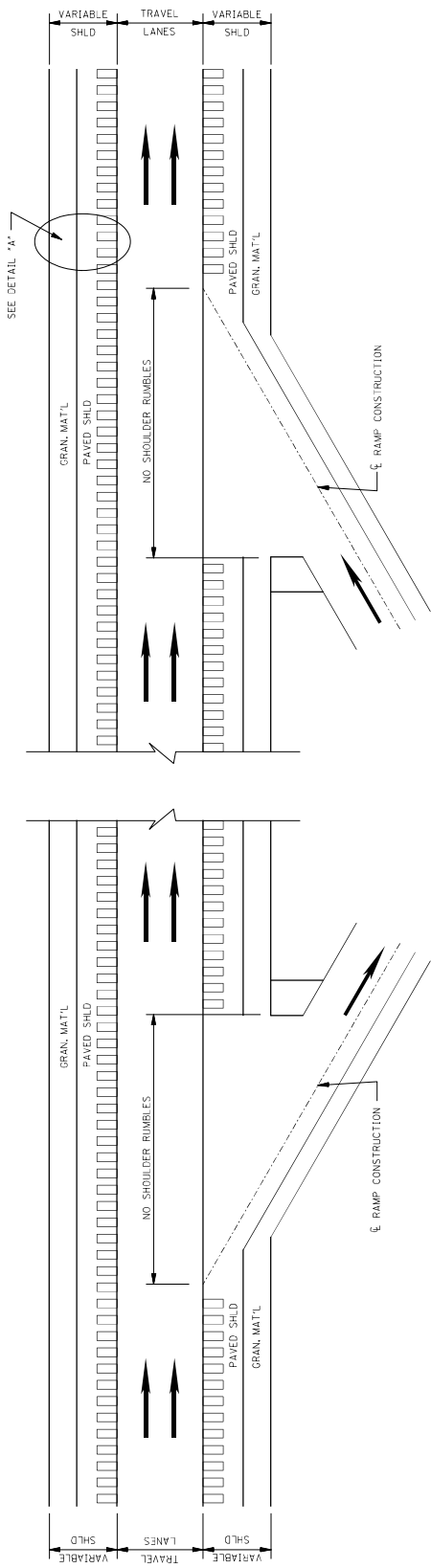
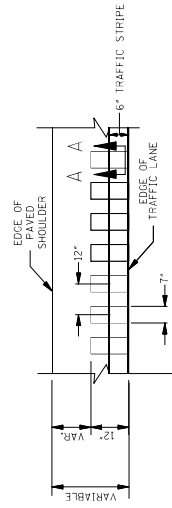
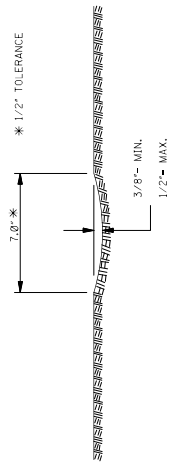
36" x 48" (ALL OTHER HIGHWAYS)

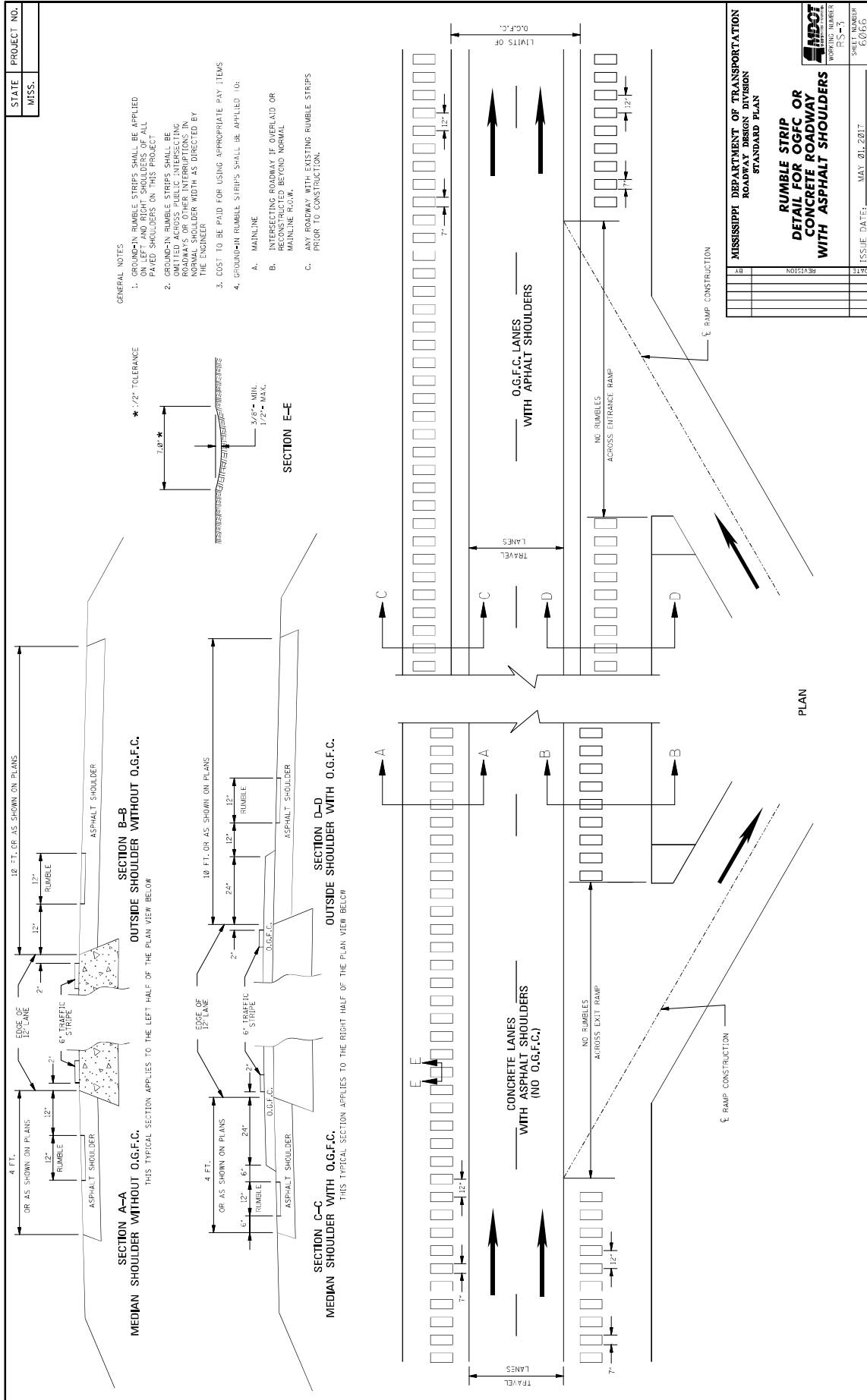
| SIGN | DIMENSIONS (INCHES) | | | | | | | | | | |
|------|---------------------|---|---|---|---|---|---|---|---|---|---|
| ST10 | A | B | C | D | E | F | G | H | I | J | K |
| ST11 | A | B | C | D | E | F | G | H | I | J | K |



GENERAL NOTES

1. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS AND ALL PAVED SHOULDERS ON THIS PROJECT.
2. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS ON INTERSECTING ROADWAYS AND OTHER INTERSECTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
3. COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS.
4. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO:
 - A. MAINLINE
 - B. INTERSECTING ROADWAY IF OVERLAP OR RECONSTRUCTED BEYOND NORMAL MAINLINE R.O.W.
 - C. ANY ROADWAY WITH EXISTING RUMBLE STRIPES PRIOR TO CONSTRUCTION.





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. 5412

CODE: (SP)

DATE: 10/17/2023

SUBJECT: Contract Time

PROJECT: SP-0059-03(103) / 109488301 – Lauderdale County

The calendar date for completion of work to be performed by the Contractor for this project shall be **December 18, 2023** which date or extended date as provided in Subsection 907-108.06 shall be the end of contract time. It is anticipated that the Notice of Award will be the day bids are received and the effective date of the Notice to Proceed / Beginning of Contract Time will be simultaneous with the execution of the contract.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 -NOTICE TO BIDDERS NO. 5413

CODE: (SP)

DATE: 10/02/2023

SUBJECT: Scope of Work

PROJECT: SP-0059-03(103) / 109488301 -- Lauderdale 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".

Minor changes in detail of design or construction procedure may be authorized by the Director of Structures, State Bridge Engineer provided such changes will not be cause for contract price adjustment. Work for which no pay item is provided will not be paid for directly and shall therefore be considered an absorbed item of work.

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

All details are based on the dimensions shown on the original plans for the existing structure. The Contractor shall be responsible for adjusting the elements of the new construction to ensure a proper fit with the existing structure. The Contractor shall verify all dimensions of the existing structure prior to beginning work.

During construction, care shall be exercised to ensure that no debris falls into 22nd Avenue Roadway crossings below the structure. All debris, including any material that has accumulated on the bridge deck or caps, shall become the property of the Contractor and shall be removed from the construction site and disposed of properly.

Work on the project shall consist of the following bridge repairs on Bridge 153.0B (12324) on I-59 over SR 145/22nd Avenue.

Scope of Work Bridge 153.0B (12324)

- Remove and replace portions of the bridge deck at locations specified in the Standard Drawings.
- Remove and replace preformed joint seals at End Bent No. 1.

Bridge Deck Removal & Replacement

Full depth removal of the bridge deck shall be performed in the locations detailed in the Drawings. All new concrete shall be high early strength concrete, Class "AA". The mixture design shall be furnished by the Contractor for approval by the Materials Division. Mixture design parameter are

as follows:

- a. Required Strength: 4,000 psi in 24 hours
- b. Total Air Content: 3-6%
- c. Maximum Slump: 6 inches

Non-chloride based accelerator may be used if the ambient temperature is 50 °F or less, but shall not be used if the ambient temperature is greater than 50 °F.

Synthetic structural fibers shall be used. The Contractor shall select a Manufacturer from MDOT's Approved Products List, and the Manufacturer's recommendations shall be followed for the dosage rate.

Curing is to be continuous until 2,500 psi is attained. Traffic shall be diverted from the repair area until this value is reached. The Contractor may use the maturity method per Section 907-804 to estimate the concrete compressive strength for the purposes of the in-place concrete shall be determined using eight concrete test cylinders, which shall be tested at 8, 16, and 24 hour intervals. The two remaining cylinders shall be used to determine the 28-day compressive strength of the concrete.

Prior to removing the section of bridge deck, all slab reinforcement within the limits of the removal section shall be located by the Contractor. A 1-inch saw cut shall be made around the perimeter of the removal area prior to the concrete removal. Care shall be exercised to protect the existing reinforcement from damage. Any reinforcement damaged during the concrete removal shall be repaired by the Contractor by a method approved by the Director of Structures, State Bridge Engineer at no additional cost to the State. All reinforcement to remain in place shall be blasted clean prior to pouring new concrete. Removal of concrete shall be performed with a handheld chipping hammer no larger than 30 lbs. All existing concrete surfaces that will be in contact with new concrete shall be painted with epoxy binder specifically designed to bond new concrete to old. The epoxy binder shall be applied per the manufacturer's specifications. New concrete shall be placed in one lift.

The surface finish of the repair location shall be broom finished in accordance with Subsection 501.03.18.2 of the Standard Specifications.

The cost of saw cutting around the removal area, removing concrete, cleaning existing reinforcement that is to remain, replacing concrete, labor and any other items of work necessary to complete the full depth slab removal and replacement that is detailed in the standard drawings shall be paid for under pay item no. 907-824-PP: Bridge Repair, Removal and Replacement of Bridge Deck.

Joint Sealing

Only the joints at End Bent No. 1 shall be repaired and resealed. The joint repair shall include removal of all existing joint material and installation of the performed joint seal and other necessary work per the included standard drawings or as instructed by the Engineer.

This item of work is to be paid for under pay item no. 907-808-A: Joint Repair.

After the existing joint material has been removed, the joints shall then be sealed by one of the three approved Manufacturers listed in Special Provisions 907-823 and installed according to the Manufacturer's specifications.

This item of work is to be paid for under pay item no. 907-823-A: Preformed Joint Seal, Type I.

Traffic Control Plan

The Contractor shall erect and maintain construction signing and provide all signs and traffic handling devices necessary to safely maintain traffic around or through the work areas in accordance with the Traffic Control Plan. Payment shall be included in the price bid for Pay item no. 618-A: Maintenance of Traffic.

STATE OF MISSISSIPPI
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF
PROPOSED STATE HIGHWAY
FEDERAL AID PROJECT NO. SP-0059-03(103)

I-20/59 over SR 145/22nd Ave (Bridge # 153.0B)
LAUDERDALE COUNTY

GENERAL INDEX

| | |
|--|-------------|
| INCLUDED PROJECT | BEGIN SHEET |
| <input checked="" type="checkbox"/> ROADWAY..... | 1 |
| <input type="checkbox"/> PERMANENT SIGNS..... | 1001 |
| <input type="checkbox"/> TRAFFIC SIGNALS..... | 2001 |
| <input type="checkbox"/> ITS COMPONENTS..... | 3001 |
| <input type="checkbox"/> LIGHTING..... | 4001 |
| <input type="checkbox"/> (RESERVED)..... | 5001 |
| <input checked="" type="checkbox"/> ROADWAY STD. DWGS..... | 6001 |
| <input type="checkbox"/> BOX CULVERT STD. DWGS (LRFD)..... | 7001 |
| <input type="checkbox"/> BOX CULVERT STD. DWGS (STD. SPEC.)..... | 7501 |
| <input checked="" type="checkbox"/> BRIDGE..... | 8001 |
| <input type="checkbox"/> CROSS SECTIONS..... | 9001 |

BRIDGE STRUCTURES REQ'D.

NONE

BOX BRIDGES REQ'D.

NONE



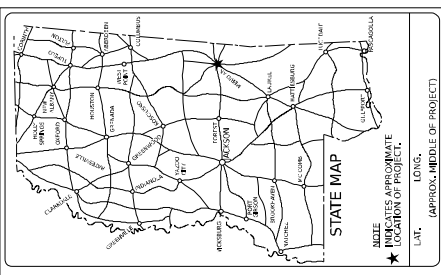
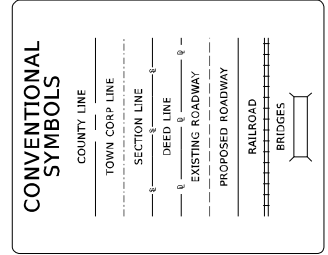
PLAN 1" = 100' FT.
PROFILE 1" = 10' FT.
LAYOUT 1" = 10' FT.

EXCEPTIONS

EQUATIONS

LENGTH DATA

| | | |
|---------------------------|-----|-----|
| LENGTH OF ROADWAY | FT. | MI. |
| LENGTH OF BRIDGES | FT. | MI. |
| LENGTH OF PROJECT (NET) | FT. | MI. |
| LENGTH OF EXCEPTIONS | FT. | MI. |
| LENGTH OF PROJECT (GROSS) | FT. | MI. |



DESIGN CONTROL
MPH : ADT : % DHW : % T : %

PERMITS ACQUIRED BY MDOT

WETLANDS AND WATERS PERMITS/ WATERS WETLANDS

NATIONWIDE #14 : []

NATIONWIDE (OTHER)* : []

GENERAL* : []

INDIVIDUAL (404)* : []

STORMWATER PERMIT : []

REQUIRED, CNOI SUBMITTED BY MDOT : []

REQUIRED, SCNOI TO BE SUBMITTED BY S CONTRACTOR (1 TO 4.99 ACRES) : []

NO STORMWATER PERMIT REQUIRED (<1 ACRE) : []

APPROVED BY: _____

DESIGNED BY: WALDON

CONSTRUCTION PROJECT DATA

EXTERNAL PROJECT NUMBER: SP-0059-03(103)

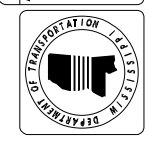
FMS & DETAIL: 109488/201000

P S & E DATE: 9/26/2023

APPROVED:

DEPUTY EXECUTIVE DIRECTOR / CHIEF ENGINEER

EXECUTIVE DIRECTOR





DESIGNED BY: WALDON
 CHECKED BY:
 DATE:

FMS CN: 109488/301000
 PROJECT NO.: SP-0059-03(13)
 COUNTY: LAUDERDALE

TRAFFIC CONTROL SIGNS
 3 -- Co
 NOTICE TO CONTRACTORS

WV-MO-TCP-01
 SHEET NO. 5

| SIGNS REQUIRED (CONT'D) | | | |
|---|-----------------|----------------------------|--------------------------------|
| SIGN NO. | SIZE | UNIT AREA REQ'D. AREA FTY. | REMARKS |
| W8-7 | 48" X 48" | 16.00 * | LOOSE GRAVEL |
| W8-9 | 48" X 48" | 16.00 * | LOW SHOULDER |
| W8-11 | 36" X 36" | 9.00 | UNEVEN LANES |
| W8-12 | 48" X 48" | 16.00 * | NO CENTER STRIPE |
| ① W10-1 | 36" DIA. | 7.07 | |
| ② W10-1 | 48" DIA. | 12.56 * | |
| ① W13-1 | 24" X 24" | 4.00 | XX MPH |
| ② W14-3 | 36" X 48" X 48" | 5.56 | NO PASSING ZONE |
| ② W14-3 | 48" X 48" X 64" | 9.00 | XXX FEET |
| ② W16-2 | 24" X 18" | 3.00 | BRIDGE MAY ICE IN COLD WEATHER |
| ① W19-2 | 48" X 48" | 16.00 * | ADVANCE ROAD WORK |
| ② W20 - 1 | 36" X 36" | 9.00 | |
| W20 - 2 | 48" X 48" | 16.00 * | ADVANCE DETOUR |
| W20 - 3 | 48" X 48" | 16.00 * | ROAD CLOSED |
| W20 - 4 | 48" X 48" | 16.00 * | ADVANCE ROAD CLOSED |
| W20 - 4b | 48" X 48" | 16.00 * | ADVANCE ROAD CLOSED |
| W20 - 5L | 48" X 48" | 16.00 * | ADVANCE ROAD CLOSED |
| W20 - 5R | 48" X 48" | 16.00 * | ADVANCE ROAD CLOSED |
| W20 - 7a | 48" X 48" | 16.00 * | RT. LANE CLOSED |
| W21 - 1 | 36" X 36" | 9.00 | WORKERS |
| W21 - 1a | 36" X 36" | 9.00 | WORKERS |
| W21 - 2 | 36" X 36" | 9.00 | FRESH SURFACE |
| W21 - 3 | 48" X 48" | 16.00 * | ADVANCE ROAD CLOSED |
| W21 - 5 | 48" X 48" | 9.00 | ADVANCE ROAD CLOSED |
| W21 - 6 | 36" X 36" | 16.00 * | SURVEY CREW |
| W24-1L | 48" X 48" | 16.00 * | |
| W24-1R | 48" X 48" | 16.00 * | |
| W24-1aL | 48" X 48" | 16.00 * | |
| W24-1aR | 48" X 48" | 16.00 * | |
| W24-1bL | 48" X 48" | 16.00 * | |
| W24-1bR | 48" X 48" | 16.00 * | |
| VP-4L | 12" X 36" | 3.00 | |
| VP-4R | 12" X 36" | 3.00 | |
| ⑤ OM-3L | 12" X 36" | 3.00 | PAVEMENT NARROWERS |
| ⑤ OM-3R | 12" X 36" | 3.00 | |
| TOTAL SIGN AREA LESS THAN 10 SQ. FT. 48 SQ. FT. | | | |
| TOTAL SIGN AREA GREATER THAN 10 SQ. FT. 119.25SQ. FT. | | | |

| SIGNS REQUIRED (CONT'D) | | | |
|-------------------------|-----------|----------------------------|---------|
| SIGN NO. | SIZE | UNIT AREA REQ'D. AREA FTY. | REMARKS |
| W1 - 1L | 48" X 48" | 16.00 * | |
| W1 - 1R | 48" X 48" | 16.00 * | |
| W1 - 2L | 48" X 48" | 16.00 * | |
| W1 - 2R | 48" X 48" | 16.00 * | |
| W1 - 3L | 48" X 48" | 16.00 * | |
| W1 - 3R | 48" X 48" | 16.00 * | |
| W1 - 4aL | 48" X 48" | 16.00 * | |
| W1 - 4aR | 48" X 48" | 16.00 * | |
| W1 - 5L | 48" X 48" | 16.00 * | |
| W1 - 5R | 48" X 48" | 16.00 * | |
| ① W1 - 6L | 48" X 24" | 9.00 | |
| ② W1 - 6L | 60" X 30" | 12.50 * | |
| ① W1 - 6R | 48" X 24" | 9.00 | |
| ② W1 - 6R | 60" X 30" | 12.50 * | |
| ① W1 - 7 | 48" X 24" | 9.00 | |
| ② W1 - 7 | 60" X 30" | 12.50 * | |
| ① W1 - 8L | 18" X 24" | 3.00 | |
| ② W1 - 8L | 36" X 48" | 12.00 * | |
| ① W1 - 8R | 18" X 24" | 3.00 | |
| ② W1 - 8R | 36" X 48" | 12.00 * | |
| W1-9L | 48" X 48" | 16.00 * | |
| W1-9R | 48" X 48" | 16.00 * | |
| W2-6 | 36" X 36" | 9.00 | |
| W3-2a | 48" X 48" | 16.00 * | |
| W3-3 | 48" X 48" | 16.00 * | |
| W3-5 | 48" X 48" | 16.00 * | |
| W4-1L | 48" X 48" | 16.00 * | |
| W4-1R | 48" X 48" | 16.00 * | |
| W4-2L | 48" X 48" | 16.00 * | |
| W4-2R | 48" X 48" | 16.00 * | |
| W4-3L | 48" X 48" | 16.00 * | |
| W4-3R | 48" X 48" | 16.00 * | |
| W4-6 | 48" X 48" | 16.00 * | |
| W5-1a | 48" X 48" | 16.00 * | |
| W6-1 | 48" X 48" | 16.00 * | |
| W6-2 | 48" X 48" | 16.00 * | |
| W6-3 | 48" X 48" | 16.00 * | |
| W8-4 | 48" X 48" | 16.00 * | |
| W8-6 | 48" X 48" | 16.00 * | |
| | | | |

| SIGNS REQUIRED (CONT'D) | | | |
|-------------------------|-----------------|----------------------------|-------------------------------------|
| SIGN NO. | SIZE | UNIT AREA REQ'D. AREA FTY. | REMARKS |
| ① R1 - 1 | 36" OCTAGON | 7.46 | STOP |
| ② R1 - 1 | 48" OCTAGON | 13.25 | STOP |
| ② R1 - 2 | 36" X 36" X 36" | 3.90 | YIELD |
| ① R1 - 2 | 48" X 48" X 48" | 6.93 | YIELD |
| ① R1 - 2 | 60" X 60" X 60" | 10.83 * | YIELD |
| ① R1 - 3 | 18" X 9" | 1.13 | 3-WAY 4-WAY, ETC. |
| ② R1 - 3 | 24" X 12" | 2.00 | |
| ① R2-1 | 24" X 30" | 5.00 | SPEED LIMIT |
| ② R2-1 | 36" X 48" | 12.00 * | |
| ⑤ R2-1 | 48" X 60" | 20.00 * | SPEED LIMIT |
| ① R3-1 | 36" X 36" | 9.00 | |
| ② R3-1 | 48" X 48" | 16.00 * | |
| ① R3-2 | 36" X 36" | 9.00 | |
| ② R3-2 | 48" X 48" | 16.00 * | |
| ① R3-4 | 36" X 36" | 9.00 | |
| ② R3-4 | 48" X 48" | 16.00 * | |
| R3-5L | 30" X 36" | 7.50 | ONLY |
| R3-5R | 30" X 36" | 7.50 | |
| R3-6L | 30" X 36" | 7.50 | ONLY |
| R3-6R | 30" X 36" | 7.50 | |
| R3-7L | 30" X 30" | 6.25 | LEFT LANE MUST TURN LEFT |
| R3-7R | 30" X 30" | 6.25 | |
| ① R4-1 | 24" X 30" | 5.00 | DO NOT PASS |
| ② R4-1 | 48" X 60" | 20.00 * | |
| ① R4-2 | 24" X 30" | 5.00 | PASS WITH CARE |
| ② R4-2 | 48" X 60" | 20.00 * | |
| R4-7 | 48" X 60" | 20.00 * | |
| R4-8 | 48" X 60" | 20.00 * | |
| R5-1a | 48" X 48" | 16.00 * | DO NOT ENTER |
| R5-1b | 42" X 30" | 8.75 | |
| R6-1L | 36" X 12" | 3.00 | WRONG WAY |
| R6-1R | 36" X 12" | 3.00 | |
| R6-2L | 24" X 30" | 5.00 | ONE WAY |
| R6-2R | 24" X 30" | 5.00 | |
| R11-2 | 48" X 30" | 16.00 * | ROAD CLOSED |
| R11-3a | 60" X 30" | 12.50 * | |
| R11-3b | 60" X 30" | 12.50 * | ROAD CLOSED |
| R11-4 | 60" X 30" | 12.50 * | |
| R12-1 | 36" X 48" | 12.00 * | ROAD CLOSED |
| R16-3 | 36" X 48" | 12.00 * | |
| ⑦ R16-3 | 48" X 60" | 20.00 * | WHEN WORKERS SPEEDING FINES DOUBLED |

| SIGNS REQUIRED | | | |
|----------------|-----------|----------------------------|-------------------------|
| SIGN NO. | SIZE | UNIT AREA REQ'D. AREA FTY. | REMARKS |
| G20 - 1 | 60" X 24" | 10.00 * | ROAD WORK NEXT XX MILES |
| G20 - 2 | 48" X 24" | 6 | END ROAD WORK |
| G20 - 4 | 36" X 18" | 4.50 | PILOT CAR FOLLOW |
| ① M1 - 1 | 24" X 24" | 4.00 | 1 OR 2 DIGIT |
| ② M1 - 1 | 30" X 24" | 5.00 | 3 DIGIT |
| ② M1 - 4 | 24" X 24" | 4.00 | 1 OR 2 DIGIT |
| ② M1 - 4 | 30" X 24" | 5.00 | 3 DIGIT |
| ③ M1 - 5 | 30" X 24" | 5.00 | 1 OR 2 DIGIT |
| ④ M3 - 1 | 24" X 12" | 2.00 | 3 DIGIT |
| ④ M3 - 1 | 30" X 15" | 3.13 | 3 DIGIT |
| ④ M3 - 2 | 24" X 12" | 2.00 | NORTH - 1 OR 2 DIGIT |
| ④ M3 - 2 | 30" X 15" | 3.13 | NORTH - 1 OR 2 DIGIT |
| ④ M3 - 3 | 24" X 12" | 2.00 | EAST - 1 OR 2 DIGIT |
| ④ M3 - 3 | 30" X 15" | 3.13 | EAST - 1 OR 2 DIGIT |
| ④ M3 - 4 | 24" X 12" | 2.00 | WEST - 1 OR 2 DIGIT |
| ④ M3 - 4 | 30" X 15" | 3.13 | WEST - 1 OR 2 DIGIT |
| M4 - 8 | 24" X 12" | 2.00 | DIGIT RATE MARKER |
| M4 - 8 | 30" X 15" | 3.13 | DIGIT RATE MARKER |
| M4 - 9 | 48" X 36" | 12.00 * | DETOUR ↑ |
| M4 - 9L | 48" X 36" | 12.00 * | DETOUR ← |
| M4 - 9R | 48" X 36" | 12.00 * | DETOUR ↗ |
| M4 - 9SL | 48" X 36" | 12.00 * | DETOUR ↘ |
| M4 - 9SSL | 48" X 36" | 12.00 * | DETOUR ↙ |
| M4 - 9BSL | 48" X 36" | 12.00 * | DETOUR ↖ |
| M4 - 9BR | 48" X 36" | 12.00 * | DETOUR ↗ |
| M4 - 9BSR | 48" X 36" | 12.00 * | DETOUR ↘ |
| M4 - 10L | 48" X 18" | 6.00 | DETOUR ↖ |
| M4 - 10R | 48" X 18" | 6.00 | DETOUR ↗ |
| M4 - 5 | 24" X 12" | 2.00 | TO |
| M5 - 1R | 21" X 15" | 2.19 | ↑ |
| M5 - 2L | 21" X 15" | 2.19 | ↖ |
| M5 - 2R | 21" X 15" | 2.19 | ↗ |
| M6 - 1L | 21" X 15" | 2.19 | ← |
| M6 - 1R | 21" X 15" | 2.19 | → |
| M6 - 2L | 21" X 15" | 2.19 | ↖ |
| M6 - 2R | 21" X 15" | 2.19 | ↗ |
| M6 - 3 | 21" X 15" | 2.19 | ↑ |

NOTES

- ① STANDARD
 - ② SPECIAL (USE WHERE WARRANTED)
 - ③ INTERSTATE ROUTE MARKER
 - ④ STATE ROUTE MARKER
 - ⑤ COLORS OF CARDINAL DIRECTION MARKERS AND DIRECTIONAL ROUTE MARKERS.
 - ⑥ BLACK STRIPES ON YELLOW BACKGROUND
 - ⑦ INTERSTATE USE ONLY
 - ⑧ TOP OF SIGN - BLACK LETTERING ON ORANGE BACKGROUND.
 - ⑨ BOTTOM OF SIGN - BLACK LETTERING ON WHITE BACKGROUND.
- THE BACKGROUND OF ALL WARNING SIGNS ("W" SERIES) EXCEPT W10-1 SHALL BE ORANGE. THE W10-1 BACKGROUND SHALL BE YELLOW IN ALL CASES.



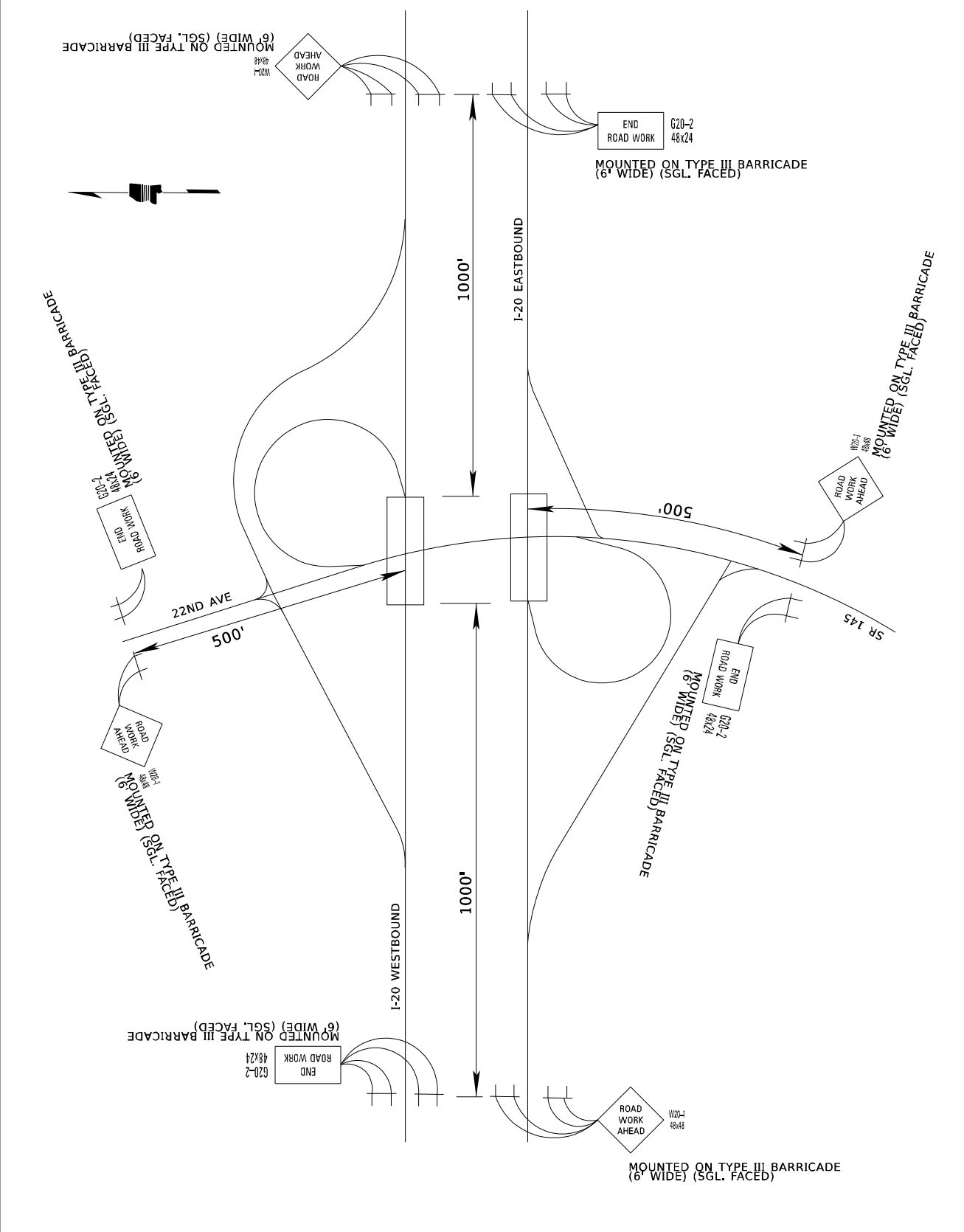
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DESIGNED BY: WALDON
DETAILED BY:
CHECKED BY:
DATE:

FMS CON: 109488/301000
PROJECT NO.: SP-0059-03-103
COUNTY: LAUDERDALE

Notice to Bidders No. 5413

WALDON
DESIGN
SHEET NO. 6





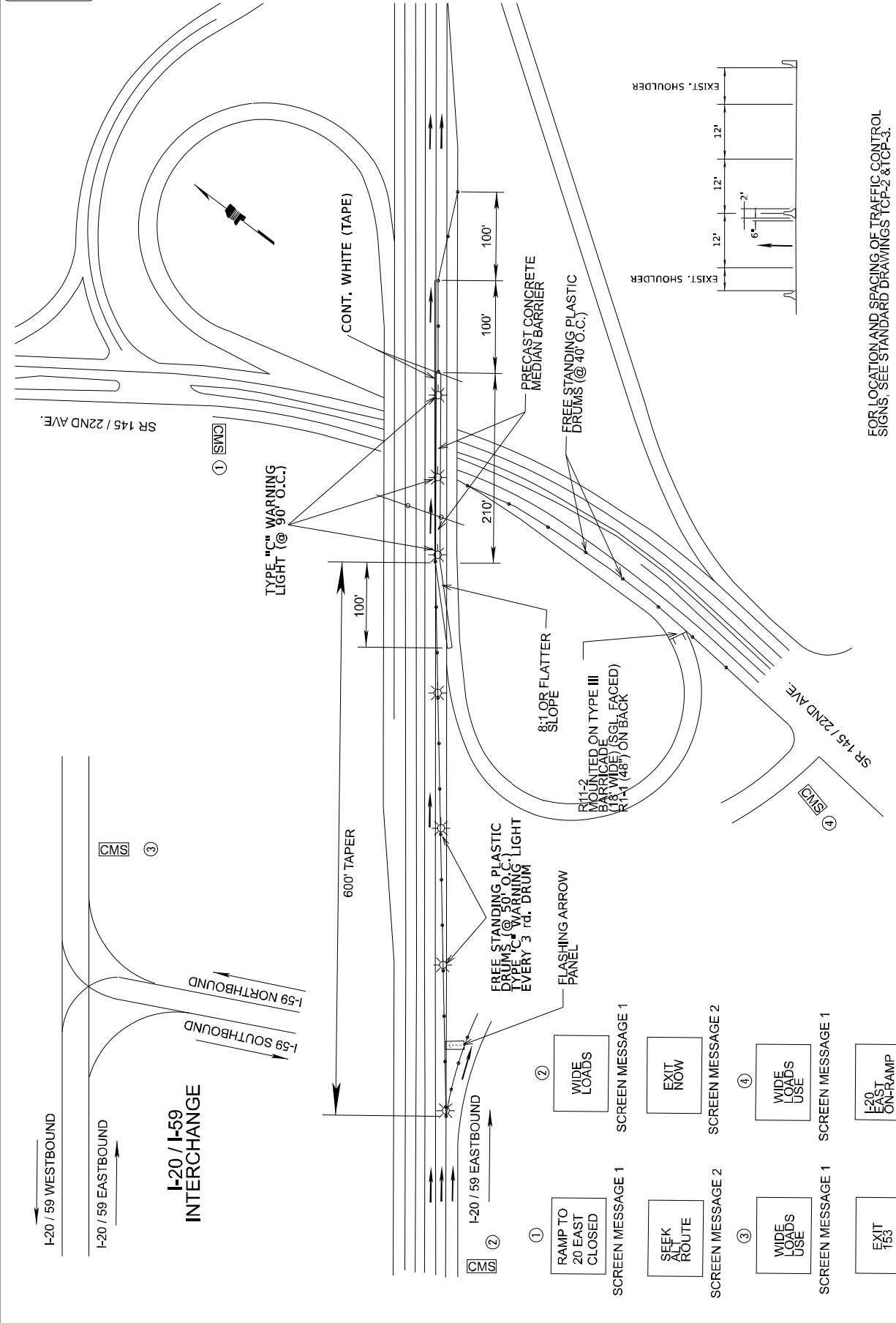
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
MDOT

DESIGNED BY: WALDON
CHECKED BY:
DATE:

FMS CON: 109488/301000
PROJECT NO.: SP-0059-03(103)
COUNTY: LAUDERDALE

Notice to Bidders No. 5413 -- Cont.

W.M.O.
T.M.T.
SHEET NO. 7



FOR LOCATION AND SPACING OF TRAFFIC CONTROL SIGNS, SEE STANDARD DRAWINGS TCP-2 & TCP-3.

I-20 / 59 WESTBOUND
I-20 / 59 EASTBOUND

I-20 / I-59 INTERCHANGE

I-59 NORTHBOUND
I-59 SOUTHBOUND



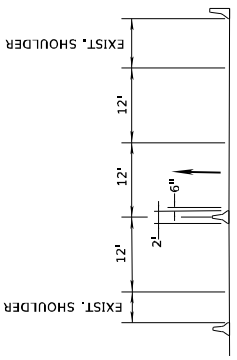
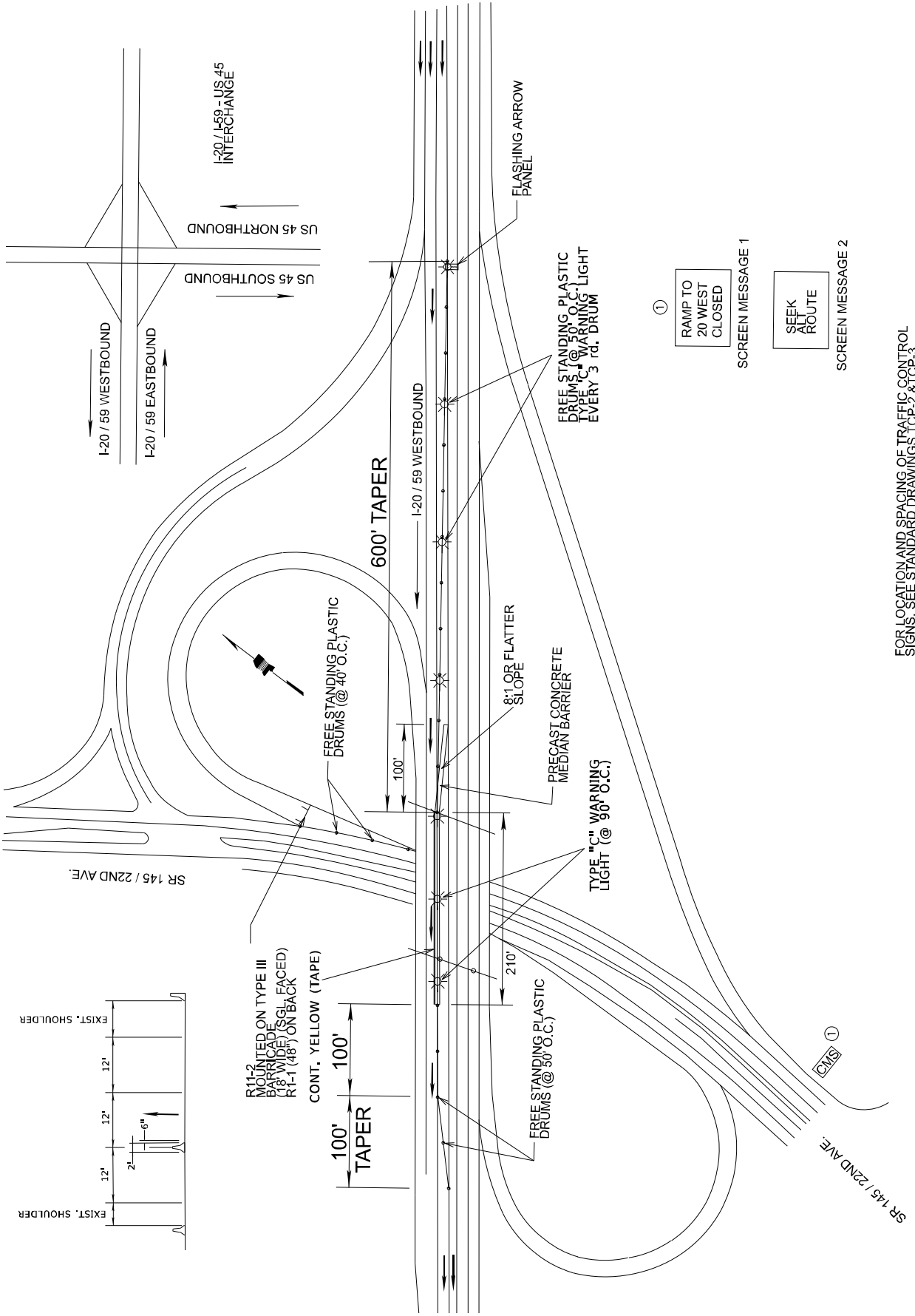
MDOT
MICHIGAN DEPARTMENT OF TRANSPORTATION

DESIGNED BY: WALDON
DETAILED BY:
CHECKED BY:
DATE:

FMS CON: 109488/301000
PROJECT NO.: SP-0059-03(108)
COUNTY: LAUDERDALE

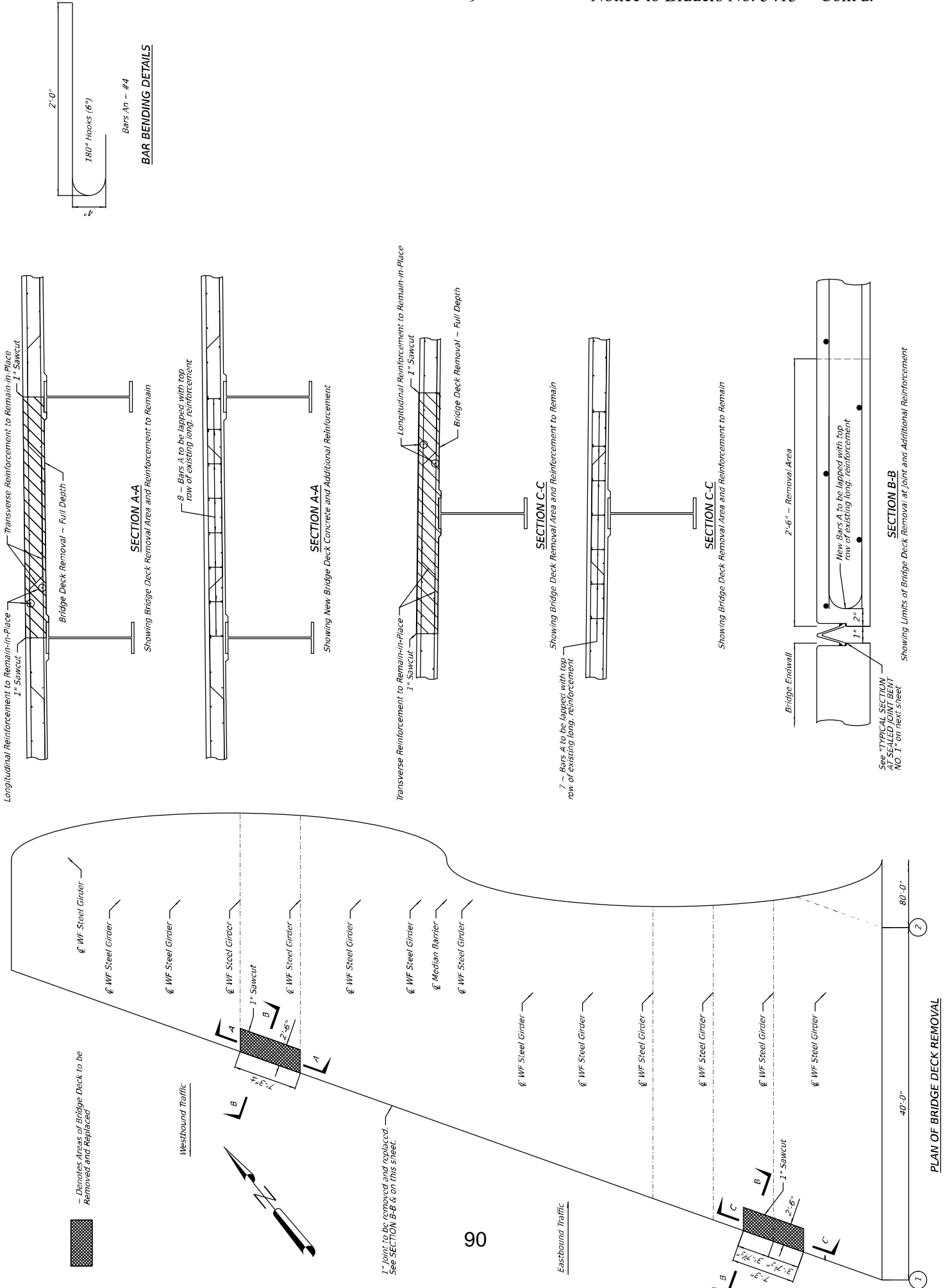
Notice to Bidders No. 5413 -- Cont.

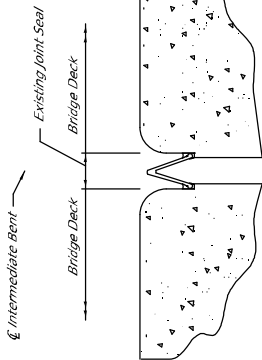
WFLA
SHEET NO. 8



R11.2
NOTED ON TYPE III
BARRICADE
(18' WIDE) (SGL FACED)
R1-1 (48") ON BACK
CONT. YELLOW (TAPE)

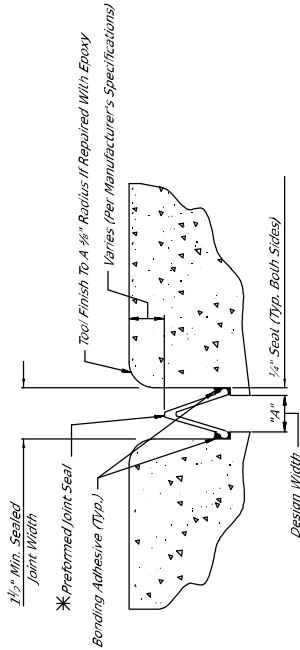
FOR LOCATION AND SPACING OF TRAFFIC CONTROL
SIGNS, SEE STANDARD DRAWINGS TCP-2 & TCP-3.



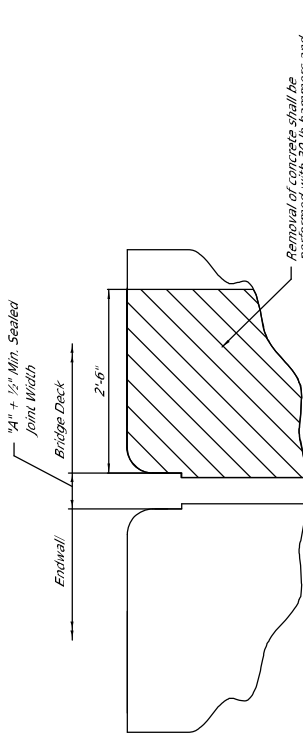


TYPICAL SECTION END BENT NO. 1

Showing Existing Preformed Joint Seal

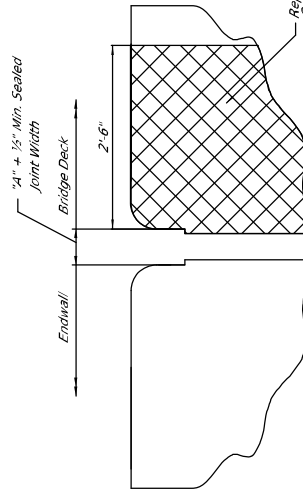


TYPICAL SECTION AT SEALED JOINT BENT NO. 1



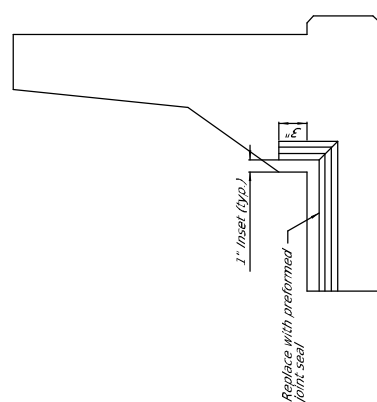
TYPICAL SECTION AT EXISTING JOINT

Showing areas of deck concrete to be removed



TYPICAL SECTION AT EXISTING JOINT

Showing areas of deck concrete to be removed



ELEVATION AT END OF SPAN

NOTES:
For Jersey Shape Barriers, The minimum required Vertical Joint Seal Dimension Within The Barrier is 3".
For Post and Beam Barriers, The minimum required Vertical Joint Seal Dimension Within The Barrier is 6".

NOTES ON ASSOCIATED ITEMS OF WORK:

907-908-4002 JOINT REPAIR

Description:

Shall Include The Work Necessary To Repair Joints In As Designated In The Detail Drawings Provided. Removal Of Existing Silicone Sealed, Compression, And AC Sealed Joint Materials Shall Be Included Under This Item Or Work Removal Limited To compacted dirt, vegetation and trash located at any depth within the joint shall be included under this item of work. All Other Requirements Shall Be In Accordance With The Applicable Sections Of Section 808 Of The Specifications And Any Other Sections Specified Herein.

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.

907-923-4001 PREFORMED JOINT SEAL, TYPE 1

Description:

Shall Include The Manufacturer's Required Joint Preparation Including Sandblasting Both Sides Of The Joint, And Blowing The Joint Free Of Debris With Compressed Air, And Placement Of The New Preformed Joint Seal

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

NOTES:

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

A. Silcoflex Joint Sealing System
Manufactured By R.J. Watson, Inc. In Aiken, NY
www.rjwatson.com

B. Wabo SPS Joint System
Manufactured By Wabson Bowman Acme Corporation In Amherst, NY
www.wbacorp.com

C. Silesecc SSS Silicone Strip Seal
Manufactured By SSI Commercial & Highway Construction Materials
www.ssicm.com

2. For Estimating Purposes, The R.J. Watson Silcoflex Joint Sealing System Was Selected. However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Ensure That The Manufacturer's Recommendations Are Followed For Joint Preparation, Installation Depths And Widths, Adhesive Setting Times, And Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins To Ensure That The Contractor Is Properly Trained In Installation Of The Joint Material.

3. Joints Shall Be Sealed At Their Design Widths. Dimension "A", Which Is Defined As The Actual Width Of The Joint Opening, This Width Does Not Account For The 1/4" Seal Required On Both Sides Of The Joint. Preformed Joint Seal, Type 1, Shall Be Selected For Design Widths Greater Than Or Equal To 2" With The Maximum Design Width Being 2 1/2". In Cases Where Design Widths Are Greater Than 2 1/2", Another Type Of Expansion Material Shall Be Required As Directed By The Director Of Structures, State Bridge Engineer. It Is The Contractor's Responsibility To Ensure That The Size Selected Is Appropriate For The Width Of The Joint.

GENERAL NOTES:

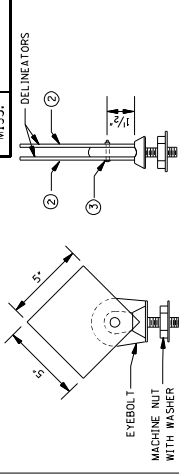
1. Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.

2. Approval Of The Director Of Structures, State Bridge Engineer, May Be Authorized By The Bridge Engineer Provided Such Changes Work For Which No Pay Item Is Provided In The Proposal Will Be Absorbed Item of Work.

3. Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item of Work.

APPROACH ROADWAY NOTES:

Existing approach roadway to remain in place. Any damage that occurs to the existing approach roadway or existing abutment shall be repaired to the satisfaction of the Engineer at no additional cost to the state.



- DELINEATOR, CONCRETE PRECAST MEDIAN BARRIER, TYPE 1**
- DELINEATORS SHALL BE REQUIRED UNLESS INDICATED OTHERWISE ON THE PLANS. THIS ITEM WILL NOT BE MEASURED SEPARATELY, BUT WILL BE INCLUDED UNDER PAYMENT FOR PRECAST CONCRETE BARRIER.
 - DELINEATORS SHALL BE ENCAPSULATED LEAK PROTECTIVE SHEETING ON ALUMINUM SHEET, 0.080" THICK, OR SHEET STEEL, 14 GAGE, WHICH IS GALVANIZED.
 - ALUMINUM OR STAINLESS STEEL SLOTTED ROUND HEAD MACHINE SCREW, NO. 10, 1 1/2" LONG, 2 WASHERS AND 1 HEX HEAD NUT (COMMERCIAL QUALITY).
 - THE DELINEATORS SHALL BE INSTALLED FACING TRAFFIC WITH YELLOW ON THE LEFT AND WHITE ON THE RIGHT, UNLESS OTHERWISE SPECIFIED.
 - SPACINGS OF DELINEATORS: TANGENT SECTION - 10'-00" CURVED SECTION - 10'-00"
 - OPTIONAL DELINEATORS WHICH ARE ON THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION LIST OF APPROVED MATERIALS, WILL BE ACCEPTED.

GENERAL NOTES:

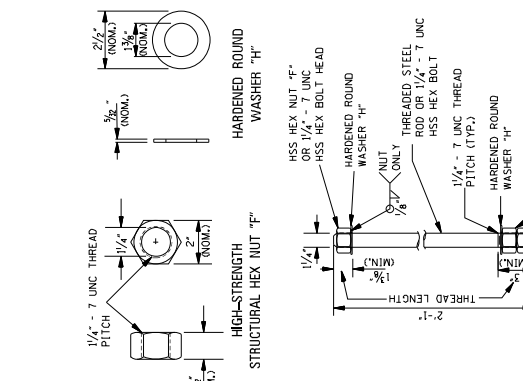
- LIFTING DEVICES AND ATTACHMENTS TO BARRIER SECTIONS SHALL BE AS APPROVED BY THE ENGINEER.
- PLACE ALL STEEL REINFORCEMENT 2" MINIMUM FROM OUTSIDE FACE OF WALL, EXCEPT AS OTHERWISE SHOWN.
- THE ANCHOR STUD CONNECTOR SHALL CONFORM TO AASHTO M 314, GRADE 55. THE HSS HEX NUTS AND THE HARDENED ROUND WASHERS SHALL MEET THE REQUIREMENTS OF ASTM A 325.
- CONCRETE SHALL BE CLASS "B" (CLASS 1 FINISH). REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF AASHTO M 31.
- STEEL RODS SHALL MEET THE REQUIREMENTS OF ASTM A 36.
- CONNECTOR RODS, CONNECTOR PINS, NUTS, AND WASHERS SHALL BE GALVANIZED MEETING THE REQUIREMENTS OF AASHTO M 111.

| APPROXIMATE QUANTITIES FOR 10' BARRIER | | | |
|--|---------------------|-------------------|---------------|
| WEIGHT (lbs.) | REINF. STEEL (cbs.) | STEEL RODS (cbs.) | CONCRETE (cy) |
| 3875 | 104 | 18 | 0.931 |

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

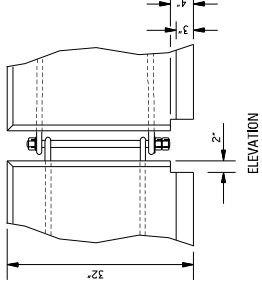
CONCRETE MEDIAN BARRIER (PRECAST) (32')

ISSUE DATE: AUGUST 01, 2017

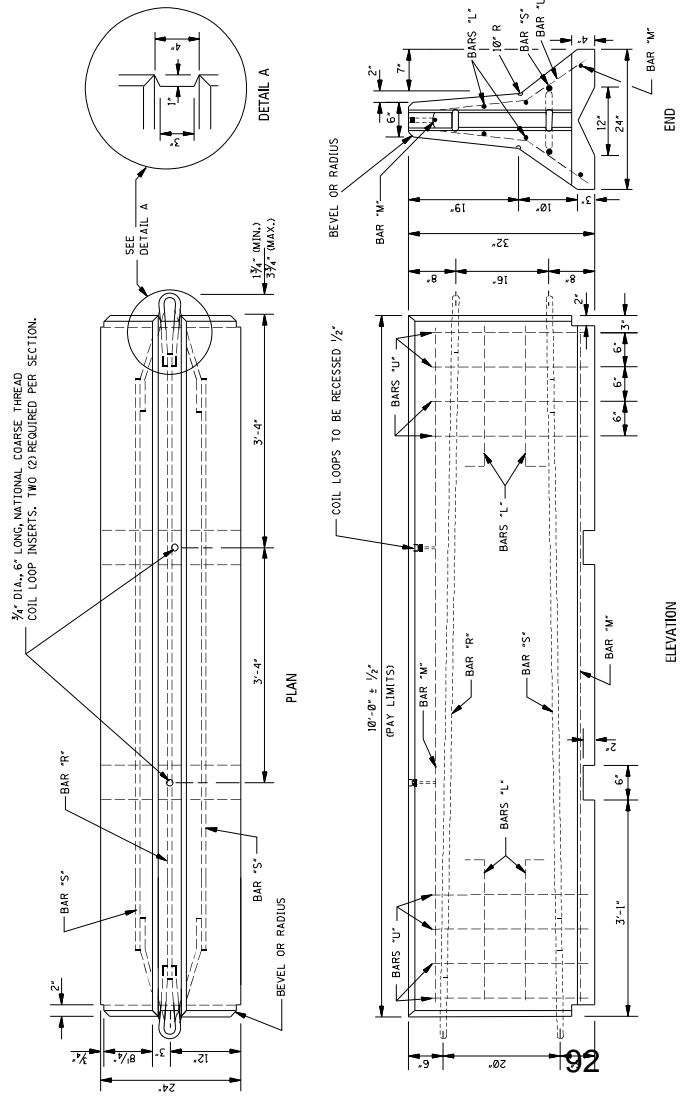


ANCHOR STUD CONNECTOR DETAILS

NOTE: ALTERNATE METHODS OF CONNECTING PRECAST BARRIERS SUCH AS CHOOKS, MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.

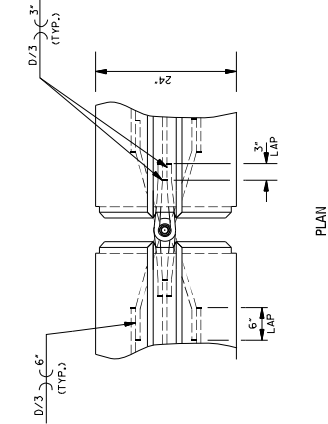


ELEVATION

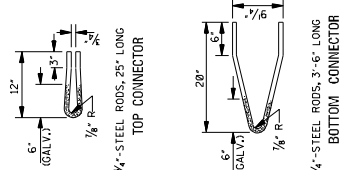


PRECAST CONCRETE MEDIAN BARRIER

ELEVATION

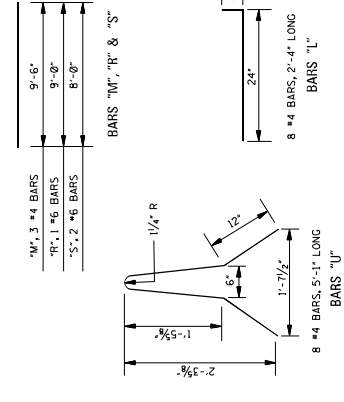


PLAN



BAR AND ROD DETAILS

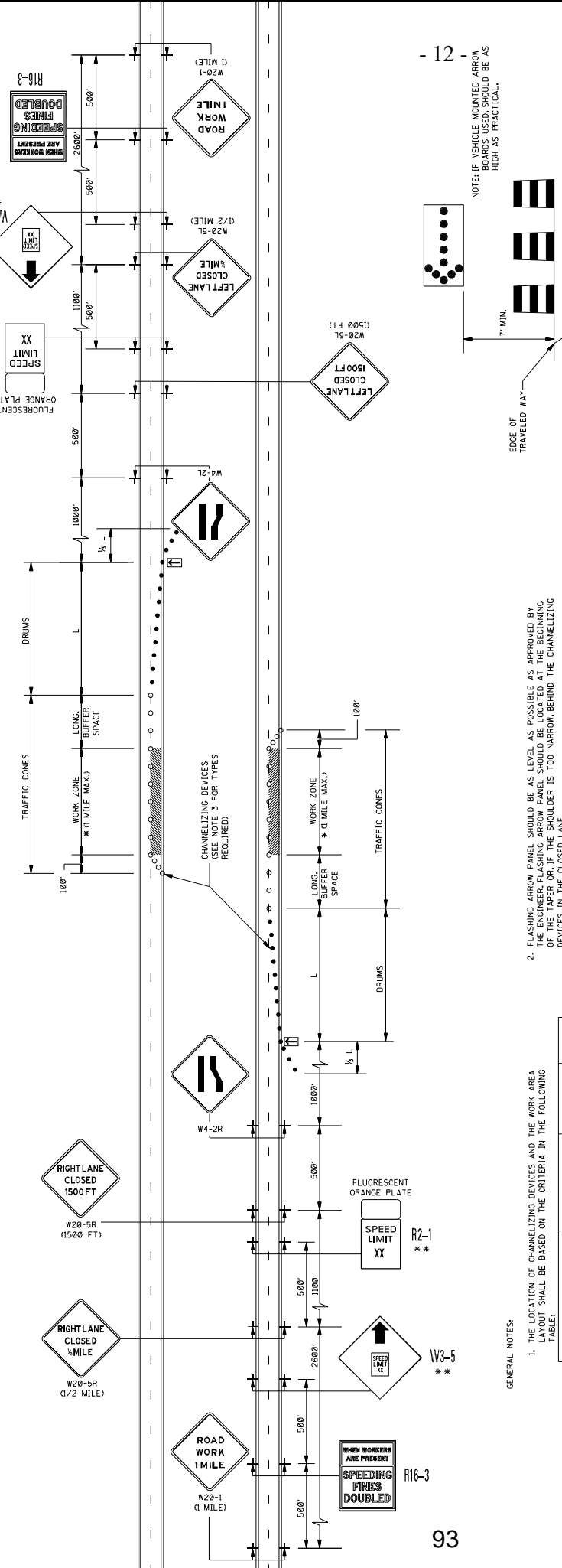
NOTE: WHERE STEEL ROD GALVANIZATION IS SHOWN ABOVE, GALVANIZE AFTER BENDING.



BAR AND ROD DETAILS

NOTE: WHERE STEEL ROD GALVANIZATION IS SHOWN ABOVE, GALVANIZE AFTER BENDING.

BARRIER CONNECTION DETAIL



R16-3

93

- 12 -

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LIMIT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE.
2. 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, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. CHANNELIZING DEVICE TYPES FOR:
 - A. ALONG LANE LINE AND WORK ZONE - TRAFFIC CONES (28" HEIGHT MINIMUM)
 - B. EXIT TAPER - TRAFFIC CONES (28" HEIGHT MINIMUM)
 - C. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED AND THE DRUMS SHALL BE MOVED TO THE SHOULDER EDGE AT THE END OF THE WORK DAY.
4. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
5. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48", AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
6. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

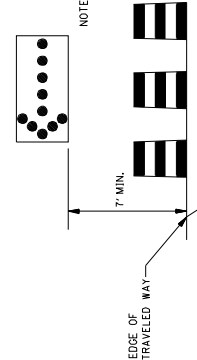
| POSTED SPEED DESIGN SPEED | MAXIMUM CHANNELIZING DEVICE SPACING (ft) | | LONGITUDINAL BUFFER SPACE (ft) | TAPER RATES |
|---------------------------|--|-----------------------------|--------------------------------|-------------|
| | TAPER ALONG LANE LINE & WORK ZONE | ALONG LANE LINE & WORK ZONE | | |
| 50 | 40 | 80 | 395 | 27:1 |
| 45 | 45 | 90 | 360 | 45:1 |
| 50 | 50 | 100 | 425 | 50:1 |
| 55 | 55 | 110 | 495 | 55:1 |
| 60 | 60 | 120 | 570 | 60:1 |
| 65 | 65 | 130 | 645 | 65:1 |
| 70 | 70 | 140 | 730 | 70:1 |

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 L = WS FOR SPEEDS OF 45 MPH OR GREATER
 L = WS²/600 FOR SPEEDS OF 40 MPH OR LESS
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 W = WIDTH OF OFFSET USUALLY LANE WIDTH IN FEET
 S = SPEED FOR 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.

LEGEND

- * OR AS SHOWN ELSEWHERE ON THE PLANS.
- ** THE SPEED ON R2-1 AND W3-5 SIGNS SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.
- ◻ FLASHING ARROW PANEL (TYPE "C")
- RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
- TRAFFIC CONES (28" HEIGHT MINIMUM)



NOTE: IF VEHICLE MOUNTED ARROW BOARDS USED, SHOULD BE AS HIGH AS PRACTICAL.

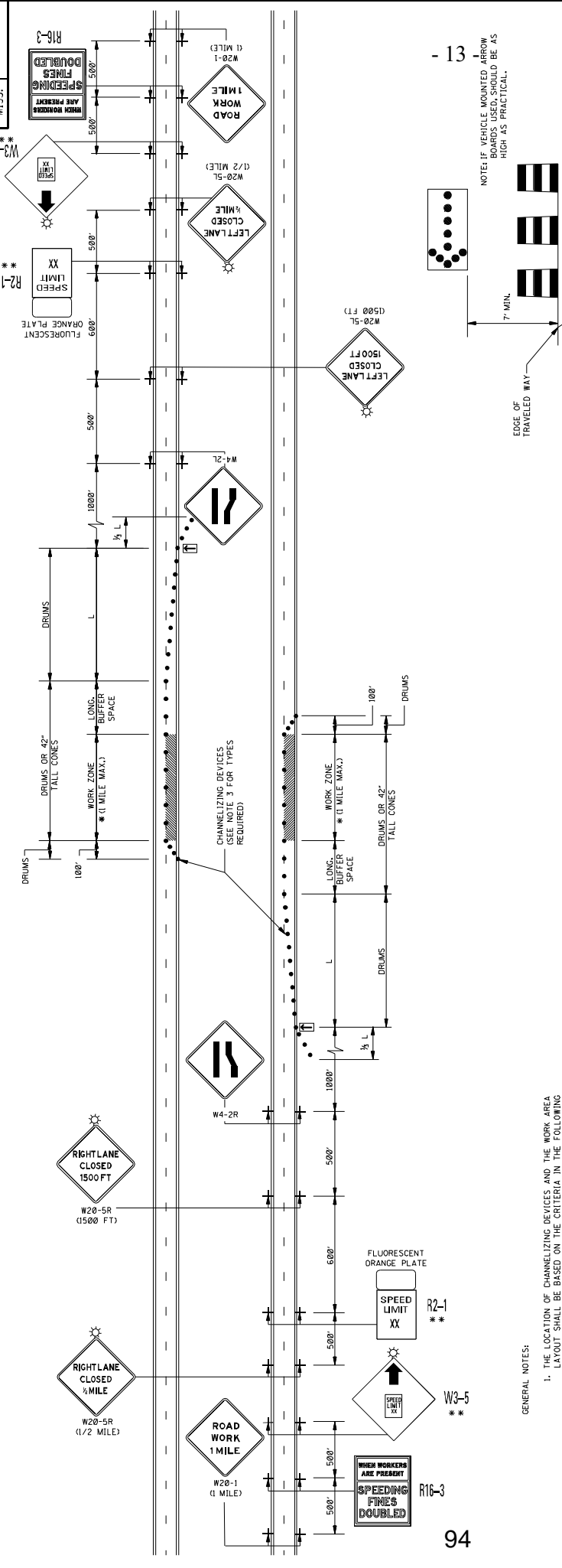
Notice to Bidders No 5413

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

**TRAFFIC CONTROL PLAN
 FOR POSTED SPEED LIMIT
 LESS THAN 65 MPH
 (4-LANE: MEDIAN LANE
 OR OUTSIDE LANE CLOSURE)
 (WORK DAY ONLY)**

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

ISSUE DATE: AUGUST 01, 2017
 SHEET NUMBER: 6352



| POSTED SPEED AND/OR DESIGN SPEED mph | MAXIMUM CHANNELIZING DEVICES SPACING (FT) | | LONGITUDINAL BUFFER SPACE (FT) | TAPER † |
|---|---|-----------|--------------------------------|---------|
| | TAPER | WORK ZONE | | |
| ≤40 | 40 | 80 | 305 | 27:1 |
| 45 | 45 | 90 | 360 | 45:1 |
| 50 | 50 | 100 | 425 | 50:1 |
| 55 | 55 | 110 | 495 | 55:1 |
| 60 | 60 | 120 | 570 | 60:1 |
| 65 | 65 | 130 | 645 | 65:1 |
| 70 | 70 | 140 | 730 | 70:1 |

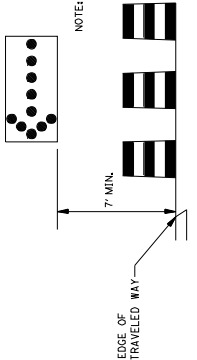
† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 $L = WS^2/60$ FOR SPEEDS OF 40 MPH OR LESS
 $L = WS^2/68$ FOR SPEEDS OF 40 MPH OR LESS
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 W = WIDTH OF OFFSET USUALLY LANE WIDTH IN FEET
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

†† NOTE: BUFFER SPACE MAY BE ADJUSTED ACCORDING TO THE SHORT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

GENERAL NOTES:
 1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:

- 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, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
- CHANNELIZING DEVICES:
 - ALL 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.
 - RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.U.T.C.D.
- FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION PLACEMENT OF THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
- DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" x 48" AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
- ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

- LEGEND
- * OR AS SHOWN ELSEWHERE ON THE PLANS.
 - ** THE SPEED ON R2-1 AND W3-5 SIGNS SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.
 - ◻ FLASHING ARROW PANEL (TYPE "C")
 - RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
 - ⊙ TYPE "B" WARNING LIGHTS



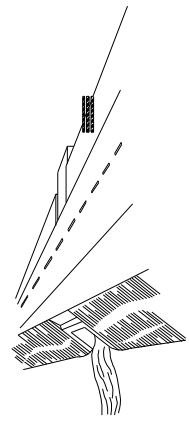
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

**TRAFFIC CONTROL PLAN
 FOR POSTED SPEED LIMIT
 LESS THAN 65 MPH
 (4-LANE: MEDIUM LANE
 OR OUTSIDE LANE CLOSURE)
 (EXTENDED PERIOD)**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

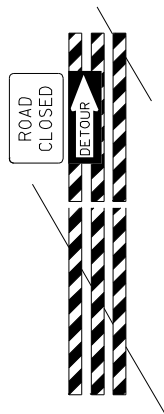
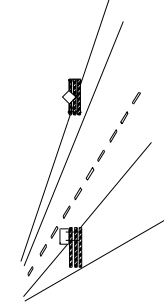
TRAFFIC CONTROL PLAN
 FOR POSTED SPEED LIMIT
 LESS THAN 65 MPH
 (4-LANE: MEDIUM LANE
 OR OUTSIDE LANE CLOSURE)
 (EXTENDED PERIOD)

ISSUE DATE: AUGUST 01, 2017



WING BARRICADES

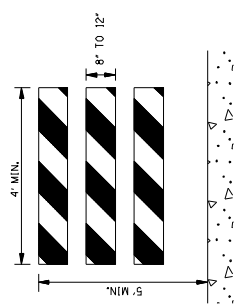
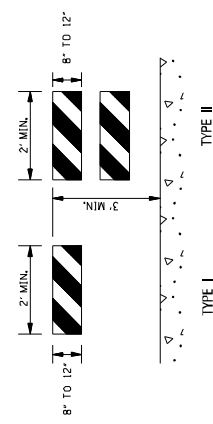
- WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER ON ONE OR BOTH SIDES OF THE PAVEMENT TO GIVE THE SENSATION OF A NARROWING OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
 - IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
 - IN ADVANCE OF ALL BRIDGE OR CULVERT WIDENING OPERATIONS.



BARRICADE CHARACTERISTICS

| | I | II | III |
|---------------------------------|------------------------|------------------------|---|
| WIDTH OF RAIL ** | 8" MIN. - 12" MAX. | 8" MIN. - 12" MAX. | 8" MIN. - 12" MAX. |
| LENGTH OF RAIL ** | 24" MIN. | 24" MIN. | 48" MIN. |
| WIDTH OF STRIPE * | 6" | 6" | 6" |
| HEIGHT | 36" MIN. | 36" MIN. | 60" MIN. |
| NUMBER OF FACTORIZED RAIL FACES | 2 (ONE EACH DIRECTION) | 4 (TWO EACH DIRECTION) | 3 IF FACING TRAFFIC IN ONE DIRECTION 6 IF FACING TRAFFIC IN TWO DIRECTIONS |

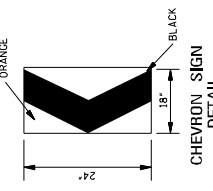
- * 1. FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.
- ** 2. BARRICADES INTENDED FOR USE ON EXPRESSWAYS, FREEWAYS, AND OTHER HIGH SPEED ROADWAYS SHALL HAVE A MINIMUM OF 270 IN² OF REFLECTIVE AREA FACING TRAFFIC.



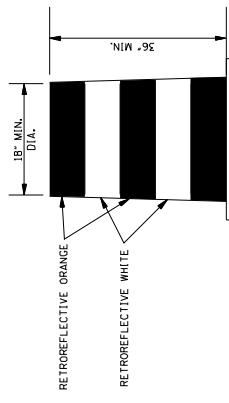
TYPE III

STANDARD BARRICADES

- THE MARKING FOR BARRICADE RAILS SHALL BE ORANGE AND WHITE ISLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS.
- RAIL STRIPE SHOULD BE 6 INCHES EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES.
- DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
- FOR ADDITIONAL INFORMATION OR DETAILS, SEE MUTCD, LATEST EDITION.
- BARRICADES ARE CLASSIFIED BY FHWA AS CATEGORY II WORK ZONE DEVICES WHICH REQUIRE CRASHWORTHINESS ACCEPTANCE LETTERS. TO DATE, 2-IN. THICK TIMBER RAILS HAVE NOT BEEN SUCCESSFULLY CRASH TESTED. A LIST OF CRASHWORTHY BARRICADES AND OTHER CATEGORY II DEVICES CAN BE FOUND ON FHWA'S WEBSITE: http://safety.fhwa.dot.gov/roadway_dept/policy/guide/road_hardware/cat2.cfm



- CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
- CHEVRON SIGN SHALL BE MOUNTED ON CRASHWORTHY SUPPORT.
- CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION OR MAINTENANCE. THEY SHOULD BE PLACED APPROXIMATELY 2'-0" BEHIND THE LANE TRANSITION STRIPE.



PLASTIC DRUM STRIPING DETAIL

- PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDIENT METHOD OF STRIPING FOR CONSTRUCTION ZONE DEVICES. DRUMS SHALL BE CONFORMANT WITH MARKING STANDARDS FOR BARRICADE. THE PREDOMINANT COLOR ON DRUMS SHALL BE ORANGE WITH FOUR (4) RETROREFLECTIVE, HORIZONTAL, CIRCUMFERENTIAL STRIPES (2 ORANGE & 2 WHITE) 6" WIDE.
- DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
- WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 10' FROM THE EDGE OF TRAVELED LANE.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

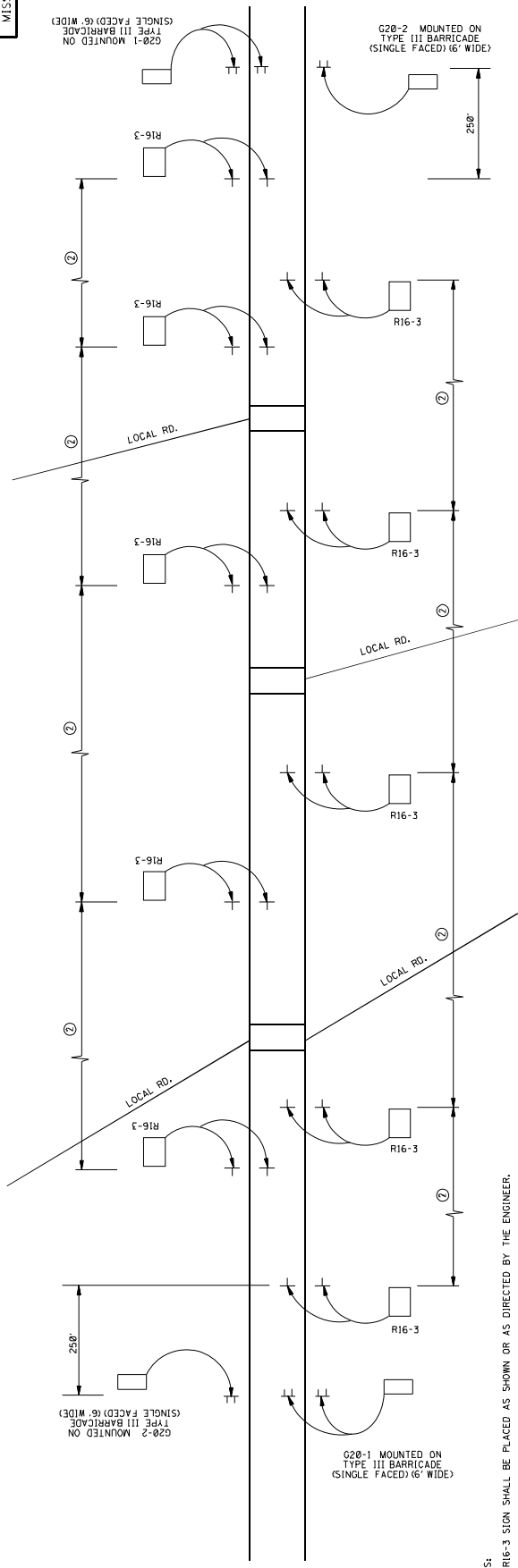
PROJECT NUMBER: 6358
SHEET NUMBER: 10
ISSUE DATE: AUGUST 01, 2017

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**LOCATION OF
R16-3 SIGNS
(SPEEDING FINES
DOUBLED)**

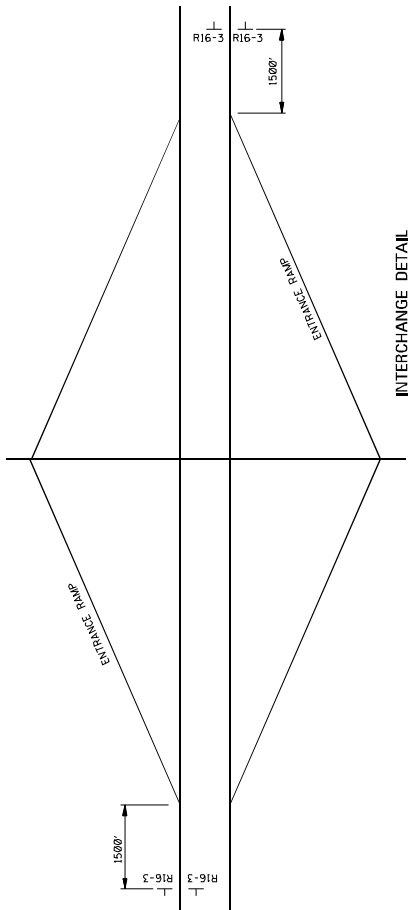
DATE: _____
BY: _____
REVISION: _____

ISSUE DATE: AUGUST 01, 2017
DRAWING NUMBER: LCP-15
SHEET NUMBER: 6365

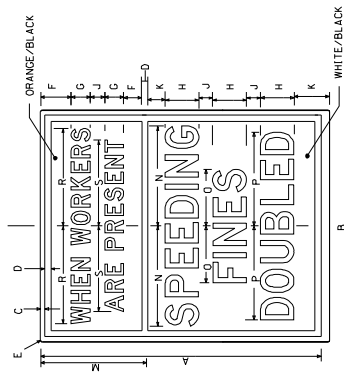


**DIVIDED HIGHWAY SHOWN
(2 LANE - 2 WAY ROADWAY SIMILAR)
(PROJECT MORE THAN 1 MILE LENGTH)**

- NOTES:
1. R16-3 SIGN SHALL 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.



INTERCHANGE DETAIL



| SIGN | DIMENSIONS (INCHES) | | | | | | | | | | |
|------|---------------------|-------|-------|-------|-------|-------|---------|-------|---|---|---|
| | A | B | C | D | E | F | G | H | I | J | K |
| STD. | 60 | 48 | 3/4 | 1 1/4 | 3 | 3 3/4 | 4 | 0m | 7 | D | |
| STD. | 3 | 6 1/8 | 2 5/8 | 2 1/8 | 1 7/8 | 1 9/8 | 2 0 5/8 | 1 1/8 | | | |

48" x 60"
(INTERSTATE USE)

| SIGN | DIMENSIONS (INCHES) | | | | | | | | | | |
|------|---------------------|-------|-------|-------|-------|-------|-------|-------|---|---|---|
| | A | B | C | D | E | F | G | H | I | J | K |
| STD. | 48 | 36 | 3/4 | 1 1/4 | 3 | 2 3/4 | 3 | 0m | 6 | D | |
| STD. | 3 | 4 1/8 | 1 5/8 | 1 1/4 | 1 7/8 | 1 3/8 | 1 3/8 | 1 1/8 | | | |

36" x 48"
(ALL OTHER HIGHWAYS)

R16-3

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5414

CODE: (SP)

DATE: 10/4/2023

SUBJECT: Lane Closure Restrictions

PROJECT: SP-0059-03(103) / 109488301 – Lauderdale County

Bidders are hereby advised of the following Lane Closure Restrictions on the above captioned project.

Removal and Replacement of the Bridge Deck

Lane closures for this work shall be allowed on weekends from 7:00 PM Friday to 7:00 AM Monday.

The Contractor must give the Engineer a 7-day notice prior to beginning said weekend work.

All Operations

Lane closures shall not be allowed during the following hours:

Monday – Saturday: 7:00 AM to 7:00 PM

No lane closures will be permitted on Sunday. Sunday is defined as 7 PM Saturday to 7 PM Sunday

The Contractor will be charged a fee of **\$500.00** for each full or partial 5-minute period until the roadway is back in compliance with the requirements stated above.

Official time can be obtained by calling the following Jackson area phone number: 601-355-9311.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5415

CODE: (SP)

DATE: 9/25/2023

SUBJECT: Additional Construction Requirements

PROJECT: SP-0059-03(103) / 109488301 – Lauderdale County

Bidders are hereby advised of the following additional construction requirements:

- 3M Stamark Wet Retroreflective Removable Tape Series 710IR shall be required for all temporary traffic stripe pay items and shall be applied as per the manufacturer's recommendations.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5416

CODE: (SP)

DATE: 10/10/2023

SUBJECT: General Notes

PROJECT: PROJECT: SP-0059-03(103) / 109488301 -- Lauderdale County

Bidders are advised that the Contractor shall adhere to the following general notes.

BRIDGES AND WALLS

Storage of flammable materials will not be allowed under any bridge structures without written approval from the Project Engineer. See Notice To Bidders entitled "Material Storage Under Bridges" for more information.

DRAINAGE STRUCTURES

The Contractor shall be responsible for protecting existing structures such as, but not limited to, pipes, inlets, aprons, and bridges from damage which might occur during construction. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged during the life of the contract. No payment will be made for replacement or repair of damaged items.

PAVEMENT, BASE, AND SHOULDERS

The Contractor shall repair any damage to the paved or unpaved shoulder that might occur during construction. Any repair to shoulder will be in accordance with the applicable sections of the Mississippi Standard Specifications for Road and Bridge Construction. No payment will be made for repair of damaged shoulder.

PLANS

All addenda to these plans will be posted to www.mdot.ms.gov under the proposal addenda column. Bidders are advised that hard copies of any addenda for this project will not be mailed. It is the bidders responsibility to check and see if any addenda have been posted for this project.

See bridge plans for detailed index sheet(s), estimated and summary of quantity sheets, and erosion control sheets.

TRAFFIC CONTROL - TEMPORARY

The location and spacing of signs, shown on the traffic control plans, are approximate and may be adjusted as necessary to fit field conditions.

All traffic control devices on this project shall comply with Part VI of the MUTCD (latest edition).

All plastic drums shall have a ballasting collar made from recycled truck tires or other suitable material.

Fluorescent orange sheeting shall be used on all construction and traffic control signs except for those designated on the plans to be black legend and border on white background.

The Contractor shall coordinate with the Contractor from adjacent project(s) in implementing the traffic -control plan as directed by the Engineer. All conflicting signs shall be covered or removed as directed by the Engineer.

The Contractor shall cover or remove any temporary traffic control signs shown in the traffic control plan that do not apply to the current phase.

The retroreflective sign sheeting on rigid, temporary traffic control (orange) signs shall be minimum Type IX.

MISCELLANEOUS

Some work is required outside the project limits. No additional compensation will be made for such work except as provided by specific pay items included in the plans.

The Contractor is responsible for field-verification of existing grades and making adjustments as necessary with the approval of the Project Engineer.

NOTICE:

THE NOTES CONTAINED HEREON ARE SPECIFIC TO THE SUBJECT PROJECT AND SHOULD BE REVIEWED IN DETAIL BY THE CONTRACTOR PER SUBSECTION 205.05 OF THE STANDARD SPECIFICATIONS. "THE BIDDER IS REQUIRED TO EXAMINE CAREFULLY THE SITE OF THE PROPOSED WORK, THE PROPOSAL, PLANS, STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, NOTICES TO BIDDERS, AND CONTRACT FORMS BEFORE SUBMITTING A PROPOSAL.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5417

CODE: (SP)

DATE: 10/12/2023

SUBJECT: Temporary Construction Signs

PROJECT: SP-0059-03(103) / 109488301 -- Lauderdale County

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 5418

CODE: (SP)

DATE: 10/17/2022

SUBJECT: Underground Utilities

PROJECT: SP-0059-03(103) / 109488301 - Lauderdale County

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

Additionally, it shall be the Contractor's responsibility to maintain the utility markings and have the ability to survey the marked utilities and re-establish said utility markings as needed. The Department shall only be responsible for locating and marking the utilities once per Contract.

The contacts for MDOT utility lines are as follows:

Underground Power Lines:

Michael Lee – 601-683-3341 – mlee@mdot.ms.gov

Billy Coward – 601-683-3341 – bcoward@mdot.ms.gov

Underground Communication Lines:

Kerby McFarland – 601-359-7450 – kmcfarland@mdot.ms.gov

Steven Newell – 601-359-7450 – snewell@mdot.ms.gov

Henry Lewis – 601-359-1454 – hlewis@mdot.ms.gov

Underground Signal Lines:

Amrik Singh – 601-359-1454 – asingh@mdot.ms.gov

Kenneth Welch – 601-359-1454 – kwelch@mdot.ms.gov

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-101-1

CODE: (IS)

DATE: 07/20/2023

SUBJECT: Definitions and Terms

Section 101, Definitions and Terms, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-101.01--Abbreviations. After the abbreviation API on page 1, add the following.

APL Approved Products List

Replace the abbreviation for AWPA on page 1 with the following.

AWPA American Wood Protection Association

907-101.02--Definitions. Delete the sentence after the list of holidays in Subsection 101.02 on page 6 under **holidays, legal**, and substitute the following.

When a legal holiday falls on a Saturday or Sunday, the succeeding Monday, or as proclaimed by the Governor, will be observed as a legal holiday.

Delete the definition for Notice to Proceed in Subsection 101.02 on page 8, and substitute the following.

Notice to Proceed - Written notice to the Contractor to proceed with the contract work.

Delete the definition for “Plans” in Subsection 101.02 on page 8, and substitute the following.

plans - The approved plans, profiles, typical cross-sections, working drawings and supplemental drawings, or exact reproduction thereof, that show the location, character, dimensions, and details of the work to be done. The plans may also include electronic files, referred to on the plans as Electronic Files Identified as Plans, which may include engineering models, spreadsheets, CADD files or other electronic files used to convey design intent. When the contract does not have an official set of plans, reference to the plans shall mean the contract documents.

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. 907-105-2

CODE: (IS)

DATE: 07/20/2023

SUBJECT: Control of Work

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

907-105.01--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.

907-105.02--Plans and Working Drawings. Delete the first paragraph of Subsection 105.02 on page 31, and substitute the following.

After the contract is executed by the Executive Director, the Contractor will receive, free of charge, two bound copies of the proposal and contract documents (one executed and one blank) two full scale copies of the plans, five half-scale copies of the Plans, and Electronic Files Identified as Plans. The Contractor shall have one copy of the proposal and contract documents and one half-scale copy of the plans available at all times during work activity on the project.

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

SPECIAL PROVISION NO. 907-619-5

CODE: (IS)

DATE: 01/17/2018

SUBJECT: Traffic Control for Construction Zones

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.

907-619.02.8--Traffic Signals and Flashers. Delete Subsection 619.02.8.1 on pages 452 thru 455, and substitute the following.

907-619.02.8.1-Portable Traffic Signals. Portable traffic signals shall be trailer or pedestal mounted units that provide for easy, legal transportation and quick setup and deployment. Each unit shall be self-contained. The types of portable traffic signals are as follows.

- Type 1 portable traffic signal shall include two signal heads per trailer with one signal head mounted on an overhead mast arm that can be extended over the travel lane, and the other signal head shall be mounted on the vertical upright of the trailer.
- Type 2 portable traffic signal shall include one signal head that is mounted on the vertical upright of the pedestal/cart or trailer. Pedestal/Cart mounted shall be designated as Type 2A and Trailer mounted shall be designated as Type 2B. Type 2 portable traffic signals shall be tested to MASH Standards or NCHRP Test Level 3 crash testing requirements by an accredited independent test facility, with supporting documentation available upon request.
- Type 3 portable traffic signal shall be the same as Type 1 mentioned above but with enhanced capabilities as mentioned in each applicable section below.

The portable traffic signals shall be MUTCD Compliant and utilize standard ITE signal heads, and adhere to the ITE Specifications and Standards for Vehicle Traffic Control Signal Heads, Light Emitting Diode (LED) Circular Signal Supplement. The units shall be battery powered with a solar charging system, and be equipped with an onboard battery charger capable of being used with a 120V AC power source. Portable traffic signals shall be able to communicate with other portable signals via 900 MHz or other accepted wireless communications. If wireless connectivity is not feasible, hardwired connectivity shall be an acceptable alternative, as approved by the Engineer. Portable Traffic Signals shall include all the major components listed below or be able to perform the functions of these components. The major components of the unit shall include, but are not limited to, the trailer or pedestal/cart, telescoping mast arm (on Type 1 and 3), signal head(s) and back plates, traffic signal controller with operating software, solar charging system with batteries, input and output devices, vehicle detection, flasher units, conflict monitor, relays,

communications system and other equipment required for the safe operation and installation of the unit.

907-619.02.8.1.1--Signal Heads. The signal heads and all applicable components of the portable traffic signal shall meet the physical display and operational requirements of conventional traffic signals as specific in the Manual on Uniform Traffic Control Devices (MUTCD). The signal heads shall be cast aluminum or polycarbonate and shall meet the requirements laid out in the Mississippi Standard Specification for traffic signal heads and associated MDOT material specifications for traffic signal heads. The signal heads shall accommodate standard 12-inch LED indications meeting the ITE Specification “Vehicle Traffic Control Signal Heads” and ITE Specifications and Standards for Vehicle Traffic Control Signal Heads, Light Emitting Diode (LED) Circular Signal Supplement.

For Type 1, Type 2 and Type 3 portable traffic signals, the signal heads shall have the ability to be rotated 180 degrees to face in the opposite direction and shall have the ability to rotate and lock in approximately 10 degree increments to position the signal head for the optimum visibility to motorists.

For Type 1 portable traffic signals, each unit shall contain two signal heads with one signal head mounted on an overhead mast arm that can be extended over the travel lane with a minimum clearance of 17 feet measured from the bottom of the signal head unit to the road surface. The lower signal head shall be mounted to the vertical upright of the trailer at a minimum height of eight feet (8') from the bottom of the signal head unit to the road surface.

For Type 2 portable traffic signals, the signal head shall be mounted to the vertical upright of the trailer at a minimum height of eight feet (8') from the bottom of the signal head unit to the road surface.

For Type 3 portable traffic signals, each unit shall be the same as Type 1 mentioned above but with enhanced capabilities as mentioned below.

907-619.02.8.1.2--Controller and Operating Requirements. The portable traffic signal (Types 1, 2, and 3) shall include a solid state Controller Unit (CU) that is in compliance with NEMA TS 5 Performance Standard. The CU shall have an easy to read front panel backlit display for viewing and programming the configuration settings and CU status. The CU shall be capable of operating the portable traffic signal system in a fixed time, traffic actuated or manual control mode. Multiple portable traffic signals shall have the capability to be interconnected to form a portable traffic signal system. Each portable traffic signal within a connected system shall have the capability to serve as either the master or remote signal. Each portable traffic signal shall include a Conflict Monitor Unit (CMU), or Malfunction Management Unit (MMU) to ensure phase conflicts do not exist during operation.

For Type 1 and Type 2 portable traffic signals, a minimum of five (5) automatic time-of-day timing plans within a 24-hour period should be available in fixed time mode. The CU should have the ability to control a minimum of four (4) traffic phases with programmable cycle time adjustments and user adjustable red, amber, minimum green and maximum green times. The CU shall have

the capability of programming green and red times from 1 to 999 seconds and yellow times up to 15 seconds in one-second increments. The CU shall also have the capability of facilitating standby modes of red, red flash and yellow flash.

For Type 3 portable traffic signals, a minimum of ten (10) automatic time-of-day timing plans within a 24-hour period should be available in fixed time mode. The CU should have the ability to control a minimum of 16 traffic phases with programmable cycle time adjustments and user adjustable red, amber, minimum green and maximum green times. The CU shall have the capability of programming green and red times from 1 to 999 seconds and yellow times up to 15 seconds in one-second increments. The CU shall also have the capability of facilitating standby modes of red, red flash and yellow flash.

The system shall also have the ability to operate in vehicle actuation mode when vehicle detection components are used. The operating system shall have the capability to allow the Portable Traffic Signal to be connected to and controlled by a standard NEMA controller.

The system shall have the capability to be controlled remotely using a hardwired or wireless remote. The wireless radio remote shall be capable of communicating at a clear line of site distance up to ¼ mile from the master.

The CU shall have the capability of interfacing with a Remote Monitoring System (RMS) capable of reporting signal location, battery voltage, and system faults. The RMS shall include a password-protected web site, viewable via an internet connection. In the event of a system fault, the RMS shall provide specific information concerning the cause of the system fault (example: "red lamp on signal number 1 out"). The RMS shall immediately contact previously designated individuals via SMS text messaging or email, upon a fault event.

The active timing program operating the PTS system shall be available and viewable through the RMS website at all times. The RMS shall maintain a history of the operating system in each signal including total operating hours, alerts, and the location of the PTS trailer.

907-619.02.8.1.3--Wireless Communications. The portable traffic signals shall communicate with other portable traffic signals within the signal system via license-free wireless 900 MHZ radio link communications as specified in Subsection 662.02.2 of the radio Interconnect System specification. The radio units shall maintain communications at a minimum distance of one (1) mile. The radio system shall conform to the applicable Federal Communications Commission requirements and all applicable state and local requirements.

The portable traffic signals shall be in direct communication at all times either by wireless or hardware connection to provide for the required conflict monitoring / malfunction management system.

907-619.02.8.1.4--Power Requirements. Each Portable Traffic Signal shall be equipped with a power source consisting of a solar collection array, solar controller and/or charging unit and batteries sufficient to operate the signal system. The number and size of batteries shall be sufficient to operate the Type 1 and Type 3 signals for a minimum of 30 days and Type 2A signals for

minimum of five (5) days, and Type 2B signals for minimum of 15 days without additional charging or assist from the solar array. An on-board battery charger shall be compatible with both the solar array and with a 120V AC power source.

For Type 1 signals, the solar panel array shall provide for a minimum of 440 watts of solar collection capability.

For Type 2A signals, the solar panel array shall provide for a minimum of 90 watts of solar collection capability.

For Type 2B signals, the solar panel array shall provide for a minimum of 110 watts of solar collection capability.

For Type 3 signals, the solar panel array shall provide for a minimum of 480 watts of solar collection capability and shall include a tilt and rotate system to optimally position the panels.

All instrumentation for the electrical system and battery compartment shall be contained in a lockable weatherproof enclosure. Solar panels shall be secured to the mounting brackets for theft prevention.

907-619.02.8.1.5--Trailer and Lift System. The trailer or pedestal/cart and all mounted components shall conform to the wind loading requirements as follows: 100 mph minimum for Type 1 portable traffic signals, 55 mph minimum for Type 2A portable traffic signals, 75 mph minimum for Type 2B portable traffic signals, and 90 mph minimum for Type 3 portable traffic signals as described in the AASHTO *Standard Specifications for Highway Signs, Luminaries and Traffic Signals*, as specified in the plans including all interims and updates. At the request of the Engineer, proof of conformance to these wind load ratings shall be verified by a third-party. No additional loose ballast shall be used to meet these wind load requirements. The trailer shall be made of structural steel and shall include four (4) leveling/stabilizer jacks capable of lifting the trailer a minimum of six inches (6”).

The trailer or pedestal shall be equipped with a mechanical, hydraulic or electric lift system sufficient for one person to be able to raise and lower the vertical upright and/or horizontal mast arm to and from the operating position.

For Type 1, 2B, and Type 3 signals, the trailer shall be equipped to provide legal and safe transport on the public highway system at speeds up to 55 mph.

All exterior metal surfaces, except signal heads and back plates, shall be powder-coat painted highway safety orange.

907-619.02.9--Impact Attenuators. Delete the sentence in the first paragraph of Subsection 619.02.9 on page 455, and substitute the following.

Impact attenuators must be listed on the Department's APL.

907-619.02.11--Snap-Back Delineators. Delete the sentence in the paragraph of Subsection 619.02.11 on page 456, and substitute the following.

Snap-back delineators shall be selected from the list of surface mounted flexible delineator posts as shown on the Department's APL.

907-619.02.14--Changeable Message Sign.

907-619.02.14.5--PCMS Controller and Storage Cabinets. Delete the fifth sentence in the first paragraph of Subsection 619.02.14.5 on pages 462 and 463, and substitute the following.

The controller cabinet shall be illuminated.

907-619.05--Basis of Payment. Add the following to the list of pay items ending on page 480.

907-619-E3: Changeable Message Sign ***** - per each

907-619-H2: Traffic Signal, Portable, Type ____ - per each

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

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

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

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

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

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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-808-1

CODE: (IS)

DATE: 11/01/2018

SUBJECT: Joint Repair

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

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

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

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

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

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

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

Payment will be made under:

907-808-A: Joint Repair - per linear foot

907-808-B: Mortar Mix - per gallon

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISIONS NO. 907-823-7

CODE: (SP)

DATE: 10/13/2020

SUBJECT: **Preformed Joint Seal**

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

SECTION 907-823--PREFORMED JOINT SEAL

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

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

The preformed joint seal shall be one of the following, or an approved equal. The size of the seal, Type I or Type II, shall be determined based on the size of the joint opening, as detailed in the Plans or drawings provided. It is the Contractor's responsibility to ensure that the size selected is appropriate for the width of the joint. Type I shall be used for joint openings less than two inches (2"). Type II shall be used for joint openings greater than two inches (2"), with the maximum joint opening being two and one-half inches (2½"). In cases where the joint opening is greater than two and one-half inches (2½"), another type of expansion material shall be required as directed by the Director of Structures, State Bridge Engineer.

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

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

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

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

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

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

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

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

Payment will be made under:

907-823-A: Preformed Joint Seal, Type ____ - per linear foot

907-823-B: Saw Cut, Type _____ - per linear foot

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

Description: Shall include the Work Necessary To Repair Joints In Bridge Deck On Each Side Of The Centerline Joint. Epoxy Mortar As Designated In The Detail Drawings Provided. Epoxy Mortar Shall Also Be Installed Under This Item Of Work. Removal Of Existing Mortar From The Joint Shall Be Done In Accordance With The Specifications. Epoxy Mortar Will Not Be Paid For Directly And Shall Be Considered As Absorbed Under This Item Of Work. Removal Of Joint Materials And Any Treat And Dapack (Including But Not Limited To Compacted Gravel) From The Joint Shall Be Paid For Directly And Shall Be Considered As Absorbed Under This Item Of Work. All Other Requirements Shall Be In Accordance With The Applicable Provisions Of Section 808 Of The Specifications And Any Other Sections Specified Therein.

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.

907-808-4003 JOINT REPAIR WITHOUT EPOXY

Description: Shall Include The Work Necessary To Repair Joints In Preparation For The Placement Of New Expansion Material. Existing Silicone Sealant, Compressive Sealant And A/C Sealed Joint Materials Shall Be Included Under This Item Of Work. Removal Of Joint Materials And Any Treat And Dapack (Including But Not Limited To Compacted Gravel) From The Joint Shall Be Paid For Directly And Shall Be Considered As Absorbed Under This Item Of Work. All Other Requirements Shall Be In Accordance With The Applicable Provisions Of Section 808 Of The Specifications And Any Other Sections Specified Therein.

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.

907-823-8001 SAW CUT, TYPE I & 907-823-8002 SAW CUT, TYPE II

Description: The Saw Cut Depth Shall Be Equivalent To The Installation Depth Of The Sealant. The Saw Cut Type Shall Be As Specified In The Type Shall Be The Same As The Preformed Joint Seal Selected.

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint. It Is The Contractor's Responsibility To Ensure That The Proper Depth Is Selected Based On The Manufacturer's Recommendations.

907-823-4001 PREFORMED JOINT SEAL, TYPE I
907-823-4002 PREFORMED JOINT SEAL, TYPE II

Description: Shall include the Manufacturer's Required Joint Preparation Including Sandblasting Both Sides Of The Joint And Blowing The Joint Preformed Joint Seal.

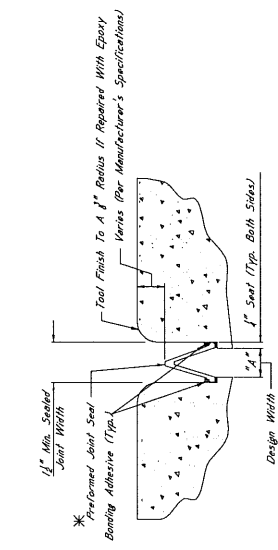
Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

EPOXY MORTAR AND POLYMER CONCRETE NOTES:

1. Specifications: Meissinger Standard Specifications For Road And Bridge Construction 2017.
2. No Change Of The Direction Of Structure. Single Bridge Engineers May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.

GENERAL NOTES:

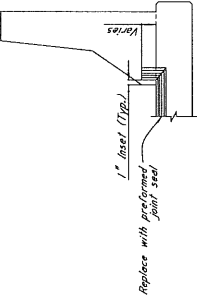
1. For Jersey Slope Barrier, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 3'-6".
2. For Jersey Slope Barrier, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6'-0".



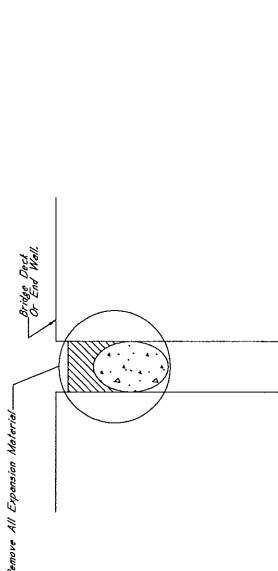
TYPICAL SECTION AT SAWCUT & SEALED JOINT
 Showing Sealed Joint After Sawcut

***NOTES:**
 1. The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
 A. Silicone Joint Sealing System
 www.mscorp.com
 B. Welo SFS Joint System
 www.weloseal.com
 C. Silicone SSS Silicone Strip Seal
 Manufactured By SSI Commercial & Highway Construction Materials
 www.ssi.com

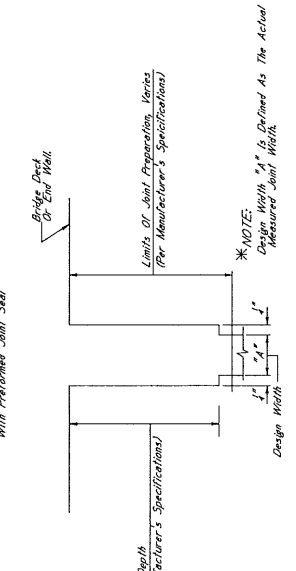
2. For Epoxy Mortar, The P.J. Wilson Silicone Joint Sealing System Was Selected. However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Ensure That The Manufacturer's Recommendations Are Followed. Any Other Variance Between The Specifications Provided By The Manufacturer, Manufacturer Representative, Shall Be Presented At The Time Joint Sealing Begins. The Contractor Is Properly Sourced In Installation Of The Joint Sealant.
3. Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As The Actual Width Of The Joint Opening. The Width Does Not Account For The Sealant. For Design Widths Greater Than Or Equal To 2" With The Maximum Design Width Of Expansion Material Shall Be Required As Directed By The Director Of Structures, State Bridge Engineer. It Is The Contractor's Responsibility To Ensure That The Size Selected Is Appropriate For The Width Of The Joint.



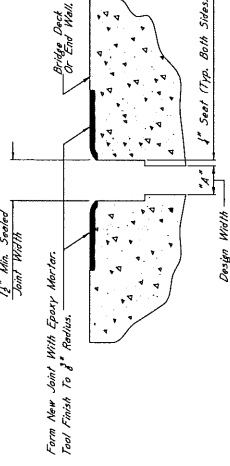
ELEVATION AT END OF SPAN
 Replace with preformed joint seal



TYPICAL SECTION AT EXISTING JOINT
 Showing Existing Expansion Materials To Be Removed And Replaced With Preformed Joint Seal



TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT
 Showing Limits Of Joint Preparation For Application Of New Joint Seal Materials And Sawcut



TYPICAL SECTION AT SAWCUT & JOINT REPAIR
 Showing New Joint With Epoxy Mortar, Tool Finish To 1/2 Radius, Bridge Deck On End Wall, 1/2 Seal (Typ. Both Sides)

NOTES ON ASSOCIATED ITEMS OF WORK:

907-808-4002 JOINT REPAIR

Description:

Shall include the work necessary to repair joints in preparation for the placement of new expansion material. Shall also be included under this item of work, removal of existing silicone seals, compressing and AC sealed joint as attached under this item of work. Removal of joint materials and any trash and debris (including but not limited to compacted aggregate) shall be included under this item of work. All other requirements shall be in accordance with the applicable provisions of Section 808 of the Specifications and any other sections specified therein.

Basis of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.

907-808-4003 JOINT REPAIR WITHOUT EPOXY

Description:

Shall include the work necessary to repair joints in preparation for the placement of new expansion material, as designated in the detail drawings. Existing joint materials will not be paid for directly and shall be considered as absorbed under this item of work. Removal of joint materials and any trash and debris (including but not limited to compacted aggregate) shall be included under this item of work. All other requirements shall be in accordance with the applicable provisions of Section 808 of the Specifications and any other sections specified therein.

Basis of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.

907-823-8001 SAW CUT, TYPE I & 907-823-8002 SAW CUT, TYPE II

Description:

The Saw Cut Depth Shall Be Equivalent To The Installation Depth Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The Prefabricated Joint Seal Selection.

Basis of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint. It Is The Contractor's Responsibility To Determine The Saw Cut Depth To Be Selected Based On The Manufacturer's Recommendations.

907-823-4001 REFORMED JOINT SEAL, TYPE I

Description:

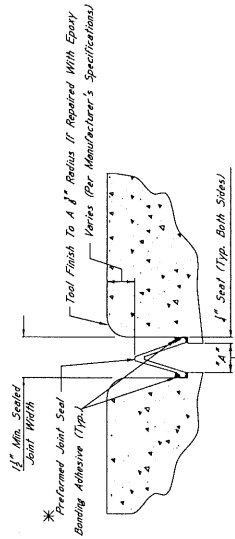
Shall include the manufacturer's required joint preparation including compressing both sides of the joint and forming the joint with preformed joint seal. Compressing for the placement of the reformed joint seal.

Basis of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

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

GENERAL NOTES:

1. Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.
2. Minor Changes To Detail Or Design Or Construction Procedure Will Not Be Considered For Contract Adjustment. Such Changes Will Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item of Work.

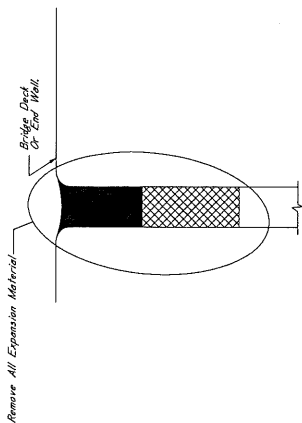


TYPICAL SECTION AT SAWCUT & SEALED JOINT
Showing Sealed Joint After Sawcut And Repair With Epoxy Mortar.

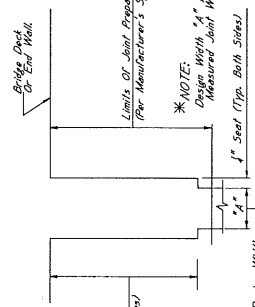
- *NOTES:**
1. The Prefabricated Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
 - A. Silicate Joint Sealing System Manufactured By R.J. Watson, Inc. In Allen, NY www.rjwatson.com
 - B. Wipac SPS Joint System Manufactured By SSI Commercial & Highway Construction Materials www.ssi.com
 - C. Silicate SSS Epoxy Seal.

For Estimating Purposes, The R.J. Watson Silicate Joint Sealing System Was Selected, However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Determine The Installation Depth, And Width, Adhesive Setting Times, And For Joint Preparation, Installation Depth, And Widths, And For The Manufacturer's A Manufacturer's Recommendation Shall Be Provided At The Discretion Of The Contractor To Ensure That The Contractor Is Properly Scheduled In Installation Of The Joint Material.

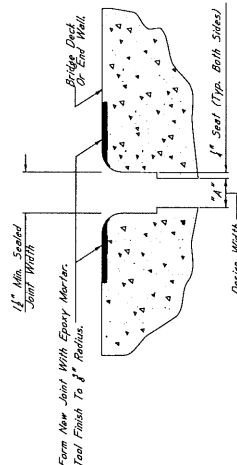
Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As: Seal Required On Both Sides Of The Joint. In Prefabricated Joint Seal Type I, Seal Be Used For Design Widths Less Than 2". Prefabricated Joint Seal, Type II, Shall Be Used Only In Cases Where Design Widths Are Greater Than 2". Another Type Of Expansion Material Shall Be Provided As Directed By The Director Of Structures. The Contractor Shall Be Responsible For The Width Of The Joint.



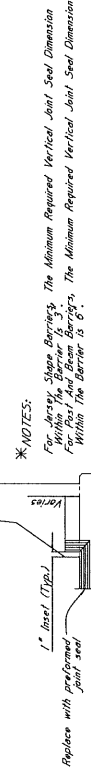
TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expansion Material To Be Removed And Replaced With Preformed Joint Seal.



TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT
Showing Limits Of Joint Preparation For Application Of New Joint Seal Materials And Sawcut



TYPICAL SECTION AT SAWCUT & JOINT REPAIR
Showing Area Where Repairs Are Made After Sawcut With Epoxy Mortar Or Approved Equivalent



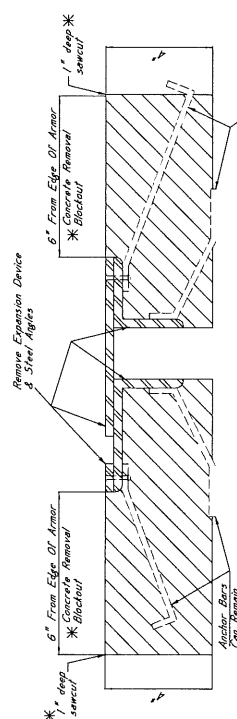
ELEVATION AT END OF SPAN

*** CONCRETE REMOVAL BLOCKOUT NOTES**

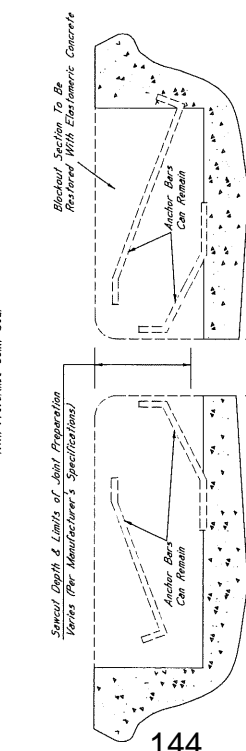
Removal of the concrete blockout area shall be considered an absorbed item of work. Undercut shall use a 1/2" radius. The undercut shall use a No. 4 rebar. The depth of the undercut shall be no more than 30 lbs to complete this work.

*** 1" SAWCUT NOTES:**

All 1" sawcuts shall be considered an absorbed item of work. The contractor shall verify the depth of reinforcing steel. The depth of the reinforcing steel shall be no more than 1" above the concrete. The contractor shall be responsible for the cost of the steel.

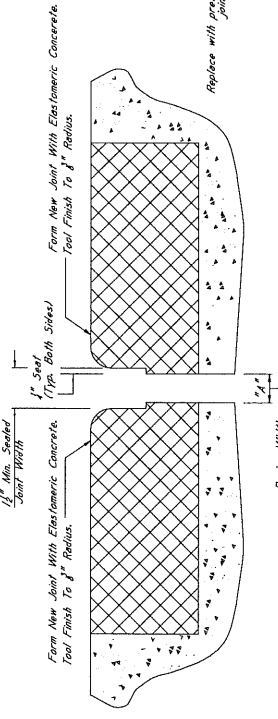


TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expansion Device To Be Removed And Replaced With Preformed Joint Seal



TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL
Showing Limits of Joint Preparation For Application of New Joint Seal Materials

*** NOTE:**
Design Width "A" Is Defined As The Actual Measured Joint Width.



TYPICAL SECTION AT SAWCUT & JOINT REPAIR
Showing Area Where Concrete Is Replaced After Sawcut With Elastomeric Concrete

NOTES ON ASSOCIATED ITEMS OF WORK:

907-8169 REMOVAL OF EXISTING JOINT MATERIAL

Description: Shall include the removal of material associated with armor, sliding plate, and neoprene expansion joints, as designated in the detail drawings. The contractor shall remove the material in the joint area. This item of work, other than joint types, shall not be included under this item of work unless otherwise directed by the engineer. The contractor shall use a 1/2" radius. The depth of the undercut shall be no more than 30 lbs to complete this work. The contractor shall be responsible for the cost of the steel.

Basis of Payment:

Removal of armor and sliding plate joint material will be paid for in linear feet. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.

907-823-0001 SAW CUT, TYPE I, & 907-823-0002 SAW CUT, TYPE II

Description: The saw cut depth shall be established to the acceptable depth and width. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.

Basis of Payment:

The accepted quantities will be paid for in linear feet. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.

907-823-0021 PREFORMED JOINT SEAL, TYPE I

Description: Shall include the manufacturer's prepared joint preparation including sandblasting both sides of the joint and blowing the joint free of debris with compressed air and placement of the new preformed joint seal.

Basis of Payment:

The accepted quantities will be paid for in linear feet. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.

907-823-0022 PREFORMED JOINT SEAL, TYPE II

Description: Shall include the manufacturer's prepared joint preparation including sandblasting both sides of the joint and blowing the joint free of debris with compressed air and placement of the new preformed joint seal.

Basis of Payment:

The accepted quantities will be paid for in linear feet. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.

ELASTOMERIC CONCRETE NOTES

907-824-0007 BRIDGE REPAIR ELASTOMERIC CONCRETE

Description: Elastomeric concrete shall be one of the following products installed according to the manufacturer's specifications:

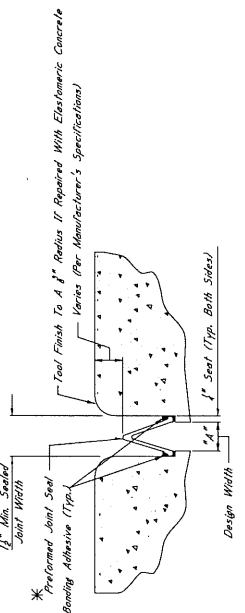
- A. Poly-Ton Elastomeric Concrete Manufactured By R.J. Watson, Inc. In Akron, NY
- B. Webcrete II Manufactured By Weicon Bowman Acme Corporation In Amherst, NY
- C. Delcrete Elastomeric Concrete Manufactured By The D.S. Brown Company In North Baltimore, OH

Basis of Payment:

The accepted quantities will be paid for in cubic yards. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.

GENERAL NOTES:

1. Specifications, Manufacturer Standard Specifications For Road And Bridge Construction, 2012.
2. No Change of Plans Will Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer.
3. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.



TYPICAL SECTION AT SAWCUT & SEALED JOINT
Showing Sealed Joint After Sawcut And Repair With Elastomeric Concrete

*** NOTES:**

1. The preformed joint seal shall be one of the following, installed according to the manufacturer's specifications:

- A. Silcaflex Joint Sealing System Manufactured By R.J. Watson, Inc. In Akron, NY
- B. Webcrete II Manufactured By Weicon Bowman Acme Corporation In Amherst, NY
- C. Silgac 555 Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials

2. For Estimating Purposes, The R.J. Watson Silicone Joint Sealing System Was Used. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.

3. Joints Shall Be Sealed At Their Design Width, Dimension "A", Which Is Defined As The Actual Width Of The Joint Opening. The width does not account for the seal required on both sides of the joint. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.

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35. The contractor shall be responsible for the cost of the steel. The contractor shall be responsible for the cost of the steel.

NOTES ON ASSOCIATED ITEMS OF WORK:

202-9169 REMOVAL OF EXISTING JOINT MATERIAL

Description: Shall include the removal of material associated with existing joint seal. The joint seal shall be removed by cutting along the joint line. The concrete breakout area shall be marked. This item of work includes the removal of the joint seal, the concrete breakout area, and the removal of the joint seal. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area.

Basis of Payment: Payment of armor and slitting plate joint material will be paid for in linear feet at the contract unit price along the length of the bridge deck on each side of the joint. Payment of the removal of the joint seal and the concrete breakout area will be paid for in linear feet along the centerline of the joint.

907-823-8001 SAW CUT, TYPE I & 907-823-8002 SAW CUT, TYPE II

Description: The saw cut depth shall be equivalent to the installation depth required by the manufacturer's specifications. The saw cut type shall be the same as the former joint seal selected.

Basis of Payment: The accepted quantities will be paid for in linear feet at the contract unit price along the length of the bridge deck on each side of the centerline joint.

907-823-4001 PREFORMED JOINT SEAL, TYPE I

Description: Shall include the manufacturer's prepared joint preparation free of debris with compressed air and placement of the new preformed joint seal.

Basis of Payment: The accepted quantities will be paid for in linear feet at the contract unit price along the length of the centerline joint.

907-823-4002 PREFORMED JOINT SEAL, TYPE II

Description: Shall include the manufacturer's prepared joint preparation free of debris with compressed air and placement of the new preformed joint seal.

Basis of Payment: The accepted quantities will be paid for in linear feet at the contract unit price along the length of the centerline joint.

ELASTOMERIC CONCRETE NOTES

907-823-4000 BRIDGE REPAIR ELASTOMERIC CONCRETE

Description: Elastomeric concrete shall be one of the following products, installed according to the manufacturer's specifications:

- A. Poly-Ton Elastomeric Concrete
Manufactured by R.J. Watson, Inc. in Akron, NY
www.rjwatson.com
- B. Waka-Crete II
Manufactured by Wakon Bowman Acme Corporation in Amherst, NY
www.wakacrete.com
- C. Delcrete Elastomeric Concrete
Manufactured by The D.S. Brown Company in North Baltimore, OH
www.delcrete.com

Basis of Payment: The accepted quantities will be paid for in cubic yards at the contract unit price.

GENERAL NOTES:

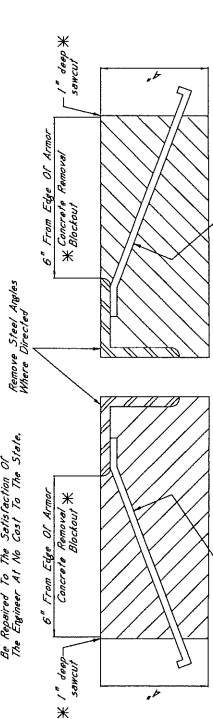
1. Specifications: Minimum Standard Specifications For Road And Bridge Construction, 2017.
2. No Change of Plans Will Be Permitted Except By Written Approval of the Engineer. Any Change of Construction Method or Material Must Be Authorized by the Engineer. Proposed Changes Will Not Be Considered For Contract Price Adjustment. Payment Will Not Be Paid For Directly And Shall Therefore Be Considered An Assessed Item of Work.

*** 1" SAWCUT NOTES:**

All 1" sawcuts shall be considered an assessed item of work. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area.

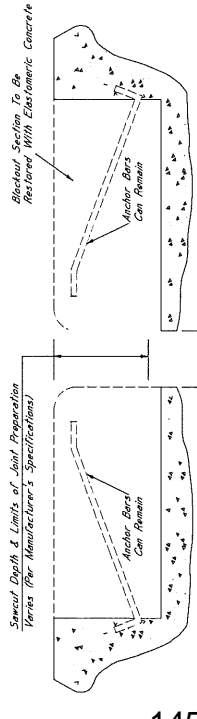
*** CONCRETE REMOVAL BLOCKOUT NOTES**

Removal of the concrete blockout area shall be considered an assessed item of work. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area. The contractor shall be responsible for the removal of the joint seal and the concrete breakout area.



TYPICAL SECTION AT EXISTING JOINT

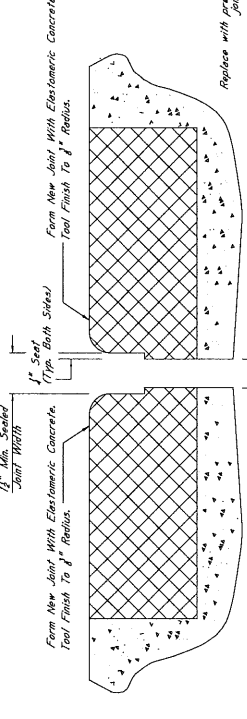
Showing Existing Conditions With Preformed Joint Seal



*** NOTES:**
Design Width "A" is Defined As The Actual Measured Joint Width.

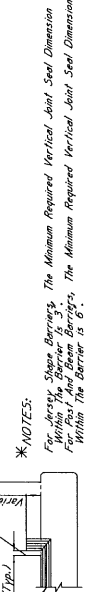
TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL

Showing Limits of Joint Preparation For Application of New Joint Seal Materials

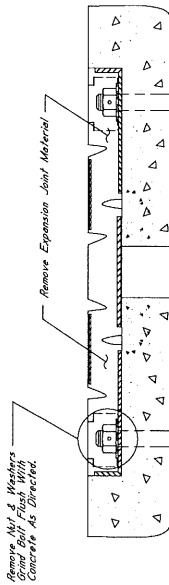


TYPICAL SECTION AT SAWCUT & JOINT REPAIR

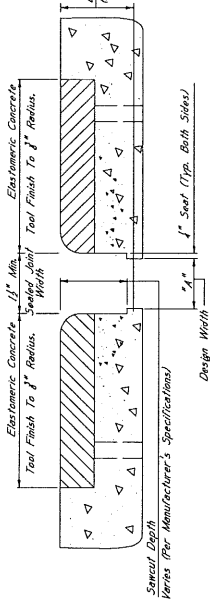
Showing Area Where Barriers Are Made After Sawcut



*** NOTES:**
For Jersey Slope Barriers The Minimum Required Vertical Joint Seal Dimension For Post And Beam Barriers. The Minimum Required Vertical Joint Seal Dimension Within The Barrier is 6\"/>

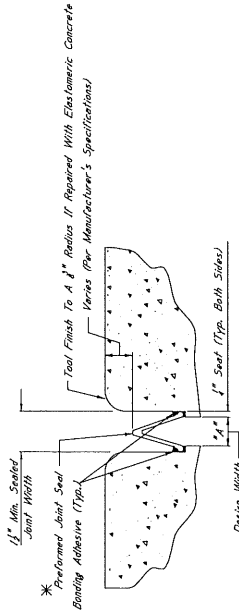


TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expanding Device To Be Removed And Replaced With Preformed Joint Seal



TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL
Showing Limits Of Joint Preparation For Application Of New Joint Seal Methods

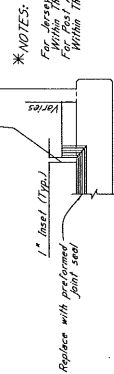
*NOTE:
Design Width "A" Is Defined As The Actual Measured Joint Width.



TYPICAL SECTION AT SAWCUT & SEALED JOINT
Showing Sawcut Joint After Concrete Joint Repair With Elastomeric Concrete

*NOTES:

- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
 - Silicone Joint Sealing System Manufactured By P.C. Welton, Inc. In Akron, NY www.pcwelton.com
 - White SPS Joint Sealing Manufactured By Welton Boman Acme Corporation In Amherst, NY www.wbcorp.com
 - Siligrac SSS Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials
- For Sealing Purposes, The 8" Maximum Elongation Joint Sealing System Was Selected However, Should Another Superior Be Chosen, It Is The Contractor's Responsibility To Ensure That The Manufacturer's Recommendations Are Followed And That The Manufacturer's Representative Shall Be Present At The Time Joint Sealing Begins. A Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins. The Contractor Is Properly Sourced In Installation Of The Joint Sealant.
- Seals Shall Be Sealed At Their Design Widths Dimension "A", Which Is Defined As The Actual Width Of The Joint Opening. This Width Does Not Account For The 1/4" Allowance On Widths Less Than 2" Joint Preparation Seal Width. Seal Width For Design Widths Greater Than Or Equal To 2" With The Maximum Design Width Of Expansion Material Shall Be As Required As Directed By The Director Of Structures, State Bridge Engineer. It Is The Contractor's Responsibility To Ensure That The Size Selected Is Appropriate For The Width Of The Joint.



ELEVATION AT END OF SPAN

*NOTES:
For Jersey Slope Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 3" Within The Barrier Is 6". The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6".

NOTES ON ASSOCIATED ITEMS OF WORK:

202-0189 REMOVAL OF EXISTING JOINT MATERIAL

Description: Shall include The Removal Of Material Associated With Areas, Slabbing, And Joint Drains Expansion Joints, As Well As The Removal Of Existing Joint Sealant. All Joint Types Shall Not Be Included Under This Item Of Work Unless Otherwise Directed By The Engineer. Existing Joint Sealant Shall Be Removed To A Depth Including But Not Limited To Copied Joint Preparation And Treats Located At Any Depth Within The Joint. Sealant Shall Be Included Under This Item Of Work.

Basis Of Payment: Payment For Removal And Sealing Each Joint Method Will Be Paid For On A Lump Sum Basis For The Entire Length Of The Bridge Deck On Each Side Of The Centerline Joint, While Removal Of Existing Joint Sealant Will Be Paid For As The Length Along The Centerline Of The Joint.

907-823-8001 SAW CUT, TYPE I & 907-823-8002 SAW CUT, TYPE II
Description: The Saw Cut Depth Shall Be Equivalent To The Installation Depth Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected.

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.

907-823-4001 PREFORMED JOINT SEAL, TYPE I,
907-823-4002 PREFORMED JOINT SEAL, TYPE II
Description: Shall include The Manufacturer's Required Joint Preparation For The Installation Of The Sealant, The Saw Cut, The Joint Sealant, The Preformed Joint Seal.

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

907-824-8001 ELASTOMERIC CONCRETE REPAIR
Description: Elastomeric Concrete Shall Be One Of The Following Products, Installed According To The Manufacturer's Specifications:

- Poly-Ton Elastomeric Concrete Manufactured By P.C. Welton, Inc. In Akron, NY www.pcwelton.com
- White-Crete II Manufactured By Welton Boman Acme Corporation In Amherst, NY www.wbcorp.com
- Dakota Elastomeric Concrete Manufactured By The D.S. Brown Company In North Baltimore, MD www.dsbrown.com

Basis Of Payment: The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

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.

Bridge Repair on I-20/59 over SR 145/22nd Ave. (Bridge No. 153.0B), known as State Project No. SP-0059-03(103) / 109488301 in Lauderdale County.

| Line no. | Item Code | Adj Code | Quantity | Units | Description[Fixed Unit Price] |
|----------------------|---------------|----------|----------|-------------|--|
| Roadway Items | | | | | |
| 0010 | 618-A001 | | 1 | Lump Sum | Maintenance of Traffic |
| 0020 | 619-A1007 | | 210 | Linear Feet | Temporary Traffic Stripe, Continuous White, Type 1 or 2 Tape |
| 0030 | 619-A2008 | | 210 | Linear Feet | Temporary Traffic Stripe, Continuous Yellow, Type 1 or 2 Tape |
| 0040 | 619-D1001 | | 48 | Square Feet | Standard Roadside Construction Signs, Less than 10 Square Feet |
| 0050 | 619-D2001 | | 120 | Square Feet | Standard Roadside Construction Signs, 10 Square Feet or More |
| 0060 | 619-E1001 | | 1 | Each | Flashing Arrow Panel, Type C |
| 0070 | 619-F1001 | | 310 | Linear Feet | Concrete Median Barrier, Precast |
| 0080 | 619-F2001 | | 310 | Linear Feet | Remove and Reset Concrete Median Barrier, Precast |
| 0090 | 619-G4005 | | 90 | Linear Feet | Barricades, Type III, Single Faced |
| 0100 | 619-G5001 | | 29 | Each | Free Standing Plastic Drums |
| 0110 | 619-G7001 | | 4 | Each | Warning Lights, Type "B" |
| 0120 | 619-G8001 | | 7 | Each | Warning Lights, Type "C" |
| 0130 | 620-A001 | | 1 | Lump Sum | Mobilization |
| 0140 | 627-K001 | | 6 | Each | Red-Clear Reflective High Performance Raised Markers |
| 0150 | 907-619-E3001 | | 4 | Each | Changeable Message Sign |
| Bridge Items | | | | | |
| 0160 | 907-808-A002 | (S) | 198 | Linear Feet | Joint Repair |
| 0170 | 907-823-A001 | | 99 | Linear Feet | Preformed Joint Seal, Type I |
| 0180 | 907-824-PP003 | | 56 | Square Feet | Bridge Repair, Removal and Replacement of Bridge Deck |

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

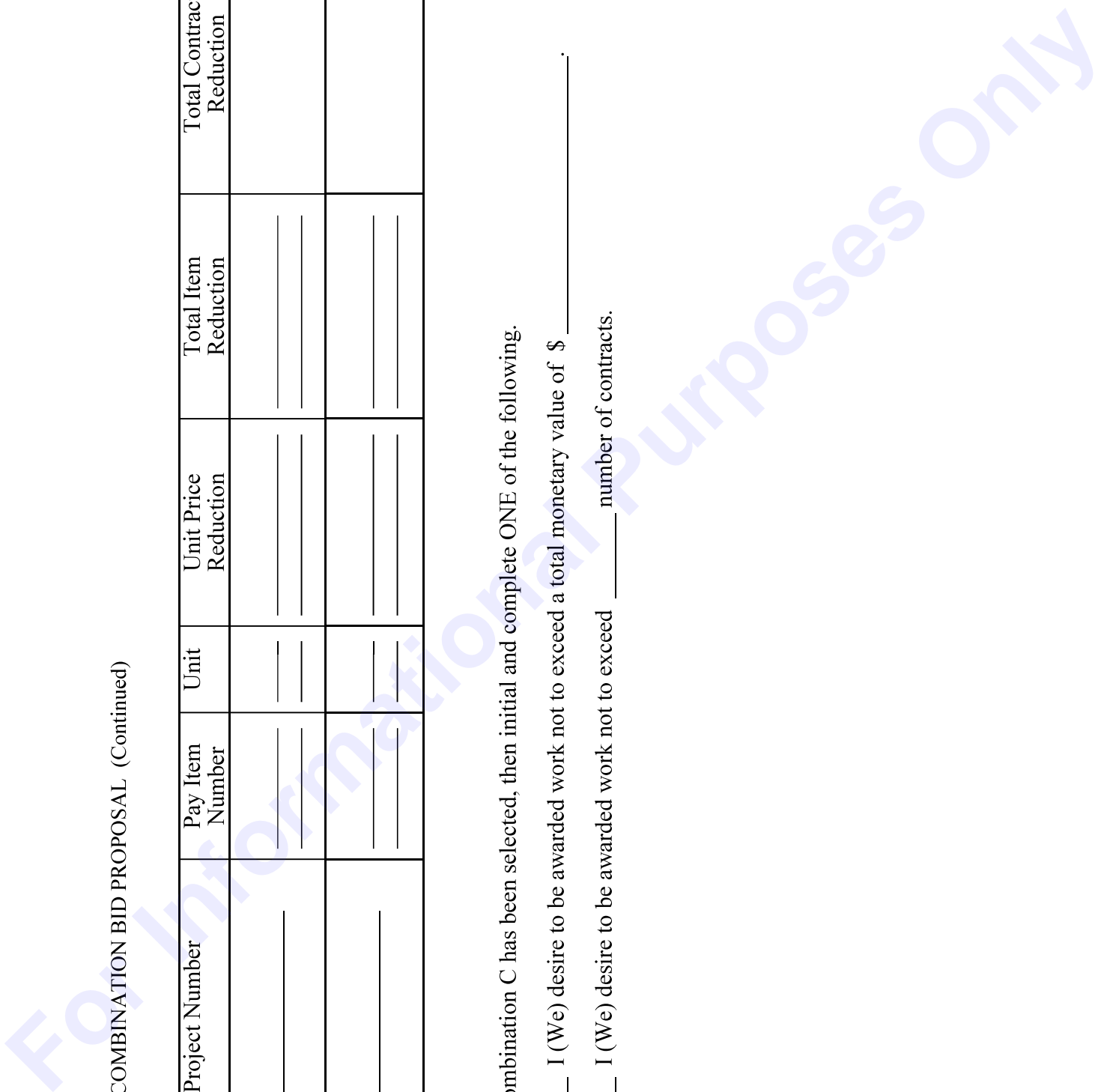
SECTION 905 - COMBINATION BID PROPOSAL (Continued)

| 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-0059-03(103)/ 109488301000**

in **Lauderdale** 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)

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-0059-03(103)/ 109488301000**

in **Lauderdale** 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 _____
LOCATED IN THE COUNTY(IES) OF _____

STATE OF MISSISSIPPI
COUNTY OF HINDS

This Contract is entered into by and between the Mississippi Transportation Commission (the "Commission") and the undersigned contractor (the "Contractor"), as follows:

As consideration for this Contract, the Commission agrees to pay the Contractor the amount(s) set out in the Proposal attached hereto. Said payment will be made in the manner and at the time(s) specified in the Specifications and/or Special Provisions, if any. In exchange for said consideration, the Contractor hereby agrees to accept the prices stated in the Proposal as full compensation for the furnishing of all labor, materials and equipment, and the execution of the scope of work identified for this referenced Project as contemplated in this Contract, and as more fully outlined in the Contract Documents (the "Work"). The Contract Documents consist of the Advertisement, the Notice to Bidders, the Proposal, the Specifications, the Special Provisions, and the approved Plans, all of which are hereby made a part of this Contract and incorporated herein by reference.

The Contractor shall be responsible for all loss or damage arising out of, or in any way in connection with the Work, or from any unforeseen obstructions or difficulties that may be encountered in the prosecution of the Work, and for all risks of every description connected with the Work, with the exception of any items specifically excluded in the Contract Documents. The Contractor shall fully and faithfully complete the Work in a good and workmanlike manner, according to the Contract Documents and any Supplemental Agreements thereto.

The Contractor further agrees that the Work shall be done under the direct supervision of, and to the complete satisfaction of, the Executive Director of the Mississippi Department of Transportation, or his authorized representative(s), and, when federal funds are involved, subject to the inspection and approval of the Federal Highway Administration, or its agents, and/or the agents of any other state or federal agency whose funds are involved. Further, the Work shall be done in accordance with any applicable state and federal laws, and any such rules and regulations issued by the Commission and/or any relevant Federal Agency.

The Contractor agrees that all labor as outlined in the Contract Documents may be secured from a list furnished by the Manager of the Win Job Center nearest the project location, or any successor thereto.

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

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

Witness our signatures, this the ____ day of _____, 20__.

Contractor

By: _____
Title: _____

Signed and sealed in the presence of: (name and address of witness)

MISSISSIPPI TRANSPORTATION COMMISSION

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 BOND**

PERFORMANCE BOND FOR THE FOLLOWING CONTRACT:

Project No.: _____

For the construction of: _____

Contract date: _____ Contract amount: _____

FOR OWNER: MISSISSIPPI TRANSPORTATION COMMISSION, 401 N. WEST STREET, JACKSON, MISSISSIPPI 39201.

CONTRACTOR (full legal name, contact person, phone number and address):

SURETY (legal name, phone number, principal place of business and address *for notice purposes*):

Second Surety (if applicable):

The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns, to the Owner for the performance of the Contract, which is incorporated herein by reference, and subject to the following terms:

1. If the Contractor fully and faithfully performs the Contract, the Surety and the Contractor shall have no obligation under this Bond.
2. The Surety's obligation under this Bond shall arise after:
 - (a) the Owner first provides notice to the Contractor and the Surety that termination is imminent, pursuant to the current edition of the Mississippi Standard Specifications for Road and Bridge Construction, which is a part of the Contract; and
 - (b) the Owner declares a Contractor Default, terminates the Contract, and notifies the Surety.
3. The Surety shall promptly and at the Surety's expense, take one of the following actions:
 - (a) Arrange for the Contractor, with the consent of the Owner, to perform and complete the Contract; or
 - (b) Undertake to perform and complete the Contract itself, through its agents or independent contractors.
4. If the Surety does not proceed as provided in Paragraph 3, within 20 calendar days as set forth in Section 108.08 of the current edition of the Mississippi Standard Specifications for Road and Bridge Construction, then the Surety shall be deemed to be in default on this Bond, and the Owner shall be entitled to enforce any remedy available to it under the Contract and applicable law.
5. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication, for

- (a) the responsibilities of the Contractor for correction of defective work and completion of the Contract;
 - (b) additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 3; and
 - (c) liquidated damages, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of the Contractor.
6. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related subcontracts, purchase orders and other obligations.
 7. The penal sum of the Bond shall be subject to increase or decrease based on any subsequent Supplemental Agreements and/or final contract quantities.
 8. Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address listed for notice purposes on the first page of this Bond.

CONTRACTOR AS PRINCIPAL

Company: _____

Signature: _____

Name: _____

Title: _____

Address: _____

SURETY

Company: _____

Signature: _____

MS Insurance ID # _____

Name: _____

Title: _____

Address: _____

SURETY (if applicable)

Company: _____

Signature: _____

MS Insurance ID # _____

Name: _____

Title: _____

Address: _____

**SECTION 903
PAYMENT BOND**

PAYMENT BOND FOR THE FOLLOWING CONTRACT:

Project No.: _____

For the construction of: _____

Contract date: _____ Contract amount: _____

FOR OWNER: MISSISSIPPI TRANSPORTATION COMMISSION, 401 N. WEST STREET, JACKSON, MISSISSIPPI 39201.

CONTRACTOR (full legal name, contact person, phone number and address):

SURETY (legal name, phone number, principal place of business and address *for notice purposes*):

Second Surety (if applicable):

The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns, to the Owner for payment of labor, materials and equipment furnished for use in the performance of the Contract, which is incorporated herein by reference, subject to the following terms:

1. If the Contractor promptly makes payment of all sums due to any and all subcontractors, suppliers and/or laborers, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Contract, then the Surety and the Contractor shall have no obligation under this Bond.
2. The Owner shall provide notice to the Surety of any claims, demands, liens or suits against the Owner or the Owner's property that it receives from any person or entity ("Claimants") seeking payment for labor, materials or equipment furnished for use in the performance of the Contract.
3. Upon notice of any claims, demands, liens or suits provided by the Owner or Contractor or given to the Surety by a Claimant, the Surety shall promptly and at the Surety's expense, defend, indemnify and hold harmless the Owner against said claim, demand, lien or suit and shall take the following additional actions:
 - (a) Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and
 - (b) Pay or arrange for payment of any undisputed amounts.
4. The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have no obligation under this Bond to make payments to, or give notice on behalf of, Claimants or otherwise have any obligations to Claimants under this Bond.

5. The Surety hereby waives notice of any change, including changes of time, to the Contract or to related subcontracts, purchase orders and other obligations.
6. The penal sum of the Bond shall be subject to increase or decrease based on any subsequent Supplemental Agreements and/or final contract quantities.

CONTRACTOR AS PRINCIPAL

Company: _____
Signature: _____
Name: _____
Title: _____
Address: _____

SURETY

Company: _____
Signature: _____ MS Insurance ID # _____
Name: _____
Title: _____
Address: _____

SURETY (if applicable)

Company: _____
Signature: _____ MS Insurance ID # _____
Name: _____
Title: _____
Address: _____



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 **Bridge Repair on I-20/59 over SR 145/22nd Ave. (Bridge No. 153.0B), known as State Project No. SP-0059-03(103) / 109488301 in Lauderdale 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