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22 -



SM No. CMP2051490051

# PROPOSAL AND CONTRACT DOCUMENTS

## FOR THE CONSTRUCTION OF

22

Mill & Overlay approximately 9 miles of US 51 from Fisher's Crossing to the Beginning of the 5-Lane Section at Glenwild, known as State Project Nos. MP-2051-49(005) / 307510301 & MP-2051-22(003) / 307510302 in Montgomery & Grenada Counties.

Project Completion: 72 Working Days

**(STATE DELEGATED)**

### NOTICE

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

Electronic addendum updates will be posted on [www.gomdot.com](http://www.gomdot.com)

# SECTION 900

## OF THE CURRENT 2017 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

JACKSON, MISSISSIPPI

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
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**PROJECT: MP-2051-49(005)/307510301 - Montgomery**  
**MP-2051-22(003)/307510302 - Grenada**

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State Certification Regarding Non-Collusion, Debarment and Suspensions  
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Progress Schedule

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

04/28/2022 10:12 AM

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

## SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Tuesday, May 24, 2022, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Mill & Overlay approximately 9 miles of US 51 from Fisher's Crossing to the Beginning of the 5-Lane Section at Glenwild, known as State Project Nos. MP-2051-49(005) / 307510301 & MP-2051-22(003) / 307510302 in Montgomery & Grenada Counties.

The attention of bidders is directed to the predetermined minimum wage rate set by the U. S. Department of Labor under the Fair Labor Standards Act.

The Mississippi Department of Transportation hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, age, disability, religion or national origin in consideration for an award.

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

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

Bid bond, signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent, with Power of Attorney attached, a Cashier's check or Certified Check for five (5%) percent of bid, payable to STATE OF MISSISSIPPI, must accompany each proposal.

The attention of bidders is directed to the provisions of Subsection 102.07 pertaining to irregular proposals and rejection of bids.

BRAD WHITE  
EXECUTIVE DIRECTOR

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SUPPLEMENT TO NOTICE TO BIDDERS NO. 1**

**DATE: 06/08/2021**

**SUBJECT: Governing Specifications**

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

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

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**SECTION 904 - NOTICE TO BIDDERS NO. 1**

**CODE: (IS)**

**DATE: 03/01/2017**

**SUBJECT: Governing Specifications**

The current (2017) Edition of the Standard Specifications for Road and Bridge Construction adopted by the Mississippi Transportation Commission is made a part hereof fully and completely as if it were attached hereto, except where superseded by special provisions, or amended by revisions of the Specifications contained within this proposal. Copies of the specification book may be purchased from the MDOT Construction Division, or online at [shopmdot/default.aspx?StoreIndex=1](http://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 7<sup>th</sup> 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](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](http://ops.fhwa.dot.gov/freight/sw/brdgcalc/calc_page.htm)



**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

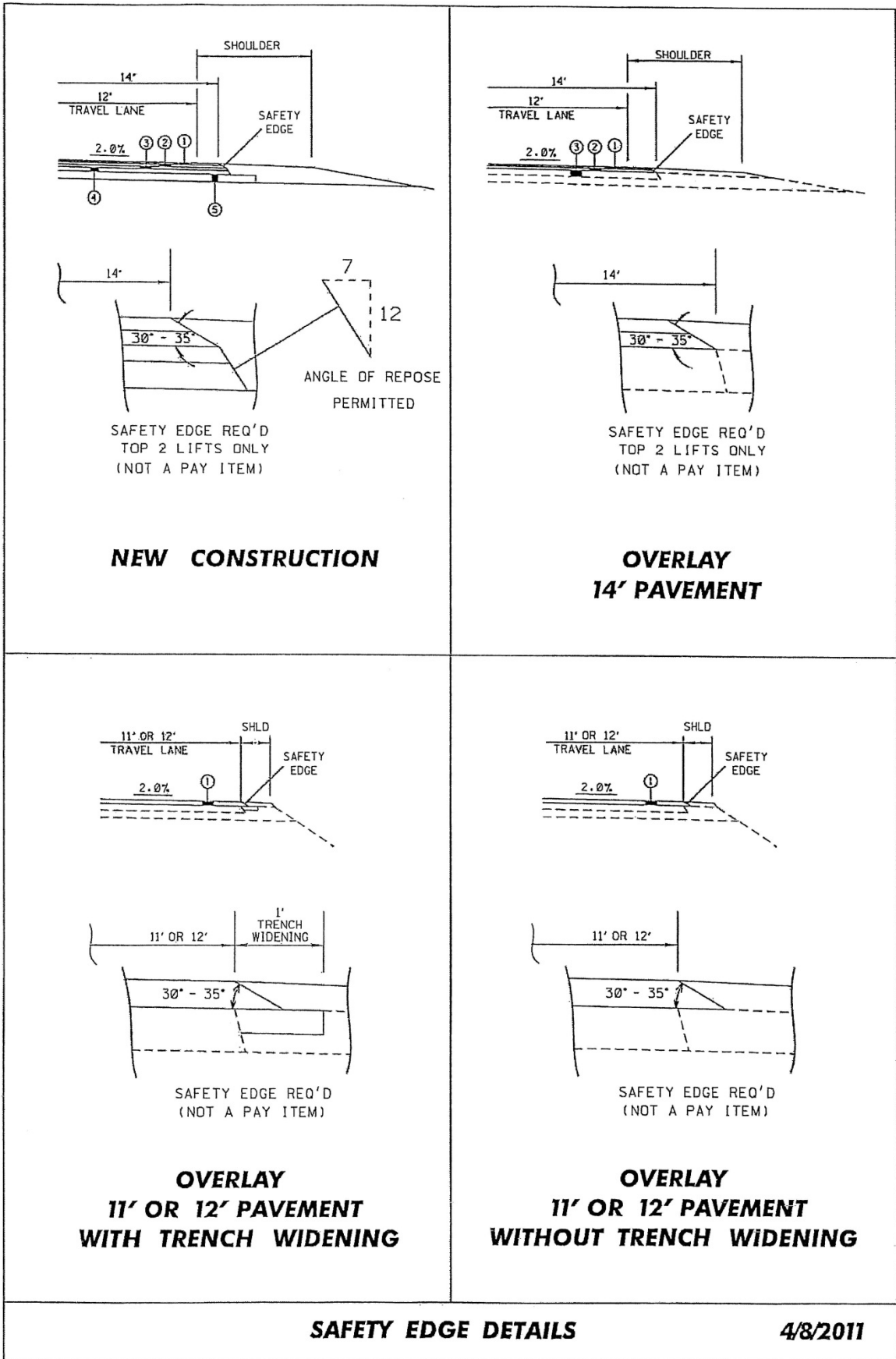
**SECTION 904 - NOTICE TO BIDDERS NO. 13**

**CODE: (IS)**

**DATE: 03/01/2017**

**SUBJECT: Safety Edge**

Bidders are hereby advised that the Shoulder Wedge (Safety Edge) specified in Section 401, Asphalt Pavements, shall only apply to the top two (2) lifts of asphalt. Open Graded Friction Courses (OGFC) are not to be considered a lift as it pertains to safety edge. Attached is a drawing showing the safety edge. Note that the shoulder dimensions in the bottom two drawings will be less than three feet (3').



**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 - NOTICE TO BIDDERS NO. 113**

**CODE: (SP)**

**DATE: 04/18/2017**

**SUBJECT: Tack Coat**

Bidders are advised that in addition to the products listed on the Department's APL as referenced in Subsection 401.03.1.2 on page 256, the Contractor may use one of the following as a tack coat.

- CSS-1
- CSS-1h
- SS-1
- SS-1h

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 - NOTICE TO BIDDERS NO. 296**

**CODE: (SP)**

**DATE: 07/25/2017**

**SUBJECT: Reduced Speed Limit Signs**

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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

**CODE: (SP)**

**DATE: 10/10/2017**

**SUBJECT: Mississippi Agent or Qualified Nonresident Agent**

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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 - NOTICE TO BIDDERS NO. 447**

**CODE: (SP)**

**DATE: 10/18/2017**

**SUBJECT: Traffic on Milled Surface in Rural Areas**

Bidders are hereby advised that when the main lanes of a roadway are fine milled, traffic will be allowed to run on a milled surfaces for up to seven (7) calendar days. The Contractor will be assessed a penalty of \$5,000 per calendar day afterwards until the milled surfaces are covered with the next lift of asphalt. It shall be the Contractor's responsibility to ensure that the milling operations do not commence until such time as forecasted weather conditions are suitable enough to allow the placement of the asphalt pavement after the milling operations.

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 516

CODE: (IS)

DATE: 11/28/2017

SUBJECT: Errata and Modifications to the 2017 Standard Specifications

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

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



**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

**CODE: (SP)**

**DATE: 11/13/2018**

**SUBJECT: Early Notice to Proceed**

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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

**CODE: (IS)**

**DATE: 11/16/2018**

**SUBJECT: Material Storage Under Bridges**

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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

**CODE: (IS)**

**DATE: 11/27/2018**

**SUBJECT: Fuel and Material Adjustments**

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

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**SECTION 904 - NOTICE TO BIDDERS NO. 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<sup>ths</sup> 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

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.

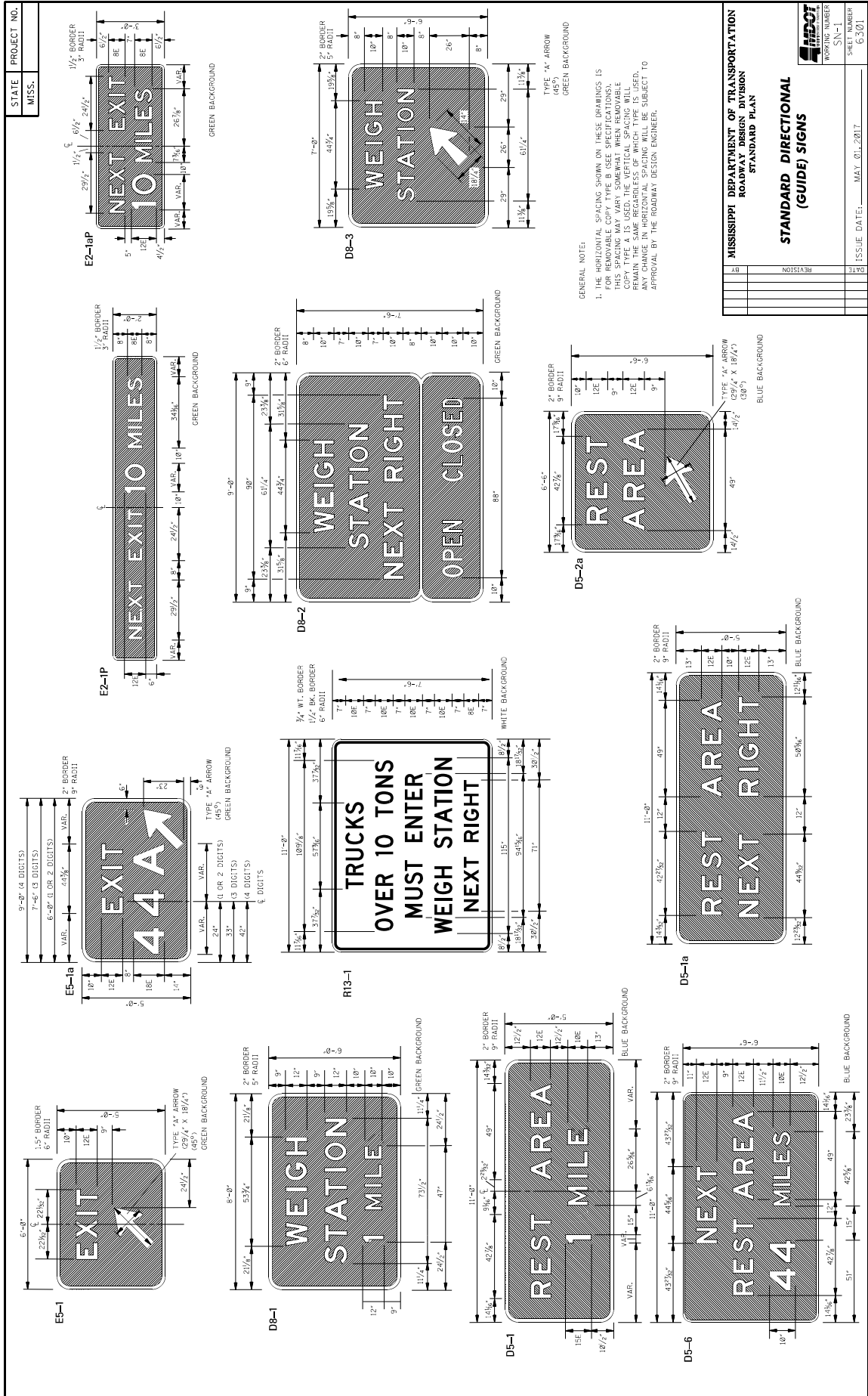


**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

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

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



STATE MISS.	PROJECT NO.
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**GENERAL NOTES:**

- U.S. AND MISSISSIPPI SHIELDS DO NOT HAVE AN OUTSIDE BORDER.
- INTERSTATE, U.S. AND MISSISSIPPI SHIELDS ARE TO BE USED ONLY ON GUIDE SIGNS. SEE OTHER DRAWINGS FOR SHIELDS TO BE USED INDEPENDENTLY AS ROUTE NUMBERS.
- ON INTERSTATE SHIELDS, THE LEGEND AND BACKGROUND SHALL BE REFLECTORIZED.
- ON U.S. AND MISSISSIPPI SHIELDS, THE BACKGROUND SHALL BE REFLECTORIZED.
- IN SOME CASES, NUMERALS CANNOT BE ACCOMMODATED WITHIN THE SHIELD. IN THESE SITUATIONS, THE STANDARD SERIES 'D' NUMERALS MAY BE REDUCED TO SERIES 'C' NUMERALS OR AS SMALLER HEIGHT COMMONLY AVAILABLE.

	DIMENSIONS (INCHES)			
	A	B	C	D
12-DIGIT(S)	24"	36"	36"	18"
12-2-DIGIT(S)	36"	54"	54"	27"
18-DIGIT(S)	48"	72"	72"	36"
18-2-DIGIT(S)	72"	108"	108"	54"
24-DIGIT(S)	96"	144"	144"	72"

	DIMENSIONS (INCHES)			
	A	B	C	D
12-DIGIT(S)	24"	36"	36"	18"
12-2-DIGIT(S)	36"	54"	54"	27"
18-DIGIT(S)	48"	72"	72"	36"
18-2-DIGIT(S)	72"	108"	108"	54"
24-DIGIT(S)	96"	144"	144"	72"

**GENERAL NOTES:**

- THESE SIGNS SHALL BE FABRICATED ON 0.063" THICK ALUMINUM (6061-T6) OR 0.075" THICK GALVANNEED STEEL. THE NUMERALS (6061-T6) ARE TO BE REFLECTORIZED. DIRECTIONS DESIGNATED ON PLANS, THESE SIGNS WILL NOT BE PAID FOR AS SEPARATE SIGNS BUT SHALL BE CONSIDERED AS PART OF THE MAJOR SIGNS TO WHICH THEY ARE AFFIXED.
- LETTER SIZE: 12" SERIES "D"
- COLOR: LEGEND - BLACK; BACKGROUND - HI-INTENSITY YELLOW

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

**ROUTE SHIELDS  
AND  
"EXIT ONLY" PANELS**

DATE	REVISION

SHEET NUMBER  
SN-2  
SHEET NUMBER  
63/62

ISSUE DATE: MAY 01, 2017



SIGN NUMBER	R1-1		R1-2		R2-1		R2-4g		R3-1		R3-2		R3-4		R3-5		R4-3				
	ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.125"	0.080"	0.100"	0.080"	0.125"	0.100"	0.080"	0.125"	0.100"	0.080"	0.100"	0.080"	0.100"	0.080"	0.100"	0.080"	0.125"			
STOP		R1-1		R1-2		R2-1		R2-4g		R3-1			R3-2		R3-4		R3-5		R4-3		
LETTERS & NUMERALS	12" SERIES 'C' 16" SERIES 'C'	R1-1	5" SERIES 'C' 3" SERIES 'C'	R1-2	6" SERIES 'E' 8" SERIES 'E' 10" SERIES 'E' 14" SERIES 'E'	R2-1	8" SERIES 'E' 10" SERIES 'E' 14" SERIES 'E'	R2-4g	12" VERT. CENTER 15" VERT. CENTER	R3-1	12" VERT. CENTER 15" VERT. CENTER	12" VERT. CENTER 15" VERT. CENTER	R3-2	12" VERT. CENTER 15" VERT. CENTER	12" VERT. CENTER 15" VERT. CENTER	R3-4	12" VERT. CENTER 15" VERT. CENTER	R3-5	12" VERT. CENTER 15" VERT. CENTER	R4-3	
WIDTH OF BORDER	1/4" WHITE 3/8" WHITE	R1-1	1/4" WHITE 3/8" WHITE	R1-2	1/4" WHITE 3/8" WHITE	R2-1	1/4" WHITE 3/8" WHITE	R2-4g	1/4" WHITE 3/8" WHITE	R3-1	1/4" WHITE 3/8" WHITE	1/4" WHITE 3/8" WHITE	R3-2	1/4" WHITE 3/8" WHITE	1/4" WHITE 3/8" WHITE	R3-4	1/4" WHITE 3/8" WHITE	1/4" WHITE 3/8" WHITE	R3-5	1/4" WHITE 3/8" WHITE	R4-3
SIZE (WIDTH X HEIGHT)	36" OCTAGON 48" OCTAGON	R1-1	36" TRIANGLE 48" TRIANGLE	R1-2	36" X 48" 48" X 60"	R2-1	36" X 48" 48" X 60"	R2-4g	24" X 30" 36" X 36" 48" X 60"	R3-1	24" X 24" 36" X 36" 48" X 60"	24" X 24" 36" X 36" 48" X 60"	R3-2	24" X 24" 36" X 36" 48" X 60"	24" X 24" 36" X 36" 48" X 60"	R3-4	30" X 36" 36" X 48" 48" X 60"	30" X 36" 36" X 48" 48" X 60"	R3-5	30" X 36" 36" X 48" 48" X 60"	R4-3
COLORS	WHITE RED	R1-1	WHITE RED	R1-2	BLACK WHITE	R2-1	BLACK WHITE	R2-4g	BLACK WHITE	R3-1	BLACK WHITE	BLACK WHITE	R3-2	BLACK WHITE	BLACK WHITE	R3-4	BLACK WHITE	BLACK WHITE	R3-5	BLACK WHITE	R4-3
REFLECTORIZATION	ALL	R1-1	ALL	R1-2	B'GROUND	R2-1	B'GROUND	R2-4g	B'GROUND	R3-1	B'GROUND	B'GROUND	R3-2	B'GROUND	B'GROUND	R3-4	B'GROUND	B'GROUND	R3-5	B'GROUND	R4-3
NUMBER OF POSTS	1	R1-1	1	R1-2	1	R2-1	1	R2-4g	1	R3-1	1	1	R3-2	1	1	R3-4	1	1	R3-5	1	R4-3
TURNING POINTS TO BE PUNCHED (3/8" DIA.)	2	R1-1	4	R1-2	2	R2-1	2	R2-4g	2	R3-1	2	2	R3-2	2	2	R3-4	2	2	R3-5	2	R4-3
PUNCHING DISTANCE FROM CENTER	18" VERT. CENTER	R1-1	12" FROM CENTER	R1-2	12" VERT. CENTER	R2-1	12" VERT. CENTER	R2-4g	12" VERT. CENTER	R3-1	12" VERT. CENTER	12" VERT. CENTER	R3-2	12" VERT. CENTER	12" VERT. CENTER	R3-4	12" VERT. CENTER	12" VERT. CENTER	R3-5	12" VERT. CENTER	R4-3
PUNCHING DISTANCE FROM TOP EDGE	3" VERT. CENTER	R1-1	3" VERT. CENTER	R1-2	3" VERT. CENTER	R2-1	3" VERT. CENTER	R2-4g	3" VERT. CENTER	R3-1	3" VERT. CENTER	3" VERT. CENTER	R3-2	3" VERT. CENTER	3" VERT. CENTER	R3-4	3" VERT. CENTER	3" VERT. CENTER	R3-5	3" VERT. CENTER	R4-3
ALUMINUM (6061-T6) SIGN BLANK THICKNESS	0.080"	R1-1	0.125"	R1-2	0.080"	R2-1	0.100"	R2-4g	0.080"	R3-1	0.080"	0.080"	R3-2	0.080"	0.080"	R3-4	0.100"	0.125"	R3-5	0.125"	R4-3
LETTERS & NUMERALS	1/4" BLACK 3/8" WHITE	R1-1	1/4" BLACK 3/8" WHITE	R1-2	1/4" BLACK 3/8" WHITE	R2-1	1/4" BLACK 3/8" WHITE	R2-4g	1/4" BLACK 3/8" WHITE	R3-1	1/4" BLACK 3/8" WHITE	1/4" BLACK 3/8" WHITE	R3-2	1/4" BLACK 3/8" WHITE	1/4" BLACK 3/8" WHITE	R3-4	1/4" BLACK 3/8" WHITE	1/4" BLACK 3/8" WHITE	R3-5	1/4" BLACK 3/8" WHITE	R4-3
WIDTH OF BORDER	1/4" BLACK 3/8" WHITE	R1-1	1/4" BLACK 3/8" WHITE	R1-2	1/4" BLACK 3/8" WHITE	R2-1	1/4" BLACK 3/8" WHITE	R2-4g	1/4" BLACK 3/8" WHITE	R3-1	1/4" BLACK 3/8" WHITE	1/4" BLACK 3/8" WHITE	R3-2	1/4" BLACK 3/8" WHITE	1/4" BLACK 3/8" WHITE	R3-4	1/4" BLACK 3/8" WHITE	1/4" BLACK 3/8" WHITE	R3-5	1/4" BLACK 3/8" WHITE	R4-3
SIZE (WIDTH X HEIGHT)	24" X 30" 36" X 48"	R1-1	36" X 48" 48" X 60"	R1-2	36" X 48" 48" X 60"	R2-1	36" X 48" 48" X 60"	R2-4g	36" X 48" 48" X 60"	R3-1	36" X 48" 48" X 60"	36" X 48" 48" X 60"	R3-2	36" X 48" 48" X 60"	36" X 48" 48" X 60"	R3-4	36" X 48" 48" X 60"	36" X 48" 48" X 60"	R3-5	36" X 48" 48" X 60"	R4-3
COLORS	BLACK WHITE	R1-1	BLACK WHITE	R1-2	BLACK WHITE	R2-1	BLACK WHITE	R2-4g	BLACK WHITE	R3-1	BLACK WHITE	BLACK WHITE	R3-2	BLACK WHITE	BLACK WHITE	R3-4	BLACK WHITE	BLACK WHITE	R3-5	BLACK WHITE	R4-3
REFLECTORIZATION	BACKGROUND	R1-1	BACKGROUND	R1-2	BACKGROUND	R2-1	BACKGROUND	R2-4g	BACKGROUND	R3-1	BACKGROUND	BACKGROUND	R3-2	BACKGROUND	BACKGROUND	R3-4	BACKGROUND	BACKGROUND	R3-5	BACKGROUND	R4-3
NUMBER OF POSTS	1	R1-1	1	R1-2	1	R2-1	1	R2-4g	1	R3-1	1	1	R3-2	1	1	R3-4	1	1	R3-5	1	R4-3
PUNCHING DISTANCE FROM EACH VERTICAL EDGE	12" VERT. CENTER	R1-1	12" VERT. CENTER	R1-2	12" VERT. CENTER	R2-1	12" VERT. CENTER	R2-4g	12" VERT. CENTER	R3-1	12" VERT. CENTER	12" VERT. CENTER	R3-2	12" VERT. CENTER	12" VERT. CENTER	R3-4	12" VERT. CENTER	12" VERT. CENTER	R3-5	12" VERT. CENTER	R4-3
PUNCHING DISTANCE FROM TOP EDGE	3" VERT. CENTER	R1-1	3" VERT. CENTER	R1-2	3" VERT. CENTER	R2-1	3" VERT. CENTER	R2-4g	3" VERT. CENTER	R3-1	3" VERT. CENTER	3" VERT. CENTER	R3-2	3" VERT. CENTER	3" VERT. CENTER	R3-4	3" VERT. CENTER	3" VERT. CENTER	R3-5	3" VERT. CENTER	R4-3

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

**STANDARD  
ROADSIDE SIGNS**

ISSUE DATE: MAY 01, 2017

WORKING NUMBER: SN-3A  
SHEET NUMBER: 02/04

GENERAL NOTES:

1. THE QUANTITIES LISTED ON THE SUMMARY OF QUANTITIES SHEET FOR THE SIGNS SHOWN ON THIS SHEET WILL BE USED AS THE BASIS FOR FINAL PAYMENT, EXCEPT WHERE SIGNS ARE MODIFIED FROM THAT SHOWN.
2. THE SPEED LIMITS REQUIRED ON SIGNS R2-1 AND R2-4g WILL BE SHOWN ON INDIVIDUAL PLAN SHEETS.



STATE MISS.	PROJECT NO.	
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**ROADSIDE SIGN IN RURAL AREA**

**ROADSIDE SIGN IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA**

**WARNING SIGN WITH ADVISORY SPEED PLAQUE IN RURAL AREA**

**ROADSIDE SIGN IN RURAL AREA**

**INTERSTATE OR FREEWAY SIGN WITH SECONDARY SIGN**

**OVERHEAD SIGN**

**ROADSIDE ASSEMBLY IN RURAL AREA**

**SIGNS IN ISLANDS OR BEHIND CURB USING U-POSTS OR PIPE POSTS**

**SIGN ON NOSE OF MEDIAN**

**PLAN**

**ELEVATION**

**GENERAL NOTES:**

- SEE SECTION 2A-19 OF THE MUTCD FOR REDUCED LATERAL OFFSET DISTANCES THAT MAY BE USED IN AREAS WHERE LATERAL OFFSETS ARE LIMITED, AND IN BUSINESS, COMMERCIAL, OR RESIDENTIAL AREAS WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.
- LOCATED OUTSIDE THE CLEAR ZONE UNLESS PLACED ON A BREAKAWAY OR YIELDING SUPPORT.

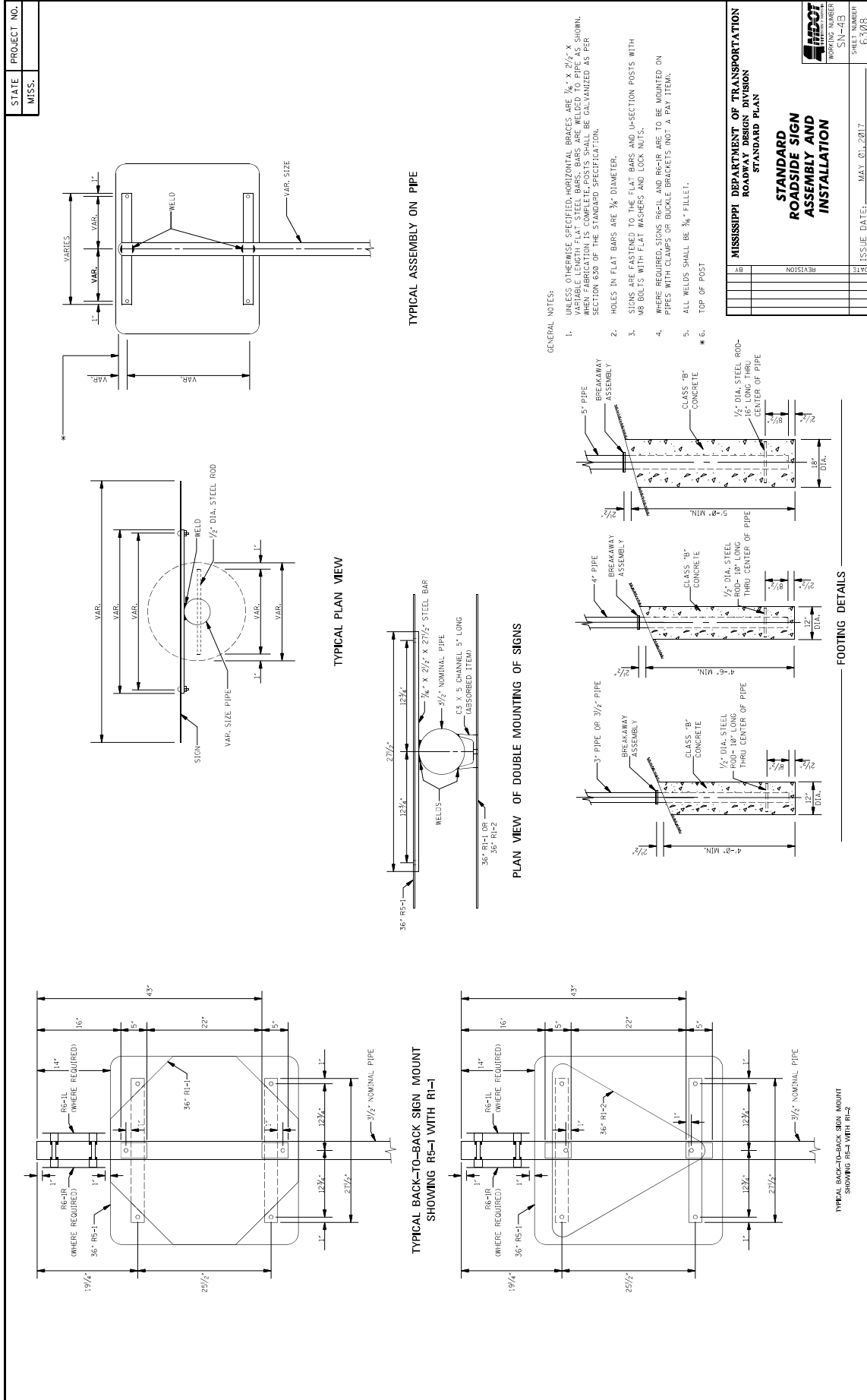
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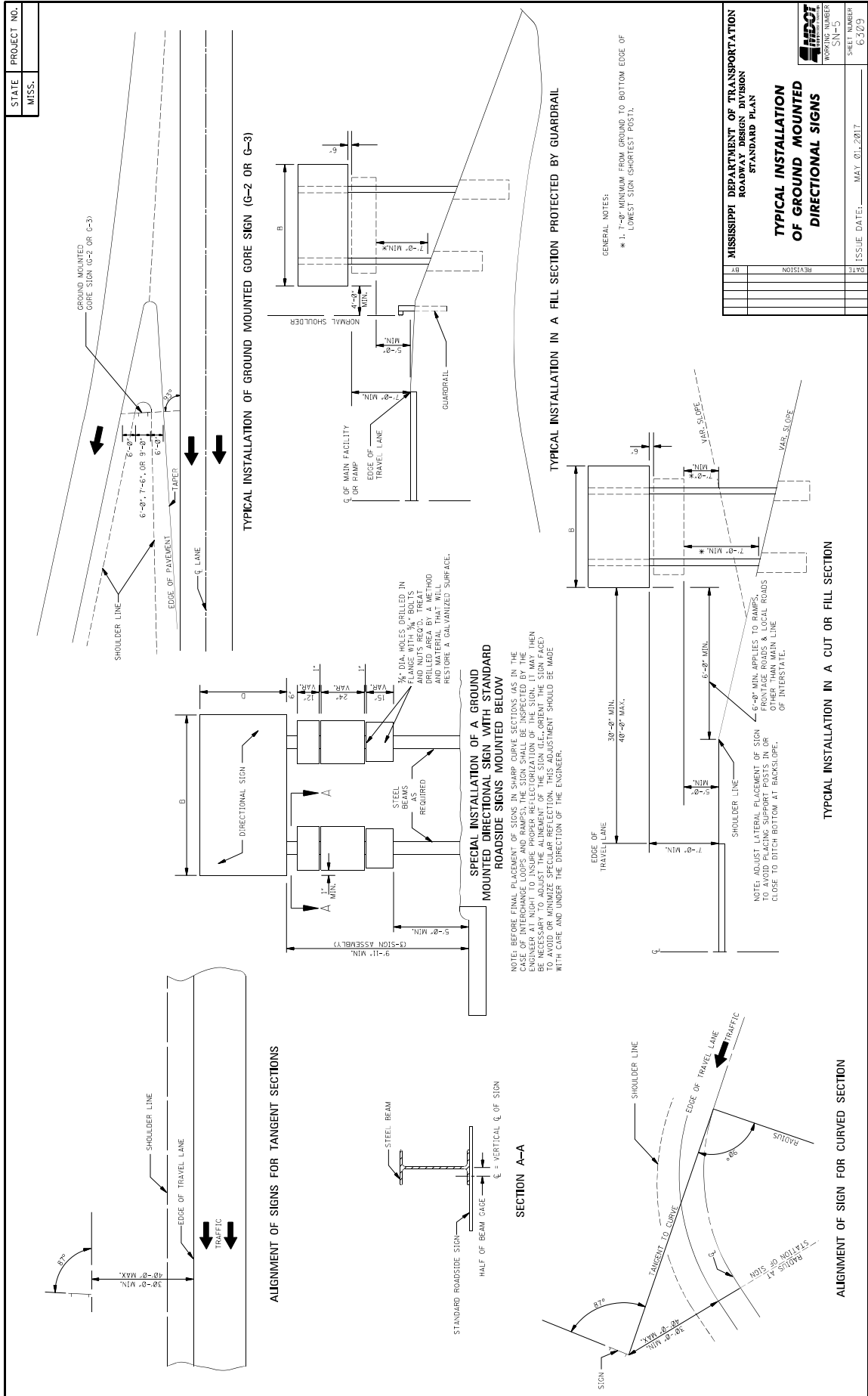
  

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	STANDARD SIGN ROADSIDE SIGN ASSEMBLY AND INSTALLATION
ISSUE DATE: MAY 01, 2017	SHEET NUMBER SN-4 6306









STATE PROJECT NO.  
MISS.

GENERAL NOTES FOR WORKING SHEETS SN-6, SN-6A AND SN-6B:

- FOUNDING**  
ALL FOOTINGS SHALL BE CLASS 'B' CONCRETE. POST STUBS SHALL BE SET IN CONCRETE FOOTING AT REQUIRED GRADE AND ALLOWMENT WITH CARE SO THAT MINIMUM SHIMMING WILL BE REQUIRED.
- BASE CONNECTION PROCEDURE**  
ASSEMBLE POST TO STUB WITH BOLTS AND WITH A FLAT WASHER ON EACH BOLT BETWEEN PLATES. SHIM AS REQUIRED TO PLUMB POST. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" TO 15" WRENCH TO BED WASHERS AND STUBS AND TO CLEAR BOLT HEADS. THEN LOOSEN EACH BOLT TO 1/2 TURN. REMOVE WASHERS AND STUBS FROM POST. REPEAT THIS PROCEDURE BY TURNING BOLT THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH. HIGH STRENGTH BOLTS IN BASE CONNECTIONS SHALL BE TIGHTENED TO TORQUE AS SHOWN BY TABLE ON SN-6A. DO NOT OVER TIGHTEN.
- POST LENGTH**  
ALL POST LENGTHS SHALL BE VERIFIED AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION. WHERE FIELD CONDITIONS REQUIRE THE POST LENGTH TO VARY MORE THAN 12", IT MAY BE NECESSARY TO CHANGE THE SIZE OR NUMBER OF POSTS. SUCH DETERMINATION WILL BE MADE BY THE ROADWAY DESIGN ENGINEER. ANY CHANGE OF SIZE OR NUMBER OF POSTS SHALL NOT BE JUSTIFICATION FOR ANY CONTRACT PRICE ADJUSTMENTS.
- FABRICATOR NOTE**  
IMPORTANT - ALL FRICTION FUSE BOLTS SHALL BE TIGHTENED IN SHOP BY A METHOD APPROVED BY THE BRIDGE DESIGN ENGINEER. TIGHTENING SHALL BE TO SUCH A DEGREE AS TO PROVIDE THE MINIMUM TENSION IN EACH BOLT WHEN ALL BOLTS ARE TIGHT, AS SHOWN BY TABLE SN-6A.
- ALL HOLES IN FUSE PLATES AND HINGE PLATES SHALL BE DRILLED.
- ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS. FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GRINDING. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE ACCEPTABLE.
- WELDING FOR STEEL SIGN SUPPORTS**  
WELDING SHALL BE PERFORMED IN SHOP BY ELECTRIC ARC PROCESS.
- MATERIAL SPECIFICATIONS**  
THE MATERIALS USED IN THE CONSTRUCTION OF THE GROUND MOUNTED SIGN SUPPORT STRUCTURES, AS LISTED BELOW SHALL CONFORM WITH THE REQUIREMENTS OF THE DESIGNATED ASTM SPECIFICATION. ALL OTHER MATERIALS, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS, EXCEPT AS OTHERWISE NOTED ON THE PLANS.

DESCRIPTION	MATERIALS PER ASTM SPECIFICATION	GALVANIZE PER ASTM DESIGNATION
POSTS OF STEEL PIPE	A 53 (GRADE 20) (2)	A 153
BASE CONNECTION PLATES FOR PIPES	A 36	A 123
POSTS OF STEEL W-, B- AND I BEAMS INCLUDING BASE CONNECTION, FUSE AND HINGE PLATES, ANGLES AND FLAT BARS USED IN FABRICATION AND ERECTION OF SIGN SUPPORTS	A 588 OR A 572 GRADE 50	A 123
HIGH STRENGTH BOLTS, NUTS AND WASHERS OTHER THAN HIGH STRENGTH (3)	A 307 (GRADE 24)	A 153

- ALL STEEL SHALL BE GALVANIZED AFTER FABRICATION EXCEPT AS NOTED ON THE PLANS.
- PIPES MAY BE WELDED OR SEAMLESS.
- BOLTS, WASHERS, AND NUTS USED FOR FASTENING ALUMINUM SIGN SHEETS AND PANELS SHALL BE ALUMINUM AS PER FOLLOWING TABLE.

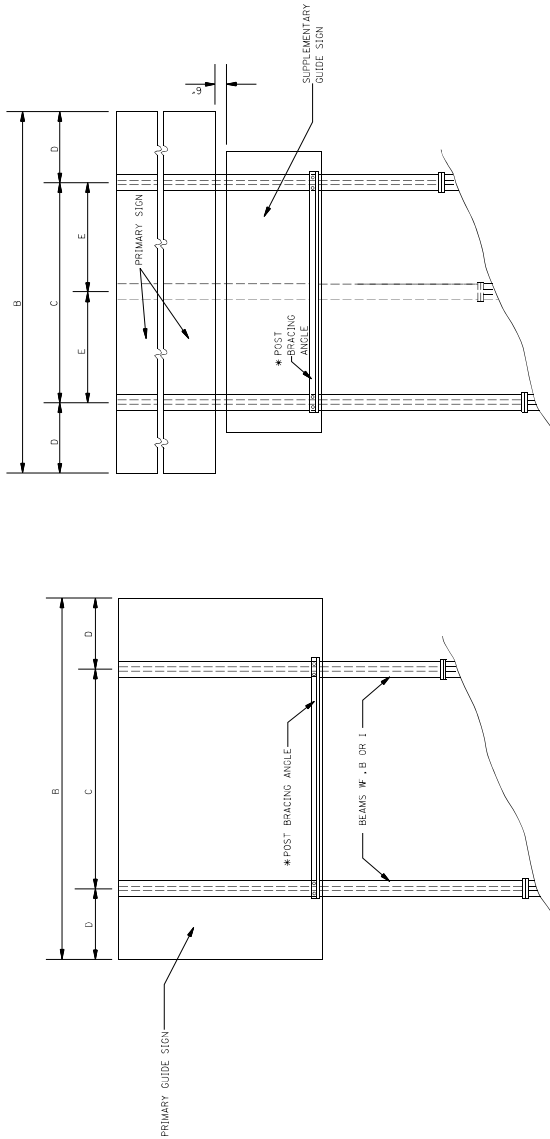
DESCRIPTION	ASTM DESIGNATION	ALLOY
BOLTS AND WASHERS	B 228	2024-T4
PANEL BOLT NUTS	B 211	6063-T6
STOP NUTS	B 211	2017-T4

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

**BREAKAWAY  
SIGN SUPPORTS**

ISSUE DATE: MAY 01, 2017

WORKING NUMBER: SN-6  
SHEET NUMBER: 6310

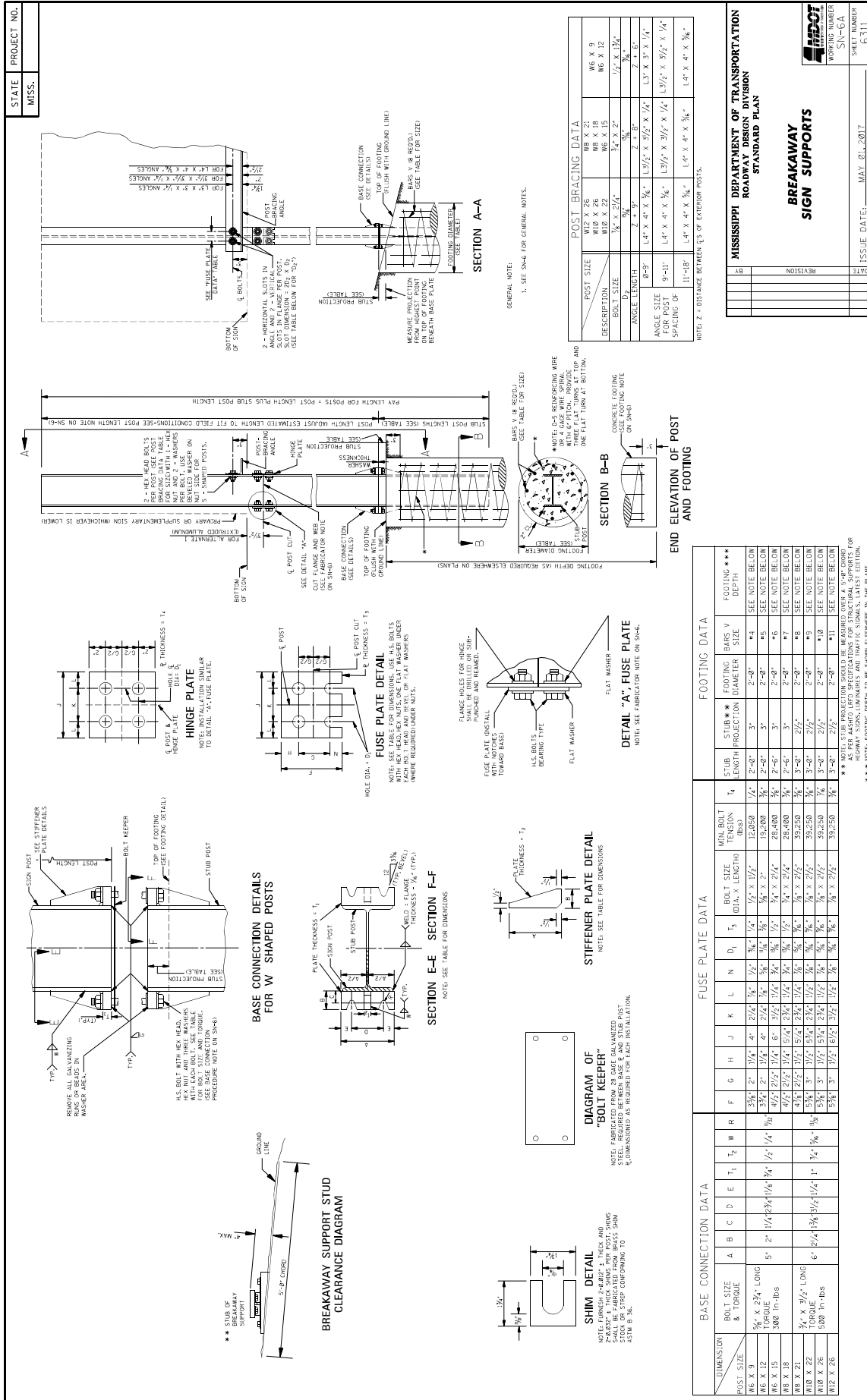


TYPICAL 2-POST INSTALLATION  
WITH SUPPLEMENTARY GUIDE SIGN  
AND POST BRACING ANGLE LOCATION

TYPICAL 2-POST INSTALLATION  
WITHOUT EXIT SIGN

\* NOTE: PLACE POST BRACING ANGLE AT BOTTOM OF PRIMARY OR SUPPLEMENTARY SIGN WHICHEVER IS LOWER.  
(SEE "END ELEVATION OF POST AND FOOTING" ON SN-6A.)

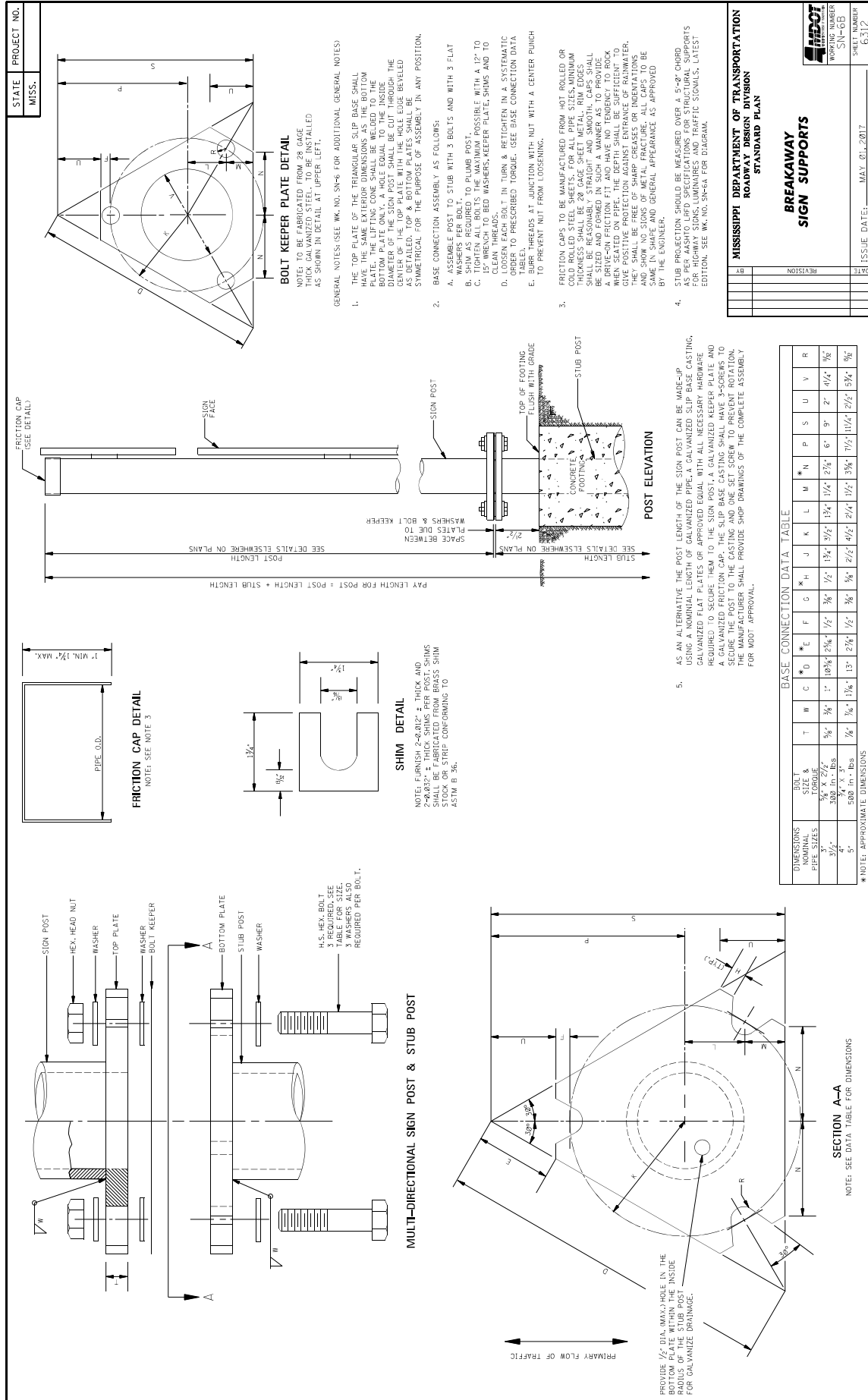
2 POST		3 POST	
POST ELEVATION	POST SPACING	POST ELEVATION	POST SPACING
4'-0"	15'-0"	4'-0"	15'-0"
4'-6"	15'-6"	4'-6"	15'-6"
5'-0"	16'-0"	5'-0"	16'-0"
5'-6"	16'-6"	5'-6"	16'-6"
6'-0"	17'-0"	6'-0"	17'-0"
6'-6"	17'-6"	6'-6"	17'-6"
7'-0"	18'-0"	7'-0"	18'-0"
7'-6"	18'-6"	7'-6"	18'-6"
8'-0"	19'-0"	8'-0"	19'-0"
8'-6"	19'-6"	8'-6"	19'-6"
9'-0"	20'-0"	9'-0"	20'-0"
9'-6"	20'-6"	9'-6"	20'-6"
10'-0"	21'-0"	10'-0"	21'-0"
10'-6"	21'-6"	10'-6"	21'-6"
11'-0"	22'-0"	11'-0"	22'-0"
11'-6"	22'-6"	11'-6"	22'-6"
12'-0"	23'-0"	12'-0"	23'-0"
12'-6"	23'-6"	12'-6"	23'-6"
13'-0"	24'-0"	13'-0"	24'-0"
13'-6"	24'-6"	13'-6"	24'-6"
14'-0"	25'-0"	14'-0"	25'-0"
14'-6"	25'-6"	14'-6"	25'-6"
15'-0"	26'-0"	15'-0"	26'-0"
15'-6"	26'-6"	15'-6"	26'-6"
16'-0"	27'-0"	16'-0"	27'-0"
16'-6"	27'-6"	16'-6"	27'-6"
17'-0"	28'-0"	17'-0"	28'-0"
17'-6"	28'-6"	17'-6"	28'-6"
18'-0"	29'-0"	18'-0"	29'-0"
18'-6"	29'-6"	18'-6"	29'-6"
19'-0"	30'-0"	19'-0"	30'-0"
19'-6"	30'-6"	19'-6"	30'-6"
20'-0"	31'-0"	20'-0"	31'-0"
20'-6"	31'-6"	20'-6"	31'-6"
21'-0"	32'-0"	21'-0"	32'-0"
21'-6"	32'-6"	21'-6"	32'-6"
22'-0"	33'-0"	22'-0"	33'-0"
22'-6"	33'-6"	22'-6"	33'-6"
23'-0"	34'-0"	23'-0"	34'-0"
23'-6"	34'-6"	23'-6"	34'-6"
24'-0"	35'-0"	24'-0"	35'-0"
24'-6"	35'-6"	24'-6"	35'-6"
25'-0"	36'-0"	25'-0"	36'-0"
25'-6"	36'-6"	25'-6"	36'-6"
26'-0"	37'-0"	26'-0"	37'-0"
26'-6"	37'-6"	26'-6"	37'-6"
27'-0"	38'-0"	27'-0"	38'-0"
27'-6"	38'-6"	27'-6"	38'-6"
28'-0"	39'-0"	28'-0"	39'-0"
28'-6"	39'-6"	28'-6"	39'-6"
29'-0"	40'-0"	29'-0"	40'-0"
29'-6"	40'-6"	29'-6"	40'-6"
30'-0"	41'-0"	30'-0"	41'-0"
30'-6"	41'-6"	30'-6"	41'-6"

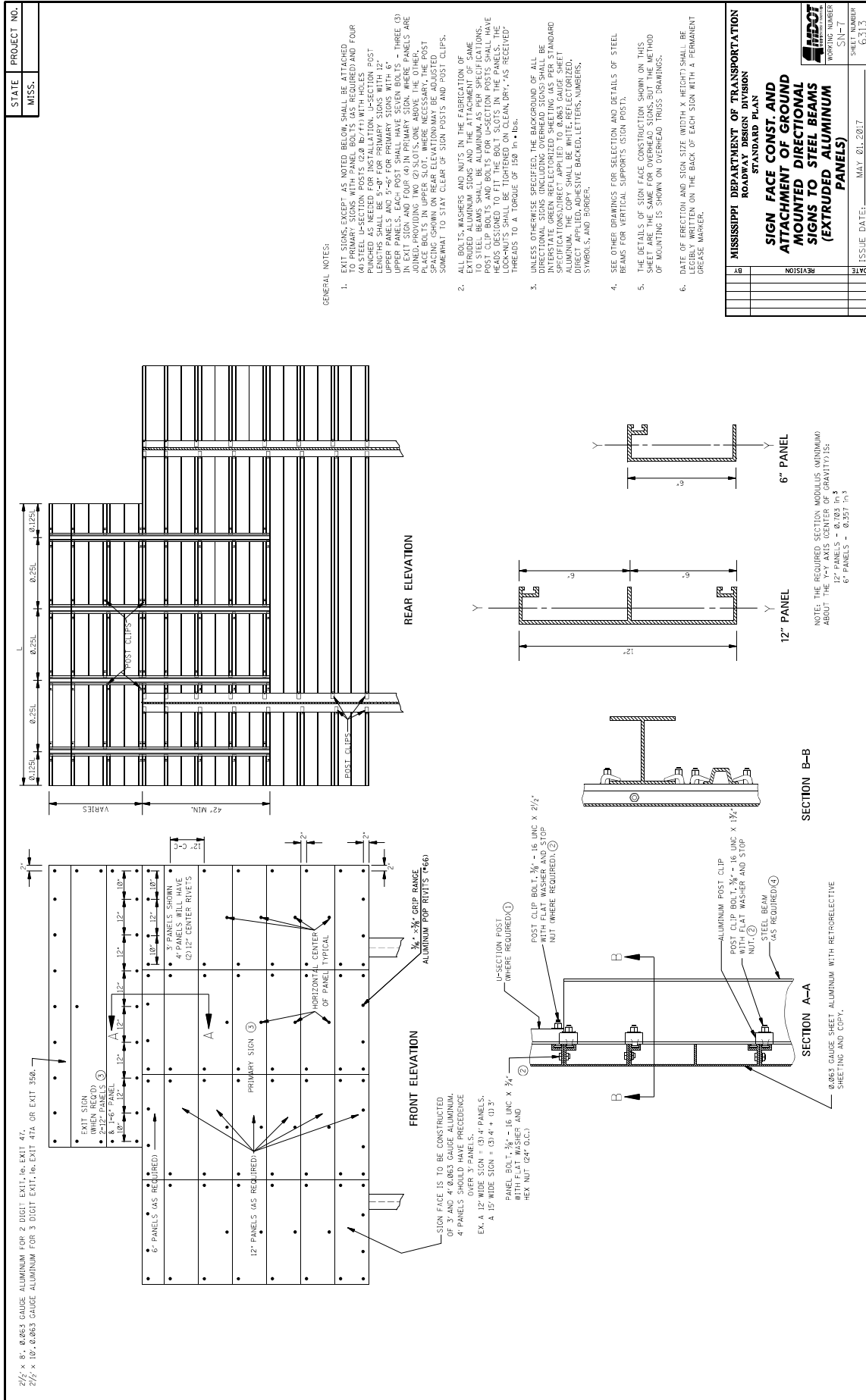


MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
 ROADWAY DESIGN DIVISION  
 STANDARD PLAN

**BREAKAWAY SIGN SUPPORTS**

ISSUE DATE: MAY 01, 2017  
 SHEET NUMBER: 8311





STATE MISS.	PROJECT NO.		
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**DISTANCE REFERENCE SIGN MOUNTING ON OUTSIDE SHOULDER ALONG MAIN FACILITY**

NOTE: SIGN MOUNTING ON LEFT LANE SHOULDER SHALL BE 50' OPPOSITE THE RIGHT LANE STATION. SIGN MOUNTING ON RIGHT LANE SHOULDER SHALL BE LOCATED WITHIN 500 FEET OF ITS TRUE LOCATION. IT SHALL BE OMITTED ENTIRELY.

SINGLE OR DOUBLE AS REQUIRED

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

SINGLE OR DOUBLE AS REQUIRED

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

SINGLE OR DOUBLE AS REQUIRED

**DELINICATOR MOUNTING ON INTERCHANGE LOOPS WITH UNMOUNTABLE CURB ON INSIDE**

SINGLE OR DOUBLE AS REQUIRED

**TYPE 3 OBJECT MARKER OR DISTANCE REFERENCE SIGN ASSEMBLY**

NOTE: TYPE 3 OBJECT MARKER AND DISTANCE REFERENCE SIGNS ARE TO BE FASTENED TO U-SECTION POSTS WITH 3/8" DIA. HICK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL.

3/8" DIA. HOLES AS SHOWN

TYPE 3 OBJECT MARKER (9'-0")

DISTANCE REFERENCE SIGN (0'-0", 1'-0", 1'-8", 1'-12", 2'-0")

12'

36'

1/4" DIA. HOLES AS SHOWN

3/8" DIA. HOLES @ 1' O. C. FOR 4'-0"

**DETAIL OF TYPE 3 OBJECT MARKER INSTALLATION**

TRAFFIC

TRAFFIC

TYPE 3 OBJECT MARKER

TYPE 3 OBJECT MARKER

BRIDGE END PAVEMENT

20'-0" OR MORE

7'-0"

**DETAIL OF SINGLE WHITE OR DOUBLE YELLOW DELINICATOR**

DELINICATOR

POST

DELINICATOR

POST

3/8" DIA. HOLES AS SHOWN

7'-0"

4"

4"

4"

4"

DELINICATOR

POST

DELINICATOR

POST

3/8" DIA. HOLES AS SHOWN

7'-0"

4"

4"

4"

4"

**REAR VIEW OF DELINICATOR ASSEMBLY**

**DETAIL OF DOUBLE WHITE OR DOUBLE YELLOW DELINICATOR**

DELINICATOR

POST

DELINICATOR

POST

3/8" DIA. HOLES AS SHOWN

7'-0"

4"

4"

4"

4"

**REAR VIEW OF DELINICATOR ASSEMBLY**

**DETAIL OF SINGLE WHITE OR DOUBLE YELLOW DELINICATOR OR SINGLE YELLOW DELINICATOR**

DELINICATOR

POST

DELINICATOR

POST

3/8" DIA. HOLES AS SHOWN

7'-0"

4"

4"

4"

4"

**REAR VIEW OF DELINICATOR ASSEMBLY**

**DETAIL OF DOUBLE WHITE OR DOUBLE YELLOW DELINICATOR**

DELINICATOR

POST

DELINICATOR

POST

3/8" DIA. HOLES AS SHOWN

7'-0"

4"

4"

4"

4"

**REAR VIEW OF DELINICATOR ASSEMBLY**

**GENERAL NOTES:**

- DELINICATORS AND TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 8.080" THICK ALUMINUM SHEET OR 14 GAGE GALVANIZED SHEET STEEL.
- DELINICATOR, 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. DELINICATOR POST 7'-0" - 2.0 lb/ft TO 2.5 lb/ft
  - B. TYPE 3 OBJECT MARKER POSTS 3'-0" - 2.5 lb/ft TO 3.0 lb/ft
  - C. DISTANCE REFERENCE SIGNS 4'-0" - 2.5 lb/ft TO 3.5 lb/ft
  - D. 12'-0" - 3.0 lb/ft TO 3.5 lb/ft
- UNIT PRICE OF DELINICATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE COST OF POST, DISTANCE REFERENCE SIGN POST WILL BE PAID FOR PER FOOT.
- RADIUS IN BENDS OF POST CROSS SECTION NOT TO EXCEED 90° FOR HOT ROLLED SECTION.
- GROUND PLATE NOT REQUIRED ON U-SECTION POST.

**MOUNTING DETAIL**

DELINICATOR, TYPE 3 OBJECT MARKER OR DISTANCE REFERENCE SIGN POSTS WITH 1/4" DIA. HICK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL. MOUNTED TO THIS FACE AS SHOWN.

DELINICATOR

POST

DELINICATOR

POST

3/8" DIA. HOLES AS SHOWN

7'-0"

4"

4"

4"

4"

**REAR VIEW OF DELINICATOR ASSEMBLY**

**GENERAL NOTES:**

- DELINICATORS AND TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 8.080" THICK ALUMINUM SHEET OR 14 GAGE GALVANIZED SHEET STEEL.
- DELINICATOR, 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. DELINICATOR POST 7'-0" - 2.0 lb/ft TO 2.5 lb/ft
  - B. TYPE 3 OBJECT MARKER POSTS 3'-0" - 2.5 lb/ft TO 3.0 lb/ft
  - C. DISTANCE REFERENCE SIGNS 4'-0" - 2.5 lb/ft TO 3.5 lb/ft
  - D. 12'-0" - 3.0 lb/ft TO 3.5 lb/ft
- UNIT PRICE OF DELINICATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE COST OF POST, DISTANCE REFERENCE SIGN POST WILL BE PAID FOR PER FOOT.
- RADIUS IN BENDS OF POST CROSS SECTION NOT TO EXCEED 90° FOR HOT ROLLED SECTION.
- GROUND PLATE NOT REQUIRED ON U-SECTION POST.

**MOUNTING DETAIL**

DELINICATOR, TYPE 3 OBJECT MARKER OR DISTANCE REFERENCE SIGN POSTS WITH 1/4" DIA. HICK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL. MOUNTED TO THIS FACE AS SHOWN.

DELINICATOR

POST

DELINICATOR

POST

3/8" DIA. HOLES AS SHOWN

7'-0"

4"

4"

4"

4"

**REAR VIEW OF DELINICATOR ASSEMBLY**

**GENERAL NOTES:**

- DELINICATORS AND TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 8.080" THICK ALUMINUM SHEET OR 14 GAGE GALVANIZED SHEET STEEL.
- DELINICATOR, 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. DELINICATOR POST 7'-0" - 2.0 lb/ft TO 2.5 lb/ft
  - B. TYPE 3 OBJECT MARKER POSTS 3'-0" - 2.5 lb/ft TO 3.0 lb/ft
  - C. DISTANCE REFERENCE SIGNS 4'-0" - 2.5 lb/ft TO 3.5 lb/ft
  - D. 12'-0" - 3.0 lb/ft TO 3.5 lb/ft
- UNIT PRICE OF DELINICATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE COST OF POST, DISTANCE REFERENCE SIGN POST WILL BE PAID FOR PER FOOT.
- RADIUS IN BENDS OF POST CROSS SECTION NOT TO EXCEED 90° FOR HOT ROLLED SECTION.
- GROUND PLATE NOT REQUIRED ON U-SECTION POST.

**MOUNTING DETAIL**

DELINICATOR, TYPE 3 OBJECT MARKER OR DISTANCE REFERENCE SIGN POSTS WITH 1/4" DIA. HICK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL. MOUNTED TO THIS FACE AS SHOWN.

DELINICATOR

POST

DELINICATOR

POST

3/8" DIA. HOLES AS SHOWN

7'-0"

4"

4"

4"

4"

**REAR VIEW OF DELINICATOR ASSEMBLY**

**GENERAL NOTES:**

- DELINICATORS AND TYPE 3 OBJECT MARKER SHALL BE REFLECTIVE SHEETING ON 8.080" THICK ALUMINUM SHEET OR 14 GAGE GALVANIZED SHEET STEEL.
- DELINICATOR, 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. DELINICATOR POST 7'-0" - 2.0 lb/ft TO 2.5 lb/ft
  - B. TYPE 3 OBJECT MARKER POSTS 3'-0" - 2.5 lb/ft TO 3.0 lb/ft
  - C. DISTANCE REFERENCE SIGNS 4'-0" - 2.5 lb/ft TO 3.5 lb/ft
  - D. 12'-0" - 3.0 lb/ft TO 3.5 lb/ft
- UNIT PRICE OF DELINICATORS AND TYPE 3 OBJECT MARKERS SHALL INCLUDE COST OF POST, DISTANCE REFERENCE SIGN POST WILL BE PAID FOR PER FOOT.
- RADIUS IN BENDS OF POST CROSS SECTION NOT TO EXCEED 90° FOR HOT ROLLED SECTION.
- GROUND PLATE NOT REQUIRED ON U-SECTION POST.

**MOUNTING DETAIL**

DELINICATOR, TYPE 3 OBJECT MARKER OR DISTANCE REFERENCE SIGN POSTS WITH 1/4" DIA. HICK FASTENERS OR CHERRY RIVETS OF THE COLLAR TYPE OR OTHER APPROVED EQUAL. MOUNTED TO THIS FACE AS SHOWN.

DELINICATOR

POST

DELINICATOR

POST

3/8" DIA. HOLES AS SHOWN

7'-0"

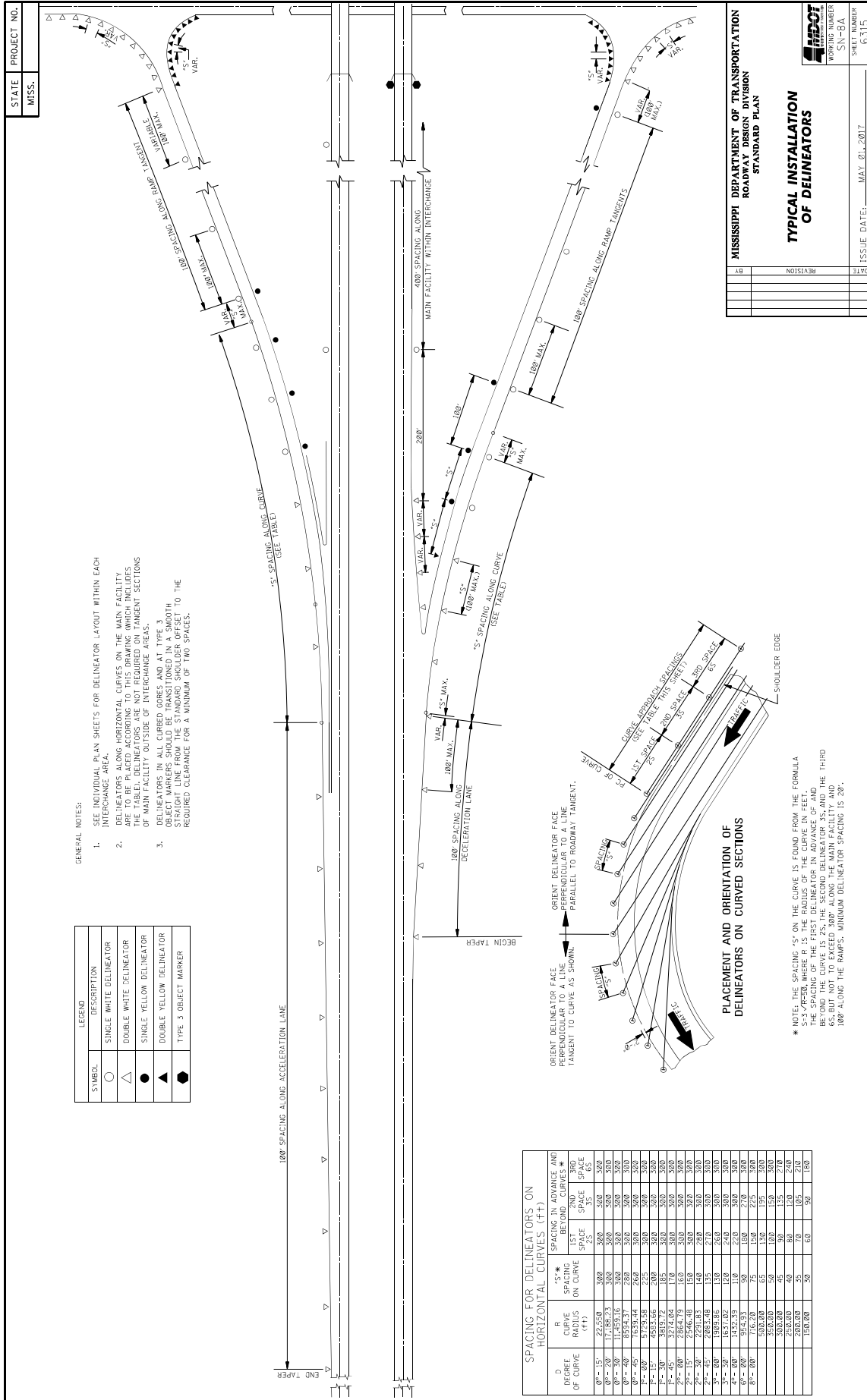
4"

4"

4"

4"

**REAR VIEW OF DELINICATOR ASSEMBLY**



STATE PROJECT NO.  
MISS.

- GENERAL NOTES:
- SEE INDIVIDUAL PLAN SHEETS FOR DELINEATOR LAYOUT WITHIN EACH INTERCHANGE AREA.
  - DELINEATORS ALONG HORIZONTAL CURVES ON THE MAIN FACILITY ARE TO BE PLACED ACCORDING TO THIS DRAWING (WHICH INCLUDES THE TABLE OF DELINEATOR SPACINGS AND ORIENTATION SECTIONS OF MAIN FACILITY INTERCHANGES).
  - DELINEATORS IN ALL CURBED CORES AND AT TYPE 3 OBJECT MARKERS SHOULD BE TRANSITIONED IN A SMOOTH STRAIGHT LINE FROM THE STANDARD SHOULDER OFFSET TO THE REQUIRED CLEARANCE FOR A MINIMUM OF TWO SPACES.

LEGEND	
SYMBOL	DESCRIPTION
○	SINGLE WHITE DELINEATOR
△	DOUBLE WHITE DELINEATOR
●	SINGLE YELLOW DELINEATOR
▲	DOUBLE YELLOW DELINEATOR
●	TYPE 3 OBJECT MARKER

SPACING FOR DELINEATORS ON HORIZONTAL CURVES (ft)

D. DEGREE OF CURVE	R. CURVE RADIUS (ft)	*ST* SPACING ON CURVE		SPACING IN ADVANCE AND BEYOND CURVES*	
		25'	35'	25'	35'
0.5°	11,225.97	300	300	300	300
1°	5,613.94	300	300	300	300
2°	2,807.97	300	300	300	300
3°	1,871.98	300	300	300	300
4°	1,411.49	300	300	300	300
5°	1,129.74	300	300	300	300
6°	950.73	300	300	300	300
7°	814.72	300	300	300	300
8°	714.73	300	300	300	300
9°	641.74	300	300	300	300
10°	584.75	300	300	300	300
12°	484.76	300	300	300	300
15°	384.77	300	300	300	300
20°	234.78	300	300	300	300
25°	154.79	300	300	300	300
30°	104.80	300	300	300	300
35°	74.81	300	300	300	300
40°	54.82	300	300	300	300
45°	44.83	300	300	300	300
50°	39.84	300	300	300	300
55°	36.85	300	300	300	300
60°	34.86	300	300	300	300
65°	33.87	300	300	300	300
70°	33.88	300	300	300	300
75°	33.89	300	300	300	300
80°	33.90	300	300	300	300
85°	33.91	300	300	300	300
90°	33.92	300	300	300	300

**PLACEMENT AND ORIENTATION OF DELINEATORS ON CURVED SECTIONS**

\* NOTE: THE SPACING 5° ON THE CURVE IS FOUND FROM THE FORMULA  $S = \sqrt{R \cdot \pi \cdot \sin(\theta)}$  WHERE S IS THE SPACING, R IS THE RADIUS AND  $\theta$  IS THE ANGLE. THE SPACING OF THE FIRST DELINEATOR IN ADVANCE OF AND BEYOND THE CURVE IS 25', THE SECOND DELINEATOR IN ADVANCE OF AND BEYOND THE CURVE IS 35', THE MAIN FACILITY AND 180' ALONG THE RAMPS. MINIMUM DELINEATOR SPACING IS 20'.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

**TYPICAL INSTALLATION OF DELINEATORS**

DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_

ISSUE DATE: MAY 01, 2017

WORKING NUMBER: SN-8A  
SHEET NUMBER: 6315



STATE MISS.	PROJECT NO.	
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DELINEATOR MOUNTING ON  
CURBED CROSSOVER

DELINEATOR MOUNTING ON  
CROSSOVER WITH USABLE SHOULDER

TYPICAL DELINEATION AT A CURBED CROSSOVER  
WITH A MEDIAN WIDTH OVER 42'-0"

TYPICAL DELINEATION AT A CROSSOVER WITH  
USABLE SHOULDERS AND A MEDIAN WIDTH  
OVER 42'-0"

TYPICAL DELINEATION AT A CROSSOVER WITH  
USABLE SHOULDERS AND A MEDIAN WIDTH  
OF 42'-0" OR LESS

TYPICAL DELINEATION AT A CROSSOVER WITH  
USABLE SHOULDERS AND A MEDIAN WIDTH  
OF 42'-0" OR LESS

DETAIL OF TYPE I  
FLEXIBLE POST DELINEATOR

DETAIL OF TYPE II  
FLEXIBLE POST DELINEATOR

NOTE: CARBONITE'S UNPAIRED DELINEATOR POSTS ARE SHOWN. OTHER FLEXIBLE POSTS, CARBONITE'S BEING APPROVED BY THE MISSISSIPPI DEPARTMENT'S APPROVED SOURCE OF MATERIALS, MAY BE FURNISHED.

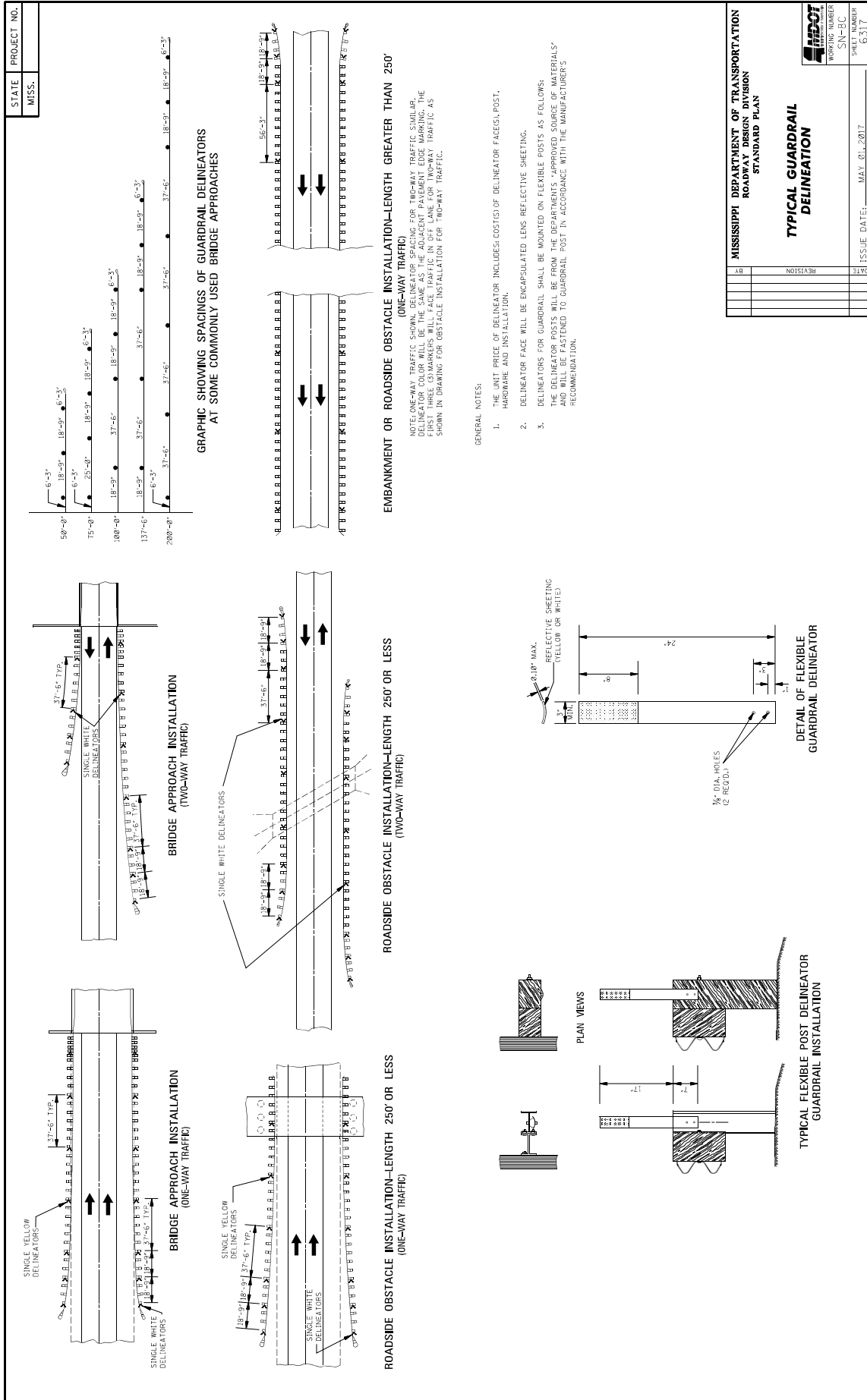
**GENERAL NOTES:**

- THE UNIT PRICE OF DELINEATORS INCLUDES COSTS OF DELINEATOR FACES, POST, HARDWARE AND INSTALLATION.
- DELINEATOR FACE WILL BE ENCAPSULATED LENS REFLECTIVE SHEETING.
- POST REQUIRING THE INSTALLATION OF A BASE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- THE COLOR OF DELINEATORS SHALL BE THE COLOR OF THE ADJACENT EDGE LINE PER MUTED SECTION 3F-603.

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

**TYPICAL CROSSOVER  
DELINEATION**

ISSUE DATE: MAY 01, 2017  
SHEET NUMBER 0316



<b>MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN</b>	
<b>TYPICAL GUARDRAIL DELINEATOR</b>	
DATE	SHEET NUMBER
REVISION	SN-8C
BY	ISSUE DATE: MAY 01, 2017



**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 – NOTICE TO BIDDERS NO. 3599**

**CODE: (SP)**

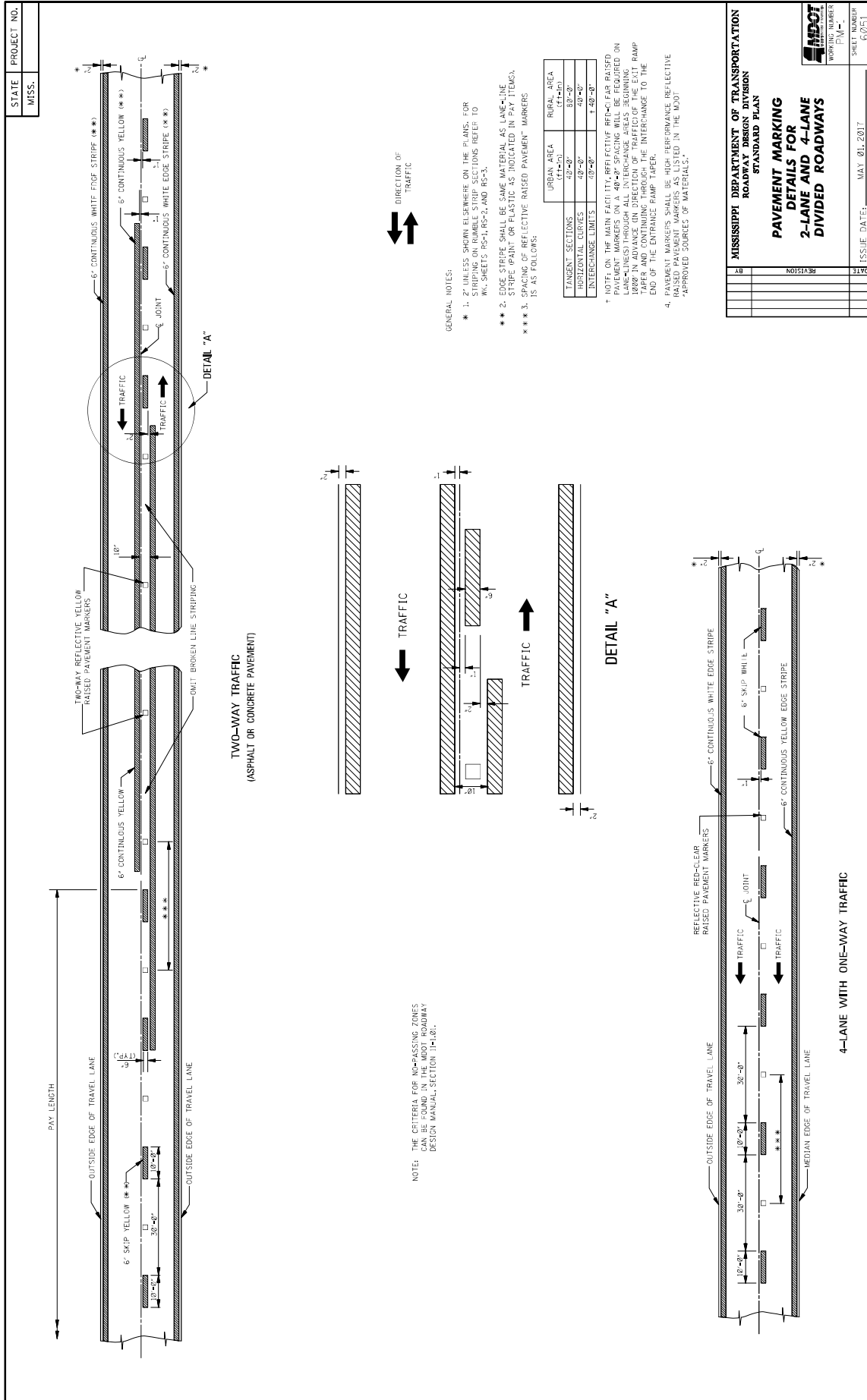
**DATE: 08/11/2021**

**SUBJECT: Standard Drawings**

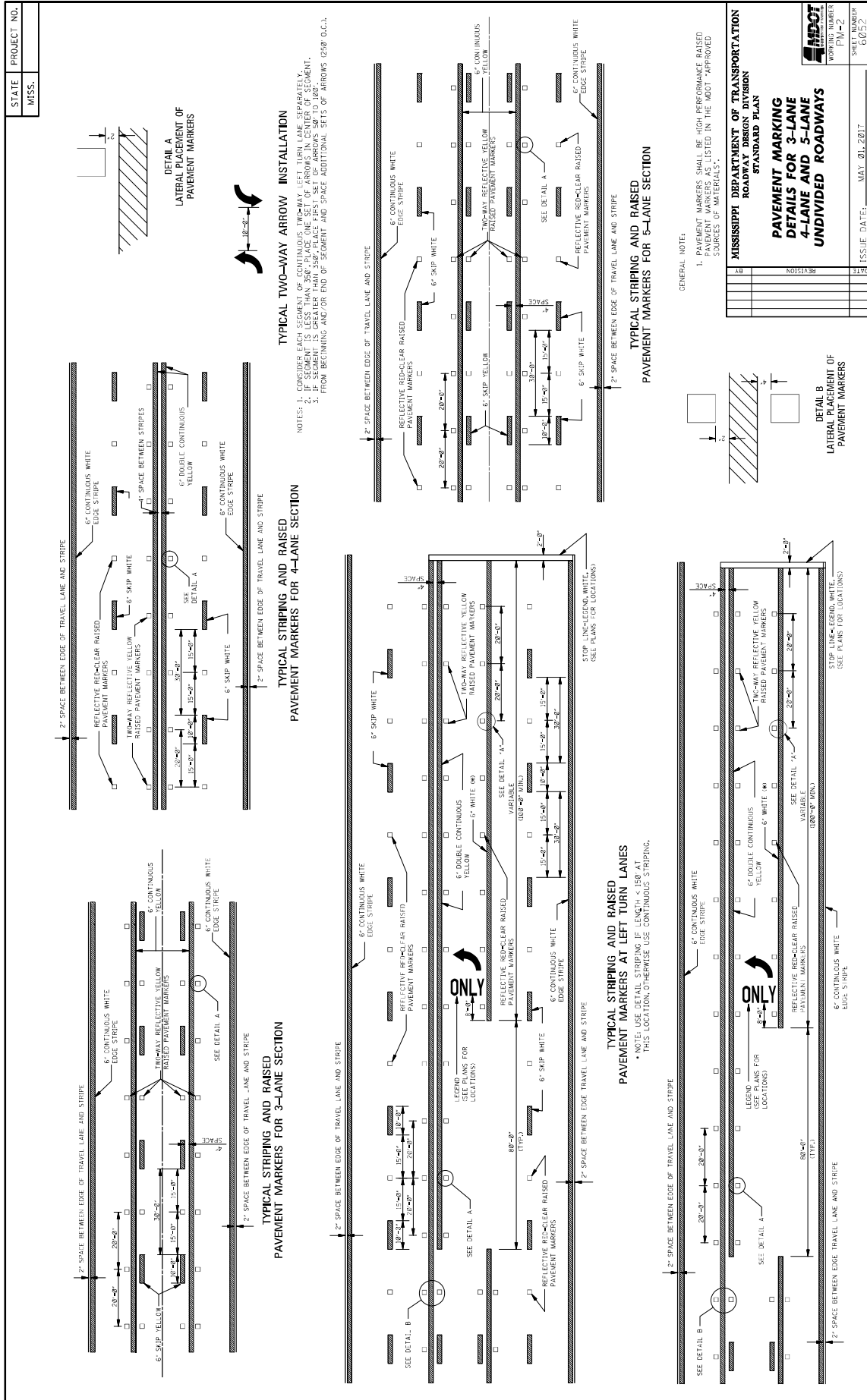
Standard Drawings attached hereto shall govern appropriate items of required work.

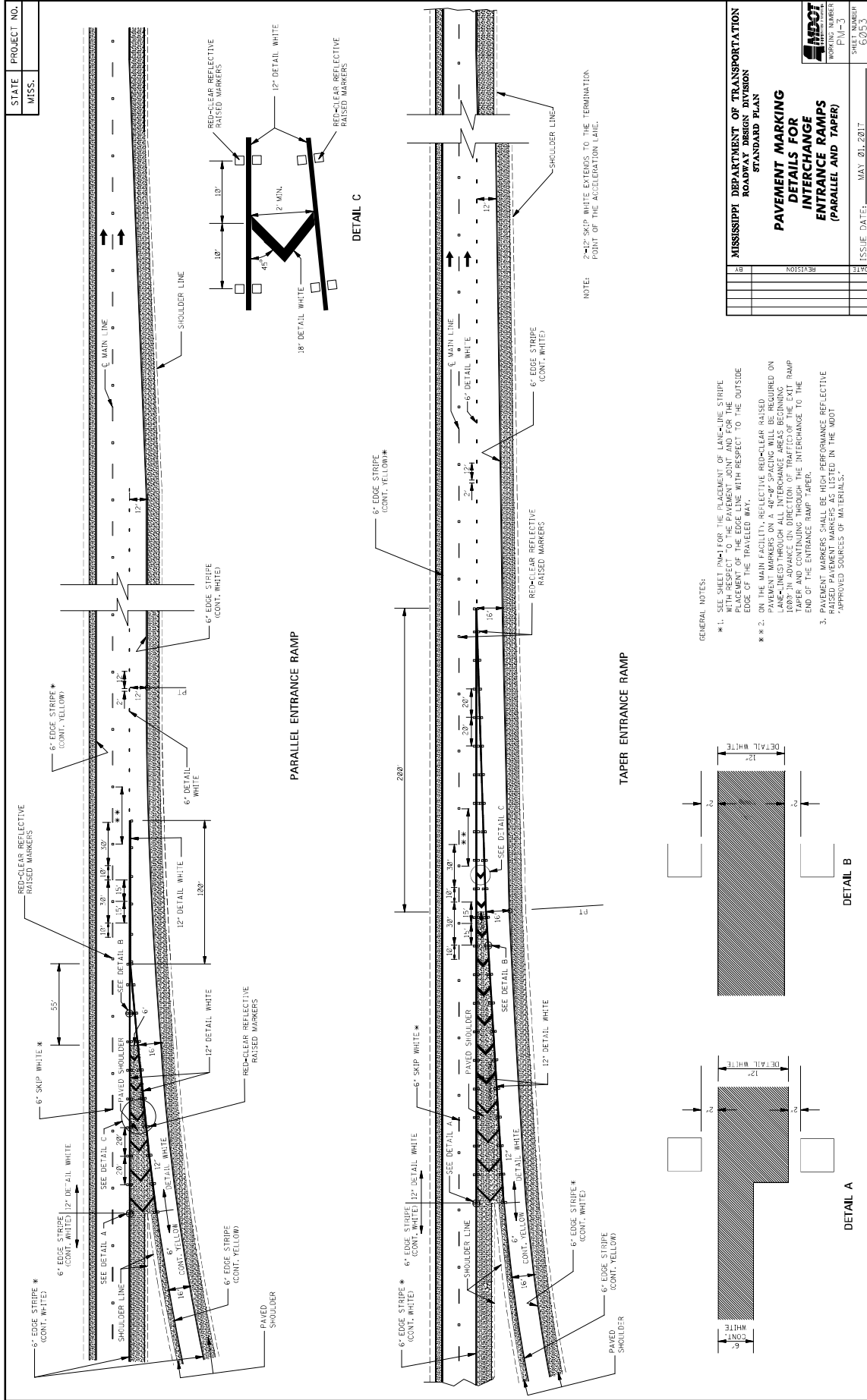
Larger copies of Standard Drawings may be purchased from:

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](mailto:plans@mdot.state.ms.us)



<b>MISSISSIPPI DEPARTMENT OF TRANSPORTATION</b>	
<b>ROADWAY DESIGN DIVISION</b>	
<b>STANDARD PLAN</b>	
<b>PAVEMENT MARKING</b>	
<b>2-LANE AND 4-LANE</b>	
<b>DIVIDED ROADWAYS</b>	
DATE	ISSUE DATE: MAY 01, 2017
BY	SHEET NUMBER 6001
REVISION	WORKING NUMBER P.M.-





GENERAL NOTES:

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

NOTE: 2'-6\"/>

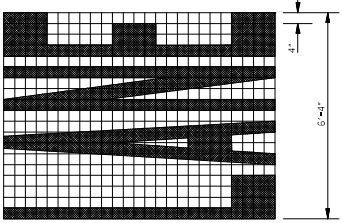
STATE PROJECT NO.		MISS.	
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN			
<b>PAVEMENT MARKING DETAILS FOR INTERCHANGE RAMP (PARALLEL AND TAPER)</b>			
SHEET NUMBER PW-3		SHEET NUMBER 6035	
ISSUE DATE: MAY 21, 2017		DATE	
BY	DESIGN	DATE	





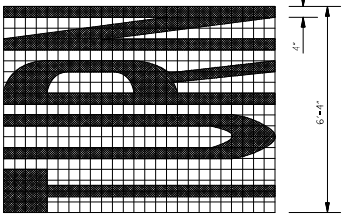
STATE MISS.	PROJECT NO.		
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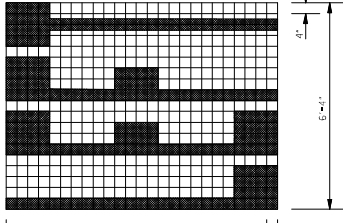
6'-4"

8'-4"



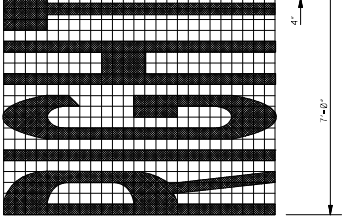
6'-4"

8'-4"



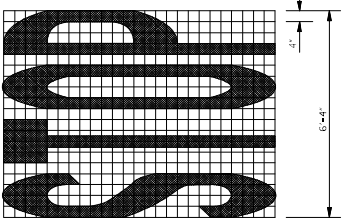
6'-4"

8'-4"



7'-0"

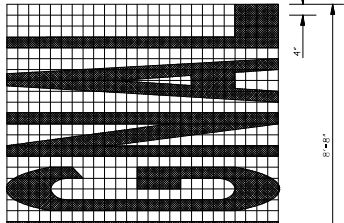
8'-4"



6'-4"

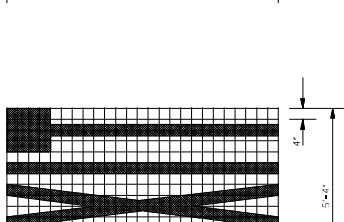
8'-4"



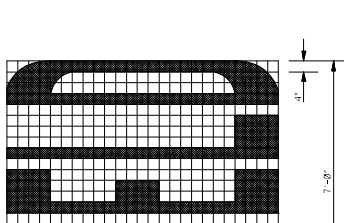
6'-4"

8'-4"



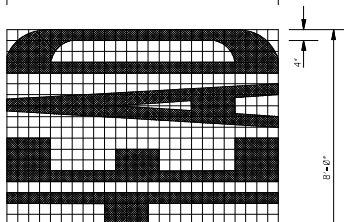
6'-4"

8'-4"



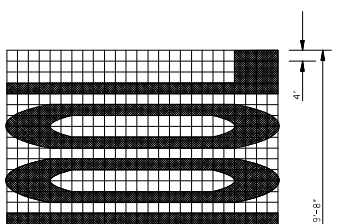
5'-4"

8'-4"



7'-0"

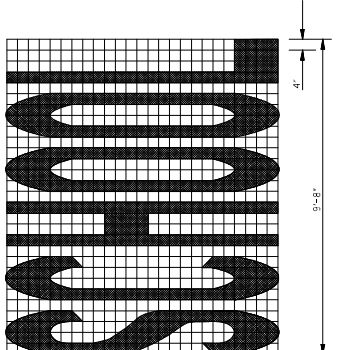
8'-4"



8'-0"

8'-4"



9'-8"

8'-4"

GENERAL NOTES:

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

LEGEND	AREA (ft <sup>2</sup> )
STOP	24.6
RIGHT	28.6
LEFT	19.5
YIELD	27.2
AHEAD	32.4
YIELD	26.8
EXIT	18.5
SIGNAL	32.5
SCHOOL	35.2

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

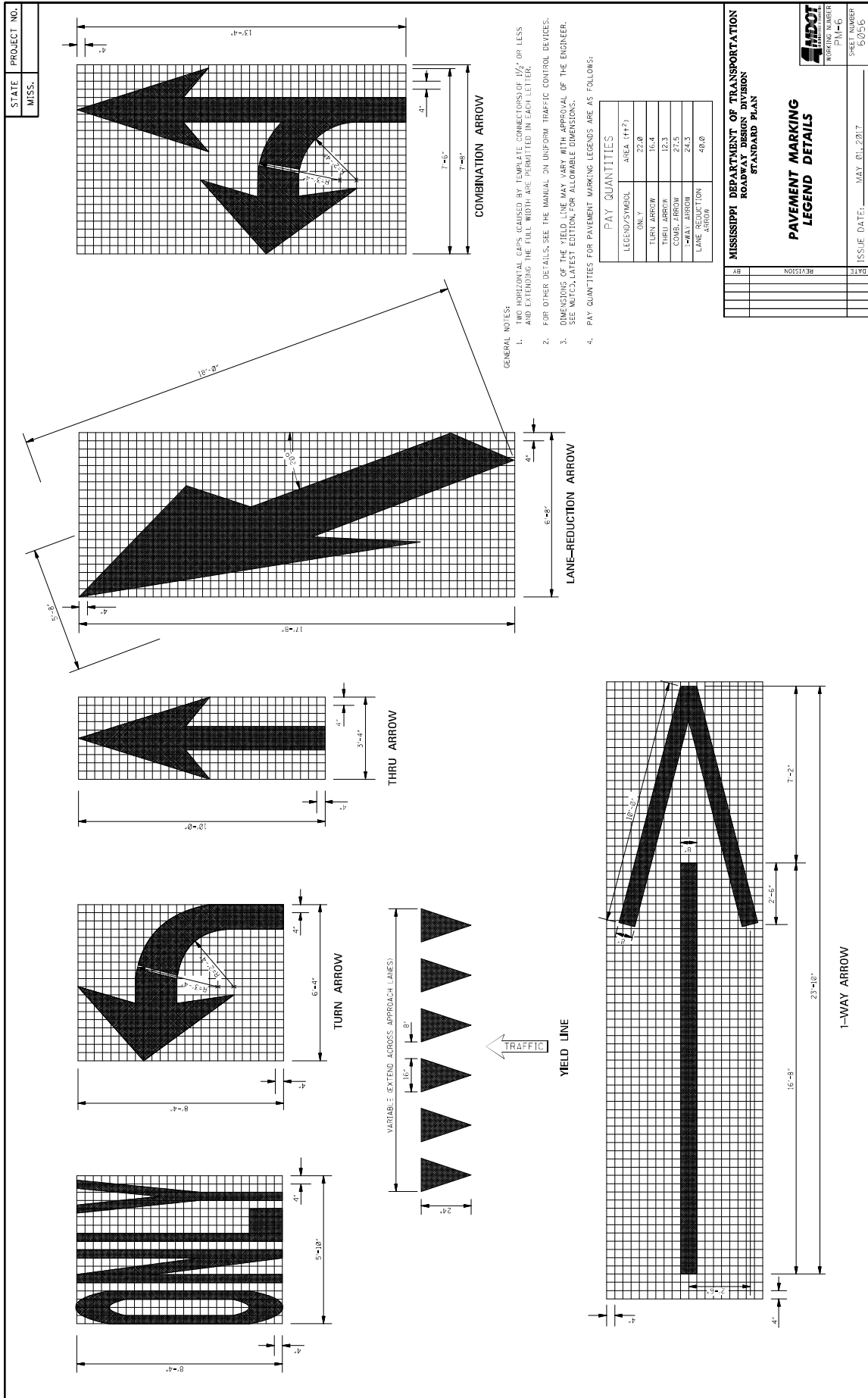
**PAVEMENT MARKING  
LEGEND DETAILS**

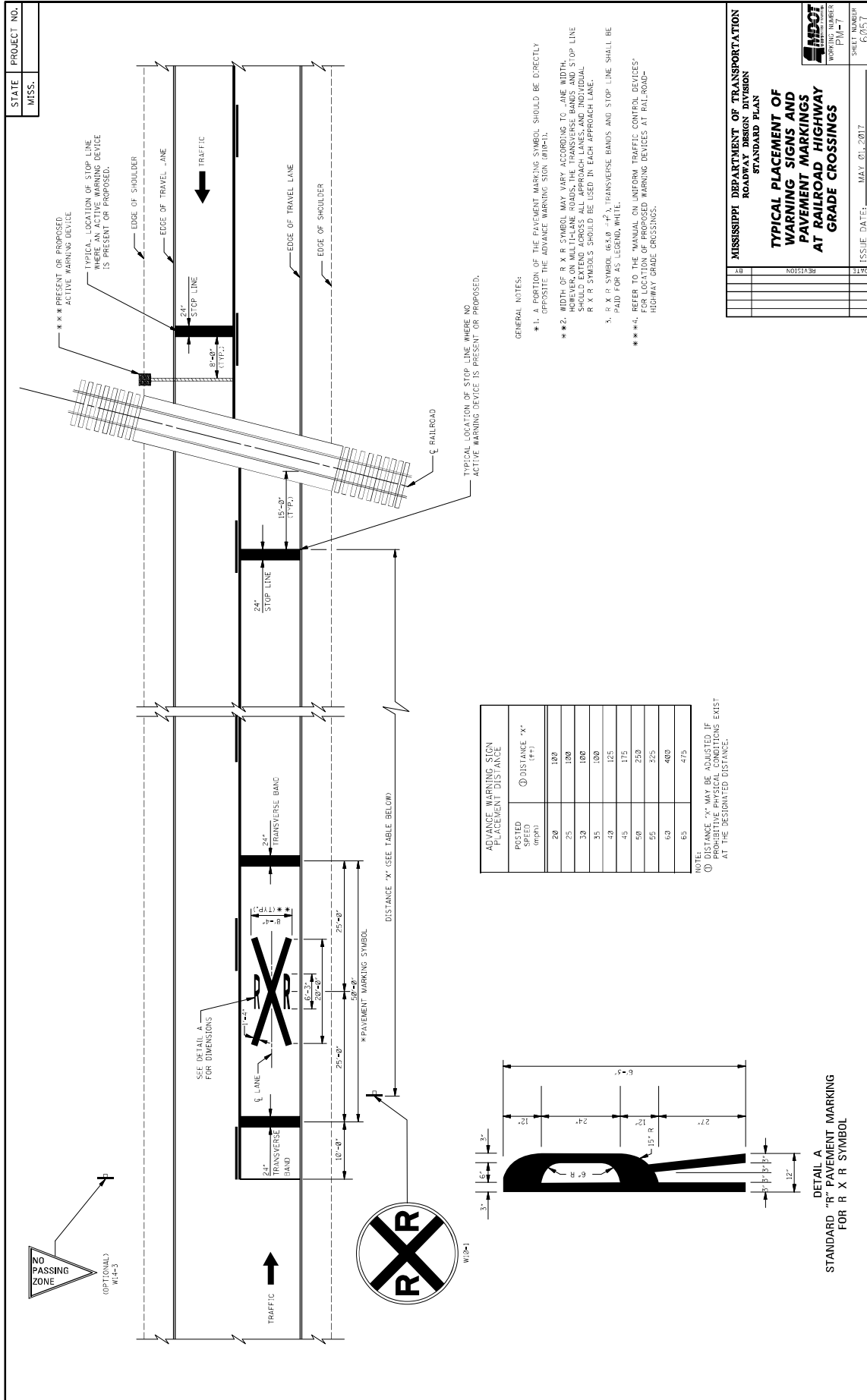
DATE	ISSUE DATE: MAY 01, 2017
BY	
REVISION	



WORKING NUMBER  
PM-5

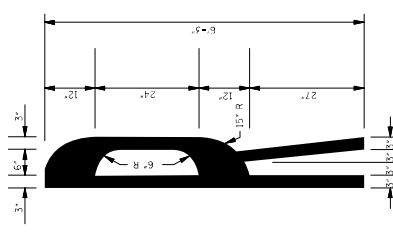
SHEET NUMBER  
6035





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 SHORTER 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. SYMBOLS SHOULD EXTEND ACROSS ALL APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.
  - 3. R X R SYMBOL (65.0 - 75.0) 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.

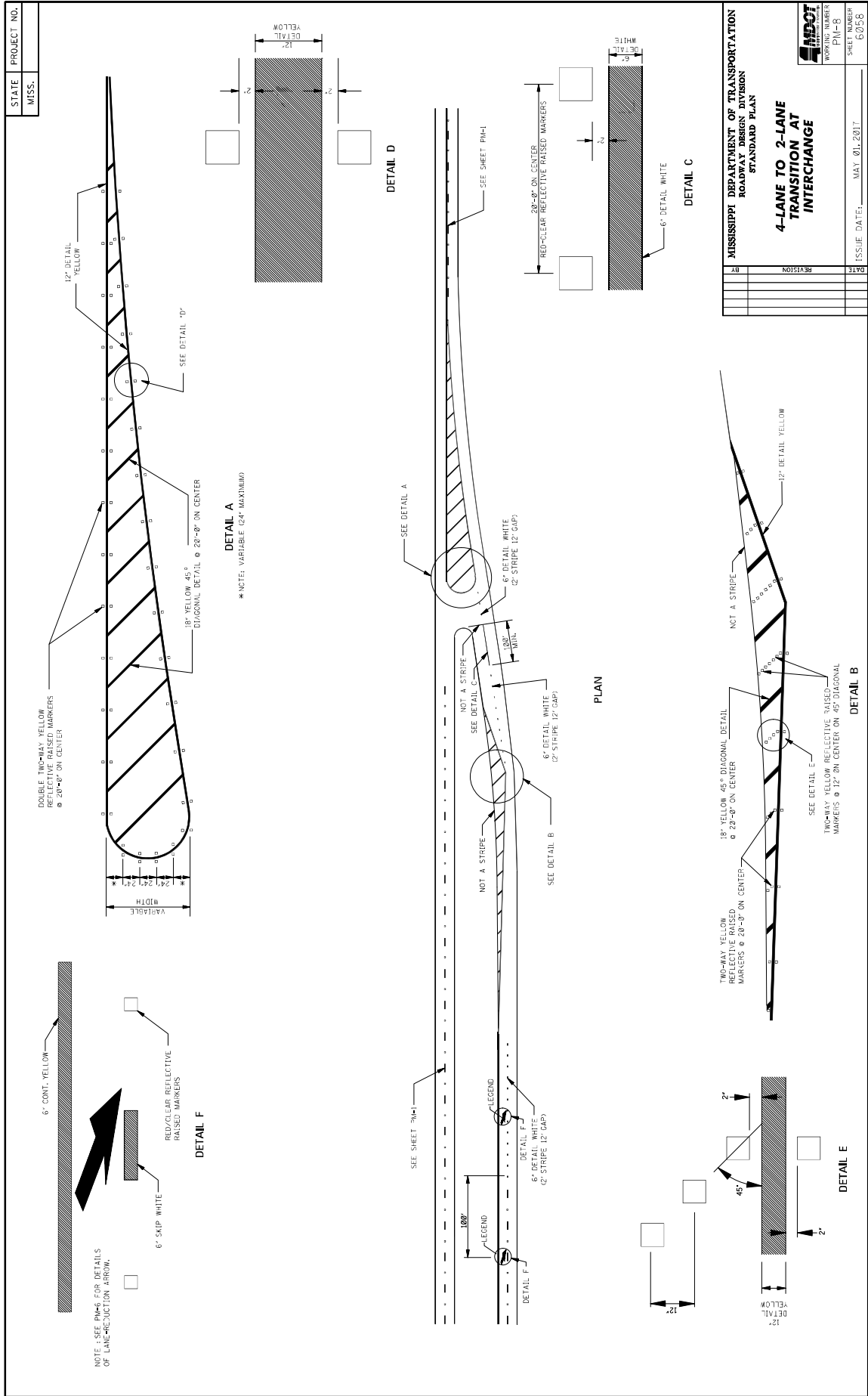
STATE PROJECT NO.  
MISS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

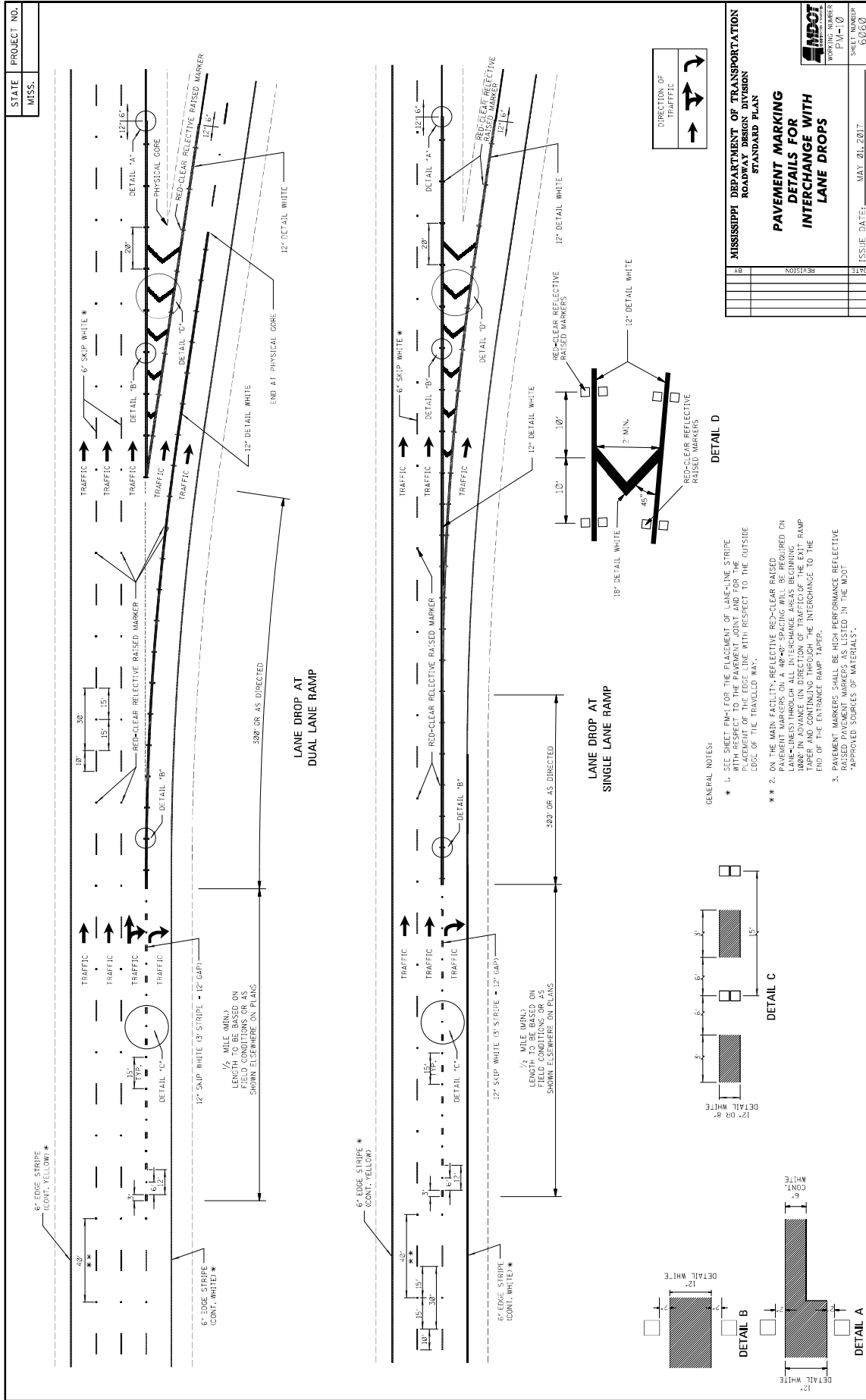
**TYPICAL PLACEMENT OF WARNING SIGNS AND PAVEMENT MARKINGS AT RAILROAD HIGHWAY GRADE CROSSINGS**

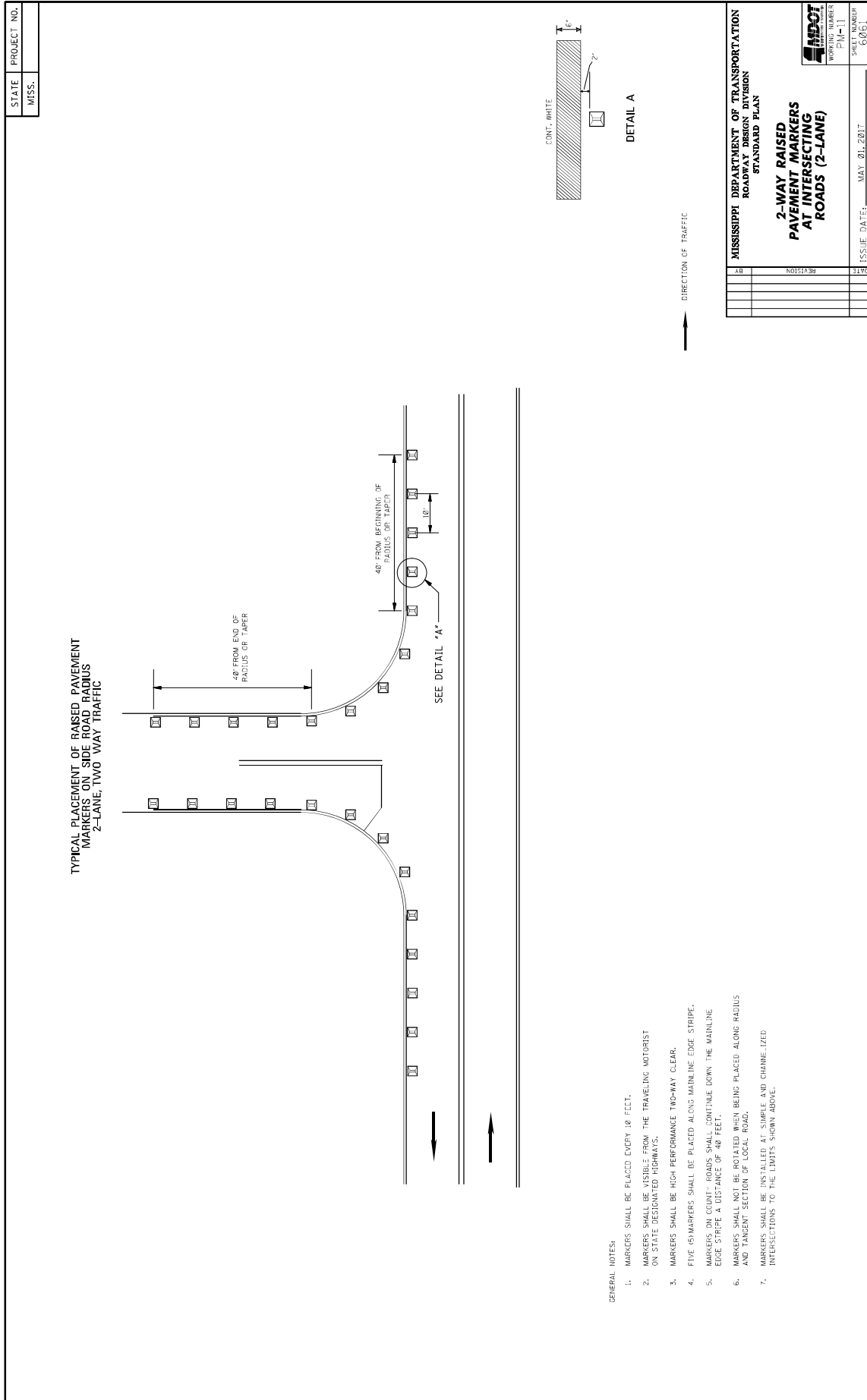
WORKING NUMBER: P10-1  
SHEET NUMBER: 60511

ISSUE DATE: MAY 01, 2017



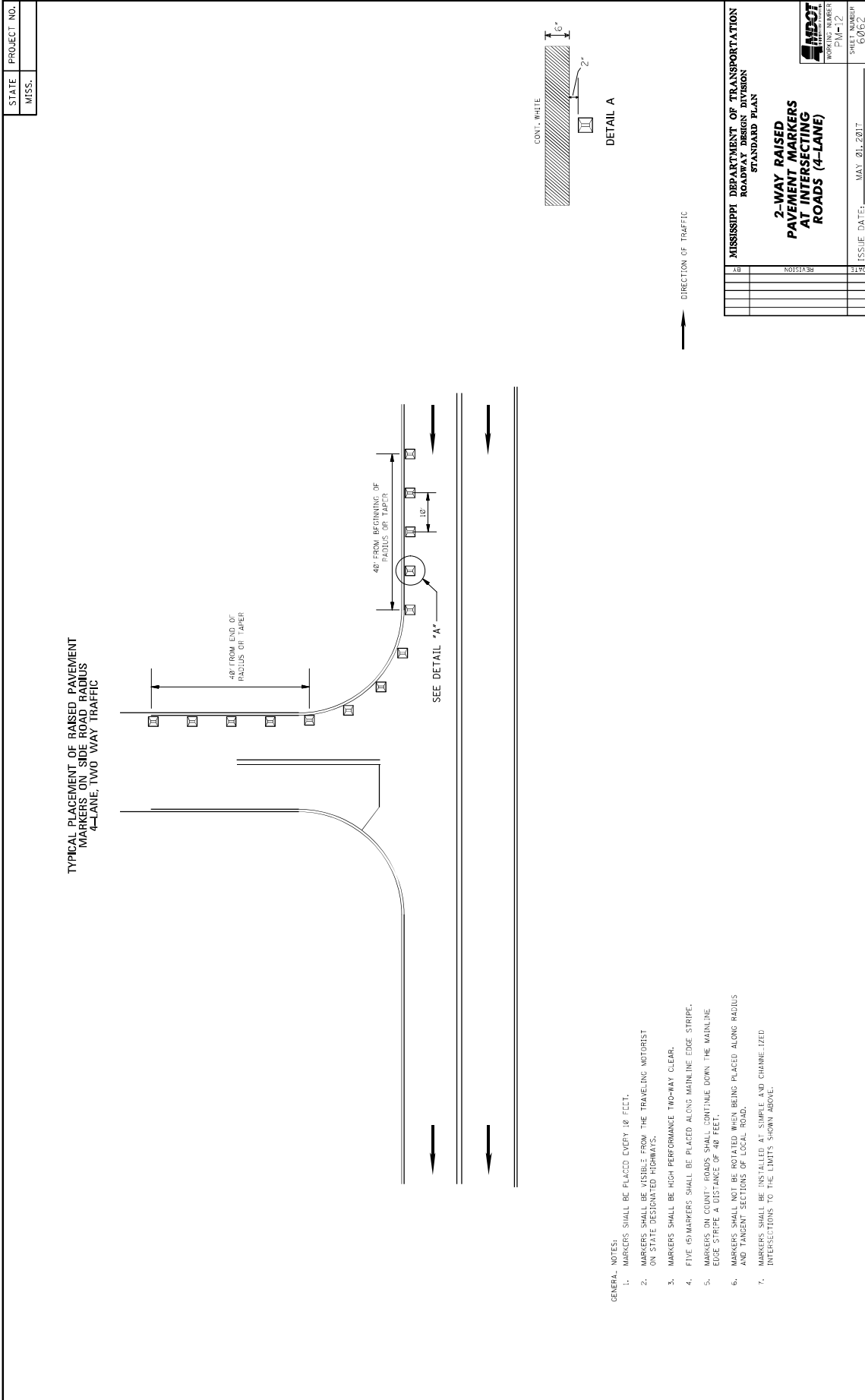






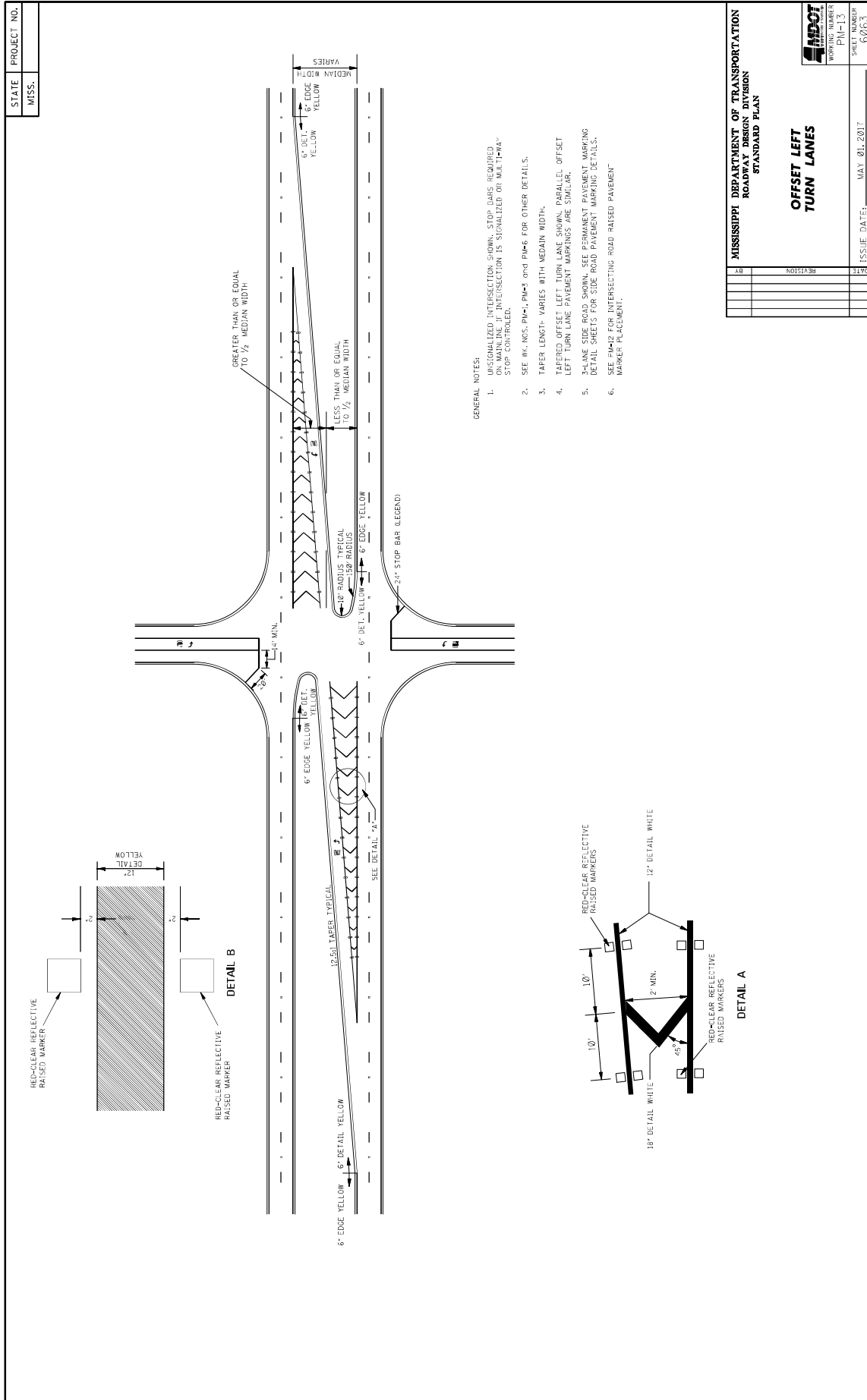
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>2-WAY RAISED PAVEMENT MARKERS AT INTERSECTING ROADS (2-LANE)</b>	
DATE	ISSUE DATE: MAY 01, 2017
BY	
REVISION	

WORKING NUMBER P-11-1 SHEET NUMBER 09/01

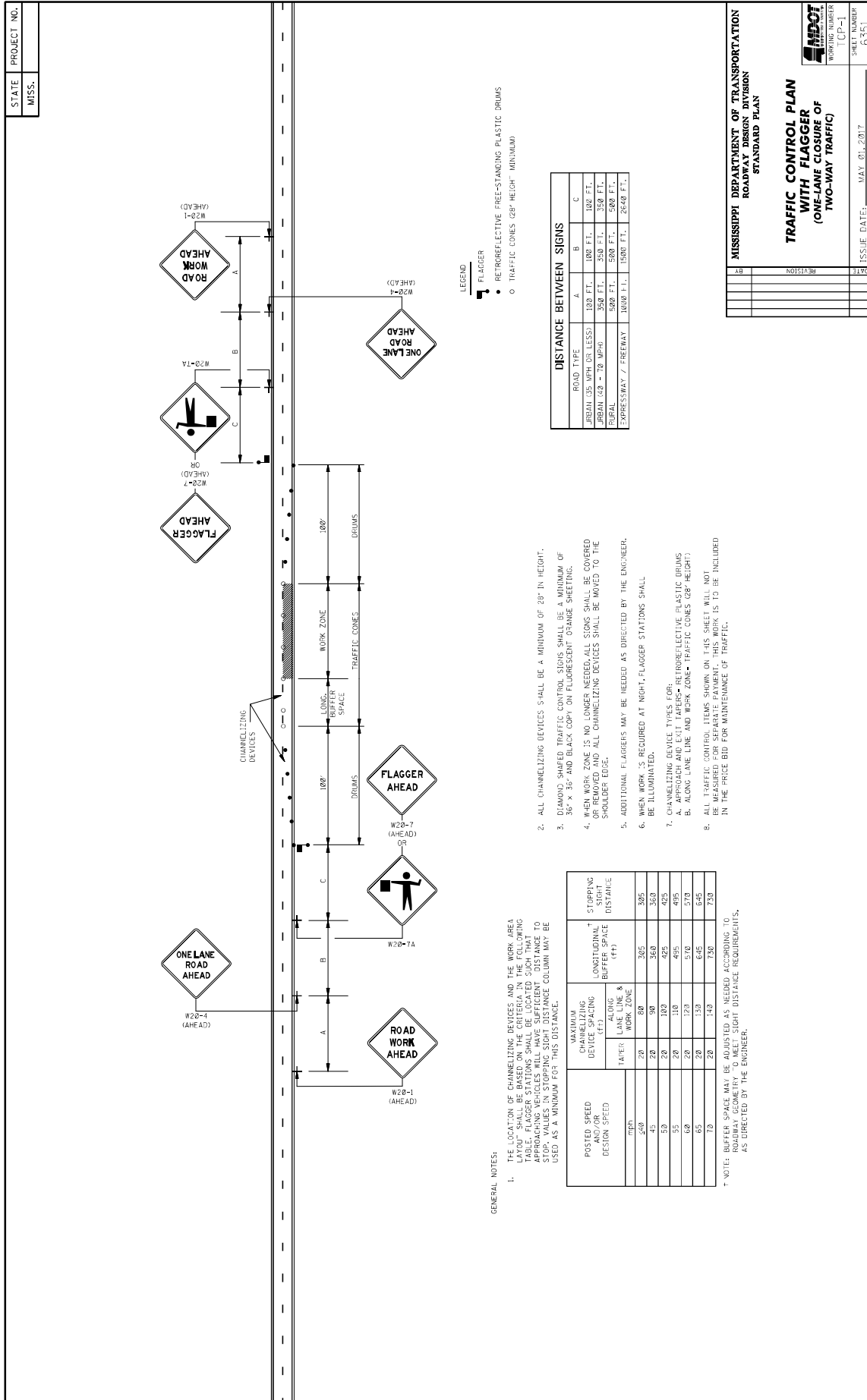


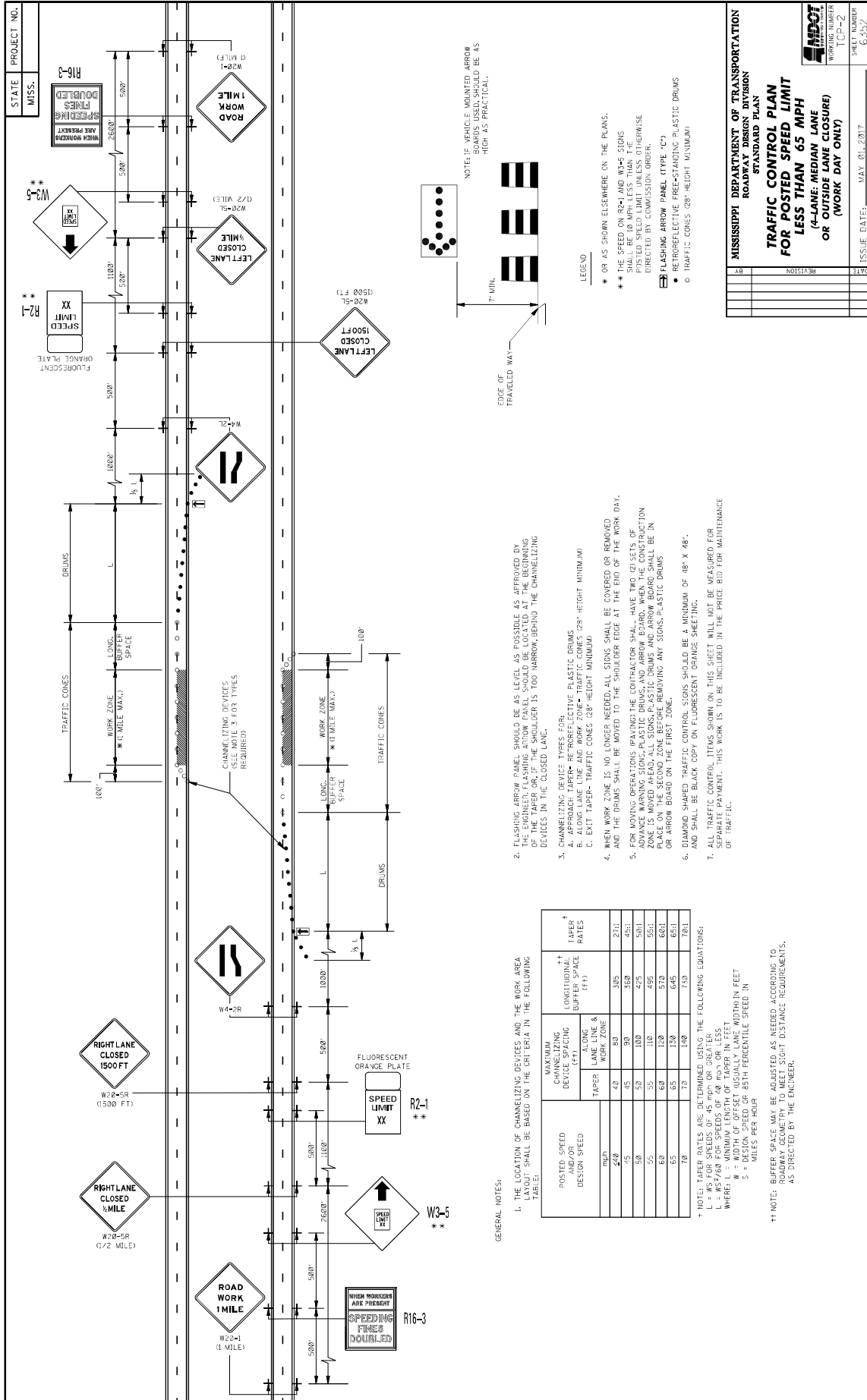
- GENERAL NOTES:**
1. MARKERS SHALL BE FLACED EVERY 10' FEET.
  2. MARKERS SHALL BE VISIBLE FROM THE TRAVELING MOTORIST ON STATE DESIGNATED HIGHWAYS.
  3. MARKERS SHALL BE HIGH PERFORMANCE TWO-WAY CLEAR.
  4. FIVE (5) MARKERS SHALL BE PLACED ALONG MAINLINE EDGE STRIPE.
  5. MARKERS ON COUNTY ROADS SHALL CONTINUE DOWN THE MAINLINE EDGE STRIPE A DISTANCE OF 40' FEET.
  6. MARKERS SHALL NOT BE ROTATED WHEN BEING PLACED ALONG RADIUS AND TANGENT SECTIONS OF LOCAL ROAD.
  7. MARKERS SHALL BE INSTALLED AT SIMPLE AND CHANNELIZED INTERSECTIONS TO THE LIMITS SHOWN ABOVE.





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





STATE PROJECT NO.  
MISS. R16-3

W20-1 (1 MILE)  
ROAD WORK 1 MILE  
W20-5L (1/2 MILE)  
LEFT LANE CLOSED 1/2 MILE  
W20-5R (1/2 MILE)  
RIGHT LANE CLOSED 1/2 MILE  
W20-1R (1500 FT)  
RIGHT LANE CLOSED 1500 FT  
W20-5P (1/2 MILE)  
RIGHT LANE CLOSED 1/2 MILE

R2-1  
SPEED LIMIT XX  
FLUORESCENT ORANGE PLATE  
W3-5  
SPEED LIMIT XX  
W4-2R  
RIGHT LANE CLOSED 1500 FT

R16-3  
SPEEDING FINES DOUBLED  
W20-1 (1 MILE)  
ROAD WORK 1 MILE

W20-5L (1/2 MILE)  
LEFT LANE CLOSED 1/2 MILE  
W20-5R (1/2 MILE)  
RIGHT LANE CLOSED 1/2 MILE  
W20-1R (1500 FT)  
RIGHT LANE CLOSED 1500 FT  
W20-5P (1/2 MILE)  
RIGHT LANE CLOSED 1/2 MILE

R2-1  
SPEED LIMIT XX  
FLUORESCENT ORANGE PLATE  
W3-5  
SPEED LIMIT XX  
W4-2R  
RIGHT LANE CLOSED 1500 FT

R16-3  
SPEEDING FINES DOUBLED  
W20-1 (1 MILE)  
ROAD WORK 1 MILE

W20-5L (1/2 MILE)  
LEFT LANE CLOSED 1/2 MILE  
W20-5R (1/2 MILE)  
RIGHT LANE CLOSED 1/2 MILE  
W20-1R (1500 FT)  
RIGHT LANE CLOSED 1500 FT  
W20-5P (1/2 MILE)  
RIGHT LANE CLOSED 1/2 MILE

R2-1  
SPEED LIMIT XX  
FLUORESCENT ORANGE PLATE  
W3-5  
SPEED LIMIT XX  
W4-2R  
RIGHT LANE CLOSED 1500 FT

R16-3  
SPEEDING FINES DOUBLED  
W20-1 (1 MILE)  
ROAD WORK 1 MILE

W20-5L (1/2 MILE)  
LEFT LANE CLOSED 1/2 MILE  
W20-5R (1/2 MILE)  
RIGHT LANE CLOSED 1/2 MILE  
W20-1R (1500 FT)  
RIGHT LANE CLOSED 1500 FT  
W20-5P (1/2 MILE)  
RIGHT LANE CLOSED 1/2 MILE

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

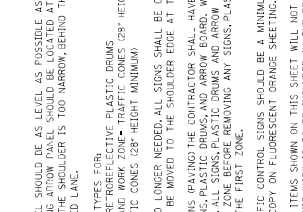
POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (FT)		LONGITUDINAL BUFFER SPACE (FT)	TAPER RATES
	LANE LINE & WORK ZONE	LANE LINE & WORK ZONE		
40	40	80	305	27:1
45	45	90	350	45:1
50	50	100	425	50:1
55	55	110	495	55:1
60	60	120	570	60:1
65	65	130	645	65:1
70	70	140	730	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:  
 L = MS FOR SPEEDS OF 45 MPH OR GREATER  
 L = MS FOR SPEEDS OF 30 MPH OR GREATER  
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET  
 M = 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 AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. THE PANEL SHOULD BE LOCATED AT THE END OF THE WORK DAY OF THE TAPER OR AT THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. CHANNELIZING DEVICES: TAPER, FOR:
  - A. APPROACH TAPER- RETROREFLECTIVE PLASTIC DRUMS
  - B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT MINIMUM)
  - C. EXIT TAPER- TRAFFIC CONES (28" HEIGHT MINIMUM)
4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED.
5. 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.
6. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48" AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
7. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

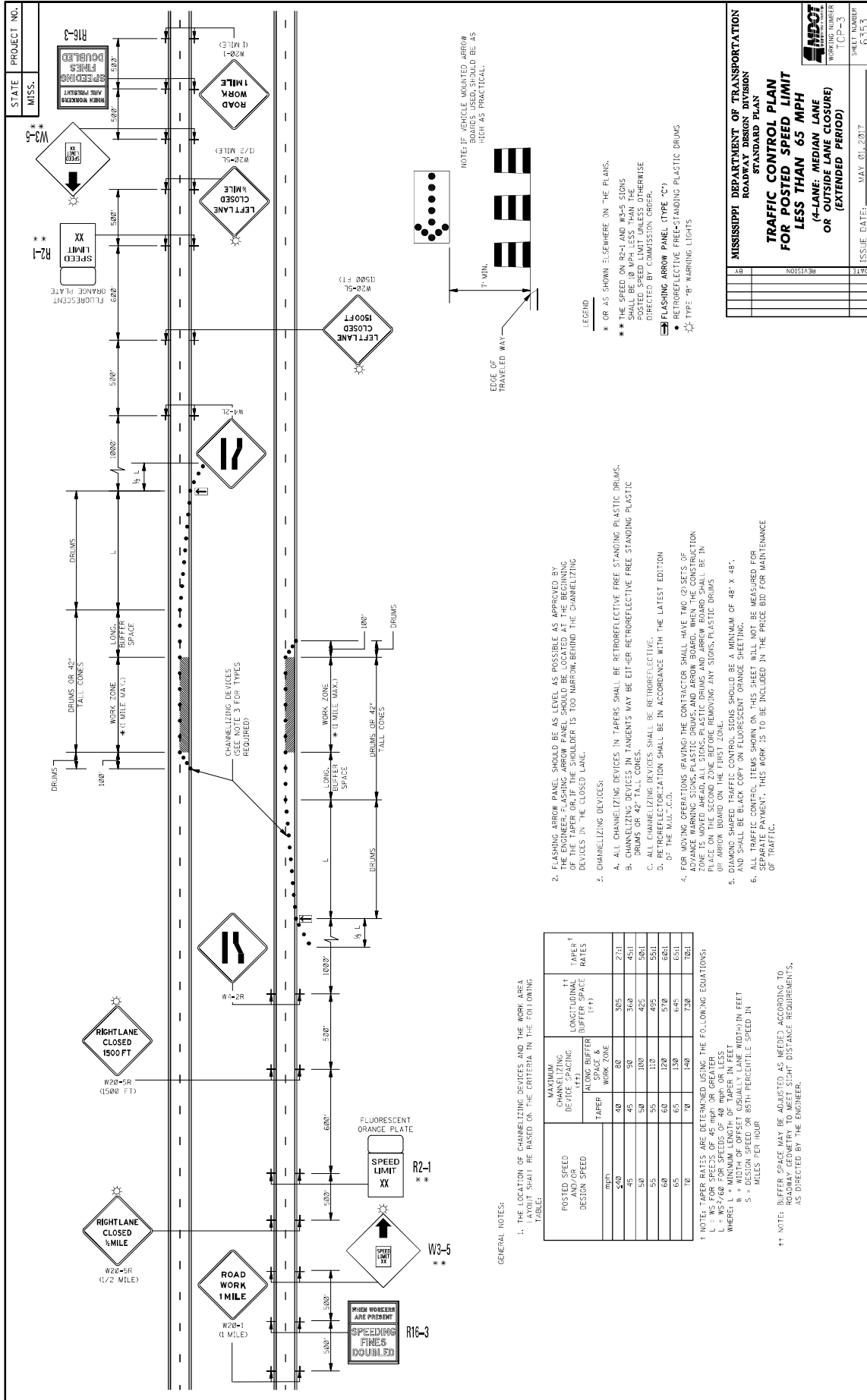
- LEGEND
- \* OR AS SHOWN ELSEWHERE ON THE PLANS.
  - \*\* THE SPEED ON R2-1 AND W3-5 SIGNS SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.
  - Ⓜ FLASHING ARROW PANEL (TYPE "C")
  - RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
  - TRAFFIC CONES (28" HEIGHT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



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)  
 OR (WORK DAY ONLY)**

ISSUE DATE: MAY 01, 2017  
 SHEET NUMBER: 6252  
 WORKING NUMBER: T1P-2



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

POSTED SPEED DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (FEET)		LONGITUDINAL BUFFER SPACE (FEET)	TAPER RATES
	ALONG BUFFER	WORK ZONE		
30	40	80	305	2:1
40	45	90	360	4:1
50	50	100	425	5:1
60	55	110	495	6:1
70	60	120	570	8:1
80	65	130	645	10:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:  
 L = AS FOR SPEEDS OF 45 MPH OR GREATER  
 L = WS/60 FOR SPEEDS OF 40 MPH OR LESS  
 WHERE: 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 AS NECESSARY ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

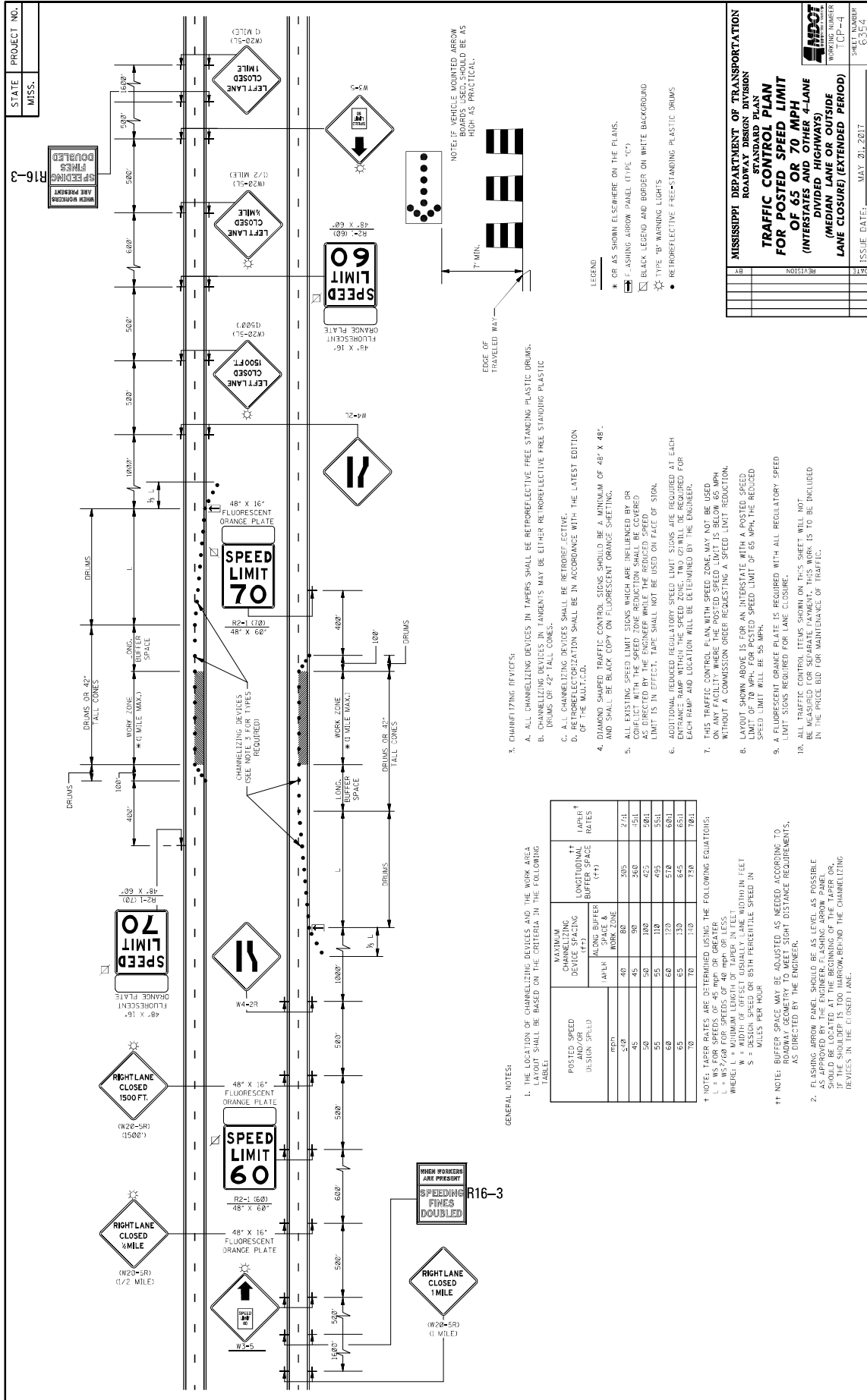
- GENERAL NOTES:
- THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
  - FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE WORK ZONE. BUFFER SHOULD BE 100' AHEAD OF THE CHANNELIZING DEVICES IN THE CLOSED LANE.
  - CHANNELIZING DEVICES:
    - ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
    - DRUMS OR 42" TALL CONES.
    - ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
    - RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE M.I.T.S.D.
  - FOR WORKING DRUMS, TAPERS THE CONTRACTOR SHALL HAVE TWO (2) FEET OF CHANNELIZING DEVICES (STANDING PLASTIC DRUMS AND ARROW BOARD) IN THE CONSTRUCTION ZONE IS MOVED AHEAD ALL STANDING PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY STANDING PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
  - ALL CHANNELIZING DEVICES SHALL BE A MINIMUM OF 48" X 48" AND SHALL BE BLACK COPY OR FLUORESCENT ORANGE SHEETING.
  - 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.

- LEGEND
- OR AS SHOWN ELSEWHERE ON THE PLANS.
  - THE SPEED ON R2-1 AND R2-5 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, MEDIAN LANE  
 OR OUTSIDE LANE CLOSURE  
 (EXTENDED PERIOD))**

WORKING NUMBER: TCP-3  
 SHEET NUMBER: 6253

ISSUE DATE: MAY 01, 2017



STATE PROJECT NO.  
MISS.

**R16-3**  
WHEN WORKERS ARE WORKING SPEEDING LINES ARE PERMITTED TO BE DOUBLED

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

ISSUE DATE: MAY 20, 2012

WORKING NUMBER: CP-44  
SHEET NUMBER: 6554

POSTED SPEED (DESIGN SPEED)	MAXIMUM CHANNELIZING DEVICE SPACING		LONGITUDINAL BUFFER SPACE (FT)	TAPER RATES
	ALONG SPACE & WORK ZONE	ALONG SPACE & WORK ZONE		
50	40	80	305	2/1
55	45	90	360	3/1
60	50	100	420	4/1
65	55	110	495	5/1
70	60	120	570	6/1
75	65	130	645	7/1
80	70	140	730	8/1

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

NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:  
 T = WS<sup>2</sup>/60 FOR SPEEDS OF 45 MPH OR GREATER  
 L = WS/2 FOR SPEEDS OF 40 MPH OR LESS  
 WHERE: L = MINIMUM BUFFER SPACE (FEET)  
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

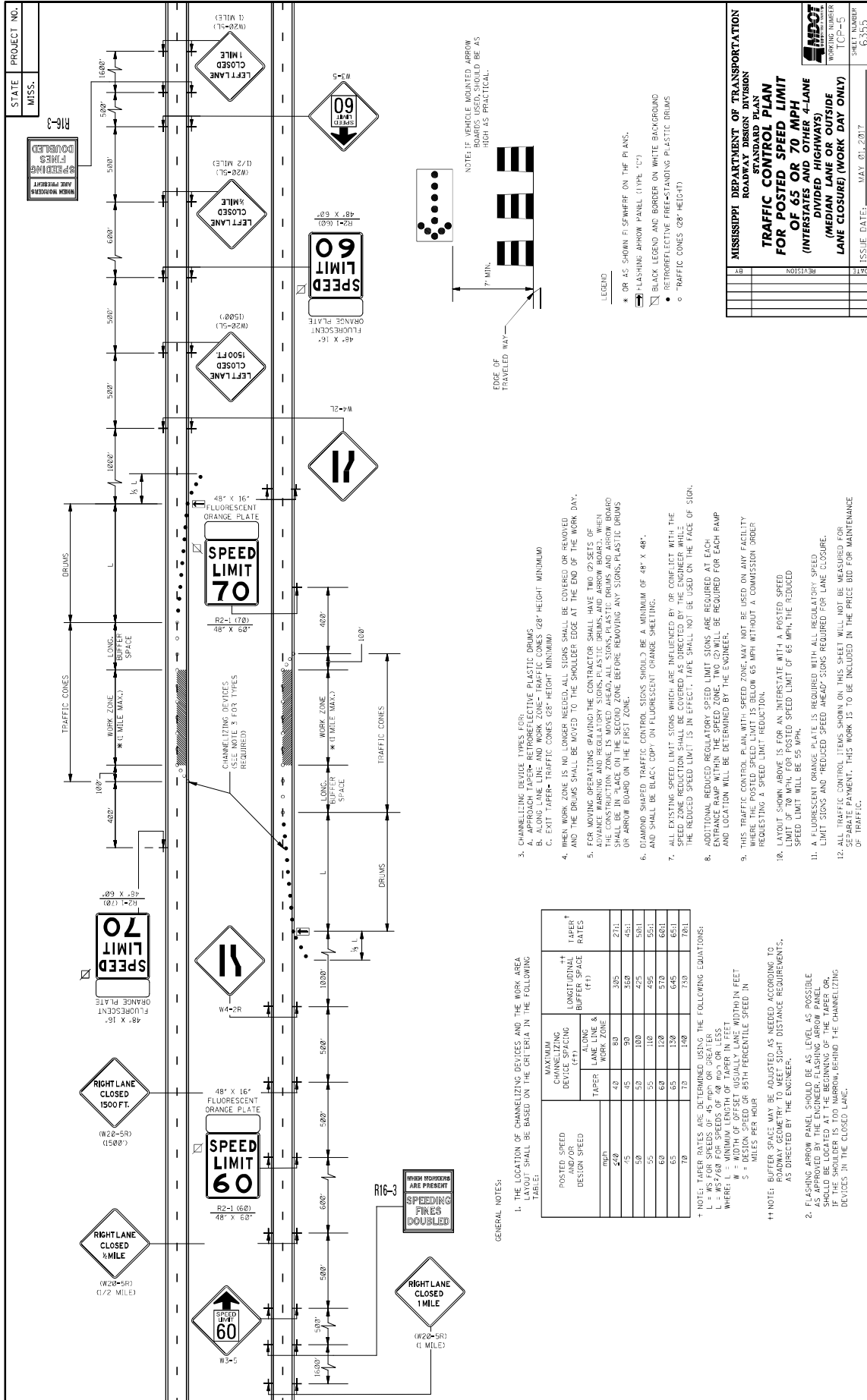
NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO ROADWAY GEOMETRY TO MEET SIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

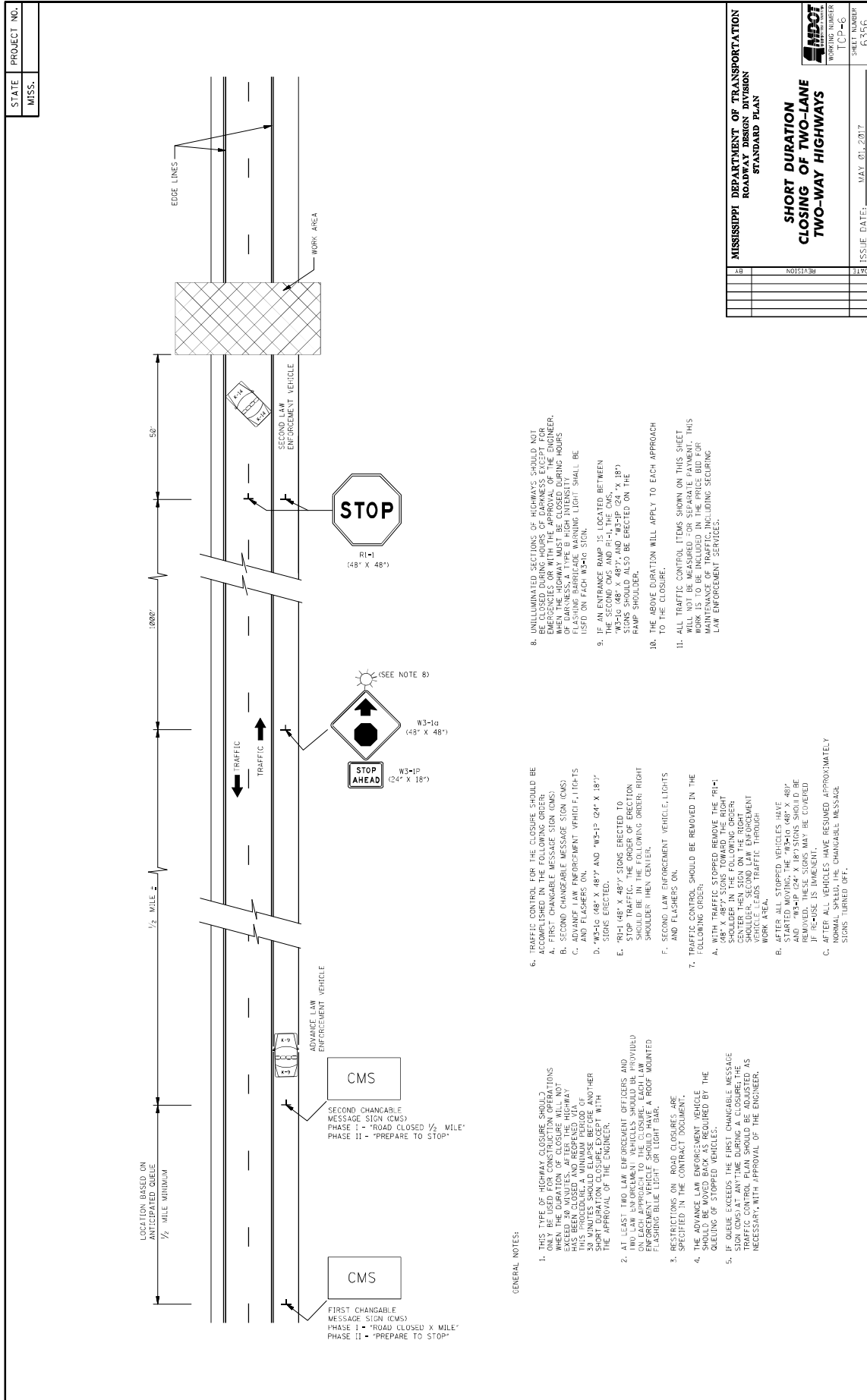
2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR AT THE END OF THE TAPER, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

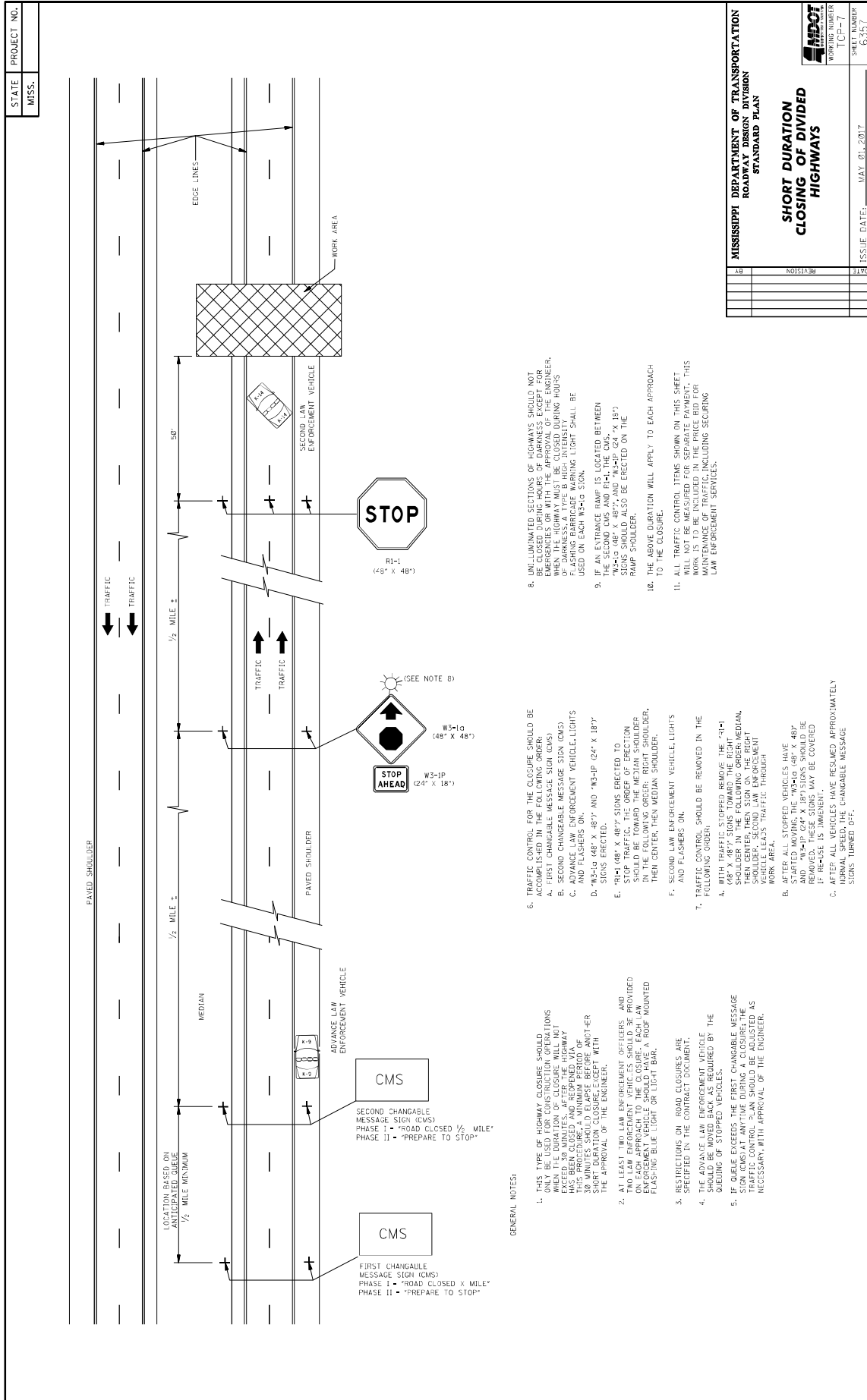
- GENERAL NOTES:
- CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
  - CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
  - ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
  - RETROREFLECTIVIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD-6A.
  - DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48" AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
  - ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR CONFLICT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED. THE EXISTING SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON FACE OF SIGN.
  - ADDITIONAL REQUIRED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP AND LEGALION WILL BE DETERMINED BY THE ENGINEER.
  - THIS TRAFFIC CONTROL PLAN WITH SPEED ZONE MAY NOT BE USED ON ANY FACILITY WHERE THE POSTED SPEED LIMIT IS BELOW 65 MPH WITHOUT A COMMISSION ORDER REQUESTING A SPEED LIMIT REDUCTION.
  - LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH FOR PASTED SPEED LIMIT OF 65 MPH. THE REDUCED SPEED LIMIT WILL BE 55 MPH.
  - A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS REQUIRED FOR LANE CLOSURE.
  - ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

LEGEND

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







- GENERAL NOTES:
- THIS TYPE OF HIGHWAY CLOSURE SHOULD BE USED ONLY FOR SHORT DURATION CLOSURES WHEN THE DURATION OF CLOSURE WILL NOT EXCEED 30 MINUTES AFTER THE HIGHWAY CLOSURE. THIS PROCEDURE A MINIMUM PERIOD OF 30 MINUTES SHOULD ELAPSE BEFORE ANY OTHER CLOSURES ARE MADE WITHOUT THE APPROVAL OF THE ENGINEER.
  - AT LEAST TWO LAW ENFORCEMENT OFFICERS AND TWO LAW ENFORCEMENT VEHICLES SHOULD BE PROVIDED ON EACH APPROACH TO THE CLOSURE. EACH LAW ENFORCEMENT VEHICLE SHOULD BE EQUIPPED WITH A ROOF MOUNTED FLASHING BLUE LIGHT OR LIGHT BAR.
  - RESTRICTIONS ON ROAD CLOSURES ARE SPECIFIED IN THE CONTRACT DOCUMENT.
  - THE ADVANCE LAW ENFORCEMENT VEHICLE SHOULD BE MOVED BACK AS REQUIRED BY THE QUEUEING OF STOPPED VEHICLES.
  - IF QUEUE EXCEEDS THE FIRST CHANGABLE MESSAGE SIGN, THE ADVANCE LAW ENFORCEMENT VEHICLE SHOULD BE MOVED BACK AS NECESSARY WITH APPROVAL OF THE ENGINEER.
  - TRAFFIC CONTROL FOR THE CLOSURE SHOULD BE ACCOMPLISHED IN THE FOLLOWING ORDER:
    - FIRST CHANGABLE MESSAGE SIGN (CMS)
    - SECOND CHANGABLE MESSAGE SIGN (CMS)
    - ADVANCE LAW ENFORCEMENT VEHICLE(S) AND FLASHERS ON
    - W3-1G (48" X 48") AND W3-1P (24" X 18") SIGNS ERECTED.
    - RI-1 (48" X 48") SIGNS ERECTED TO STOP TRAFFIC. THE ORDER OF ERECTION SHOULD BE TOWARD THE MEDIAN SHOULDER, THEN CENTER, THEN MEDIAN SHOULDER, AND FLASHERS ON.
    - SECOND LAW ENFORCEMENT VEHICLE, LIGHTS AND FLASHERS ON.
    - TRAFFIC CONTROL SHOULD BE REMOVED IN THE FOLLOWING ORDER:
      - WITH TRAFFIC STOPPED REMOVE THE RI-1 SIGN FROM THE MEDIAN SHOULDER, THEN CENTER, THEN SHOULDER IN THE FOLLOWING ORDER: MEDIAN, THEN CENTER, THEN SIGN ON THE RIGHT SHOULDER. AFTER THE TRAFFIC CONTROL VEHICLE LEADS TRAFFIC THROUGH WORK AREA.
      - AFTER ALL STOPPED VEHICLES HAVE STARTED MOVING, THE W3-1G (48" X 48") AND W3-1P (24" X 18") SIGNS SHOULD BE REMOVED. THESE SIGNS MAY BE COVERED IF RELEASE IS IMMINENT.
    - AFTER ALL VEHICLES HAVE RESUMED APPROXIMATELY NORMAL FLOW, THE CHANGABLE MESSAGE SIGN IS TURNED OFF.
  - TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE FOR MAINTENANCE OF SERVICES INCLUDING SECURING LAW ENFORCEMENT SERVICES.
  - UNILLUMINATED SECTIONS OF HIGHWAYS SHOULD NOT BE CLOSED DURING HOURS OF DARKNESS EXCEPT FOR EMERGENCY REPAIRS. THE CLOSURE SHOULD BE REMOVED WHEN THE HIGHWAY MUST BE CLOSED DURING HOURS OF DARKNESS. A TYPE B HIGH-INTENSITY REFLECTOR LIGHTING SYSTEM WITH FLASHING LIGHT SHALL BE USED ON EACH W3-1G SIGN.
  - IF AN ENTRANCE RAMP IS LOCATED BETWEEN THE SECOND LANE AND FM+1, THE CMS W3-1G (48" X 48") AND W3-1P (24" X 18") SIGNS SHOULD ALSO BE ERECTED ON THE RAMP SHOULDER.
  - THE ABOVE DURATION WILL APPLY TO EACH APPROACH TO THE CLOSURE.
  - ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK SHALL BE INCLUDED IN THE PRICE FOR MAINTENANCE OF SERVICES INCLUDING SECURING LAW ENFORCEMENT SERVICES.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>SHORT DURATION CLOSING OF DIVIDED HIGHWAYS</b>	
ISSUE DATE: MAY 01, 2017	SHEET NUMBER 102-7 8257



STATE MISS.	PROJECT NO.
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### WING BARRICADES

1. WING BARRICADES ARE TYPE III BARRICADES ERECTED ON THE SHOULDER OF A ROADWAY OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A WARNING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.
2. WING BARRICADES SHOULD BE USED:
  - A. IN ADVANCE OF A CONSTRUCTION PROJECT EVEN WHEN NO PART OF THE ROADWAY IS ACTUALLY CLOSED.
  - B. 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 RETROREFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 4 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 IN<sup>2</sup> OF REFLECTIVE AREA FACING TRAFFIC.

### STANDARD BARRICADES

1. 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).
2. RAIL STRIPE SHALL BE 6 INCHES, EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES.
3. DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
4. FOR ADDITIONAL INFORMATION OR DETAILS, SEE METHOD, LATEST EDITION.
5. 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: <https://safety.fhwa.dot.gov/roadways/dept/pafety/office/road hardware/cat2.cfm>

### PLASTIC DRUM STRIPING DETAIL

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

### TYPE 3 OBJECT MARKER (OM-3R)

1. TYPE 3 OBJECT MARKERS SHALL BE USED AT ALL EXPOSED BRIDGE ABUTMENTS AND AT OTHER LOCATIONS AS DETERMINED NECESSARY BY THE ENGINEER.
2. 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.
3. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION.

### CHEVRON SIGN DETAIL

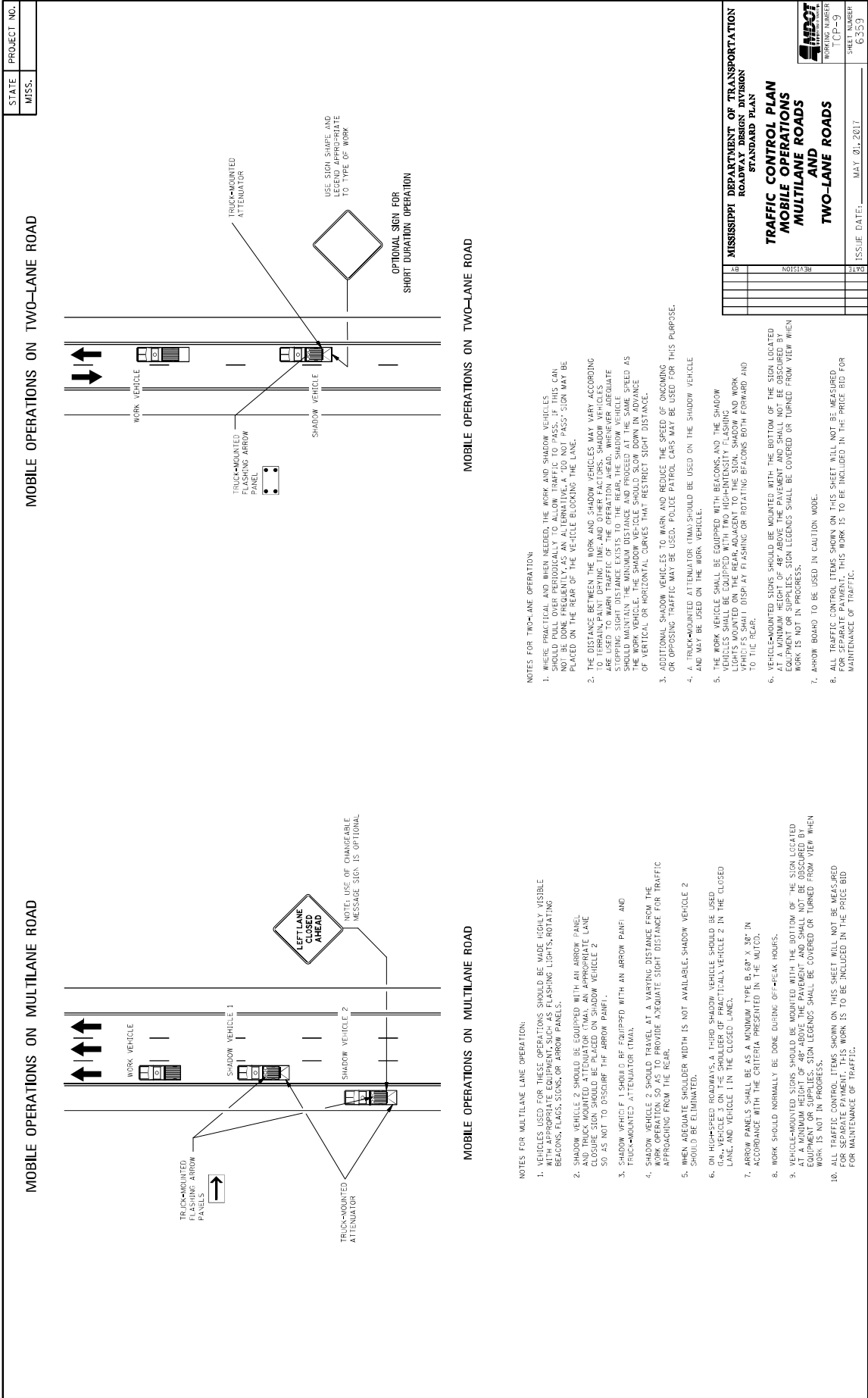
1. A CHEVRON SIGN CONSISTS OF A BLACK CHEVRON TYPE MARKING ON AN ORANGE BACKGROUND AND SHALL POINT IN THE DIRECTION OF TRAFFIC FLOW.
2. THE CHEVRON SIGN SHALL BE MOUNTED ON CRASHWORTHY SUPPORT.
3. CHEVRON SIGNS MAY BE USED TO SUPPLEMENT OTHER STANDARD DEVICES WHERE ONE OR MORE LANES ARE CLOSED FOR CONSTRUCTION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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
DATE	REVISION

**HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS**

WORKING NUMBER	ICP-5
SHEET NUMBER	05350

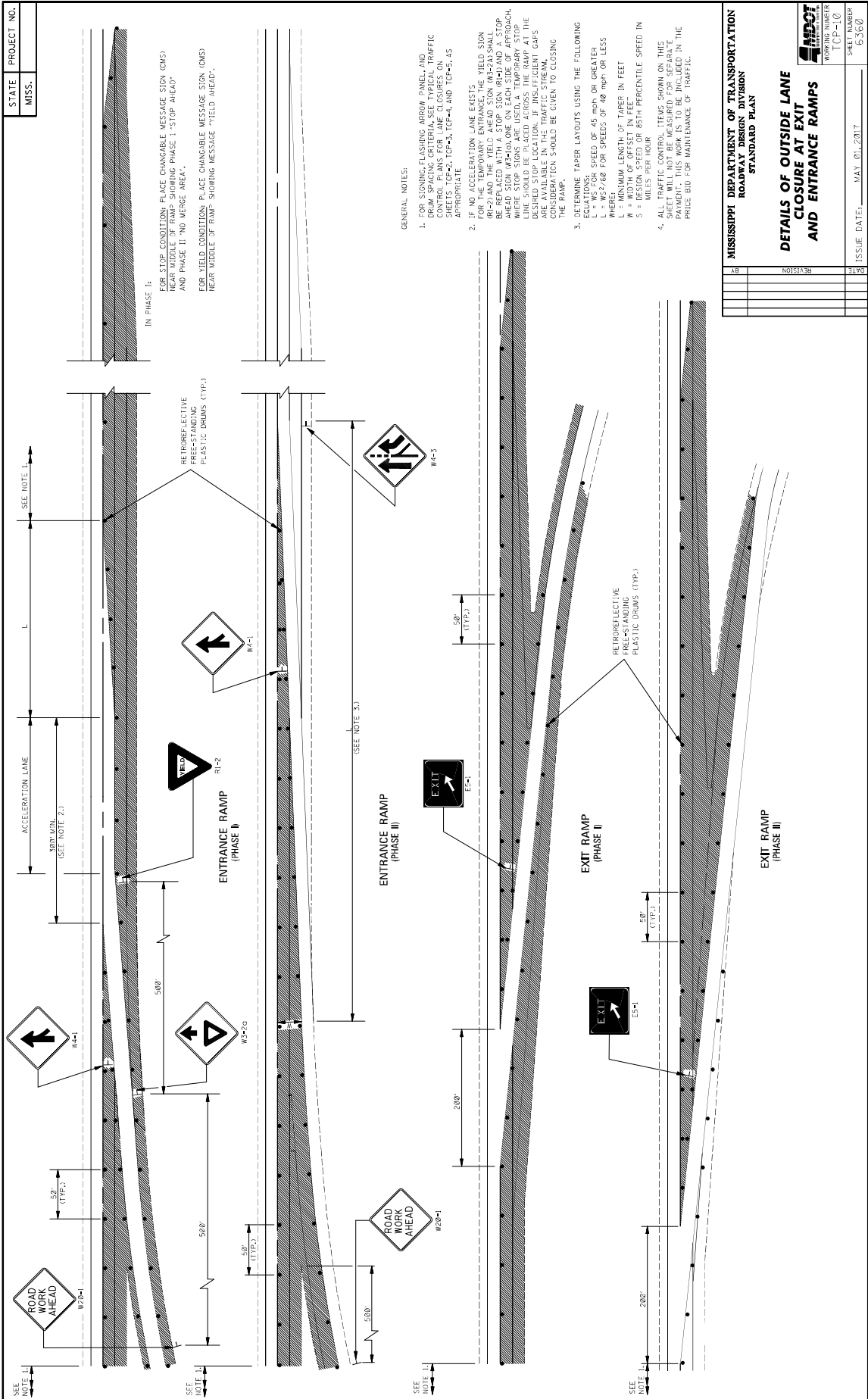
ISSUE DATE: MAY 2012



STATE	PROJECT NO.
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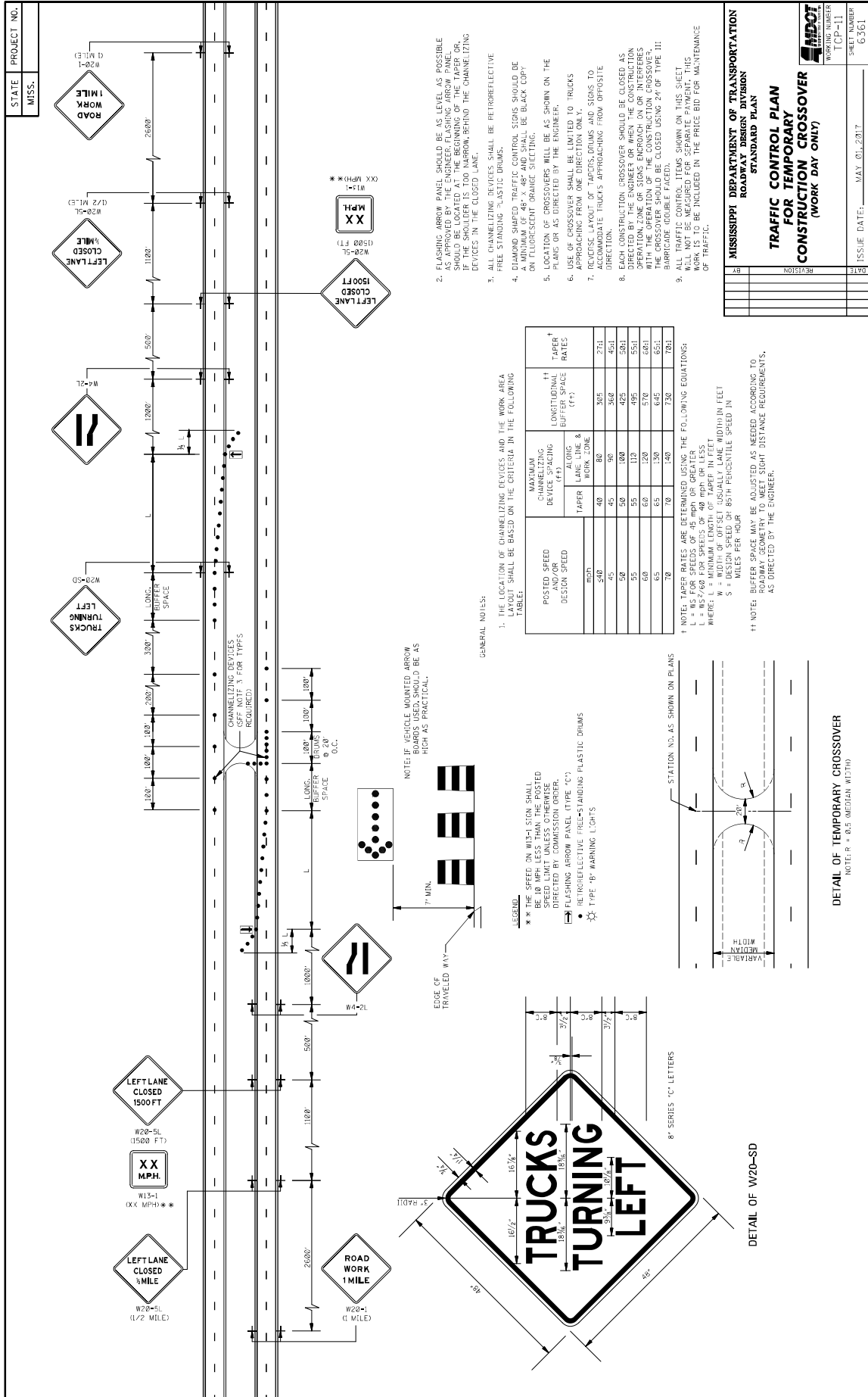
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
TRAFFIC CONTROL PLAN	
MOBILE OPERATIONS	
MULTILANE ROADS	
TWO-LANE ROADS	
ISSUE DATE:	MAY 01, 2017
SHEET NUMBER	CP-9
SHEET TOTAL	6353

- NOTES FOR MULTILANE LANE OPERATION:**
- VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLASERS, SIGNS, OR ARROW PANELS.
  - SHADOW VEHICLE 2 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA), AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE PLACED IN FRONT OF SHADOW VEHICLE 2 SO AS NOT TO OBSCURE THE ARROW PANEL.
  - SHADOW VEHICLE 1 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA).
  - SHADOW VEHICLE 2 SHOULD TRAVEL AT A VARYING DISTANCE FROM THE WORK OPERATION SO AS TO PROVIDE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
  - WHEN ADEQUATE SHOULDER WIDTH IS NOT AVAILABLE, SHADOW VEHICLE 2 SHOULD BE ELIMINATED.
  - ON HIGH-SPEED ROADWAYS, A THIRD SHADOW VEHICLE SHOULD BE USED (I.e., VEHICLE 3 ON THE SHOULDER OF PRACTICALLY VEHICLE 2 IN THE CLOSED LANE, AND VEHICLE 1 IN THE CLOSED LANE).
  - ARROW PANELS SHALL BE AS A MINIMUM TYPE B, 60" X 36" IN ACCORDANCE WITH THE CRITERIA PRESENTED IN THE MUTCD.
  - WORK SHOULD NORMALLY BE DONE DURING OFF-PEAK HOURS.
  - VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE OBTURED BY EQUIPMENT OR STRUCTURES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
  - ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
- NOTES FOR TWO-LANE OPERATION:**
- WHERE PRACTICAL AND WHEN NEEDED, THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS. IF THIS CAN NOT BE DONE FREQUENTLY AS AN ALTERNATIVE, A "DO NOT PASS" SIGN MAY BE PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.
  - THE DISTANCE BETWEEN THE WORK AND SHADOW VEHICLES MAY VARY ACCORDING TO TERRAIN, PAINT DRYING TIME, AND OTHER FACTORS. SHADOW VEHICLES ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD, WHENEVER ADEQUATE DISTANCE CANNOT BE MAINTAINED. SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. THE SHADOW VEHICLE SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
  - ADDITIONAL SHADOW VEHICLES TO WARN AND REDUCE THE SPEED OF ONCOMING OR OPPOSING TRAFFIC MAY BE USED. POLICE PATROL CARS MAY BE USED FOR THIS PURPOSE.
  - A TRUCK-MOUNTED ATTENUATOR (TMA) SHOULD BE USED ON THE SHADOW VEHICLE AND MAY BE USED ON THE WORK VEHICLE.
  - THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS AND THE SHADOW VEHICLE SHALL BE EQUIPPED WITH BEACONS AND LIGHTS. TRUCK-MOUNTED LIGHTS MOUNTED ON THE REAR, ADJACENT TO THE SIGN, SHADOW AND WORK VEHICLES SHALL DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWARD AND TO THE REAR.
  - VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE OBTURED BY EQUIPMENT OR STRUCTURES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
  - ARROW BOARD TO BE USED IN CAUTION MODE.
  - ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.



STATE PROJECT NO.  
MISS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN		SHEET NUMBER TCP-110 G3500
DETAILS OF OUTSIDE LANE CLOSURE AT EXIT AND ENTRANCE RAMPS		
ISSUE DATE: MAY 01, 2017		SCALE
REVISION		



POSTED SPEED DESIGN SPEED M.P.H.	MAXIMUM CHANNELIZING DEVICE SPACING (FT)		TAPER <sup>†</sup> LONGITUDINAL BUFFER SPACE (FT)	TAPER <sup>†</sup> RATES
	ALONG LANE LINE & WORK ZONE	ALONG WORK ZONE		
40	40	80	305	274
45	45	90	362	454
50	50	100	425	501
55	55	110	495	551
60	60	120	570	601
65	65	130	645	651
70	70	140	730	701

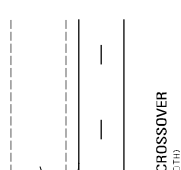
† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:  
 $L = W \times S$   
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET  
 W = WIDTH OF OFFSET USUALLY LANE WIDTH IN FEET  
 S = 65TH PERCENTILE SPEED IN MILES PER HOUR

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

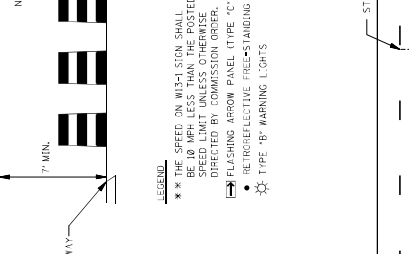
### GENERAL NOTES:

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

POSTED SPEED DESIGN SPEED M.P.H.	MAXIMUM CHANNELIZING DEVICE SPACING (FT)		TAPER <sup>†</sup> LONGITUDINAL BUFFER SPACE (FT)	TAPER <sup>†</sup> RATES
	ALONG LANE LINE & WORK ZONE	ALONG WORK ZONE		
40	40	80	305	274
45	45	90	362	454
50	50	100	425	501
55	55	110	495	551
60	60	120	570	601
65	65	130	645	651
70	70	140	730	701

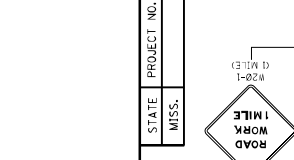


DETAIL OF TEMPORARY CROSSOVER  
 NOTE: R = 60. MEDIAN W/3710



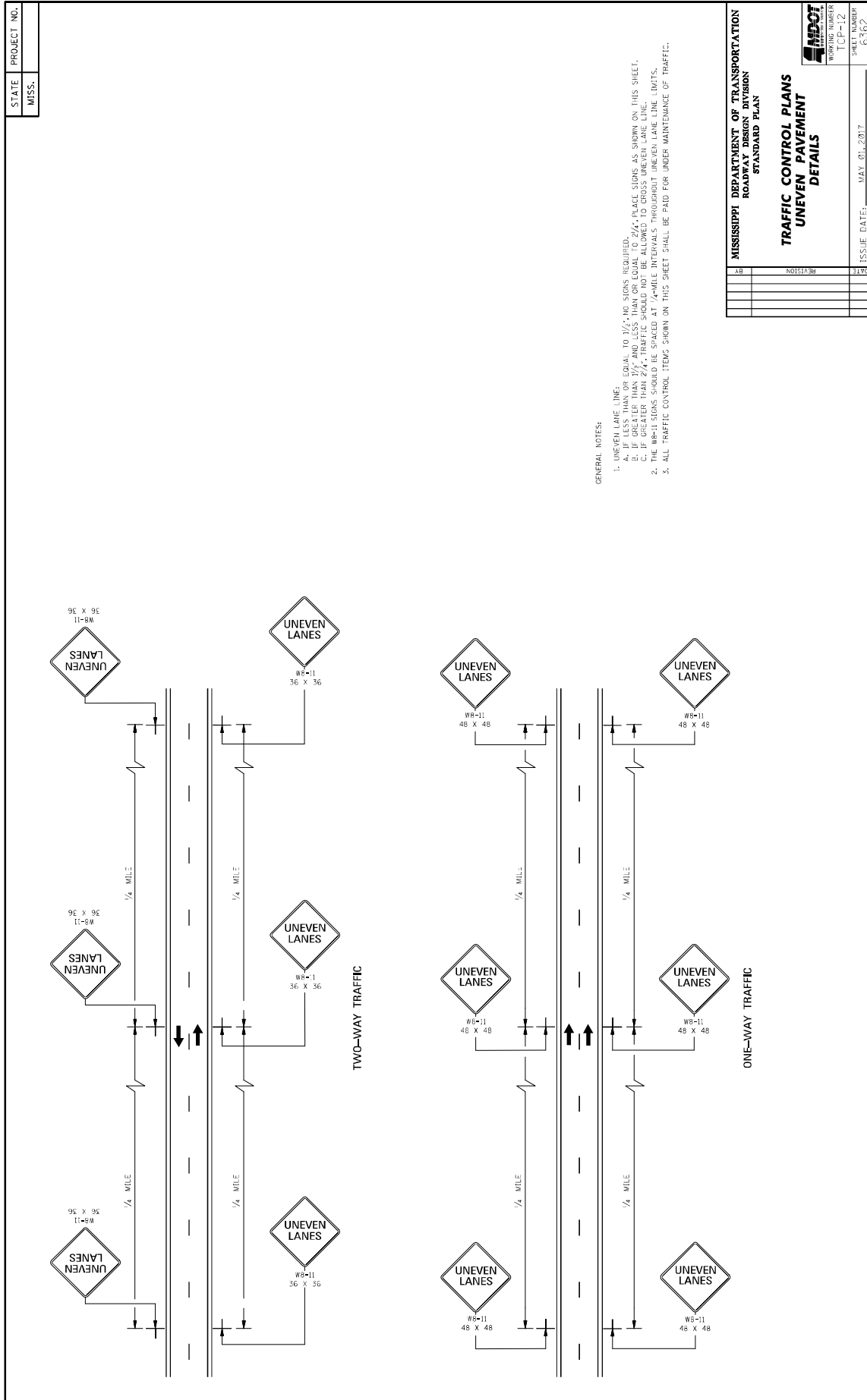
DETAIL OF TRUCKS TURNING LEFT  
 8" SERIES 'C' LETTERS

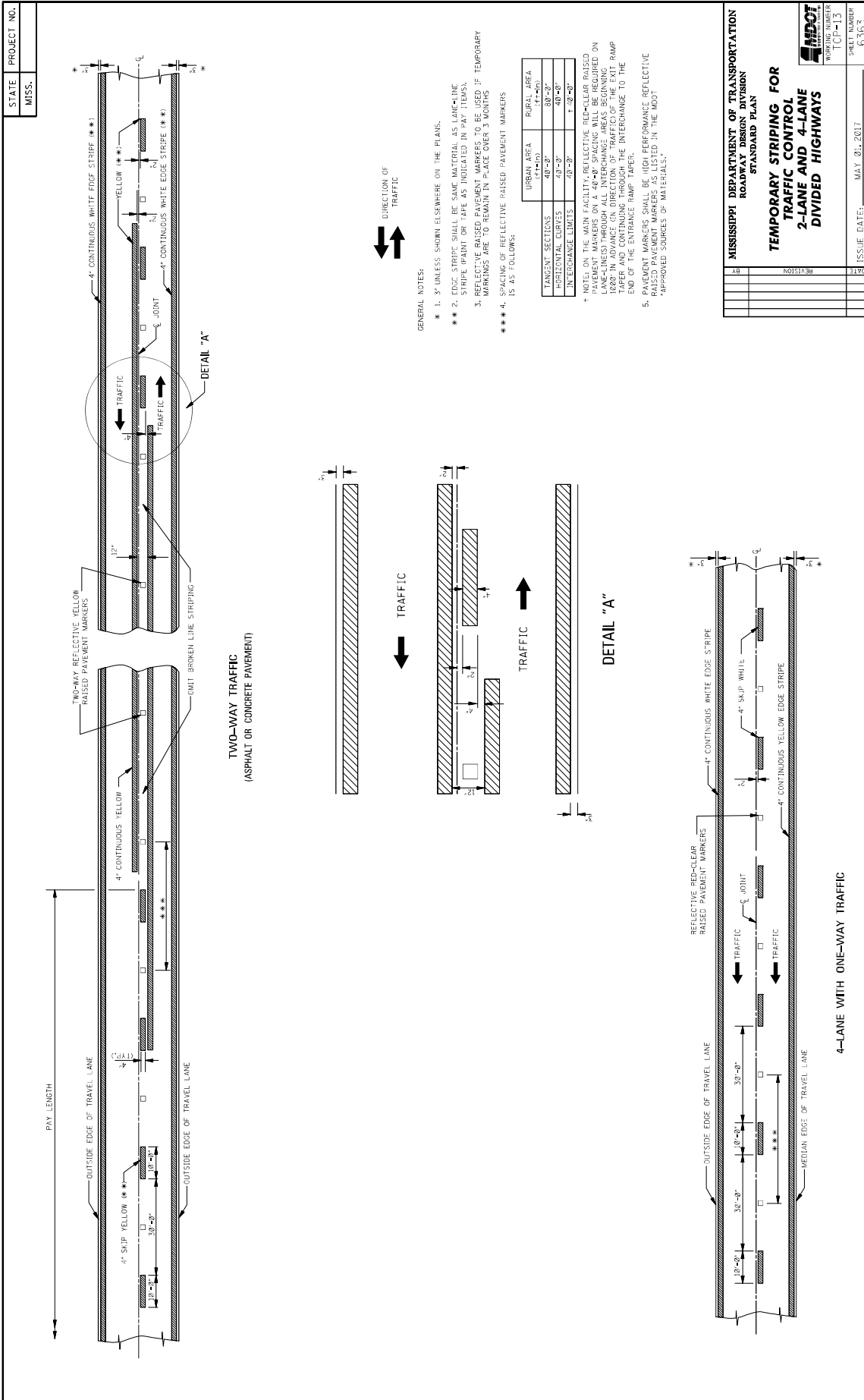
STATE PROJECT NO. MISS. \_\_\_\_\_  
 ROAD WORK 1 MILE (W20-1) (1/2 MILE)  
 LEFT LANE CLOSED 1/2 MILE (W20-5L)  
 LEFT LANE CLOSED 1500 FT (W20-5L) (1500 FT)  
 X X MPH (W13-1) (XX MPH)\*\*  
 LEFT LANE CLOSED 1/4 MILE (W20-5L) (1/2 MILE)  
 TRUCKS TURNING LEFT (W4-2L)  
 CHANNELIZING DEVICES (OFF NOTE 3 FOR TYPES REQUIRED)
 LONG BUFFER SPACE (W4-2L)  
 TAPER (L)  
 LONG BUFFER SPACE (L)  
 CHANNELIZING DEVICES (W4-2L)  
 ROAD WORK 1 MILE (W20-1) (1/2 MILE)  
 ROAD WORK 1 MILE (W20-1) (1/2 MILE)

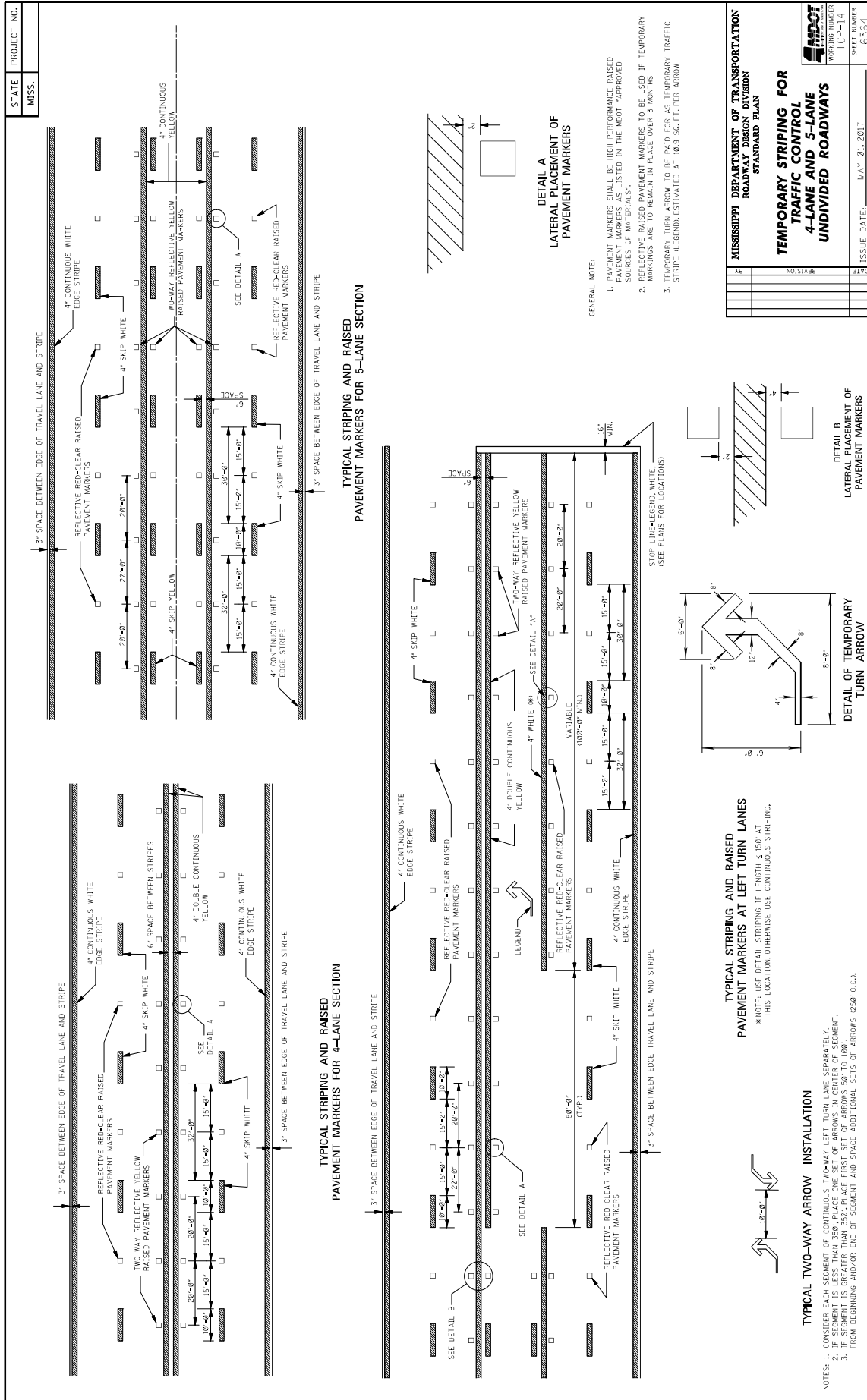


MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
 ROADWAY DESIGN DIVISION  
 STANDARD PLAN  
 TRAFFIC CONTROL PLAN  
 FOR TEMPORARY  
 CONSTRUCTION CROSSOVER  
 (WORK DAY ONLY)

WORKING NUMBER \_\_\_\_\_  
 SHEET NUMBER 6361  
 ISSUE DATE: MAY 01, 2017







STATE PROJECT NO.	MISS.
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**DIVIDED HIGHWAY SHOWN**  
(2 LANE - 2 WAY ROADWAY SIMILAR)  
(PROJECT MORE THAN 1 MILE LENGTH)

**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.

**INTERCHANGE DETAIL**

**48" x 60"**  
(INTERSTATE USE)

**36" x 48"**  
(ALL OTHER HIGHWAYS)

DIMENSIONS (INCHES)											
SIGN	A	B	C	D	E	F	G	H			
STD.	6-0	4-8	3/4	1 1/4	5	3 1/2	4	5 1/2	1	1 1/4	1 1/2
STD.	3	1-5/8	2-2/8	1	2	1 1/2	1 3/4	2 3/8	1/2		

DIMENSIONS (INCHES)											
SIGN	A	B	C	D	E	F	G	H			
STD.	3	4 1/4	1 1/4	2	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4
STD.	3	4 1/4	1 1/4	2	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4



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

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

**TYPICAL SHOULDER WORK #1**

(SEE NOTE A-I THIS SHEET)

**TYPICAL SHOULDER WORK #2**

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

**DETAIL OF DRUM PLACEMENT AT PAVEMENT EDGE DROP-OFF**

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

**NOTES:**

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

**B. DRUM SPACING**

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

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

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

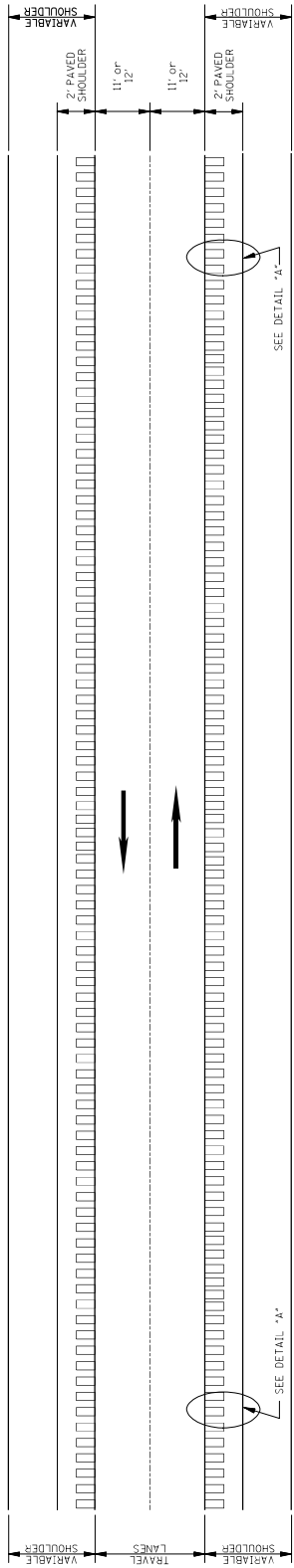
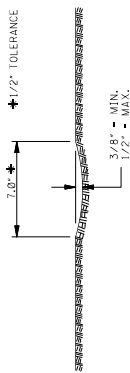
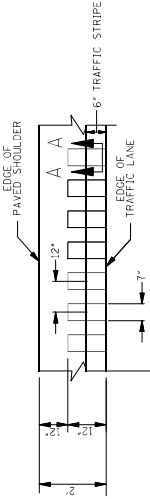
X X SPEED (MPH)	MINIMUM BUFFER SPACE (FEET)
25	35
30	45
35	55
40	65
45	75
50	85
55	95
60	105
65	115
70	125
75	135
80	145
85	155
90	165
95	175
100	185
105	195
110	205
115	215
120	225
125	235
130	245
135	255
140	265
145	275
150	285
155	295
160	305
165	315
170	325
175	335
180	345
185	355
190	365
195	375
200	385
205	395
210	405
215	415
220	425
225	435
230	445
235	455
240	465
245	475
250	485

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

<b>MISSISSIPPI DEPARTMENT OF TRANSPORTATION</b>	
<b>ROADWAY DESIGN DIVISION</b>	
<b>STANDARD PLAN</b>	
<b>TRAFFIC CONTROL DETAILS</b>	
<b>DRUM PLACEMENT</b>	
<b>SHOULDER CLOSURE</b>	
	WORKING NUMBER TCF-16 SHEET NUMBER 63-06
	ISSUE DATE: MAY 21, 2017

GENERAL NOTES

- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO LEFT SHOULDER OF ALL PAVED SHOULDERS ON THIS PROJECT.
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO RIGHT SHOULDER OF ALL PAVED SHOULDERS ON OTHER INTERSECTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
- COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS.
- 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.
- DO NOT USE WHERE TRAVEL LANE IS LESS THAN 11' WIDE.



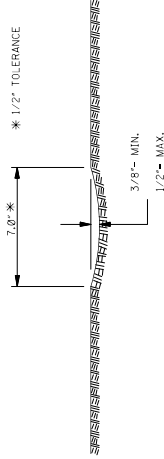
MISSISSIPPI DEPARTMENT OF TRANSPORTATION			RUMBLE STRIPES 2-LANE HIGHWAYS (ASPHALT LANES, 2-FT ASPHALT SHOULDERS)	ISSUE NUMBER	
ROADWAY DESIGN DIVISION				RS-1	
STANDARD PLAN		REVISION	DATE	ISSUE DATE: AUGUST 01, 2017	
AB	05R	REVISION STRIPE LOCATION			



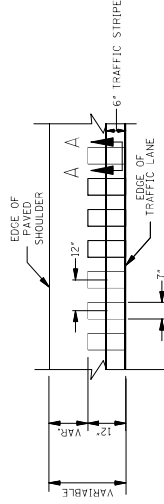
STATE	PROJECT NO.
MISS.	

GENERAL NOTES

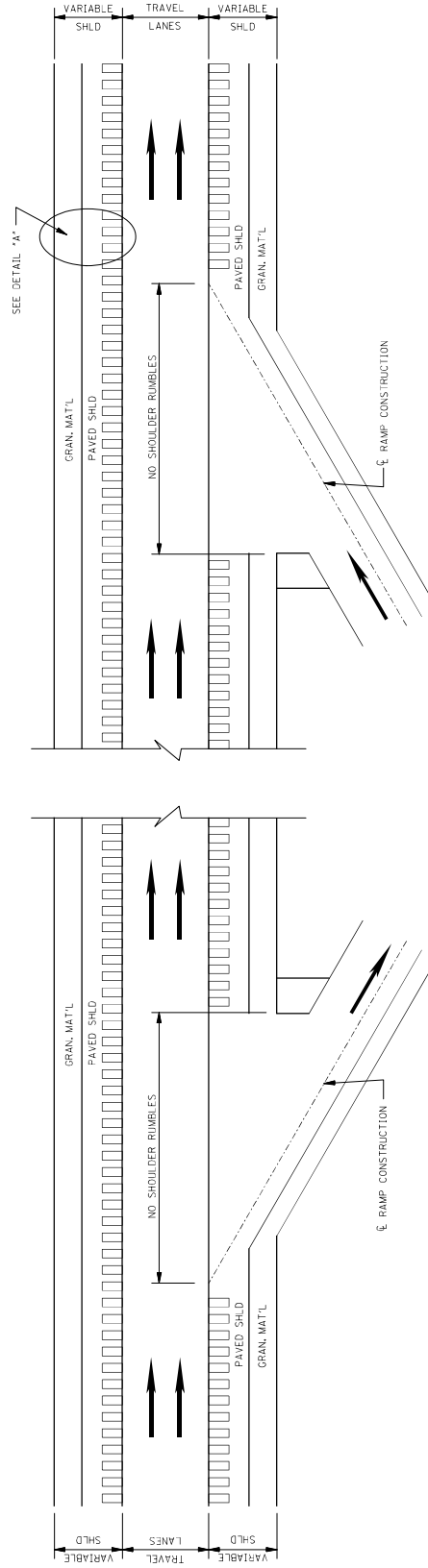
1. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS AND ALL PAVED SHOULDERS ON THIS PROJECT.
2. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL INTERSECTIONS, ROADWAYS, AND OTHER INTERRUPTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
3. COST TO BE PAID FOR USING APPROPRIATE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



SECTION "A-A"

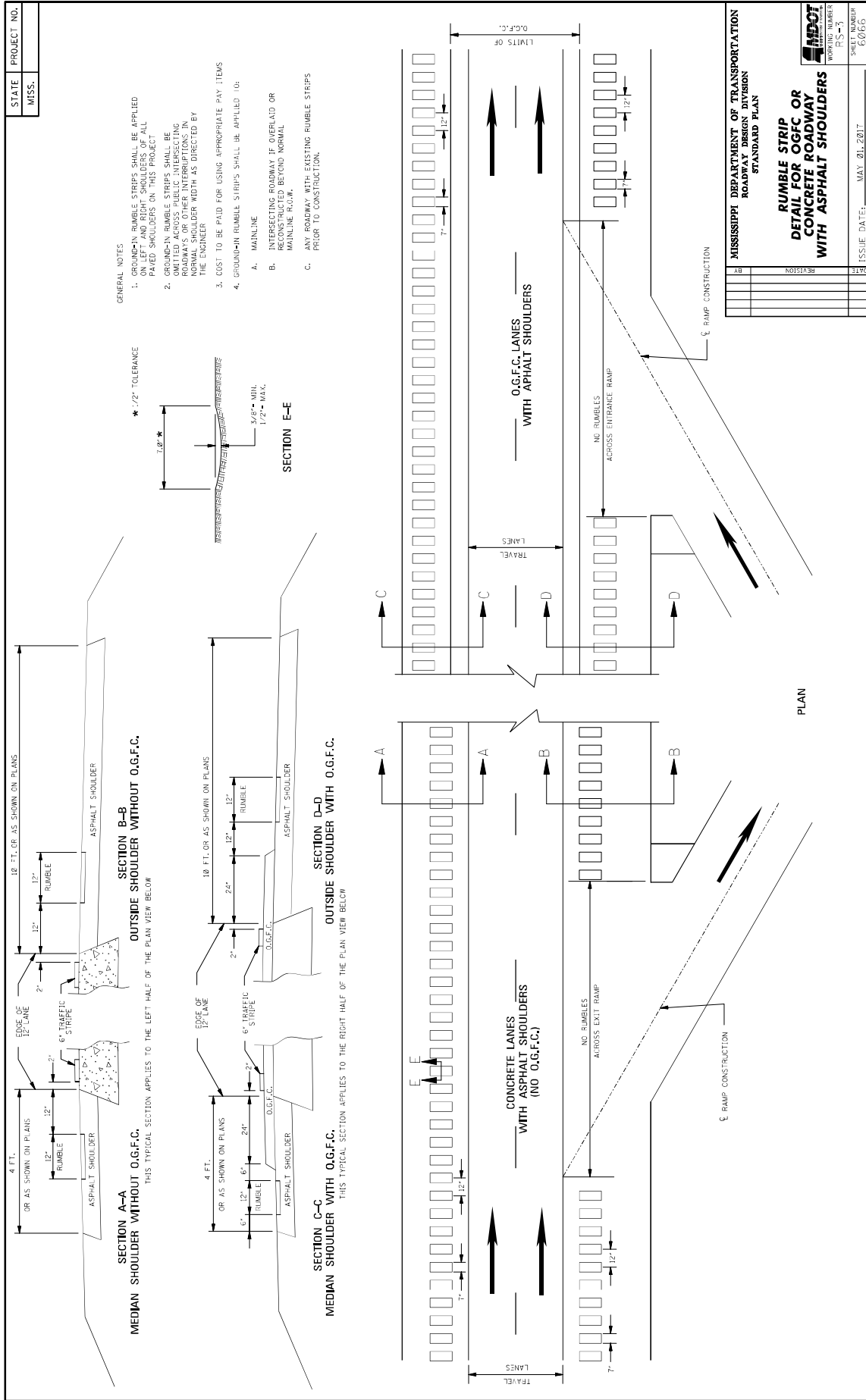


DETAIL "A"



PLAN NOT TO SCALE  
DETAILS OF RUMBLE STRIPS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>RUMBLE STRIPES 4-LANE HIGHWAYS (ASPHALT LANES, 2-FT OR WIDER ASPHALT SHOULDERS)</b>	
SECTION NUMBER	PS-2
PROJECT NUMBER	6065
DATE	ISSUE DATE: AUGUST 01, 2017
REVISION	
REVISED STRIPE LOCATION	



**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 - NOTICE TO BIDDERS NO. 3676**

**CODE: (SP)**

**DATE: 09/21/2021**

**SUBJECT: Asphalt Gyrotory Compactor Internal Angle Calibration**

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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 - NOTICE TO BIDDERS NO. 4197**

**CODE: (SP)**

**DATE: 04/11/2022**

**SUBJECT: Contract Time**

**PROJECT: MP-2051-49(005) & MP-2051-22(003) / 307510301 & 302 – Montgomery & Grenada Counties**

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 108.06. It is anticipated that the Notice of Award, will be issued no later than June 14, 2022 and the date for Notice to Proceed / Beginning of Contract Time will be July 14, 2022.

Should the Contractor request a Notice to Proceed earlier than July 14, 2022, and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed date. Regardless of whether or not an early Notice to Proceed is granted, contract time will start at the original Notice to Proceed date.

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

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

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**SECTION 904 - NOTICE TO BIDDERS NO. 4198**

**CODE: (SP)**

**DATE: 03/28/2022**

**SUBJECT: Scope of Work**

**PROJECT: MP-2051-49(005) & MP-2051-22(003) / 307510301 & 302 – Montgomery & Grenada Counties**

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”.

The work to be accomplished using the pay items and corresponding specifications set forth in this contract is for the milling and overlaying of US Highway 51 in Montgomery County beginning at Fisher’s Crossing (MP: 14.637) and going northerly approximately 5.3 miles to the Grenada County Line (MP: 19.934), and in Grenada County beginning at the Montgomery County Line (MP: 0.000) and going northerly approximately 3.4 miles to Glenwild (Beginning of 5-Lane) (MP: 3.375).

It shall be the responsibility of the Contractor to protect the roadway and all existing structures, such as bridges and curb, from damage occurring as a result of the Contractor’s operations. Damages to existing features caused by the Contractor’s operations shall be repaired or replaced at no cost to the Department.

At bridge ends and at the end of work day, a taper of one (1) vertical inch for each three (3) horizontal foot shall be provided.

The Contractor shall make a utility location request to 811 prior to any excavation, except for trench widening or pavement removal/repair.

In order to expedite the safe movement of traffic and to protect each phase of the work as it is performed, a firm sequence of operations is essential. The work shall be begun and continually prosecuted.

The work shall consist of the following:

1. Failed areas shall be repaired using the following:

- 202-B, Removal of Concrete Pavement w/Variable Depth Overlay – for pavement structure
- 203-G, Excess Excavation – for material below the pavement structure
- 403-A, 19-mm, ST Asphalt Pavement

NOTE: Failed areas are estimated as one foot (1’) of excavation and backfilled with one foot (1’) (maximum 3½” lifts) of 19-mm, ST asphalt. The asphalt shall be placed per the Project Engineer’s instructions. Saw cuts of pavement shall be required.

NOTE: Failed areas shall be backfilled the same day as excavation.

Montgomery County						
Station	Side		Width (ft)	Length (ft)	Area (SY)	19-mm Asphalt
	Rt.	Lt.				
366+00	x		14	15	66.9	43.6
366+65	x	x	28	35	283.1	184.7
367+20	x	x	28	6	192.9	125.9
368+12	x	x	28	6	192.9	125.9
372+45	x		14	35	98	63.9
377+10	x		14	35	98	63.9
392+05	x		14	35	98	63.9
392+70		x	14	10	59.1	38.6
392+75	x		14	40	105.8	69.0
399+65	x		14	15	66.9	43.6
413+85		x	14	15	66.9	43.6
419+80	x	x	28	20	236.4	154.3
420+35	x		14	15	66.9	43.6
426+60	x	x	28	40	298.7	194.9
464+80	x	x	28	30	267.6	174.6
468+10	x	x	28	15	220.9	144.1
471+70	x	x	28	25	252.0	164.4
506+65		x	14	15	66.9	43.6
511+90	x	x	28	25	252.0	164.4
520+90	x	x	28	10	205.3	134.0
585+00	x		14	6	52.9	34.5
590+50		x	14	40	105.8	69.0
591+50	x	x	28	50	329.8	215.2
602+30	x		14	6	52.9	34.5
633+00	x	x	28	50	329.8	215.2
641+60		x	14	70	152.4	99.5
641+80	x	x	28	20	236.4	154.3
Total Montgomery County					4,455.1	2,907.0
Grenada County						
Station	Side		Width (ft)	Length (ft)	Area (SY)	19-mm Asphalt
	Rt.	Lt.				
5+00	x		14	500	821.3	535.9
35+00	x		14	50	121.3	79.2
50+30	x		14	30	90.2	58.9
50+60		x	14	25	82.4	53.8
58+70	x		14	50	121.3	79.2



74+60		x	14	60	136.9	89.3
80+00	x	x	28	6	192.9	125.9
89+30	x		14	6	52.9	34.5
89+75	x		14	25	82.4	53.8
92+50		x	14	6	52.9	34.5
110+00	x	x	28	50	329.8	215.2
143+00	x	x	28	6	192.9	125.9
173+25	x	x	28	6	192.9	125.9
179+00	x	x	28	6	192.9	125.9
183+25	x		14	6	52.9	34.5
Total Grenada County					2,716.0	1,772.2
Total					7,171.1	4,679.2

- The existing asphalt pavement shall be fine milled to a depth of one and one half inches (1½”). Milling operations shall be on the mainline, local roads and driveway pads. Fifty (50%) percent of the milling material, up to 7,125 tons, obtained shall become the property of the Department. The Contractor shall deliver the milling material to Grenada County Maintenance Shop located at 1233 Air Industrial Park Road in Grenada. The Contractor shall provide all necessary equipment and qualified personnel to push material into a suitable stockpile.

Area	Montgomery	Grenada	Total
Mainline	93,055	59,495	152,550
Local Roads	4,600	14,800	19,400
Pads	6,150	3,960	10,110
Total	103,805	78,255	182,060

Payment for fine milling of pavement will be made under pay item 406-D, per square yard, and shall include all cost associated with the milling operation.

NOTE: Milled surfaces are to be covered with asphalt within seven (7) calendar days of removal. The Contractor will be charged a fee of \$5,000.00 for each full or partial day in which the milled surface is left uncovered after the seven (7) calendar days.

NOTE: During this operation and prior to placement of the asphalt, due care shall be required to keep surface water from ponding on the roadway surface; continuous monitoring of the project may be required.

NOTE: During this operation and prior to placement of the asphalt, the Contractor shall repair and maintain all pot holes.

- The Contractor shall place ¾” and variable of 9.5-mm, ST, Leveling asphalt on the previous milled surface for the leveling of the mainline to correct cross slopes. A quantity of 50 tons/lane mile has been set up for this work.

9.5-mm, ST, Leveling		
	Lane Miles	Tons
Montgomery	10.6	530
Grenada	6.8	340
Total	17.4	870

- The Contractor shall place 1½” of 9.5-mm, ST asphalt on the previous leveled surface.

Area	Montgomery	Grenada	Total
Mainline	7,700	4,925	12,625
Local Roads	375	1,225	1,600
Pads	525	325	850
Total	8,600	6,475	15,075

NOTE: Contractor shall saw and seal the transverse joint on the mainline surface course.

Saw and Seal Transverse Joint	
	Length (feet)
Montgomery	39,200
Grenada	25,200
Total	64,400

- Granular material shall be placed on the shoulders as directed to raise the existing shoulders to the new surface course grade.

NOTE: Shoulders shall be bladed, shaped and compacted throughout the length of the project regardless of whether granular material is required.

NOTE: Granular material not required for the final shape of the shoulders may require removal under the pay item for excess excavation and may include small amounts of asphalt.

NOTE: Due care shall be taken during this operation to blade material to the roadway and away from the ditch line. Material inadvertently bladed to the roadway vegetation shall be removed at no cost to the Department.

- Temporary traffic stripe shall be placed daily as per Section 618 of the Standard Specifications.
- Rumble strips shall be installed for rumble stripe on the outside of edge of the roadway. The rumble strips will be omitted through the Duck Hill City Limits (From Devaida Drive to MS Highway 404 (Approximately 1 mile).
- Permanent pavement markings (double drop thermoplastic striping, two-way clear reflective high performance raised markers and two-way yellow reflective high performance raised markers) shall be placed as required. A 6-inch thermoplastic stripe shall be placed on the inside

six inches (6”) of the rumble stripe using an atomization method to create a “rumble strip.” There is 994 linear feet of bridge decks.

9. Existing signs and post shall be removed and permanent signs and post installed. A list of signs and locations are attached. Existing signs will become the property of the Department. Signs shall be delivered to the Grenada County Maintenance Shop located at 1233 Air Industrial Park Road in Grenada. All signs and hardware shall be removed from post prior to delivery. All hardware and footings required for the erection of new signs and post shall be absorbed in other items of work.

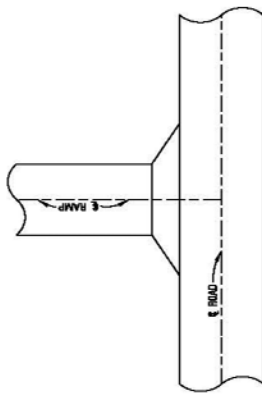
The cost of removal of signs and u-channel posts shall be absorbed in the cost of other items bid.

The Contractor shall provide all signs and traffic handling devices necessary to safely maintain traffic around or through the work areas.

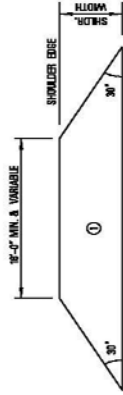
Incidental work such as removing vegetation, shaping and compaction of shoulder, necessary and incidental grading of roadway ditches and other incidental work that is necessary to complete the work will not be measured for separate payment and the cost will be included in the bid items provided.

The Engineer may direct the use of additional cones at County roads or intersections within lane closures and will be absorbed in pay item 618-A: Maintenance of Traffic.

STATE	PROJECT NO.
MISS.	



PLAN VIEW OF RAMP



DETAIL OF PAVED APRON

① 1'-0" & VARIABLE DEPTH ASPHALT PAVEMENT REQUIRED



MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
<b>MISCELLANEOUS DETAIL</b>	
WORKING NUMBER	MISS-1
SHEET NUMBER	
DATE	
REVISION	
FILE NAME	MDOT
DATE	

**STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.080" THICKNESS**

STATION	SIDE	CODE	DESCRIPTION	THICKNESS	SF
411+33	RT		(SPEED ZONE AHEAD)	0.080"	5
420+48	LT	R2-1	Speed Limit (55)	0.080"	5
420+48	RT	R2-1	Speed Limit (45)	0.080"	5
423+09	LT		BUCKLE UP	0.080"	5
423+09	LT		\$250 Fine for Throwing Trash	0.080"	3
427+62	LT	R2-1	Speed Limit (45)	0.080"	5
427+84	RT	R2-1	Speed Limit (35)	0.080"	5
430+28	RT	M2-1	Junction	0.080"	2.1875
430+28	RT	M1-5	MS Route Marker (404)	0.080"	4
430+28	RT	M3-2	East	0.080"	2
430+28	RT		Weight Limit 57650 lbs.	0.080"	5
435+57	RT	R2-1	Speed Limit (35)	0.080"	5
435+79	LT	R2-1	Speed Limit (35)	0.080"	5
437+80	LT	M3-3	South	0.080"	2
437+80	LT	M1-4	U.S. Route Marker (51)	0.080"	5
437+85	RT	M1-4	U.S. Route Marker (51)	0.080"	5
437+85	RT	M1-5	MS Route Marker (404)	0.080"	4
437+85	RT	M6-3	Up Dir. Arrow	0.080"	2.1875
438+86	RT	R1-2	Yield	0.080"	4.5
439+06	RT	R4-7	Keep Right (Symbol)	0.080"	5
439+17	LT	M1-5	MS Route Marker (404)	0.080"	4
439+17	LT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875
439+17	LT	M1-4	U.S. Route Marker (51)	0.080"	5
439+17	LT	M6-3	Up Dir. Arrow	0.080"	2.1875
439+48	RT	M1-4	U.S. Route Marker (51)	0.080"	5
439+48	RT	M6-4	Double Dir. Arrow	0.080"	2.1875
439+48	RT	M1-5	MS Route Marker (404)	0.080"	4
439+48	RT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875
439+72	RT	R1-2	Yield	0.080"	4.5
441+50	RT	M3-1	North	0.080"	5
441+50	RT	M1-4	U.S. Route Marker (51)	0.080"	5
442+49	LT	M3-2	East	0.080"	2
442+49	LT	M1-5	MS Route Marker (404)	0.080"	4
442+49	LT	M5-1R	Adv. Right Dir. Arrow	0.080"	2.1875
442+49	LT		Weight Limit 57650 lbs.	0.080"	5
449+55	RT	R2-1	Speed Limit (35)	0.080"	5
454+22	RT	M3-1	North	0.080"	5
454+22	RT	M1-4	U.S. Route Marker (51)	0.080"	5
456+40	LT	R2-1	Speed Limit (35)	0.080"	5
460+88	LT	R2-1	Speed Limit (35)	0.080"	5
460+88	RT	R2-1	Speed Limit (45)	0.080"	5
470+00	RT	R2-1	Speed Limit (55)	0.080"	5
470+05	LT	R2-1	Speed Limit (45)	0.080"	5
476+29	LT		(SPEED ZONE AHEAD)	0.080"	5
476+81	LT	M3-3	South	0.080"	2

**STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.080" THICKNESS**

476+81	LT	M1-4	U.S. Route Marker (51)	0.080"	5	
480+14	LT	R1-2	Yield	0.080"	4.5	
480+53	RT	M4-5	To	0.080"	2	
480+53	RT	M1-1	Interstate Route Marker (55)	0.080"	5	
480+53	RT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875	
480+53	RT	M1-5	MS Route Marker (404)	0.080"	4	
480+53	RT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875	
480+53	RT	M1-4	U.S. Route Marker (51)	0.080"	5	
480+53	RT	M6-3	Up Dir. Arrow	0.080"	2.1875	
480+89	LT	M1-5	MS Route Marker (404)	0.080"	4	
480+89	LT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875	
480+89	LT	M3-1	North	0.080"	5	
480+89	LT	M3-3	South	0.080"	2	
480+89	LT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875	
480+89	LT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875	
480+89	LT	M1-4	U.S. Route Marker (51)	0.080"	5	
480+89	LT	M1-4	U.S. Route Marker (51)	0.080"	5	
481+66	LT	M1-5	MS Route Marker (404)	0.080"	4	
481+66	LT	M6-6R	Up and Right Dir. Arrow	0.080"	2.1875	
481+66	LT	M4-5	To	0.080"	2	
481+66	LT	M1-1	Interstate Route Marker (55)	0.080"	5	
481+66	LT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875	
481+66	LT	R1-2	Yield	0.080"	4.5	
481+66	LT	M3-4	West	0.080"	2	
481+66	LT	M1-5	MS Route Marker (404)	0.080"	4	
483+60	RT	M3-1	North	0.080"	5	
483+60	RT	M1-4	U.S. Route Marker	0.080"	5	Montgomery 280.8125
GEORGIA PACIFIC	RT	R1-2	Yield	0.080"	4.5	
GEORGIA PACIFIC	RT	R1-2	Yield	0.080"	4.5	
25+14	LT	R2-1	Speed Limit (55)	0.080"	5	
24+71	RT	R2-1	Speed Limit (50)	0.080"	5	
SKATING RINK CIR A	RT	R5-2	No Trucks	0.080"	4	
SKATING RINK CIR B	RT	R5-2	No Trucks	0.080"	4	
53+52	LT	R2-1	Speed Limit (50)	0.080"	5	
57+99	LT	M3-3	South	0.080"	2	
57+99	LT	M1-4	U.S. Route Marker	0.080"	5	
57+99	RT	M4-5	To	0.080"	2	
57+99	RT	M1-1	Interstate Route Marker	0.080"	5	
57+99	RT	M5-1L	Adv. Left Dir. Arrow	0.080"	2.1875	
NAT G TROUT RD	RT	R1-2	Yield	0.080"	4.5	
NAT G TROUT RD	RT	W4-4P	Cross Traffic Does Not Stop	0.080"	4.5	
NAT G TROUT RD	LT	W4-4P	Cross Traffic Does Not Stop	0.080"	4.5	
NAT G TROUT RD	LT	R1-2	Yield	0.080"	4.5	
NAT G TROUT RD	RT	R1-2	Yield	0.080"	4.5	
NAT G TROUT RD	LT	M3-1	North	0.080"	5	
NAT G TROUT RD	LT	M1-4	U.S. Route Marker (51)	0.080"	5	

**STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.080" THICKNESS**

NAT G TROUT RD	LT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875	
NAT G TROUT RD	LT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875	
NAT G TROUT RD	LT	M1-4	U.S. Route Marker (51)	0.080"	5	
NAT G TROUT RD	LT	M3-3	South	0.080"	2	
66+16	LT	M4-5	To	0.080"	2	
66+16	LT	M1-1	Interstate Route Marker	0.080"	5	
66+16	LT	M6-1	Left or Right Dir. Arrow	0.080"	2.1875	
73+00	RT	M3-1	North	0.080"	5	
73+00	RT	M1-4	U.S. Route Marker (51)	0.080"	5	
COUNTRY RIDGE	LT		(SLOW CHILDREN AT PLAY)	0.080"	2.1875	
82+47	LT	R2-1	Speed Limit (50)	0.080"	5	
96+64	LT	R2-1	Speed Limit (50)	0.080"	5	
113+73	LT	R2-1	Speed Limit (50)	0.080"	5	Grenada
113+73	RT	R2-1	Speed Limit (55)	0.080"	5	133.4375
					414.25	Total

**STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.1" THICKNESS**

STATION	SIDE	CODE	DESCRIPTION	THICKNESS	SF	
368+86	RT	R1-1	Stop	0.1"	7.46	
429+43	LT	R1-1	Stop	0.1"	7.46	
429+52	RT	R1-1	Stop	0.1"	7.46	
438+10	LT	R1-1	Stop	0.1"	7.46	
438+86	RT	R5-1	Do Not Enter	0.1"	9	
439+42	RT	R1-1	Stop	0.1"	7.46	
439+72	RT	R5-1	Do Not Enter	0.1"	9	
446+08	LT	R1-1	Stop	0.1"	7.46	
447+35	RT	R1-1	Stop	0.1"	7.46	
452+03	LT	R1-1	Stop	0.1"	7.46	
452+54	LT	R1-1	Stop	0.1"	7.46	
480+14	LT	R5-1	Do Not Enter	0.1"	9	
480+53	LT	R5-1	Do Not Enter	0.1"	9	
480+89	LT	R1-1	Stop	0.1"	7.46	
481+47	LT	R5-1	Do Not Enter	0.1"	9	
481+66	LT	R5-1	Do Not Enter	0.1"	9	
530+11	LT	R1-1	Stop	0.1"	7.46	
RILEY	RT	R1-1	Stop	0.1"	7.46	Montgomery
BRANSCOME	LT	R1-1	Stop	0.1"	7.46	150.98
GEORGIA PACIFIC	RT	R5-1	Do Not Enter	0.1"	9	
GEORGIA PACIFIC	RT	R1-1	Stop	0.1"	7.46	
GEORGIA PACIFIC	RT	R5-1	Do Not Enter	0.1"	9	
BOLTON HILL	LT	R1-1	Stop	0.1"	7.46	
SKATING RINK CIR A	RT	R1-1	Stop	0.1"	7.46	
SKATING RINK CIR B	RT	R1-1	Stop	0.1"	7.46	
FARMINGTON	LT	R1-1	Stop	0.1"	7.46	
59+66	LT	R5-1	Do Not Enter	0.1"	9	
NAT G TROUT RD	RT	R5-1	Do Not Enter	0.1"	9	
NAT G TROUT RD	RT	R1-1	Stop	0.1"	7.46	
NAT G TROUT RD	LT	R1-1	Stop	0.1"	7.46	
NAT G TROUT RD	LT	R5-1	Do Not Enter	0.1"	9	
NAT G TROUT RD	RT	R5-1	Do Not Enter	0.1"	9	
COUNTRY RIDGE	LT	R1-1	Stop	0.1"	7.46	
MURFF	RT	R1-1	Stop	0.1"	7.46	Grenada
BARNSIDE	LT	R1-1	Stop	0.1"	7.46	128.6
					279.58	Total



**STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.125" THICKNESS**

STATION	SIDE	CODE	DESCRIPTION	THICKNESS	SF	
370+74	RT	W1-2L	Left Curve	0.125	6.25	
377+06	LT	W2-2	Side Road	0.125	9	
399+28	LT	W1-2L	Left Curve	0.125	6.25	
429+30	RT	W10-1	Hwy-Rail Grade Crossing	0.125	7.068	
437+85	RT	M5-2R	Adv. Angle Right Dir. Arrow	0.125	9	
438+90	RT	W10-1	Hwy-Rail Grade Crossing	0.125	7.068	
447+02	RT	W10-1	Hwy-Rail Grade Crossing	0.125	7.068	
472+56	RT	W2-2	Side Road	0.125	9	
473+73	RT	W11-8	Emergency Vehicle	0.125	9	
479+24	LT	W11-8	Emergency Vehicle	0.125	9	
481+00	RT	W1-7	Two Direction Large Arrow	0.125	8	
484+65	RT	W8-13	Bridge Ices Before Road	0.125	9	
503+69	LT	W8-13	Bridge Ices Before Road	0.125	9	
524+30	RT	W2-2	Side Road	0.125	9	
544+43	RT	W8-13	Bridge Ices Before Road	0.125	9	
560+63	LT	W8-13	Bridge Ices Before Road	0.125	9	
566+75	RT	W2-1	Crossroad	0.125	9	
588+06	LT	W2-1	Crossroad	0.125	9	
603+86	RT	W8-13	Bridge Ices Before Road	0.125	9	
620+19	LT	W8-13	Bridge Ices Before Road	0.125	9	
641+58	RT		Trucks Turning	0.125	9	Montgomery
641+58	RT		(WATCH FOR LONG LOGS)	0.125	10	186.704
10+84	LT		Trucks Turning	0.125	9	
10+84	LT		(WATCH FOR LONG LOGS)	0.125	10	
17+71	RT	W3-5	Speed Reduction (50)	0.125	9	
16+74	RT		Trucks Turning	0.125	9	
16+13	RT	W2-2	Side Road	0.125	9	
24+61	RT	S3-1	School Bus Stop Ahead	0.125	9	
34+66	LT		Trucks Turning	0.125	9	
39+56	LT	W2-2	Side Road	0.125	9	
52+38	RT		Trucks Turning	0.125	9	
52+38	RT		(WATCH FOR LONG LOGS)	0.125	10	
56+99	LT	S3-1	School Bus Stop Ahead	0.125	9	
69+66	LT		Trucks Turning	0.125	9	
69+66	LT		(WATCH FOR LONG LOGS)	0.125	10	
70+00	RT	W8-13	Bridge Ices Before Road	0.125	9	
80+83	LT	W8-13	Bridge Ices Before Road	0.125	9	
105+01	RT	W8-13	Bridge Ices Before Road	0.125	9	
117+40	LT	W8-13	Bridge Ices Before Road	0.125	9	
121+77	LT	W3-5	Speed Reduction (50)	0.125	9	
129+55	RT	W10-3	Hwy-Rail Grade Crossing (Side	0.125	9	
133+33	RT		Trucks Turning	0.125	9	
138+44	RT	W8-13	Bridge Ices Before Road	0.125	9	
149+87	LT	W10-3	Hwy-Rail Grade Crossing (Side	0.125	9	Grenada
157+57	LT	W8-13	Bridge Ices Before Road	0.125	9	210
					396.7	Total

**TYPE 3 OBJECT MARKERS, OM-3R OR OM-3L**

STATION	SIDE	CODE	DESCRIPTION	EA
378+12	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
378+12	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
378+36	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
378+36	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
413+91	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
413+91	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
414+03	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
414+03	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
426+64	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
426+79	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
426+85	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
427+00	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
453+48	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
453+48	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
453+78	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
453+78	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
490+00	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
490+00	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
496+63	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
496+63	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
521+73	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
521+73	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
521+80	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
521+80	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
551+00	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
551+00	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
553+81	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
553+81	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
602+45	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
602+45	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
613+50	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
613+50	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
610+59	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
610+59	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
646+95	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
646+95	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
646+95	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
646+95	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
20+04	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
20+04	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
19+92	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
19+92	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
28+96	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1
28+96	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1
28+96	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1

Montgomery  
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**TYPE 3 OBJECT MARKERS, OM-3R OR OM-3L**

28+96	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
36+25	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
36+45	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
36+67	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
76+70	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
76+70	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
77+30	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
77+30	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
98+35	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
98+35	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
98+46	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
98+46	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
109+12	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
109+12	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
109+42	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
109+42	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
127+73	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
127+73	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
127+86	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
127+86	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
147+41	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
147+41	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
148+01	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
148+01	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
157+82	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
157+83	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
157+82	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
157+82	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
164+25	LT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	
164+25	LT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	
164+25	RT	OM-3R	Type 3 Object Marker (Right of Roadway)	1	Grenada
164+25	RT	OM-3L	Type 3 Object Marker (Left of Roadway)	1	39
				77	Total

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

**CODE: (IS)**

**DATE: 11/22/2017**

**SUBJECT: Bidding Requirements and Conditions**

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

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

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

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

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

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-103-2

CODE: (SP)

DATE: 06/22/2017

SUBJECT: Award and Execution of Contract

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

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

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

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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION NO. 907-105-1**

**CODE: (SP)**

**DATE: 05/07/2021**

**SUBJECT: Authority of the Engineer**

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

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

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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION NO. 907-108-4**

**CODE: (SP)**

**DATE: 10/07/2020**

**SUBJECT: Subletting of Contract**

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

**907-108.01--Subletting of Contract.**

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

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-109-3

CODE: (IS)

DATE: 02/23/2021

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.



# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

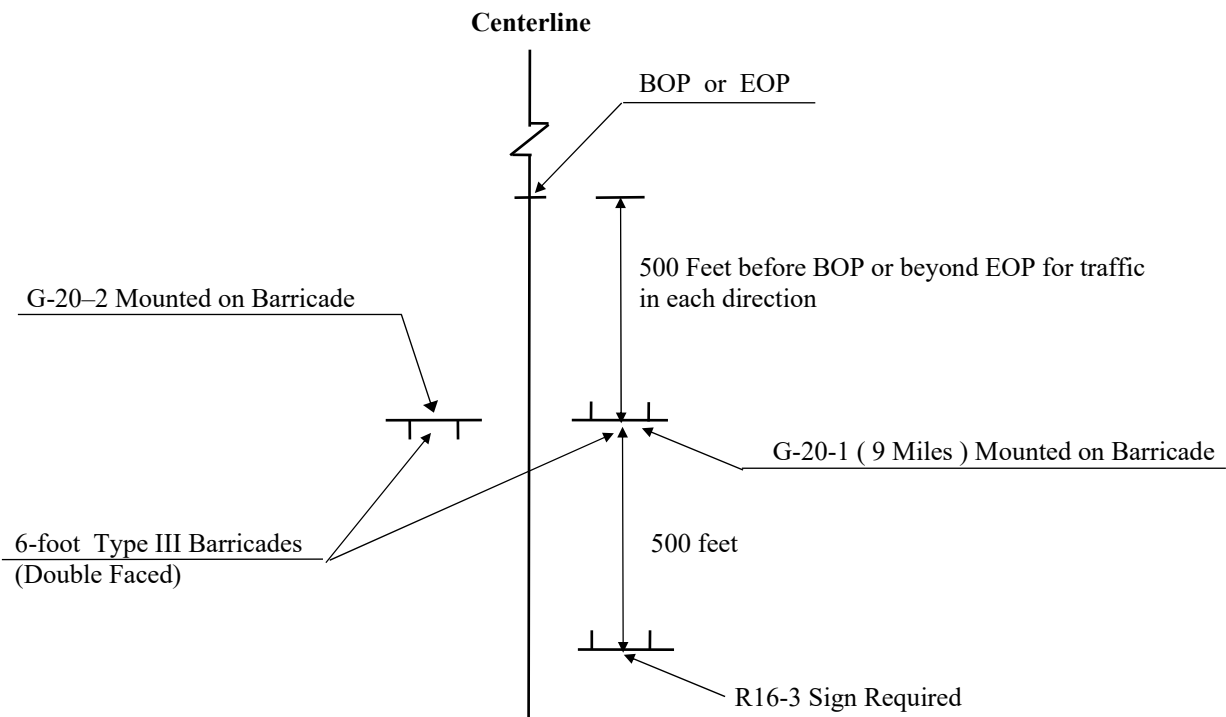
## SUPPLEMENT TO SPECIAL PROVISION NO. 907-618-4

**DATE:** 03/28/2022

**PROJECT:** MP-2051-49(005) & MP-2051-22(003) / 307510301 & 302 – Montgomery & Grenada Counties

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

Additional traffic control devices will be required as follows.



### ADDITIONAL TRAFFIC CONTROL SIGNS REQUIRED:

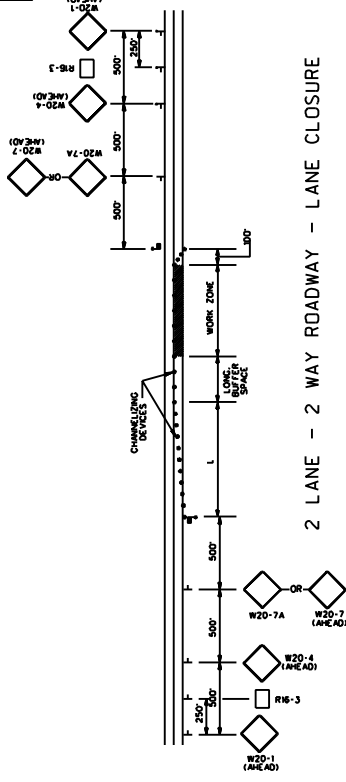
- 22 - W20-1 "AHEAD" signs required. One (1) W20-1 "AHEAD" sign is required at each local road or street entering the project.
- 30 - R4-1 "DO NOT PASS" signs required.
- 14 - R4-2 "PASS WITH CARE" signs required.
- 16 - W14-3 "NO PASSING ZONE" signs required.
- 10 - R16-3 "SPEEDING FINES DOUBLED" signs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

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

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

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

STATE PROJECT NO.  
MISS.

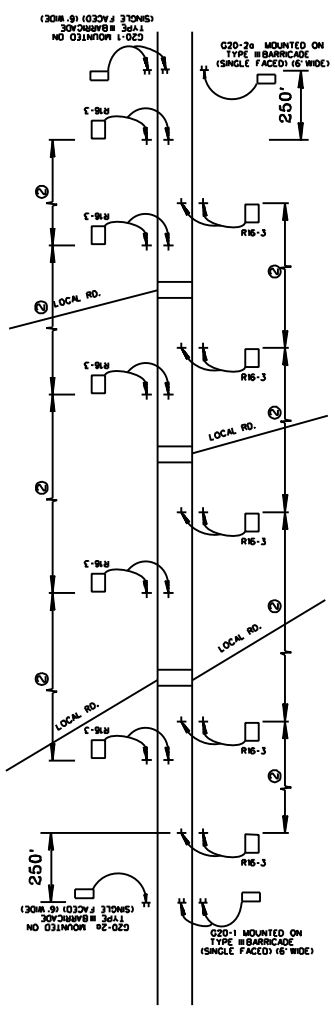


2 LANE - 2 WAY ROADWAY - LANE CLOSURE

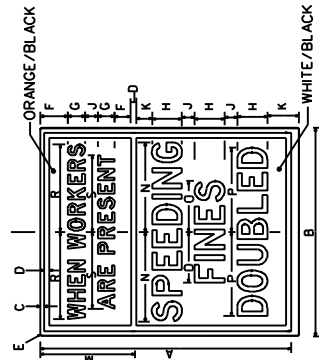
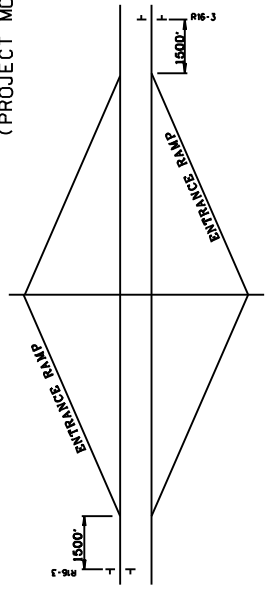
DIVIDED HIGHWAY  
(PROJECTS LESS THAN 1 MILE LENGTH)

NOTES

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



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



SIZE	A	B	C	D	E	F	G	H
STL 60	48	36	1 1/4	3/4	3/4	1 1/4	1 1/4	7 D
STL 72	48	36	1 1/4	3/4	3/4	1 1/4	1 1/4	7 D
STL 84	48	36	1 1/4	3/4	3/4	1 1/4	1 1/4	7 D

SIZE	A	B	C	D	E	F	G	H
STL 48	36	24	3/4	3/4	3/4	1 1/4	1 1/4	5 D
STL 60	36	24	3/4	3/4	3/4	1 1/4	1 1/4	5 D
STL 72	36	24	3/4	3/4	3/4	1 1/4	1 1/4	5 D

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

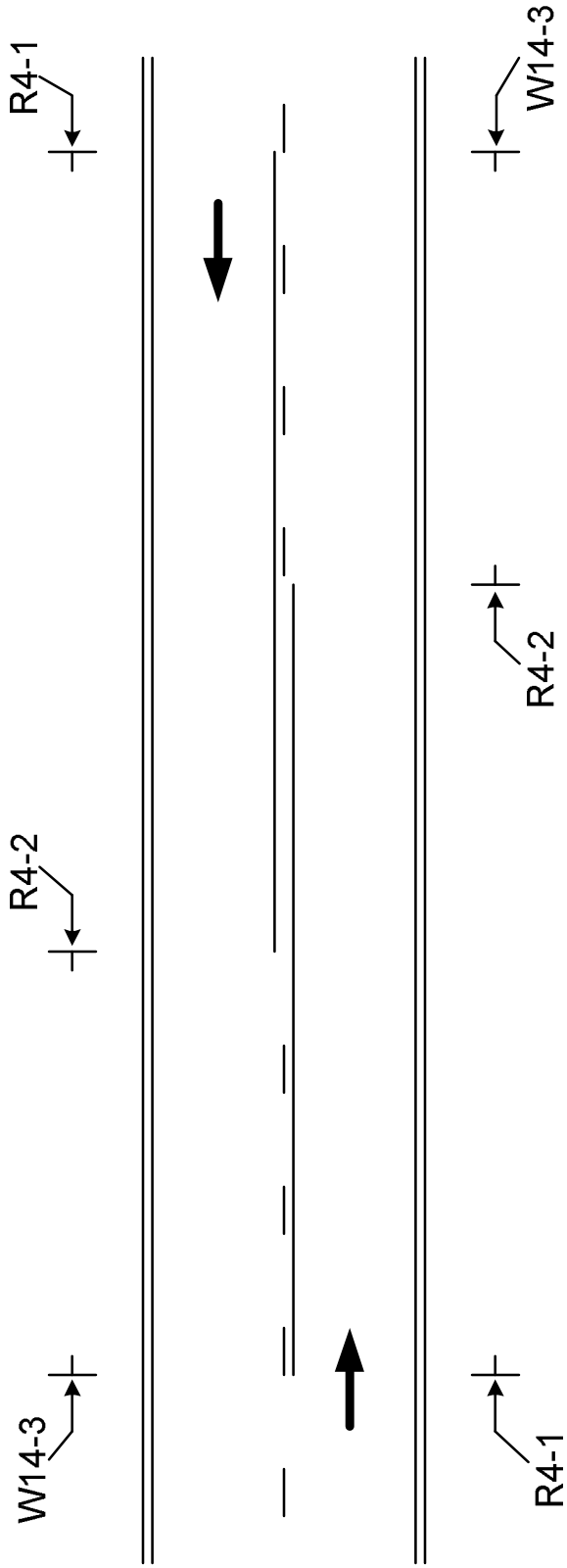
LOCATION OF R16-3 SIGNS

WORKING NUMBER

SHEET NUMBER

FILE NAME: SPEED\_SIGN\_DETAIL.DWG

DATE: 02/08/09



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

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

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

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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

**CODE: (SP)**

**DATE: 02/01/2018**

**SUBJECT: Additional Signing Requirements**

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

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

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

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-619-6

CODE: (SP)

DATE: 03/21/2018

SUBJECT: Temporary Portable Rumble Strips

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

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

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

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

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

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

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

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

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

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

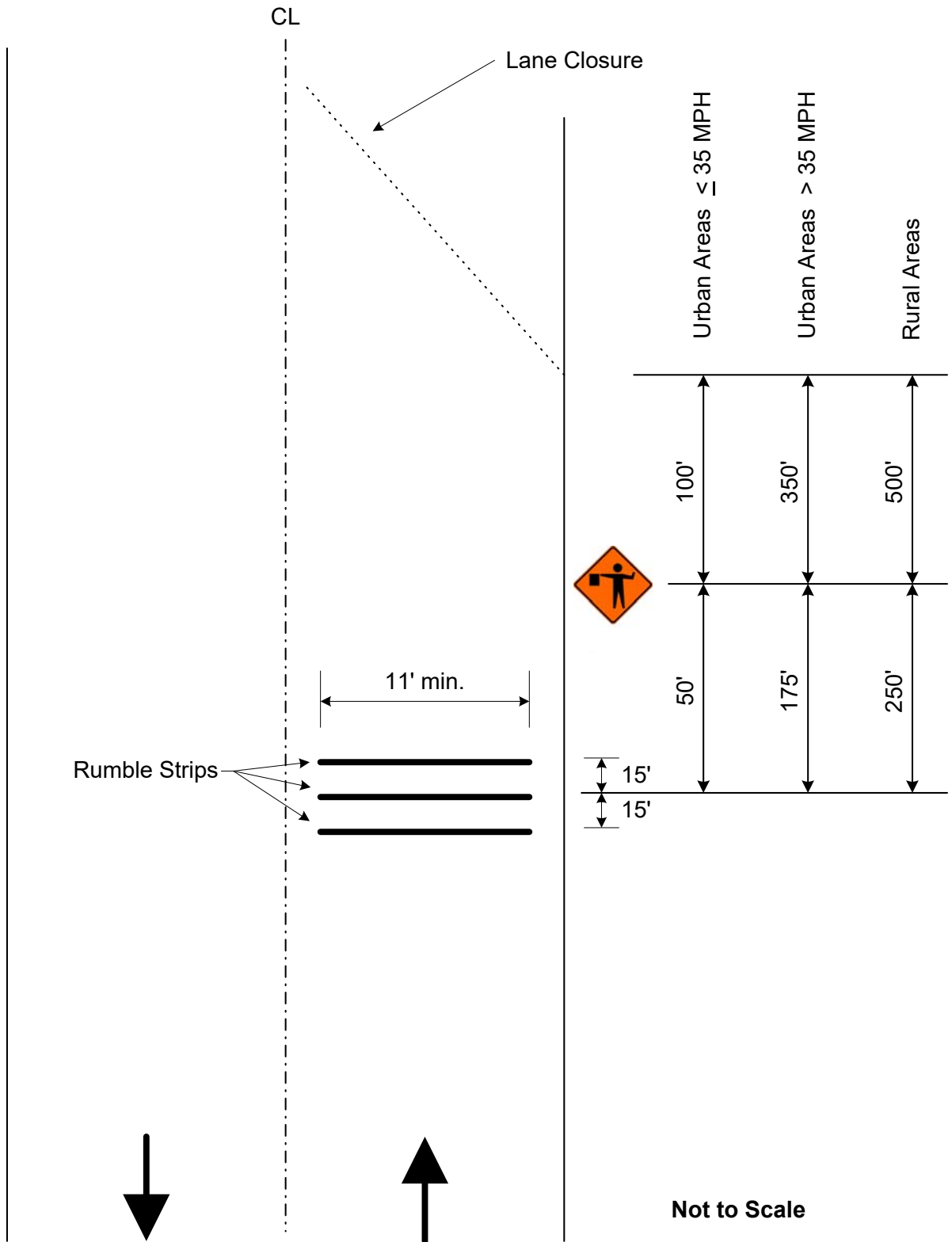
Temporary Portable Rumble Strips will be measured for payment by the linear foot only when a pay item for temporary portable rumble strips is included in the contract. Otherwise, temporary portable rumble strips will be included in the cost of pay item 618-A, Maintenance of Traffic. The quantity of temporary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

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

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

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

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



**Detail of Temporary Portable Rumble Strips**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-701-3

CODE: (IS)

DATE: 05/04/2021

SUBJECT: Hydraulic Cement

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

**907-701.01--General.** In the first sentence of the second paragraph of Subsection 701.01 on page 718, change “mills” to “plants.”

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

**907-701.02--Portland Cement.**

**907-701.02.1-General.**

**907-701.02.1.2--Alkali Content.** Delete the sentence in Subsection 701.02.1.2 on page 719, and substitute the following.

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

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

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

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

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

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



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

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

**Table 1- Cementitious Materials for Soluble Sulfate Conditions or Seawater**

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

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

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

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

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

**907-701.04--Blended Hydraulic Cement.**

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

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

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

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

**907-701.04.1.2--Alkali Content.** Delete the sentence in Subsection 701.04.1.2 on page 720, and substitute the following.

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

The blended cement manufacturer shall include the percent equivalent alkalis as Na<sub>2</sub>O on their cement mill reports.

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

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

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

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

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

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

**Table 2- Cementitious Materials for Soluble Sulfate Conditions or Seawater**

Sulfate Exposure	Water-soluble sulfate (SO <sub>4</sub> ) in soil, % by mass	Sulfate (SO <sub>4</sub> ) in water, ppm	Cementitious material required
Moderate and Seawater	0.10 - 0.20	150 - 1,500	Type 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
<b>Test on Residue from Distillation</b>					
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. 907-703-1**

**CODE: (IS)**

**DATE: 06/13/2018**

**SUBJECT: Gradation**

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

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

**907-703.03.2--Detail Requirements.**

**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.

**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 <sup>1</sup>	II <sup>1</sup>	III	IV	V	VI		VII		VIII	IX	Test Method
	Sediment Control	Drainage	Paving	Separation & Drainage	Separation, Stabilization & Reinforcement	Non-Woven	Woven	Non-Woven	Woven	High Strength		
<b>Physical Property<sup>2</sup></b>												
Grab Strength (lb)	50	90	110	90	200	180	280	180	450	280	280	ASTM D 4632
Elongation (%)	---	50% max @ 45 lb	20% min	50% min @ break	50% min	50% min	50% max	50% min	50% max	50% min	50% min	ASTM D 4632
Seam Strength (lb)	---	---	70	---	180	160	240	160	400	240	240	ASTM D 4632
Puncture Strength (lb)	---	---	40	---	80	75	110	75	180	115	115	ASTM D 6241
Trapezoidal Tear (lb)	---	---	40	---	80	70	100	70	150	100	100	ASTM D 4533
Asphalt Retention (gal/yd <sup>2</sup> )	---	---	---	0.2	---	---	---	---	---	---	---	ASTM D 6140
Permittivity (sec <sup>-1</sup> ) min	0.05	0.05	0.5	---	0.2	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	---	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	50% @ 500 hr	ASTM D 4355
Melting Point °(F)	---	---	---	325	---	---	---	---	---	---	---	ASTM D 276
Minimum Ultimate Tensile Strength <sup>3</sup> (lb/in)	---	---	---	---	---	---	---	---	---	---	660	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 <sup>1</sup> , pounds per foot, Machine Direction	250	500	750	1500	2500	3500	AASHTO R69, ASTM D5262
Minimum Ultimate Tensile Strength <sup>2</sup> , pounds per foot, Machine Direction	500	1000	1500	3000	5000	7000	ASTM D6637
Open Area, percent	70	70	50	50	50	50	Direct Measurement

<sup>1</sup> Minimum design criteria requirement.

<sup>2</sup> 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: (SP)**

**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/ft<sup>2</sup>)  
Per ASTM Designation D4956**

**TABLE 4  
Type IX Sheeting**

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

**TABLE 5  
Type XI Sheeting**

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

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**

<b>ASTM D4956 Type</b>	<b>Full Sign Replacement Term (years)</b>	<b>Sheeting Replacement Term (years)</b>
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 3<sup>rd</sup> party certifier approved by the reflective sheeting manufacturer.

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

# SECTION 905 - PROPOSAL

Date \_\_\_\_\_

Mississippi Transportation Commission  
Jackson, Mississippi

Sirs: The following proposal is made on behalf of \_\_\_\_\_  
\_\_\_\_\_ of \_\_\_\_\_

for constructing the following designated project(s) within the time(s) hereinafter specified.

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

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

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

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

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

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

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

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

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

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

**SECTION 905 -- PROPOSAL (CONTINUED)**

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

Respectfully Submitted,

DATE \_\_\_\_\_

\_\_\_\_\_  
Contractor

BY \_\_\_\_\_  
Signature

TITLE \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

FAX \_\_\_\_\_

E-MAIL \_\_\_\_\_

(To be filled in if a corporation)

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

\_\_\_\_\_  
President Address

\_\_\_\_\_  
Secretary Address

\_\_\_\_\_  
Treasurer Address

The following is my (our) itemized proposal.

Mill & Overlay approximately 9 miles of US 51 from Fisher's Crossing to the Beginning of the 5-Lane Section at Glenwild, known as State Project Nos. MP-2051-49(005) / 307510301 & MP-2051-22(003) / 307510302 in Montgomery & Grenada Counties.

Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
<b>Roadway Items</b>					
0010	202-B069		7,171	Square Yard	Removal of Concrete Pavement w/ Variable Depth Overlay
0020	202-B217		18	Each	Removal of Sign Post and Footing
0030	202-B240		2,708	Linear Feet	Removal of Traffic Stripe
0040	203-G001	(E)	100	Cubic Yard	Excess Excavation, FM, AH
0050	304-B002	(GT)	100	Ton	Granular Material, Class 3, Group D
0060	403-A006	(BA1)	4,679	Ton	19-mm, ST, Asphalt Pavement
0070	403-A015	(BA1)	15,075	Ton	9.5-mm, ST, Asphalt Pavement
0080	403-B012	(BA1)	870	Ton	9.5-mm, ST, Asphalt Pavement, Leveling
0090	406-D001		182,060	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0100	407-A001	(A2)	13,067	Gallon	Asphalt for Tack Coat
0110	413-E001		64,400	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
0120	423-A001		16	Mile	Rumble Strips, Ground In
0130	503-C010		3,196	Linear Feet	Saw Cut, Full Depth
0140	601-B001	(S)	3	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0150	618-A001		1	Lump Sum	Maintenance of Traffic
0160	618-B001		1	Square Feet	Additional Construction Signs (\$10.00)
0170	619-A1001		34	Mile	Temporary Traffic Stripe, Continuous White
0180	619-A2001		6	Mile	Temporary Traffic Stripe, Continuous Yellow
0190	619-A4002		15	Mile	Temporary Traffic Stripe, Skip Yellow
0200	619-A5001		37,787	Linear Feet	Temporary Traffic Stripe, Detail
0210	619-A6001		401	Square Feet	Temporary Traffic Stripe, Legend
0220	619-A6002		1,975	Linear Feet	Temporary Traffic Stripe, Legend
0230	620-A001		1	Lump Sum	Mobilization
0240	626-C002		18	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0250	626-D001		8	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0260	626-E001		6	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0270	626-G001		144	Linear Feet	Thermoplastic Detail Stripe, Blue-ADA
0280	626-G004		18,810	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0290	626-G005		18,833	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
0300	626-H001		401	Square Feet	Thermoplastic Double Drop Legend, White
0310	626-H002		1,976	Linear Feet	Thermoplastic Double Drop Legend, White
0320	626-H003		68	Square Feet	Thermoplastic Legend, Blue-ADA
0330	627-J001		600	Each	Two-Way Clear Reflective High Performance Raised Markers
0340	627-K001		125	Each	Red-Clear Reflective High Performance Raised Markers
0350	627-L001		1,019	Each	Two-Way Yellow Reflective High Performance Raised Markers



<b>Line no.</b>	<b>Item Code</b>	<b>Adj Code</b>	<b>Quantity</b>	<b>Units</b>	<b>Description[Fixed Unit Price]</b>
0360	630-A001		415	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
0370	630-A003		397	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0380	630-A005		280	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.1" Thickness
0390	630-C001		270	Linear Feet	Square Tube Posts, 4.0 lb/ft
0400	630-C005		2,118	Linear Feet	Square Tube Posts, 2.0 lb/ft
0410	630-G004		77	Each	Type 3 Object Markers, OM-3R or OM-3L
0420	907-619-B001		66	Linear Feet	Temporary Portable Rumble Strips

For Informational Purposes Only

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

**CONDITIONS FOR COMBINATION BID**

If a bidder elects to submit a combined bid for two or more of the contracts listed for this month's letting, the bidder must complete and execute these sheets of the proposal in each of the individual proposals to constitute a combination bid. In addition to this requirement, each individual contract shall be completed, executed and submitted in the usual specified manner.

Failure to execute this Combination Bid Proposal in each of the contracts combined will be just cause for each proposal to be received and evaluated as a separate bid.

It is understood that the Mississippi Transportation Commission not only reserves the right to reject any and all proposals, but also the right to award contracts upon the basis of lowest separate bids or combination bids most advantageous to the State.

It is further understood and agreed that the Combination Bid Proposal is for comparison of bids only and that each contract shall operate in every respect as a separate contract in accordance with its proposal and contract documents.

I (We) agree to complete each contract on or before its specified completion date.

\*\*\*\*\*

**COMBINATION BID PROPOSAL**

This proposal is tendered as one part of a Combination Bid Proposal utilizing option \_\_\_\* of Subsection 102.11 on the following contracts:

\* Option to be shown as either (a), (b), or (c).

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

(a) If Combination A has been selected, your Combination Bid is complete.

(b) If Combination B has been selected, then complete the following page.

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

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

For Informational Purposes Only

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

Project Number	Pay Item Number	Unit	Unit Price Reduction	Total Item Reduction	Total Contract Reduction
9.					
10.					

(c) If Combination C has been selected, then initial and complete ONE of the following.

\_\_\_\_\_ I (We) desire to be awarded work not to exceed a total monetary value of \$ \_\_\_\_\_.

\_\_\_\_\_ I (We) desire to be awarded work not to exceed \_\_\_\_\_ number of contracts.



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

**CERTIFICATE**

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

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

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

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

Contractor \_\_\_\_\_

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**  
**CERTIFICATION**

I, \_\_\_\_\_,  
(Name of person signing bid)

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

\_\_\_\_\_  
(Name of Firm, partnership, or Corporation)

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

that \_\_\_\_\_, Bidder  
(Name of Firm, Partnership, or Corporation)

on Project No. **MP-2051-49(005)/ 307510301000 & MP-2051-22(003)/ 307510302000**

in **Grenada & Montgomery** 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 MP-2051-49(005)/ 307510301000 & MP-2051-22(003)/ 307510302000

LOCATED IN THE COUNTY(IES) OF Grenada & Montgomery

STATE OF MISSISSIPPI,  
COUNTY OF HINDS

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

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

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

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

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

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

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

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

Witness our signatures this the \_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Contractor(s)

By \_\_\_\_\_

MISSISSIPPI TRANSPORTATION COMMISSION

Title \_\_\_\_\_

By \_\_\_\_\_

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

Executive Director

\_\_\_\_\_

Secretary to the Commission

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

Revised 8/06/2003

**SECTION 903**  
**PERFORMANCE AND PAYMENT BOND**

CONTRACT BOND FOR: MP-2051-49(005)/ 307510301000 & MP-2051-22(003)/ 307510302000

LOCATED IN THE COUNTY(IES) OF: Grenada & Montgomery

STATE OF MISSISSIPPI,  
COUNTY OF HINDS

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

residing at \_\_\_\_\_ in the State of \_\_\_\_\_

and \_\_\_\_\_

(Surety)  
residing at \_\_\_\_\_ in the State of \_\_\_\_\_,

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

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

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

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

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



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

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



# BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we \_\_\_\_\_  
Contractor

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State ZIP

As principal, hereinafter called the Principal, and \_\_\_\_\_  
Surety

a corporation duly organized under the laws of the state of \_\_\_\_\_

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

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

Dollars(\$ \_\_\_\_\_ )

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

WHEREAS, the Principal has submitted a bid for **Mill & Overlay approximately 9 miles of US 51 from Fisher's Crossing to the Beginning of the 5-Lane Section at Glenwild, known as State Project Nos. MP-2051-49(005) / 307510301 & MP-2051-22(003) / 307510302 in Montgomery & Grenada Counties.**

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

FORM CSD-812  
Rev. 1/2015

YEAR 2022 PROJECT NUMBER MP-2051-49(005) MF-2051-22(003) 307501 301 & 302 YEAR 2023  
Montgomery and Grenada COUNTY

PROGRESS SCHEDULE

NO.	WORK PHASE DESCRIPTION	LINE NUMBERS	MONTH												TOTAL													
			JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOV	DEC		JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOV	DEC	
1	Miscellaneous	10-40, 110, 130-230, 360-420												72														
2	Milling, Paving, and Shoulder	50-100												63														
3	Perm Stripe	120, 240-350												63	72													
	LET:	05/24/2022																										
	NOA:	06/14/2022																										
	NTP/BCT:	07/14/2022																										
	W.D.:	72																										
	ANTICIPATED WORKING DAYS PER MONTH		JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOV	DEC	172	
			8	7	11	15	19	20	21	21	21	16	11	11	8	7	11	15	19	20	21	21	20	16	11	11	WORKING DAYS PER YEAR	

NOTE: THE ANTICIPATED WORKING DAYS SHOWN ON THIS SCHEDULE ARE FOR INFORMATIONAL PURPOSES ONLY.  
 THE ACTUAL WORKING DAY TOTAL AS ASSESSED BY THE PROJECT ENGINEER ON FORM CSD-765 SHALL GOVERN.