

MDOT Use Only

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SM No. CMP5878400011

# PROPOSAL AND CONTRACT DOCUMENTS

## FOR THE CONSTRUCTION OF

20

Mill & Overlay approximately 1 mile of SR 878 through the Town of Walnut Grove, and 2 miles of SR 492 through the Town of Walnut Grove, known as State Project Nos. MP-5878-40(001) / 306660301 & MP-5492-40(003) / 306660302 in Leake County.

Project Completion: 55 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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MP-5492-40(003)/306660302 - Leake**

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OF SECTION 905 AS ADDENDA)

05/01/2019 10:56 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., Wednesday, May 29, 2019, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Mill & Overlay approximately 1 mile of SR 878 through the Town of Walnut Grove, and 2 miles of SR 492 through the Town of Walnut Grove, known as State Project Nos. MP-5878-40(001) / 306660301 & MP-5492-40(003) / 306660302 in Leake County.

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

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

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

Contractors may request permission to bid online at <http://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.

MELINDA L. MCGRATH  
EXECUTIVE DIRECTOR

# 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. 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.

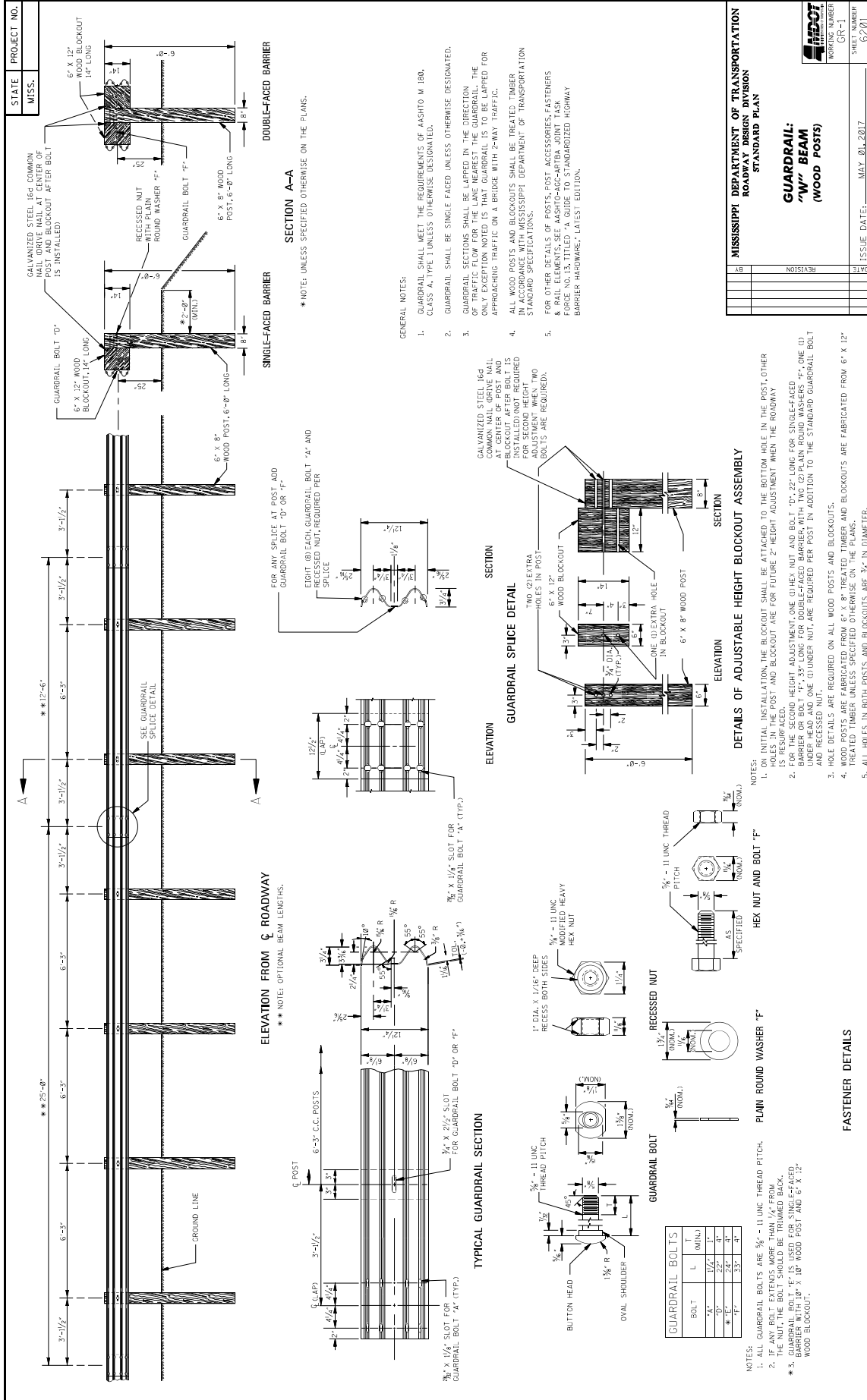


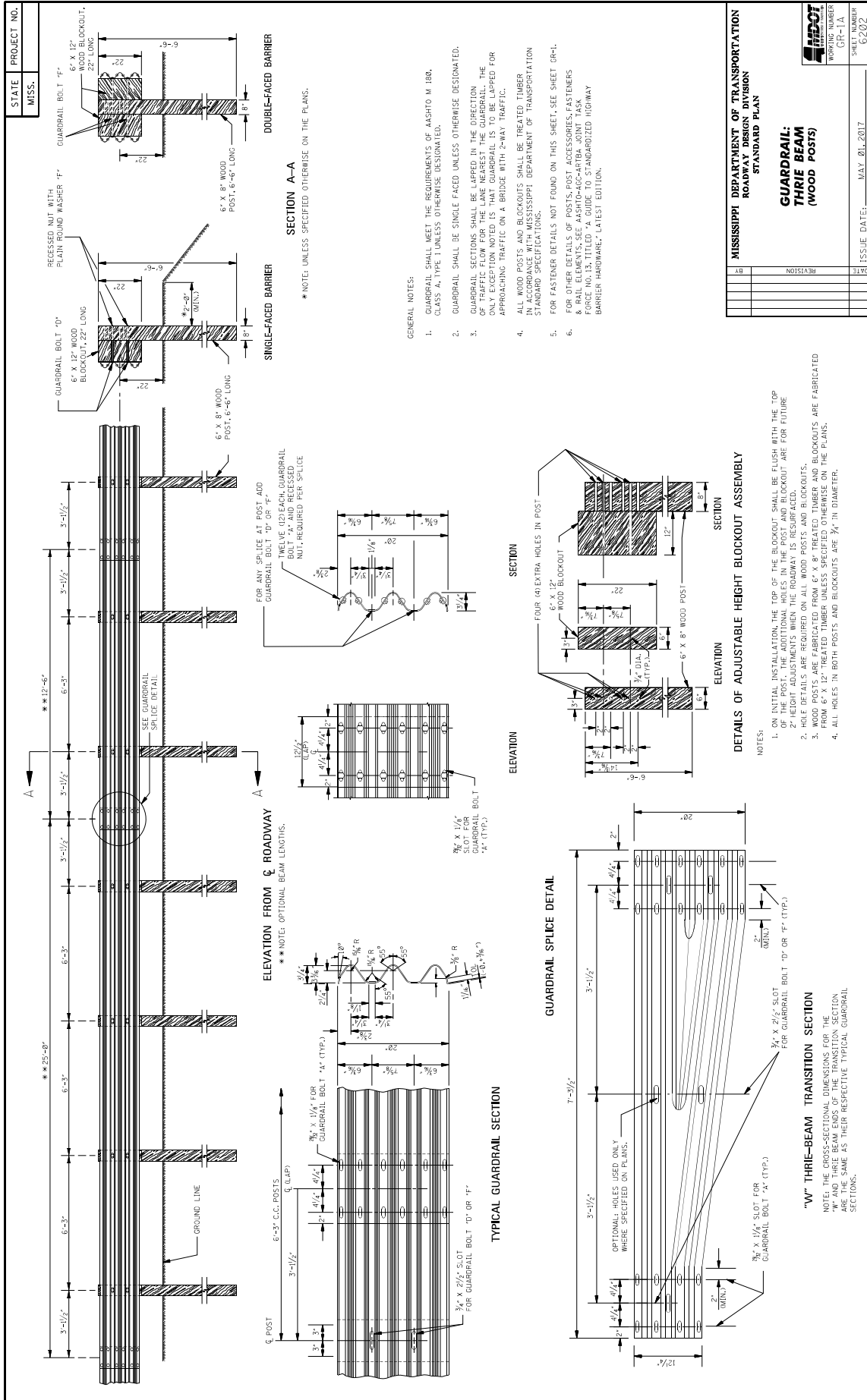
**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

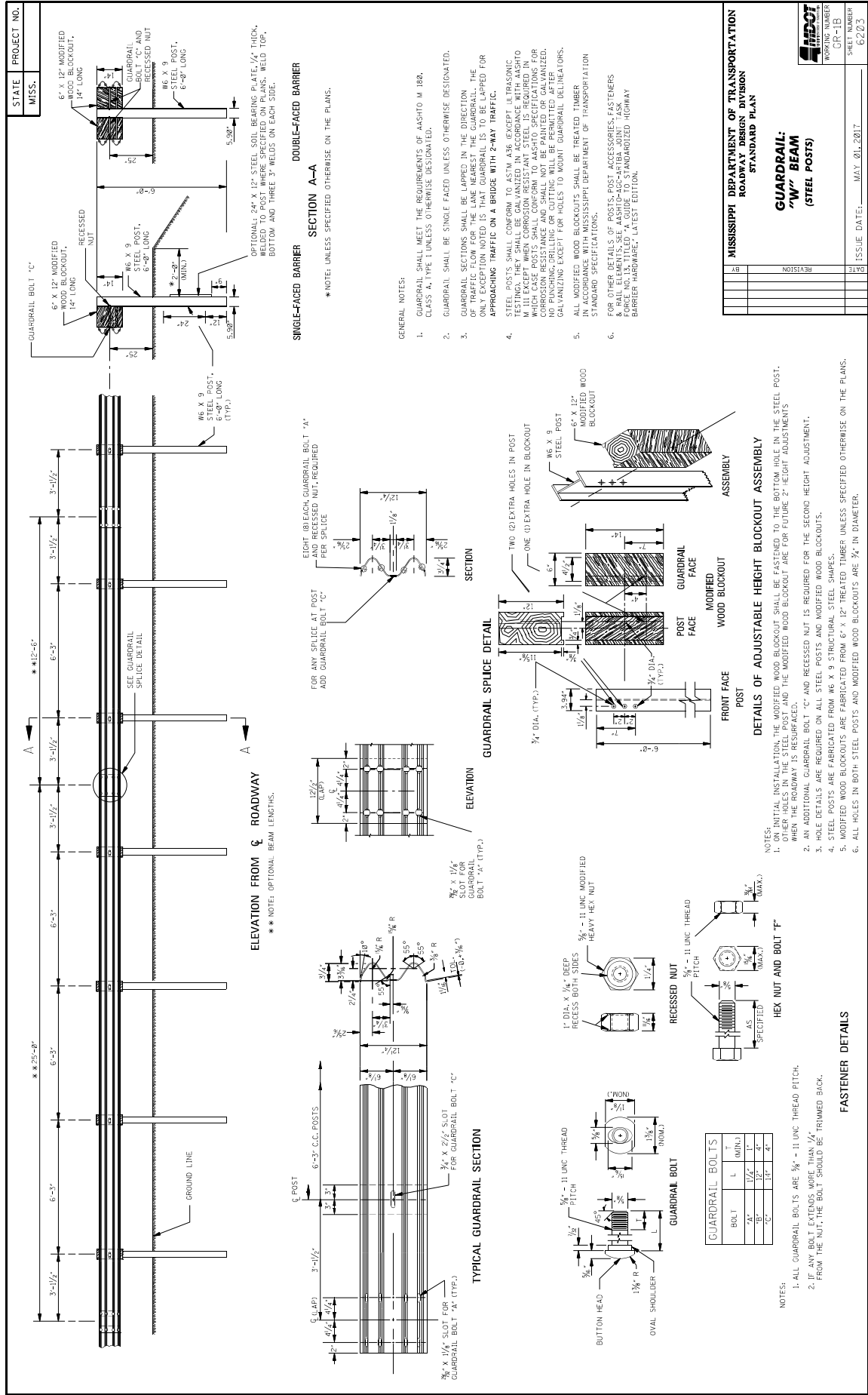
**SUPPLEMENT TO NOTICE TO BIDDERS NO. 401**

**DATE: 09/12/2017**

After the last drawing on page 25, add the following.







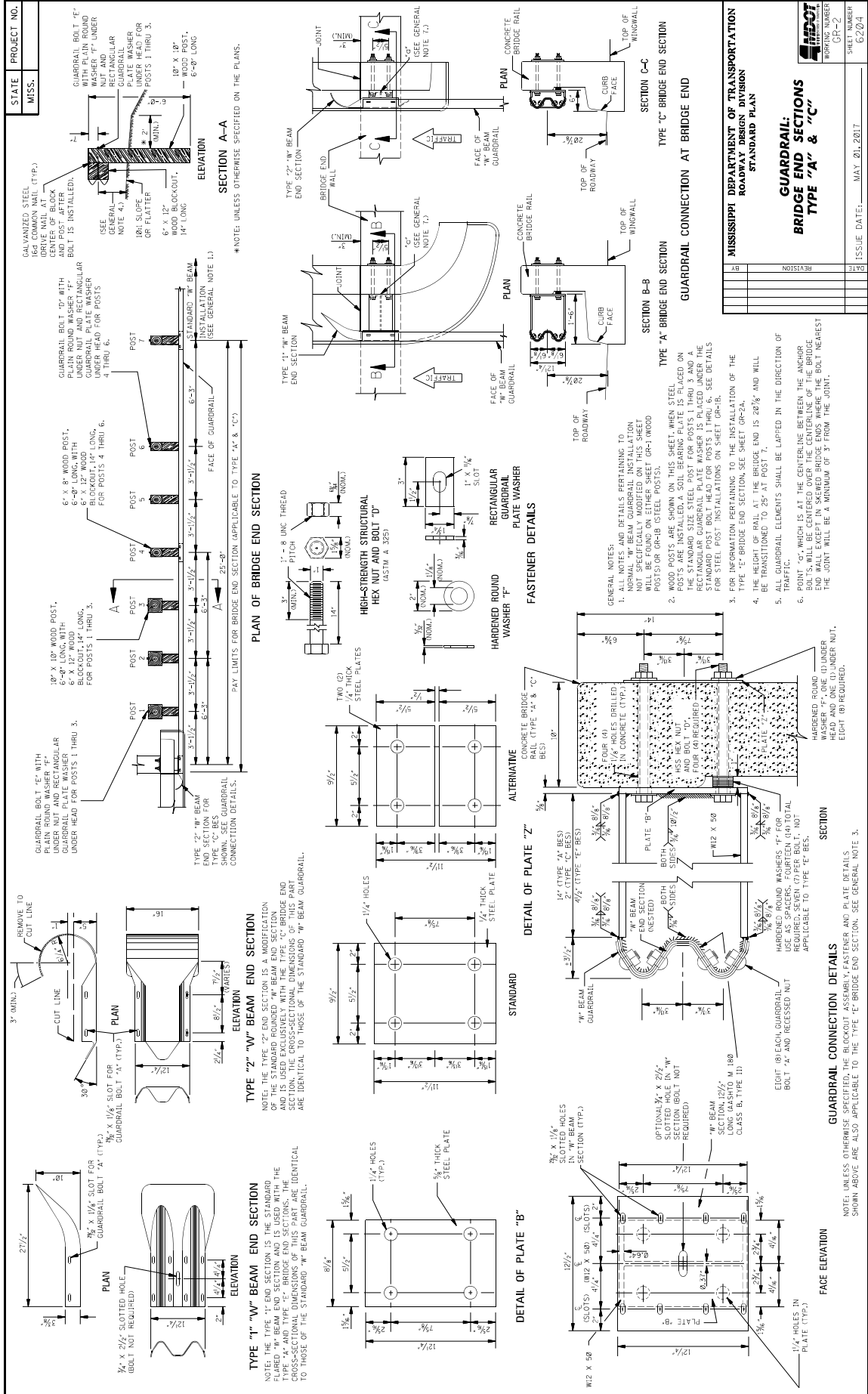
**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

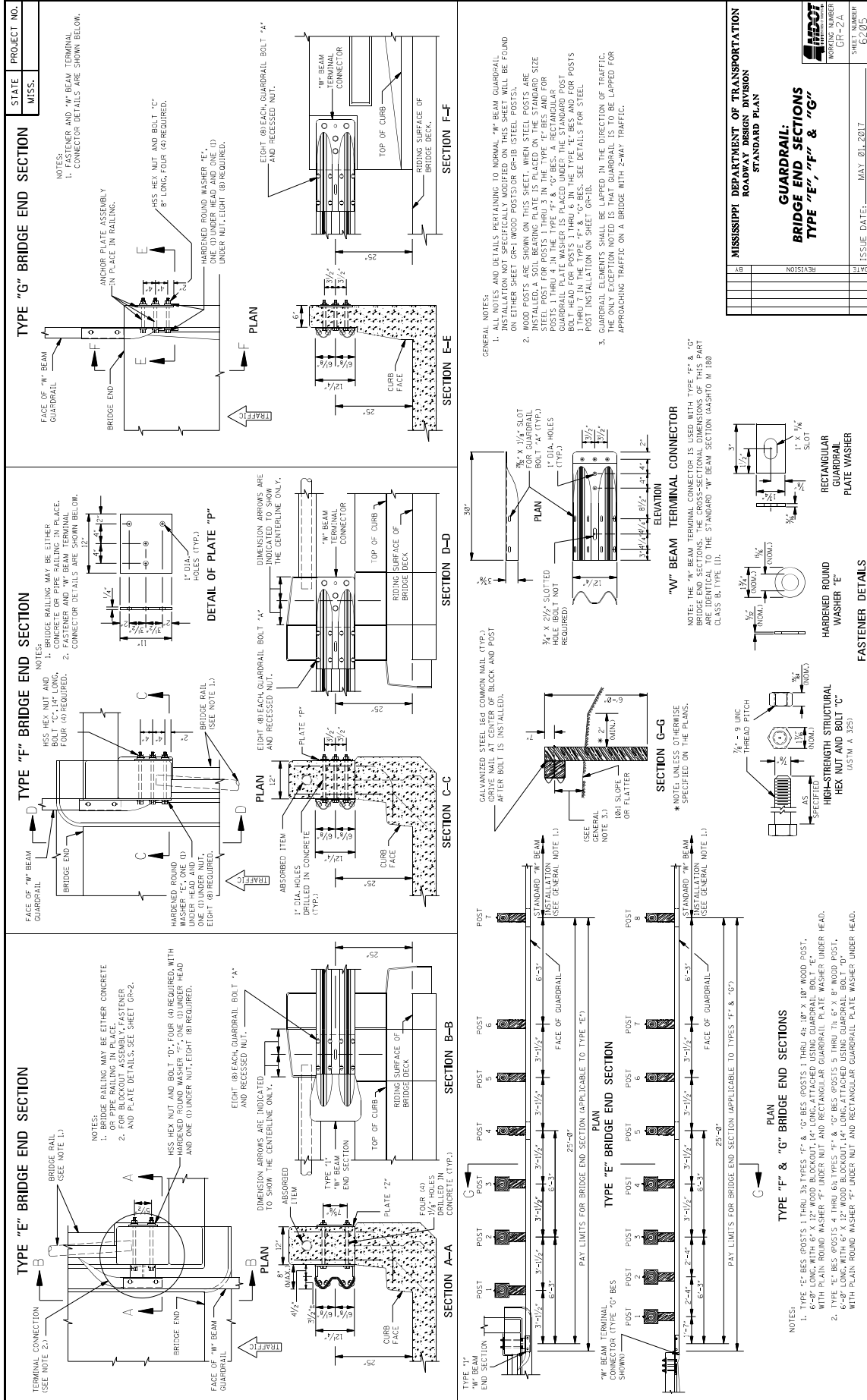
**GUARDRAIL:**  
"W" BEAM  
(STEEL POSTS)

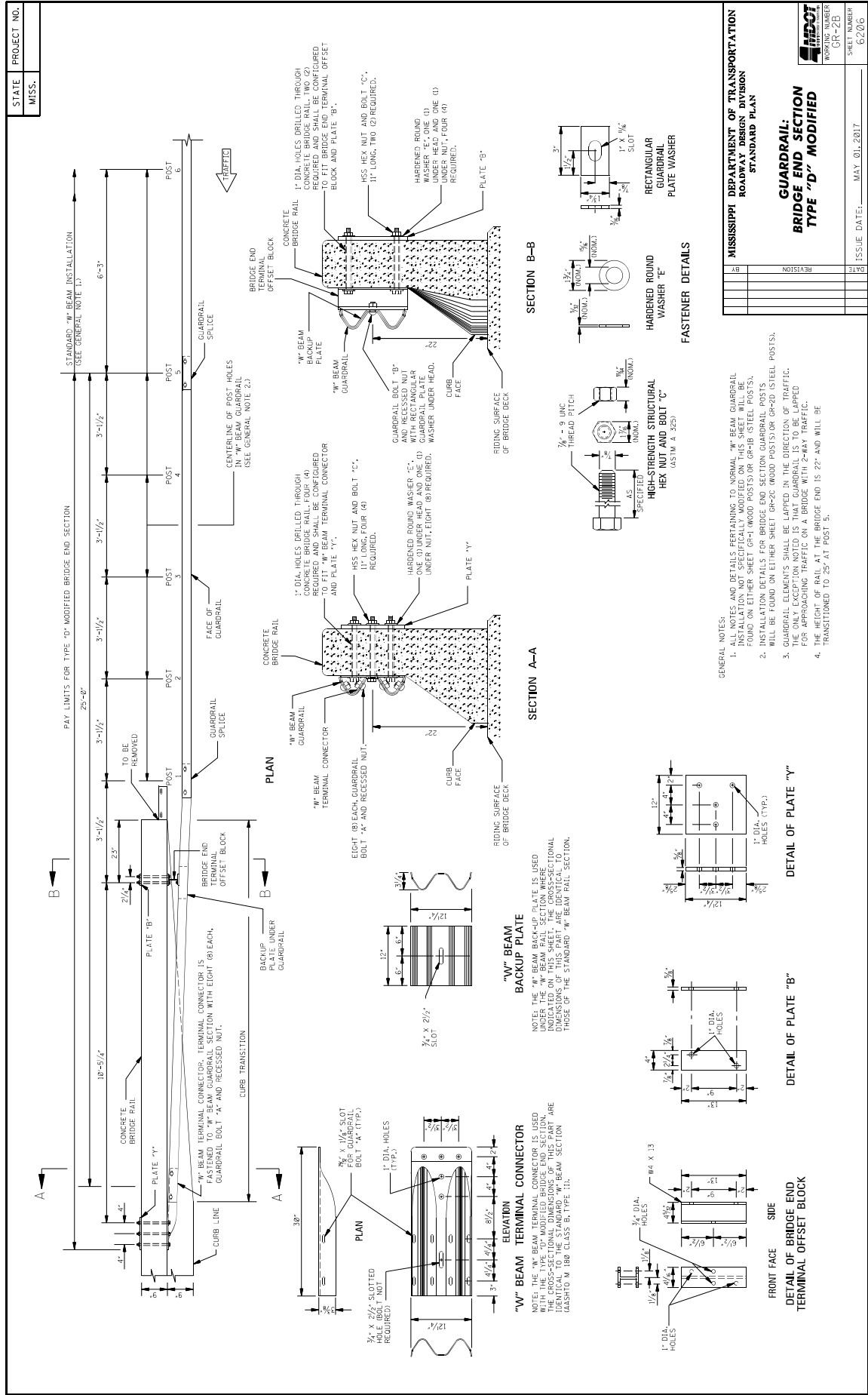
**WORKING NUMBER**  
GT-1B

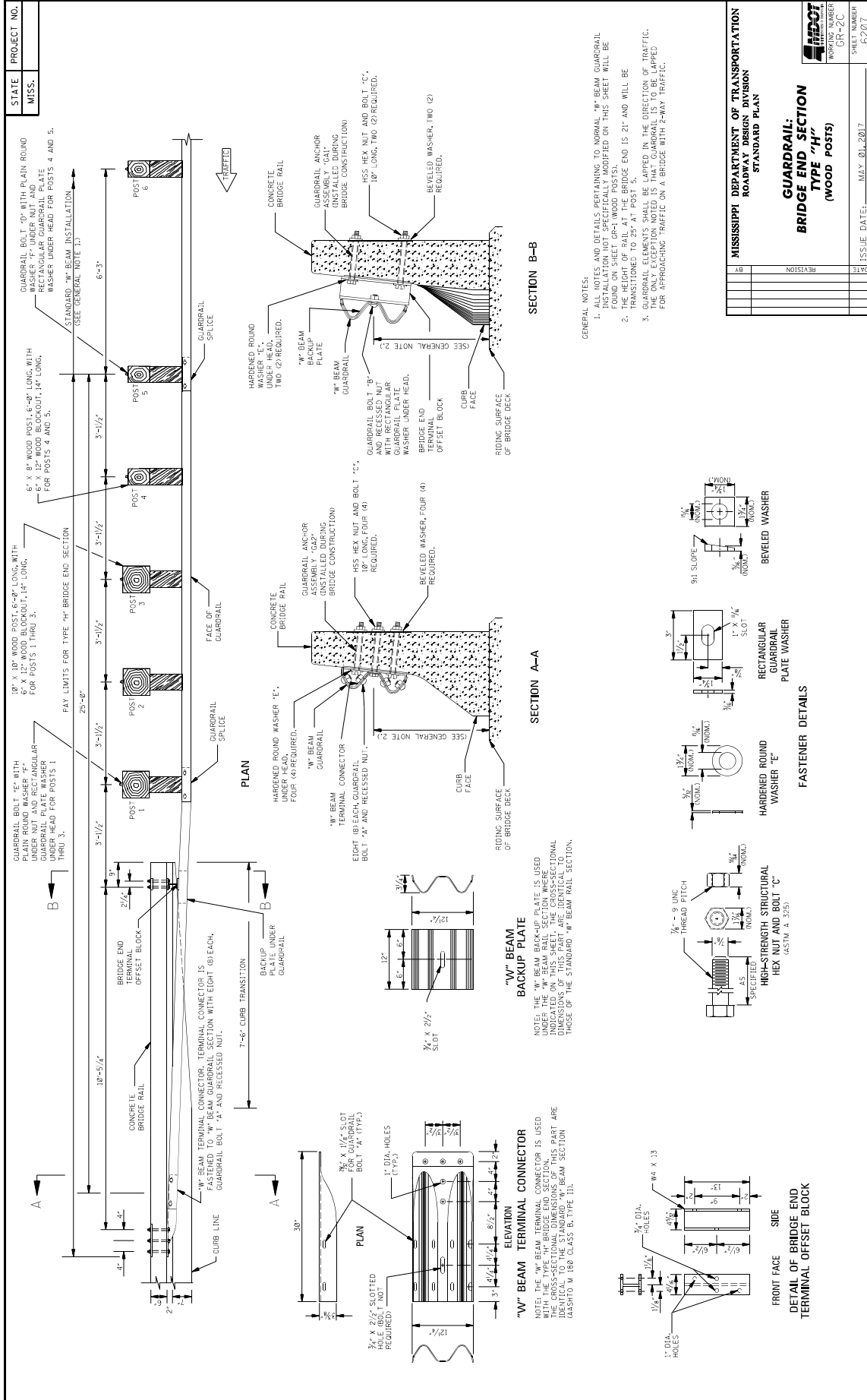
**SHEET NUMBER**  
82/83

**ISSUE DATE:** MAY 01, 2017





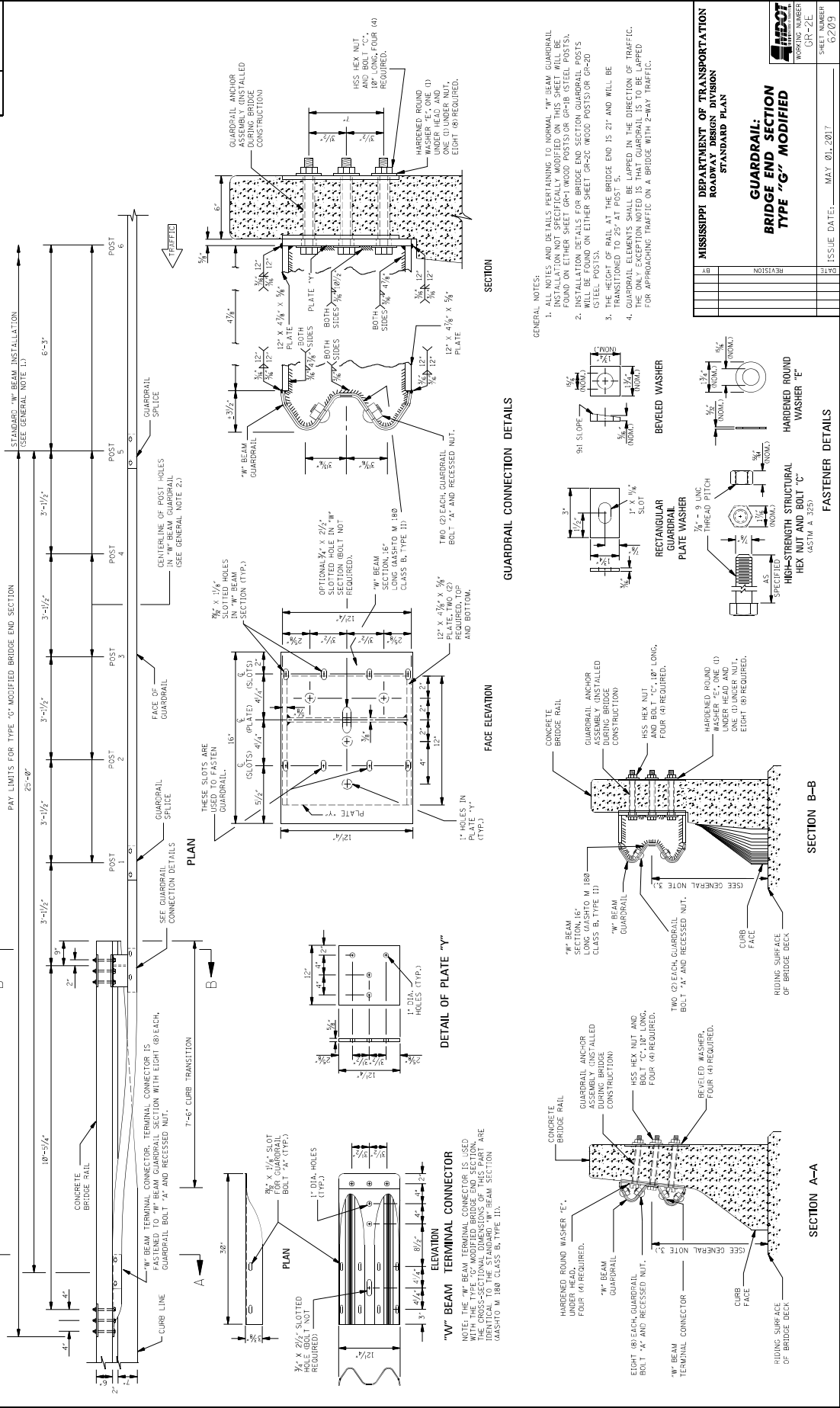








STATE	PROJECT NO.
MISS.	



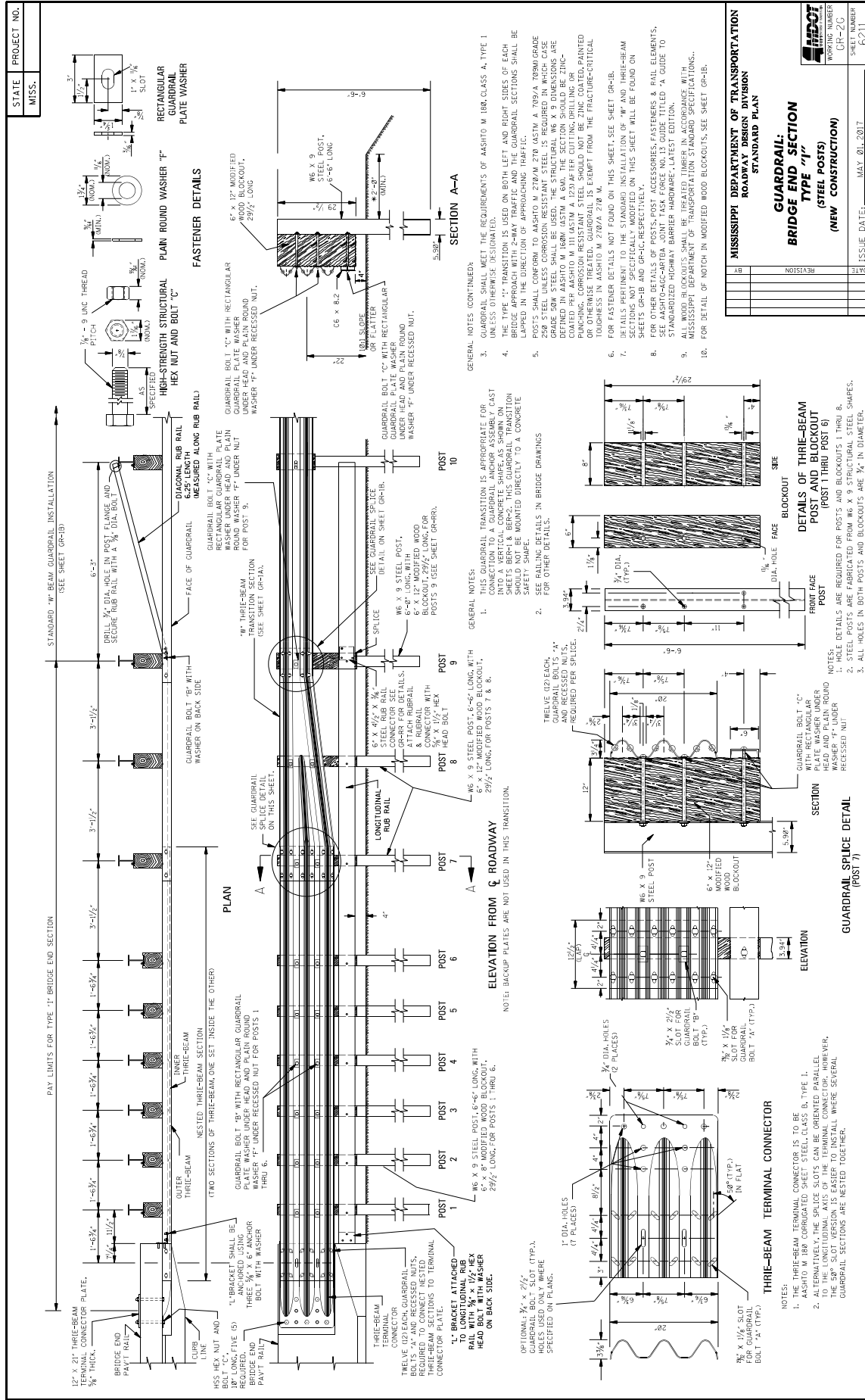
MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

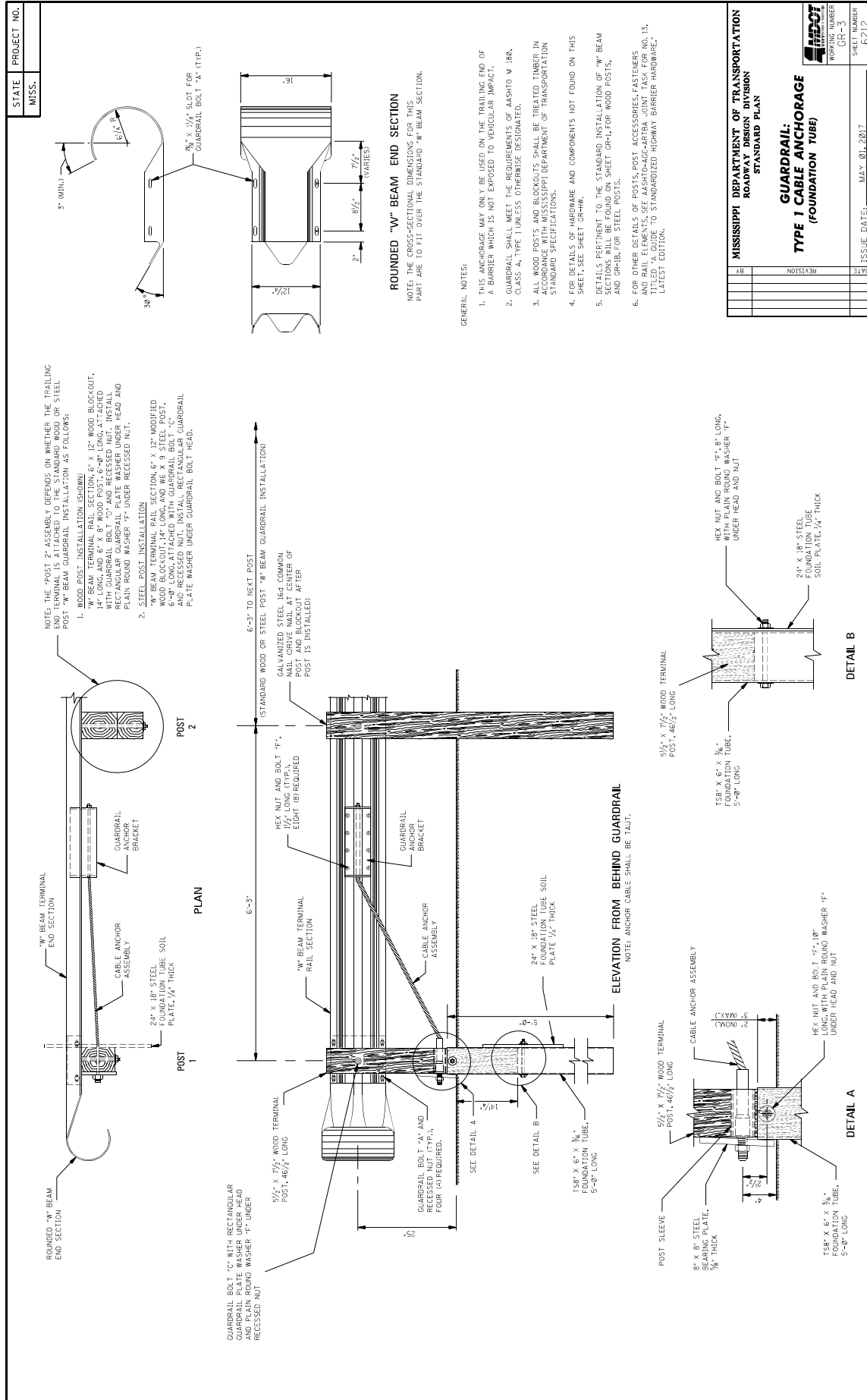
**GUARDRAIL:  
BRIDGE END SECTION  
TYPE "G" MODIFIED**

DATE	REVISION
MAY 01, 2017	

WORKING NUMBER: GRI-A-ZE  
SHEET NUMBER: 0209







STATE	PROJECT NO.	
MISS.	MISS.	

**ROUNDED "W" BEAM END SECTION**

**GENERAL NOTES:**

1. THIS ANCHORAGE MAY ONLY BE USED ON THE TRAILING END OF A BARRIER WHICH IS NOT EXPOSED TO VEHICULAR IMPACT.
2. GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 188, CLASS A, TYPE 1 UNLESS OTHERWISE DESIGNATED.
3. ALL WOOD POSTS AND BRACKETS SHALL BE TREESIES, TIMBER IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
4. CONCRETE FOR THE CONCRETE FOUNDATION MAY BE EITHER CLASS "B" STRUCTURAL CONCRETE OR AN APPROVED COMMERCIAL PRE-MIXED BAG CONCRETE. THE WELDED WIRE FABRIC FOR THE CONCRETE FOUNDATION SHALL CONFORM TO AASHTO M 221/A 222M AND AASHTO M 55/A 55M.
5. FOR DETAILS OF HARDWARE AND COMPONENTS NOT FOUND ON THIS SHEET, SEE SHEET GRWA.
6. DETAILS PERTINENT TO THE STANDARD INSTALLATION OF "W" BEAM GUARDRAIL SHALL BE REFERENCED TO SHEET GP-1 FOR WOOD POSTS, AND GR-4 FOR STEEL POSTS.
7. FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS AND HARDWARE, SEE SHEET GP-1 THROUGH GP-13, TITLED "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.

**WOOD TERMINAL RAIL SECTION**

**GENERAL NOTES:**

1. THIS ANCHORAGE MAY ONLY BE USED ON THE TRAILING END OF A BARRIER WHICH IS NOT EXPOSED TO VEHICULAR IMPACT.
2. GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 188, CLASS A, TYPE 1 UNLESS OTHERWISE DESIGNATED.
3. ALL WOOD POSTS AND BRACKETS SHALL BE TREESIES, TIMBER IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
4. CONCRETE FOR THE CONCRETE FOUNDATION MAY BE EITHER CLASS "B" STRUCTURAL CONCRETE OR AN APPROVED COMMERCIAL PRE-MIXED BAG CONCRETE. THE WELDED WIRE FABRIC FOR THE CONCRETE FOUNDATION SHALL CONFORM TO AASHTO M 221/A 222M AND AASHTO M 55/A 55M.
5. FOR DETAILS OF HARDWARE AND COMPONENTS NOT FOUND ON THIS SHEET, SEE SHEET GRWA.
6. DETAILS PERTINENT TO THE STANDARD INSTALLATION OF "W" BEAM GUARDRAIL SHALL BE REFERENCED TO SHEET GP-1 FOR WOOD POSTS, AND GR-4 FOR STEEL POSTS.
7. FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS AND HARDWARE, SEE SHEET GP-1 THROUGH GP-13, TITLED "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.

**WOOD TERMINAL RAIL SECTION**

**GENERAL NOTES:**

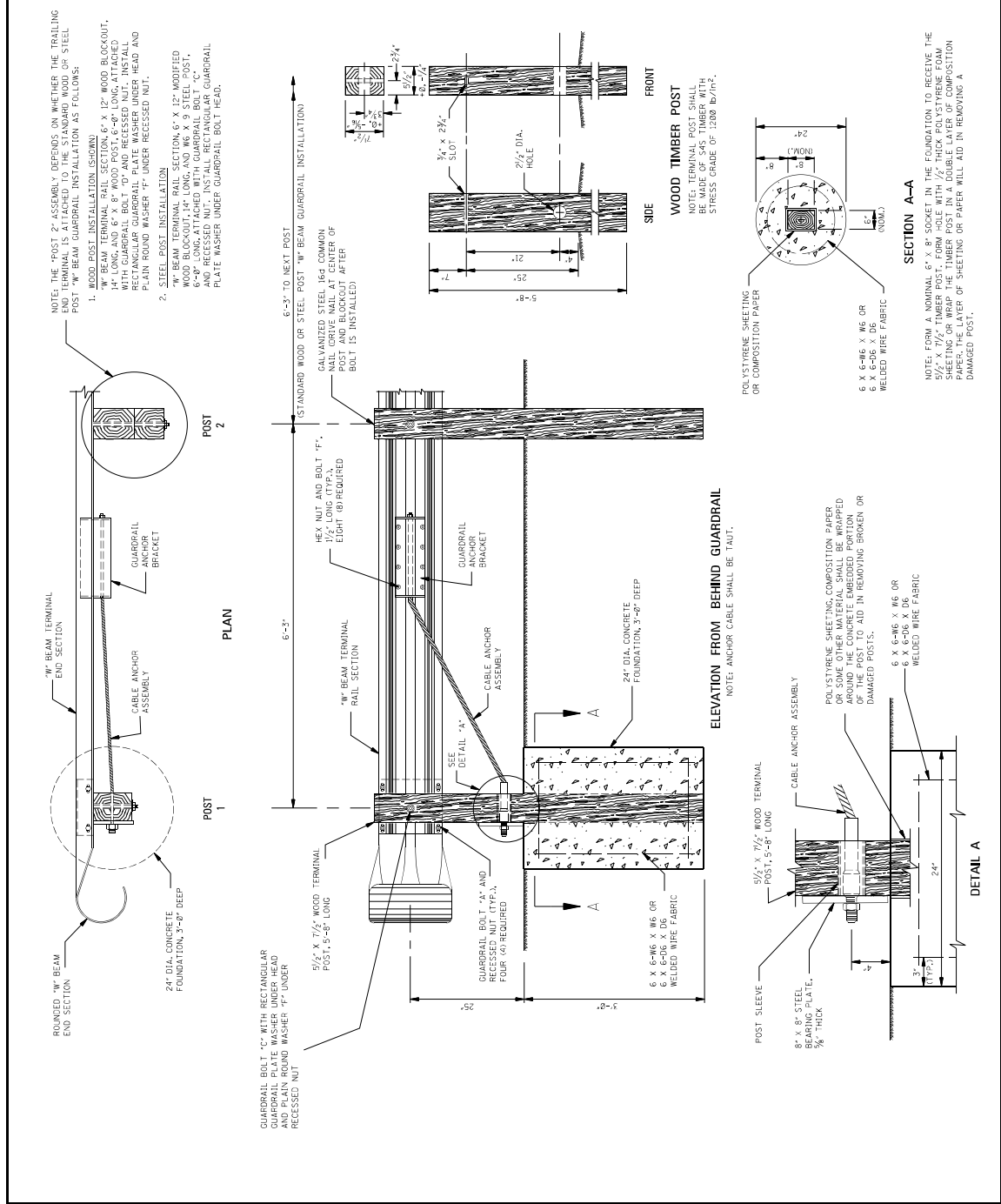
1. THIS ANCHORAGE MAY ONLY BE USED ON THE TRAILING END OF A BARRIER WHICH IS NOT EXPOSED TO VEHICULAR IMPACT.
2. GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 188, CLASS A, TYPE 1 UNLESS OTHERWISE DESIGNATED.
3. ALL WOOD POSTS AND BRACKETS SHALL BE TREESIES, TIMBER IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
4. CONCRETE FOR THE CONCRETE FOUNDATION MAY BE EITHER CLASS "B" STRUCTURAL CONCRETE OR AN APPROVED COMMERCIAL PRE-MIXED BAG CONCRETE. THE WELDED WIRE FABRIC FOR THE CONCRETE FOUNDATION SHALL CONFORM TO AASHTO M 221/A 222M AND AASHTO M 55/A 55M.
5. FOR DETAILS OF HARDWARE AND COMPONENTS NOT FOUND ON THIS SHEET, SEE SHEET GRWA.
6. DETAILS PERTINENT TO THE STANDARD INSTALLATION OF "W" BEAM GUARDRAIL SHALL BE REFERENCED TO SHEET GP-1 FOR WOOD POSTS, AND GR-4 FOR STEEL POSTS.
7. FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS AND HARDWARE, SEE SHEET GP-1 THROUGH GP-13, TITLED "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.

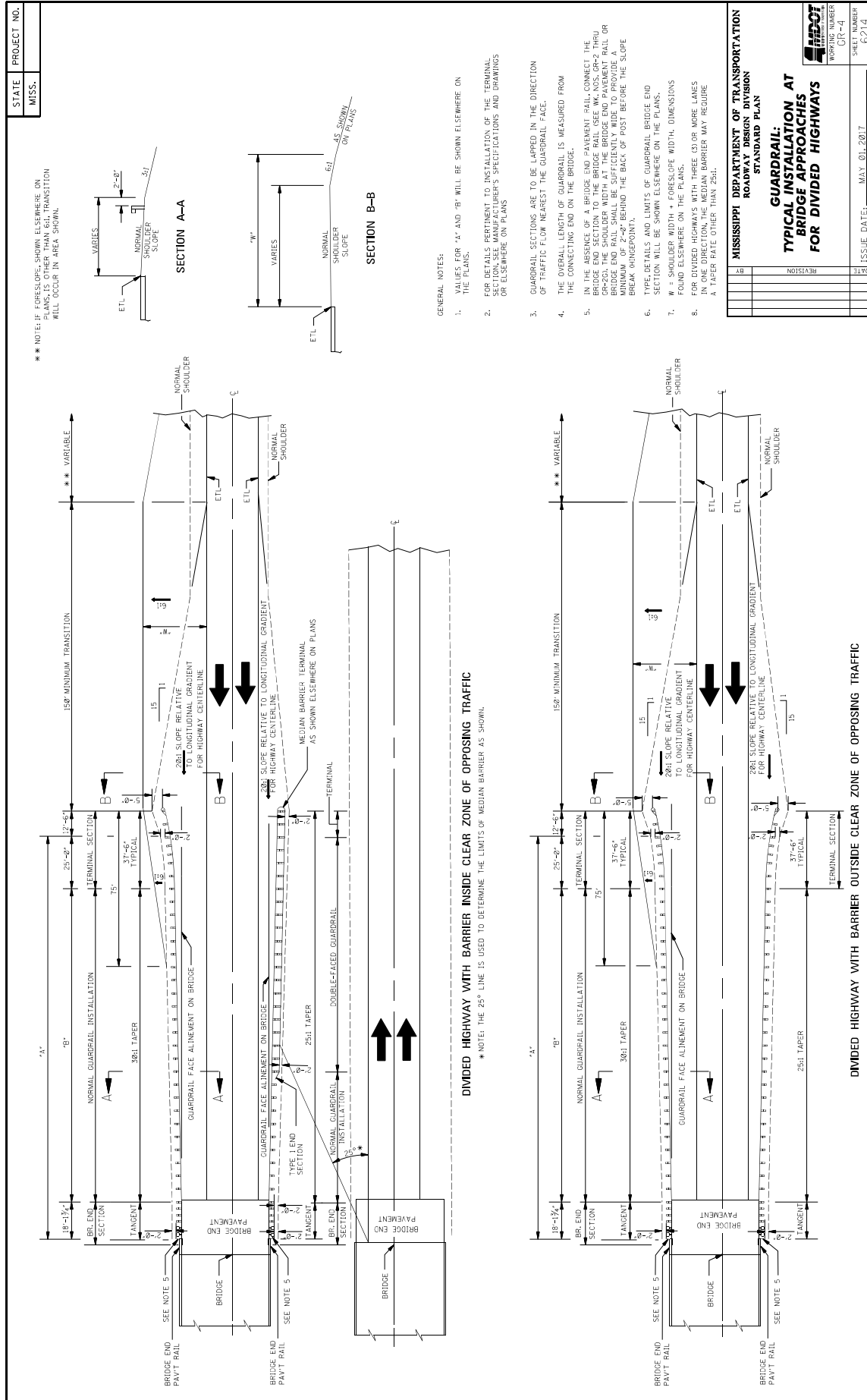
**WOOD TERMINAL RAIL SECTION**

**GENERAL NOTES:**

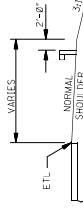
1. THIS ANCHORAGE MAY ONLY BE USED ON THE TRAILING END OF A BARRIER WHICH IS NOT EXPOSED TO VEHICULAR IMPACT.
2. GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 188, CLASS A, TYPE 1 UNLESS OTHERWISE DESIGNATED.
3. ALL WOOD POSTS AND BRACKETS SHALL BE TREESIES, TIMBER IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
4. CONCRETE FOR THE CONCRETE FOUNDATION MAY BE EITHER CLASS "B" STRUCTURAL CONCRETE OR AN APPROVED COMMERCIAL PRE-MIXED BAG CONCRETE. THE WELDED WIRE FABRIC FOR THE CONCRETE FOUNDATION SHALL CONFORM TO AASHTO M 221/A 222M AND AASHTO M 55/A 55M.
5. FOR DETAILS OF HARDWARE AND COMPONENTS NOT FOUND ON THIS SHEET, SEE SHEET GRWA.
6. DETAILS PERTINENT TO THE STANDARD INSTALLATION OF "W" BEAM GUARDRAIL SHALL BE REFERENCED TO SHEET GP-1 FOR WOOD POSTS, AND GR-4 FOR STEEL POSTS.
7. FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS AND HARDWARE, SEE SHEET GP-1 THROUGH GP-13, TITLED "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.

<b>MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN</b>	
<b>GUARDRAIL: TYPE 1 CABLE ANCHORAGE (CONCRETE FOOTING)</b>	SHEET NUMBER GT-34
DATE	ISSUE DATE: MAY 01, 2017
REVISION	SHEET NUMBER 6213

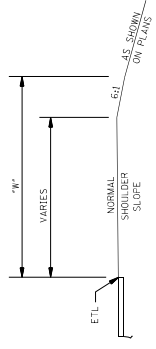




\*\*\* NOTE: IF FORESLOPE, SHOWN ELSEWHERE ON PLANS, IS OTHER THAN 6:1, TRANSITION WILL OCCUR IN AREA SHOWN.



SECTION A-A



SECTION B-B

GENERAL NOTES:

- VALUES FOR 'A', AND 'B' WILL BE SHOWN ELSEWHERE ON THE PLANS.
- FOR DETAILS PERTINENT TO INSTALLATION OF THE TERMINAL SECTION, SEE MANUFACTURER'S SPECIFICATIONS AND DRAWINGS OR ELSEWHERE ON PLANS.
- GUARDRAIL SECTIONS ARE TO BE LAPPED IN THE DIRECTION OF TRAFFIC FLOW NEAREST THE GUARDRAIL FACE.
- THE OVERALL LENGTH OF GUARDRAIL IS MEASURED FROM THE CONNECTING END ON THE BRIDGE.
- IN THE ABSENCE OF A BRIDGE END PAVEMENT RAIL, CONNECT THE BRIDGE END SECTION TO THE BRIDGE RAIL (SEE MK, NCS, LRP-2 THRU GR-20). THE SHOULDER WIDTH AT THE BRIDGE END PAVEMENT RAIL OR BRIDGE END RAIL SHALL BE SUFFICIENTLY WIDE TO PROVIDE A BREAK IN POINT BEHIND THE BACK OF POST BEFORE THE SLOPE.
- TYPE DETAILS AND LIMITS OF GUARDRAIL BRIDGE END SECTION WILL BE SHOWN ELSEWHERE ON THE PLANS.
- W 5 SHOULDER WIDTH & FORESLOPE WIDTH DIMENSIONS FOUND ELSEWHERE ON THE PLANS.
- FOR DIVIDED HIGHWAYS WITH THREE OR MORE LANES IN ONE DIRECTION, THE MEDIAN BARRIER MAY REQUIRE A TAPER RATE OTHER THAN 25:1.

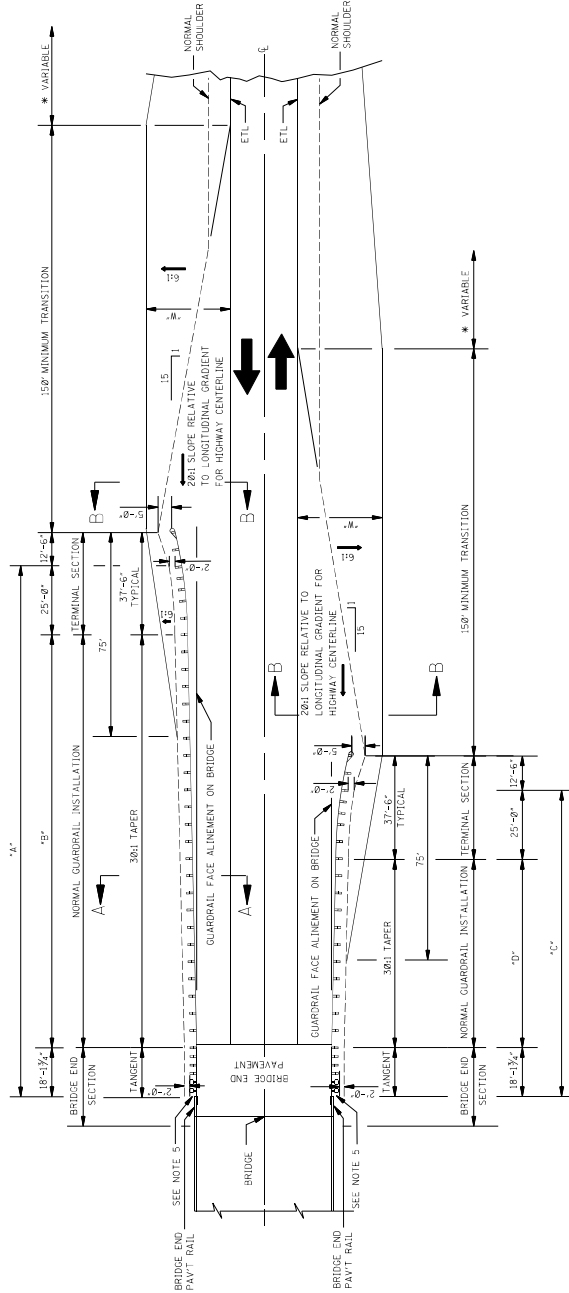
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>GUARDRAIL: TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR DIVIDED HIGHWAYS</b>	
DATE	REVISION
ISSUE DATE: MAY 01, 2017	
SHEET NUMBER CR-4	0214

**DIVIDED HIGHWAY WITH BARRIER INSIDE CLEAR ZONE OF OPPOSING TRAFFIC**  
\* NOTE: THE 25° LINE IS USED TO DETERMINE THE LIMITS OF MEDIAN BARRIER AS SHOWN.

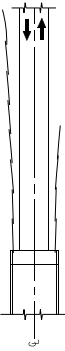
**DIVIDED HIGHWAY WITH BARRIER OUTSIDE CLEAR ZONE OF OPPOSING TRAFFIC**

STATE	PROJECT NO.
MISS.	

\* NOTE: IF FORESLOPE, SHOWN ELSEWHERE ON THIS DRAWING, TRANSITION WILL OCCUR IN AREA SHOWN.



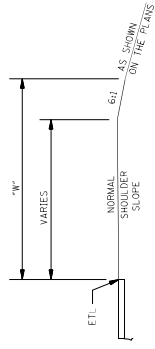
PLAN



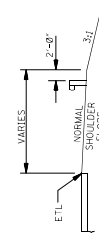
DETAIL OF GUARDRAIL SECTION LAPS

GENERAL NOTES:

- VALUES FOR "A", "B", "C" AND "D" WILL BE SHOWN ELSEWHERE ON THE PLANS.
- FOR DETAILS PERTAINING TO INSTALLATION OF THE TERMINAL SECTION, SEE MANUFACTURER'S SPECIFICATIONS AND DRAWINGS OR ELSEWHERE ON PLANS.
- GUARDRAIL SECTIONS ARE TO BE LAPPED IN THE DIRECTION OF TRAFFIC APPROACHING THE BRIDGE.
- THE OVERALL LENGTH OF GUARDRAIL IS MEASURED FROM THE CONNECTING END ON THE BRIDGE.
- IN THE ABSENCE OF A BRIDGE END PAVEMENT RAIL, CONNECT THE BRIDGE END PAVEMENT RAIL TO THE BRIDGE END PAVEMENT RAIL OR GR-202. THE SHOULDER WIDTH AT THE BRIDGE END PAVEMENT RAIL OR BRIDGE END RAIL SHALL BE SUFFICIENTLY WIDE TO PROVIDE A MINIMUM OF 2'-0" BEHIND THE BACK OF POST BEFORE THE SLOPE BREAK (HINGEPOINT).
- TYPE, DETAILS AND LIMITS OF GUARDRAIL BRIDGE END SECTION WILL BE SHOWN ELSEWHERE ON THE PLANS.
- W = SHOULDER WIDTH + FORESLOPE WIDTH, DIMENSIONS FOUND ELSEWHERE ON THE PLANS.



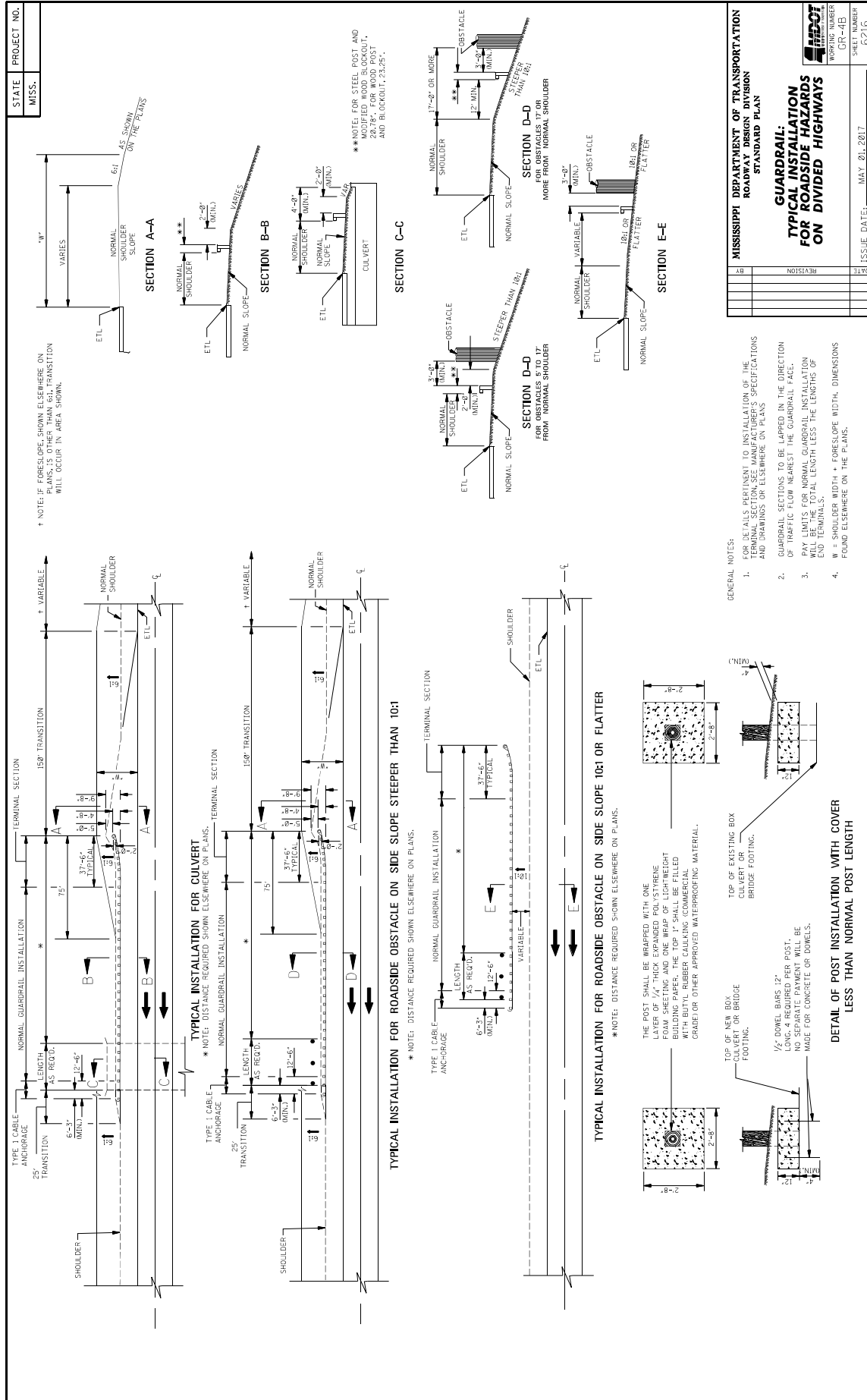
SECTION B-B



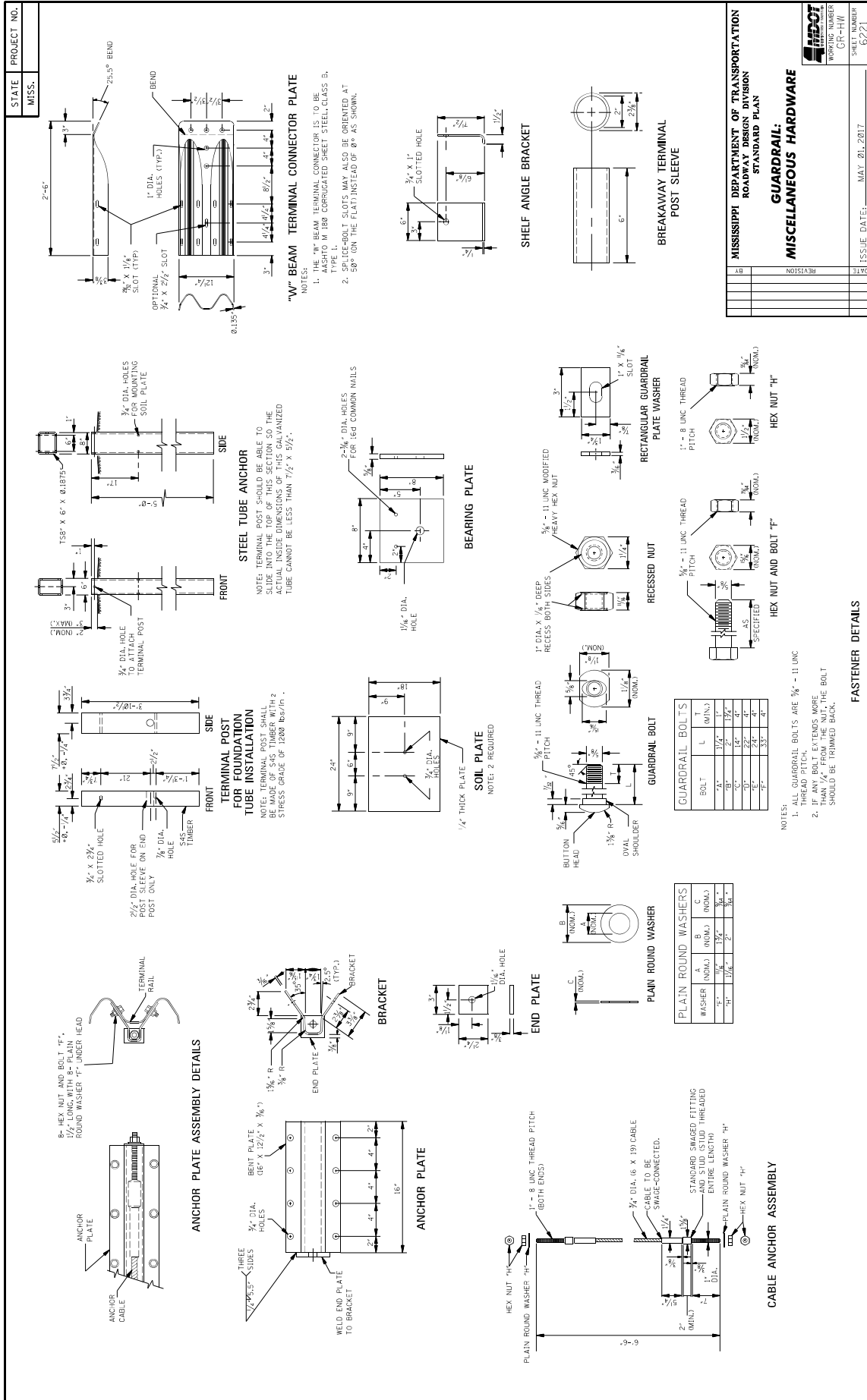
SECTION A-A

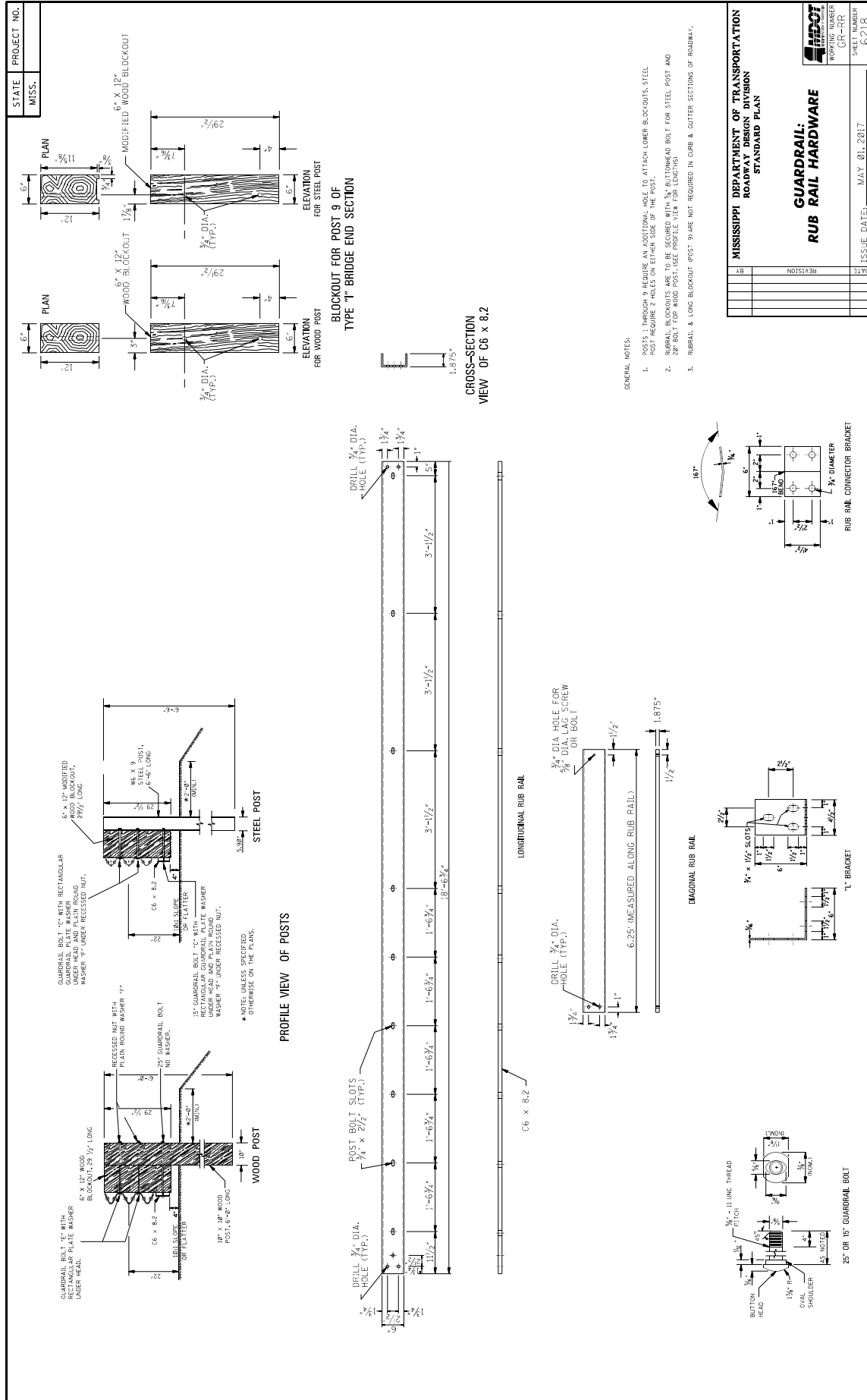
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>GUARDRAIL: TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR 2-LANE, 2-WAY HIGHWAY</b>	
WORKING NUMBER	CR-41A
SHEET NUMBER	0215
DATE	MAY 01, 2017
ISSUE DATE:	
REVISION	











STATE MISS.	PROJECT NO.
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**GRAPHIC SHOWING SPACINGS OF GUARDRAIL DELINEATORS  
AT SOME COMMONLY USED BRIDGE APPROACHES**

**EMBANKMENT OR ROADSIDE OBSTACLE INSTALLATION—LENGTH GREATER THAN 250'**

NOTE: ONE-WAY TRAFFIC SHOWING DELINEATOR SPACING FOR TWO-WAY TRAFFIC SIMILAR. DELINEATOR COLOR WILL BE THE SAME AS THE ADJACENT PAVEMENT EDGE MARKING. THE FIRST THREE DIMENSIONERS WILL FACE TRAFFIC IN OFF-LANE FOR TWO-WAY TRAFFIC AS SHOWN IN DRAWING FOR OBSTACLE INSTALLATION FOR TWO-WAY TRAFFIC.

**BRIDGE APPROACH INSTALLATION  
(TWO-WAY TRAFFIC)**

**ROADSIDE OBSTACLE INSTALLATION—LENGTH 250' OR LESS  
(TWO-WAY TRAFFIC)**

**BRIDGE APPROACH INSTALLATION  
(ONE-WAY TRAFFIC)**

**ROADSIDE OBSTACLE INSTALLATION—LENGTH 250' OR LESS  
(ONE-WAY TRAFFIC)**

**TYPICAL FLEXIBLE POST DELINEATOR  
GUARDRAIL INSTALLATION**

**DETAIL OF FLEXIBLE  
GUARDRAIL DELINEATOR**

**GENERAL NOTES:**

- THE UNIT PRICE OF DELINEATOR (INCLUDES COSTS) OF DELINEATOR FACE(S), POST, HARDWARE AND INSTALLATION.
- DELINEATOR FACE WILL BE ENCAPSULATED LENS REFLECTIVE SHEETING.
- DELINEATORS FOR GUARDRAIL SHALL BE MOUNTED ON FLEXIBLE POSTS AS FOLLOWS: THE DELINEATOR POSTS WILL BE FROM THE DEPARTMENT'S "APPROVED SOURCE OF MATERIALS" AND WILL BE FASTENED TO GUARDRAIL POST IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

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

**TYPICAL GUARDRAIL  
DELINEATOR**

REV	REVISION	DATE

ISSUE DATE: MAY 01, 2017  
SHEET NUMBER: SN-8C  
8311

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

**CODE: (SP)**

**DATE: 09/12/2017**

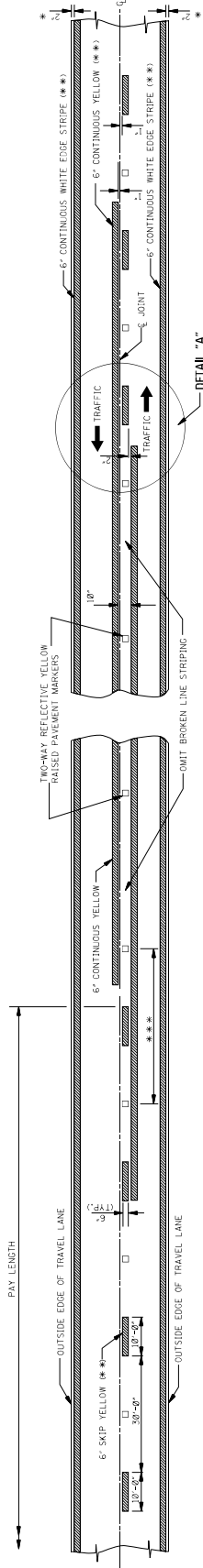
**SUBJECT: Standard Drawings**

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

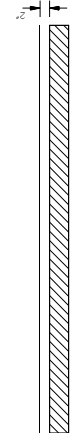
Larger copies of Standard Drawings may be purchased from:

MDOT Plans Print Shop  
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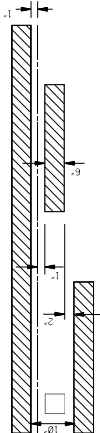
STATE	PROJECT NO.
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TWO-WAY TRAFFIC  
(ASPHALT OR CONCRETE PAVEMENT)



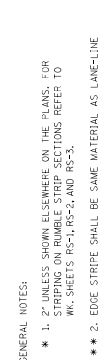
TRAFFIC ←



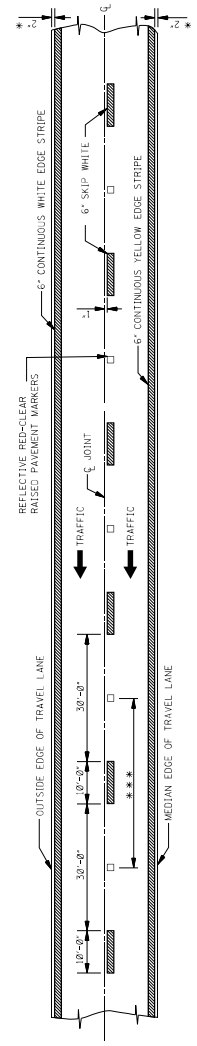
TRAFFIC →

DETAIL "A"

TRAFFIC ←



4-LANE WITH ONE-WAY TRAFFIC



NOTE: THE CRITERIA FOR NO-PASSING ZONES CAN BE FOUND IN THE MOOT ROADWAY DESIGN MANUAL, SECTION 11-1.01.

GENERAL NOTES:

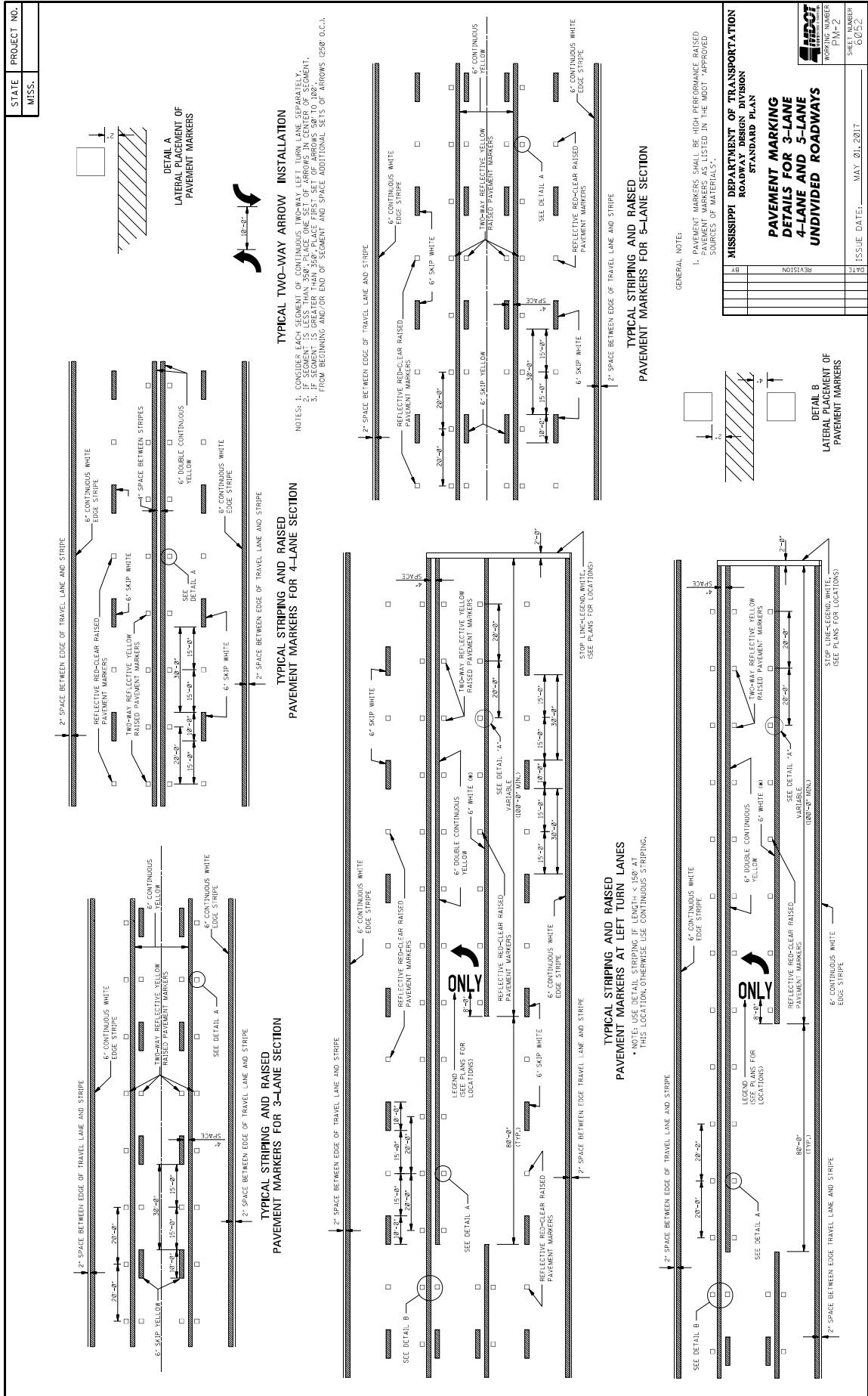
- \* 1. UNLESS SHOWN ELSEWHERE ON THE PLANS, FOR ALL PAVERS AND PLASTICS REFER TO THE SPECIFICATIONS AND REFER TO THE SHEETS RS-1, RS-2, AND RS-3.
- \*\* 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPING AND BE IDENTIFIED IN PAY ITEMS.
- \*\*\* 3. SOURCE OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS:

TANGENT SECTIONS	HORIZONTAL CURVES	INTERCHANGE LIMITS	URBAN AREA
40'-90'	40'-90'	40'-90'	40'-110'
80'-90'	80'-90'	80'-90'	80'-90'
140'-90'	140'-90'	140'-90'	140'-90'

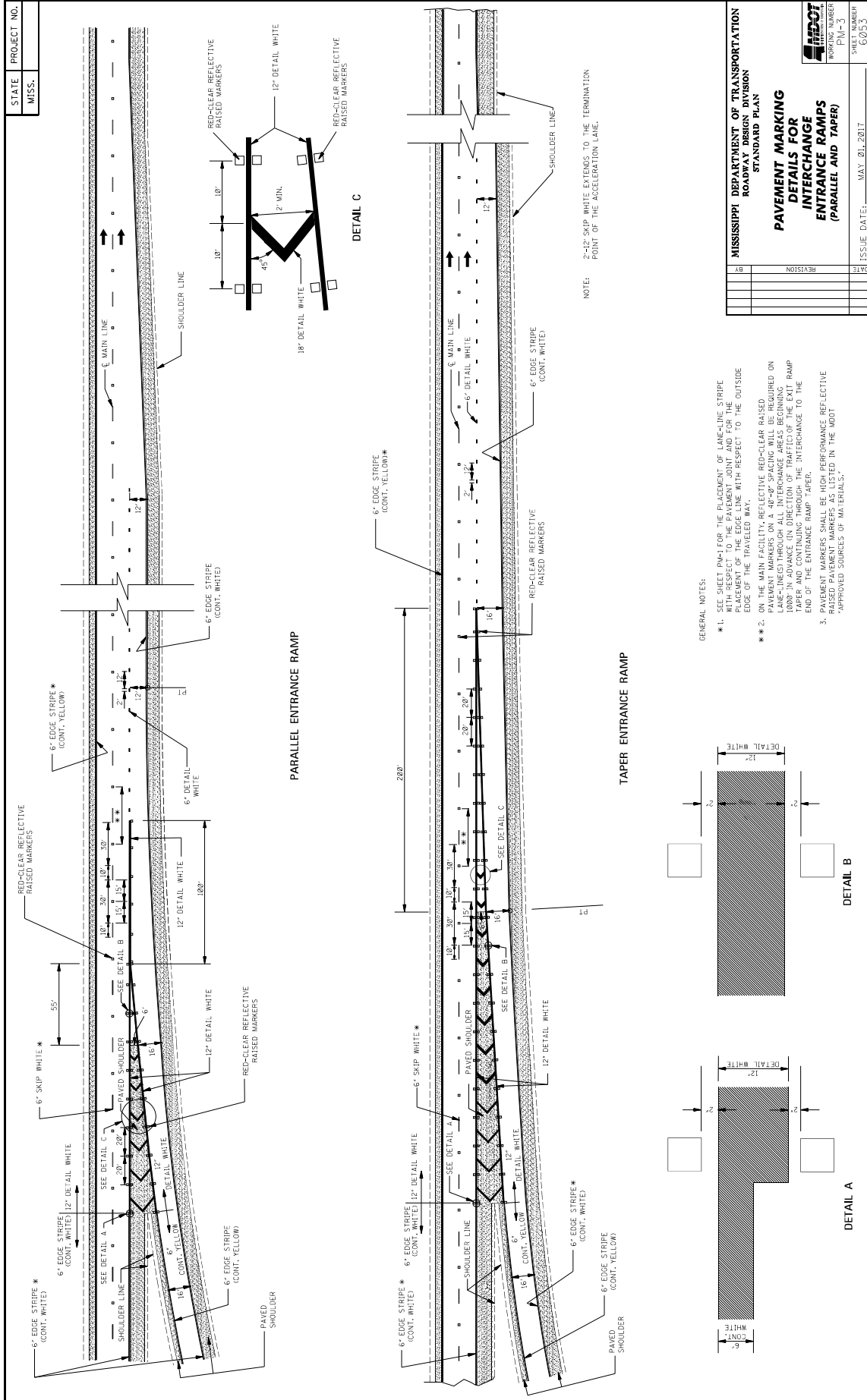
\* NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-90' SPACING WILL BE REQUIRED ON LANE-LINES THROUGH ALL INTERCHANGE AREAS BEGINNING 100' BEFORE THE INTERCHANGE AND ENDING 100' AFTER THE RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER.

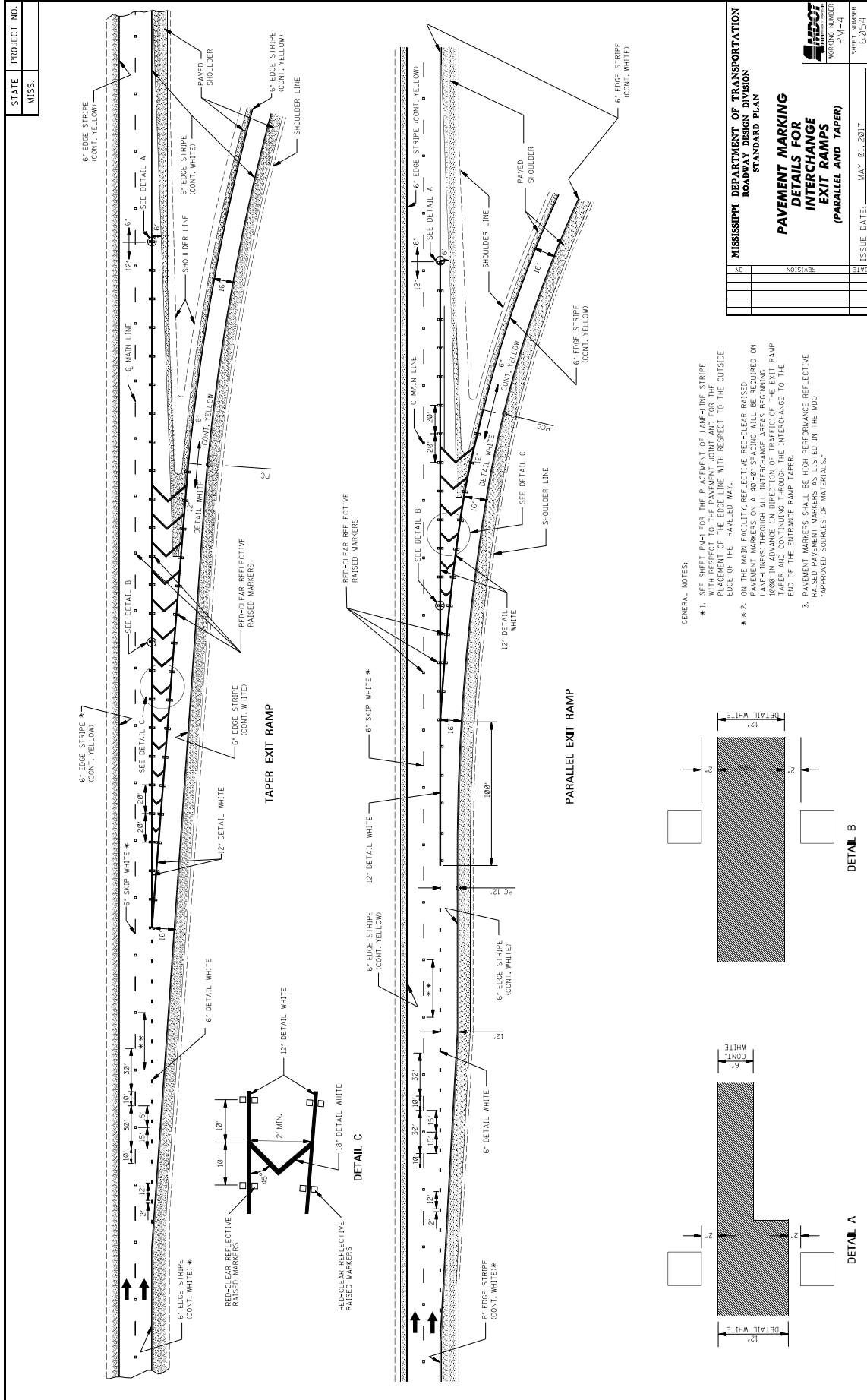
4. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MOOT 'APPROVED SOURCES OF MATERIALS.'

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>PAVEMENT MARKING DETAILS FOR 2-LANE AND 4-LANE DIVIDED ROADWAYS</b>	
DATE	REVISION
ISSUE DATE:	MAY 01, 2017
SHEET NUMBER	6031
WORKING NUMBER	PM-1





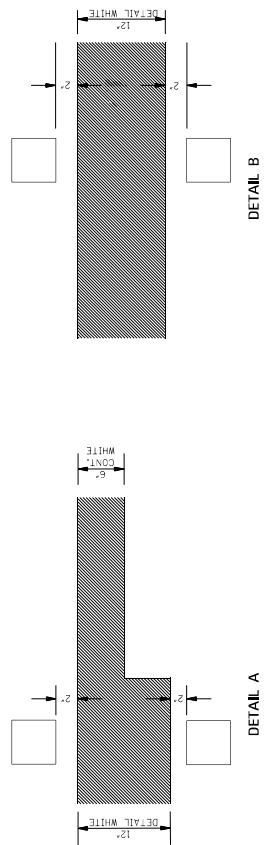




STATE	PROJECT NO.
MISS.	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>PAVEMENT MARKING DETAILS FOR INTERCHANGE EXIT RAMP (PARALLEL AND TAPER)</b>	
WORKING NUMBER	SHEET NUMBER
PM-4	602/5-1
DATE	ISSUE DATE
	MAY 01, 2017

- GENERAL NOTES:
- \*\* 1. SEE SHEET PM-1 FOR THE PLACEMENT OF LANE-LINE STRIPE WITH RESPECT TO THE PAVEMENT JOINT AND FOR THE PLACEMENT OF PAVED SHOULDER WITH RESPECT TO THE OUTSIDE EDGE OF MAIN CARRIAGEWAY.
  - \*\* 2. EDGE OF MAIN CARRIAGEWAY REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINES THROUGH ALL INTERCHANGE AREAS BEGINNING 1000' IN ADVANCE IN DIRECTION OF TRAFFIC OF THE EXIT RAMP TAPER AND CONTINUING THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER.
  - 3. RAISED PAVEMENT MARKERS BE HIGH PERFORMANCE REFLECTIVE 'APPROVED SOURCES OF MATERIALS.'



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

- TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTIONS) OF 1/2" LESS THAN THE STEMMING LETTERS SHALL BE SHOWN IN THE STEMMING LETTERS.
- 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
TRUCK	24.2
TRUCK	24.2
AHEAD	32.3
YIELD	26.8
EXIT	18.5
SIGNAL	32.5
SCHOOL	35.5

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

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**PAVEMENT MARKING  
LEGEND DETAILS**

	DATE	REVISION	BY	

ISSUE DATE: MAY 01, 2017

SHEET NUMBER: PM-5

WORKING NUMBER: 60355

STATE MISS.	PROJECT NO.	
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**TURN ARROW**

**THRU ARROW**

**LANE-REDUCTION ARROW**

**COMBINATION ARROW**

**ONLY**

**YIELD LINE**

**1-WAY ARROW**

**GENERAL NOTES:**

- TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTORS OF 1/16" OR LESS AND EXTENDING THE FULL WIDTH) ARE PERMITTED IN EACH LETTER.
- FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- DIMENSIONS OF THE YIELD LINE MAY VARY WITH APPROVAL OF THE ENGINEER. SEE MUTCD, LATEST EDITION, FOR ALLOWABLE DIMENSIONS.
- PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

PAY QUANTITIES	
LEGEND/SYMBOL	AREA (FT <sup>2</sup> )
ONLY	22.0
TURN ARROW	16.4
THRU ARROW	12.3
COMB. ARROW	27.5
1-WAY ARROW	24.3
LANE REDUCTION ARROW	40.0

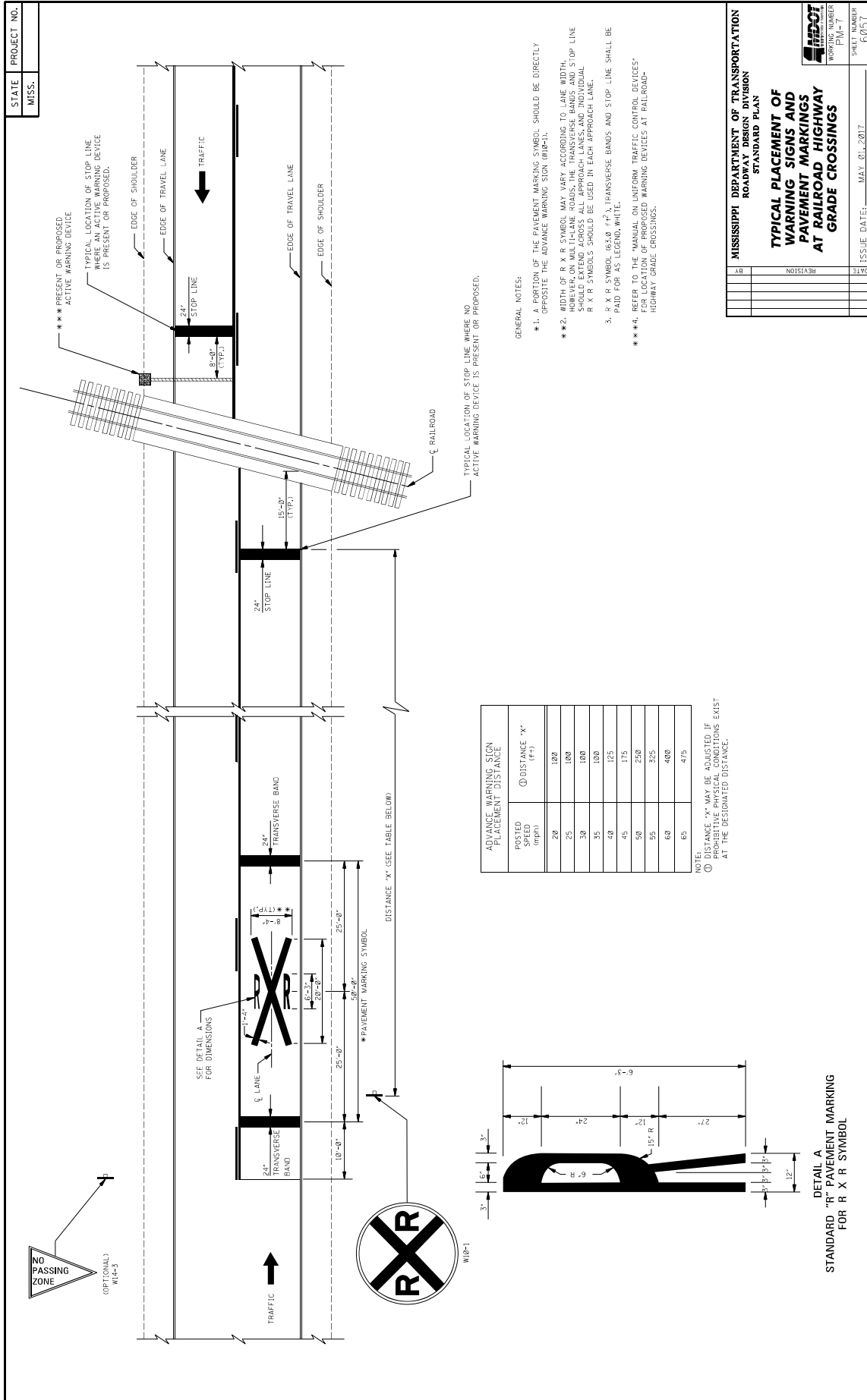
  

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

**PAVEMENT MARKING**  
**LEGEND DETAILS**

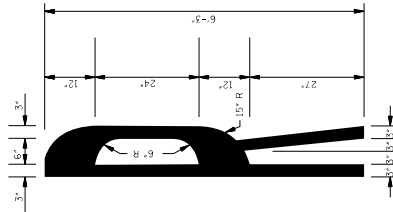
WORKING NUMBER: PM-6  
SHEET NUMBER: 60/56

ISSUE DATE: MAY 01, 2017



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 (W10-1).
  - \*\* 2. WIDTH OF R X R SYMBOL MAY VARY ACCORDING TO LANE WIDTH. SYMBOL SHOULD EXTEND ACROSS ALL APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.
  - 3. R X R SYMBOL (63.8 #1) 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.

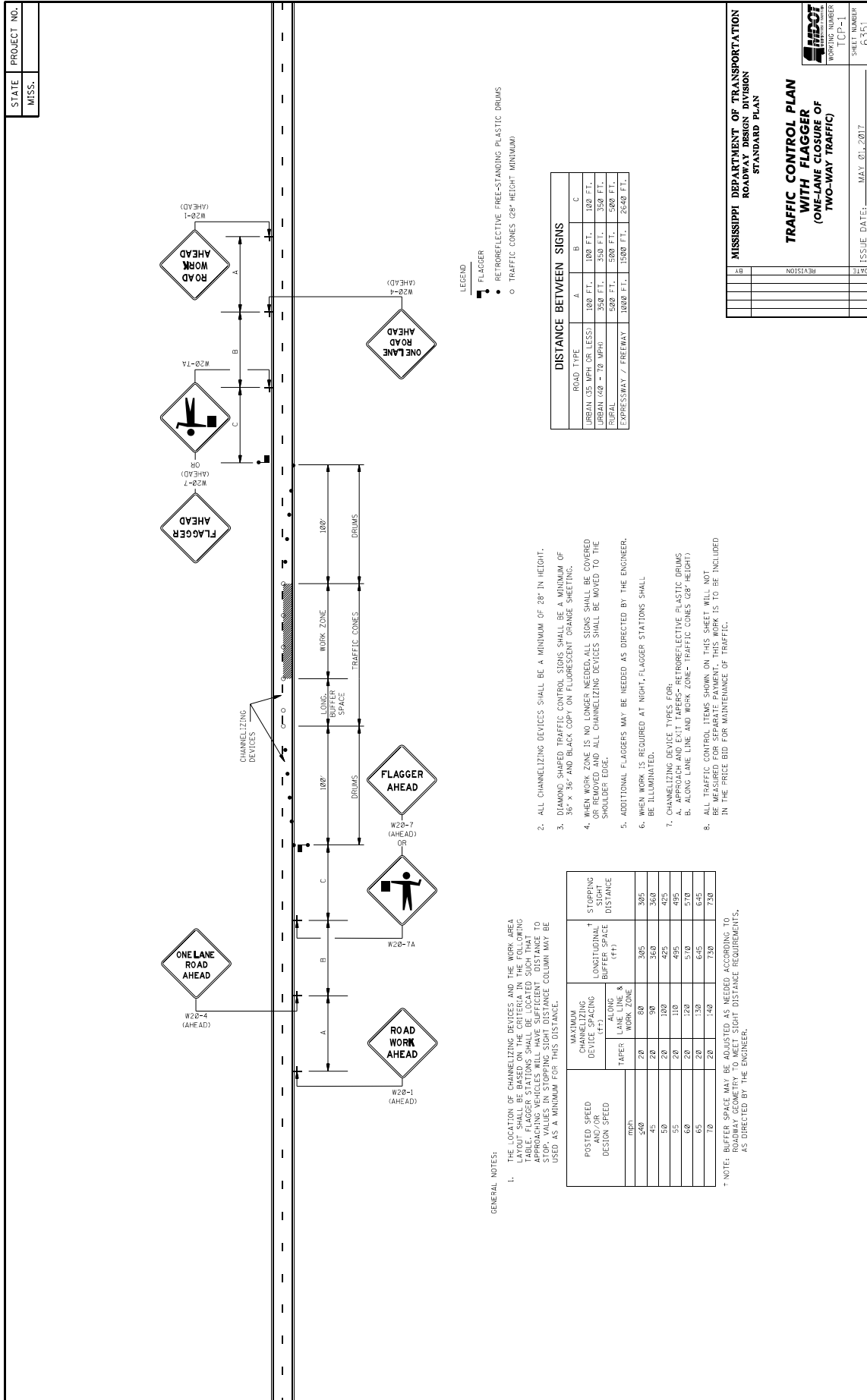
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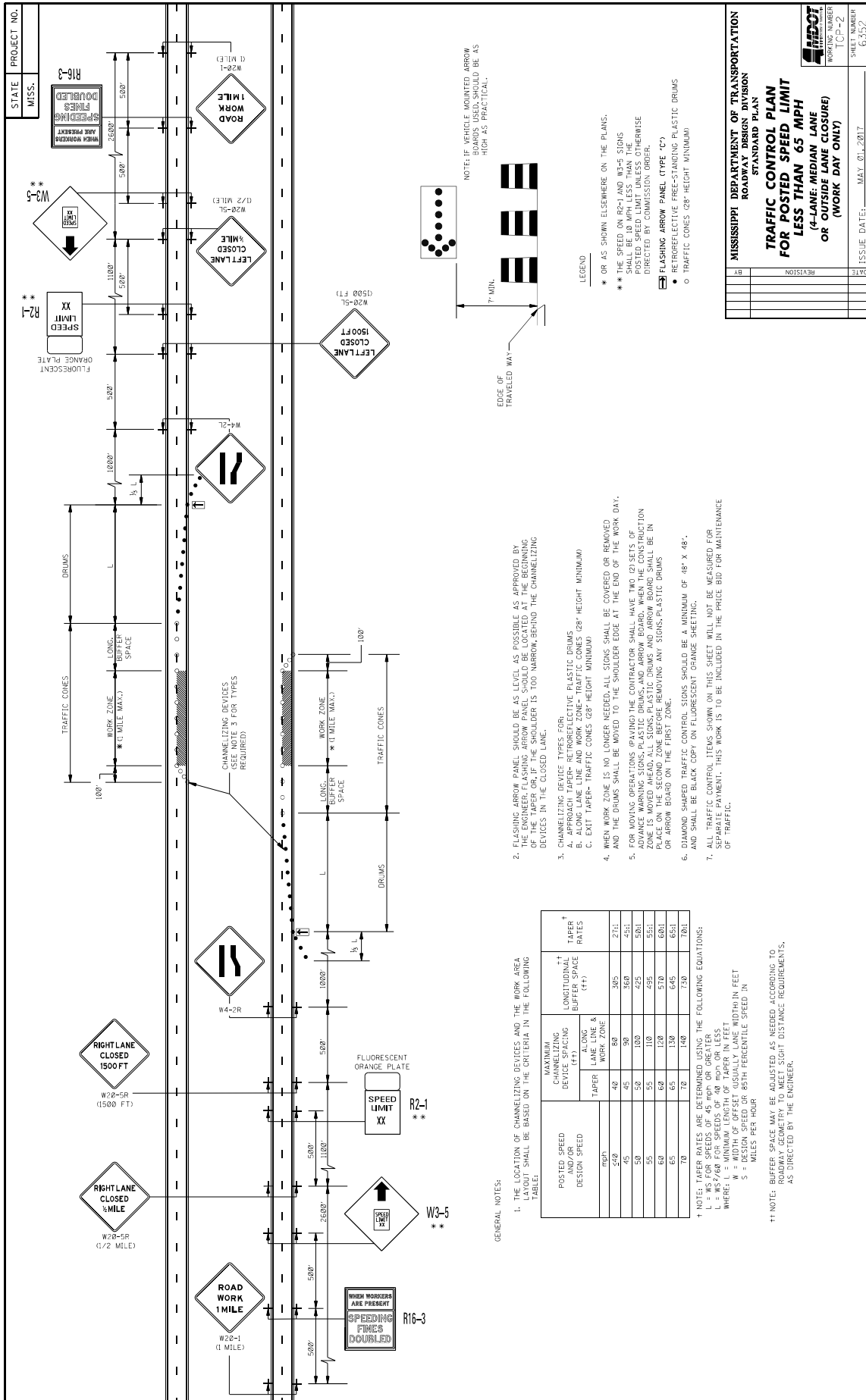
MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

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

WORKING NUMBER: P10-1  
SHEET NUMBER: 6031

ISSUE DATE: MAY 01, 2017





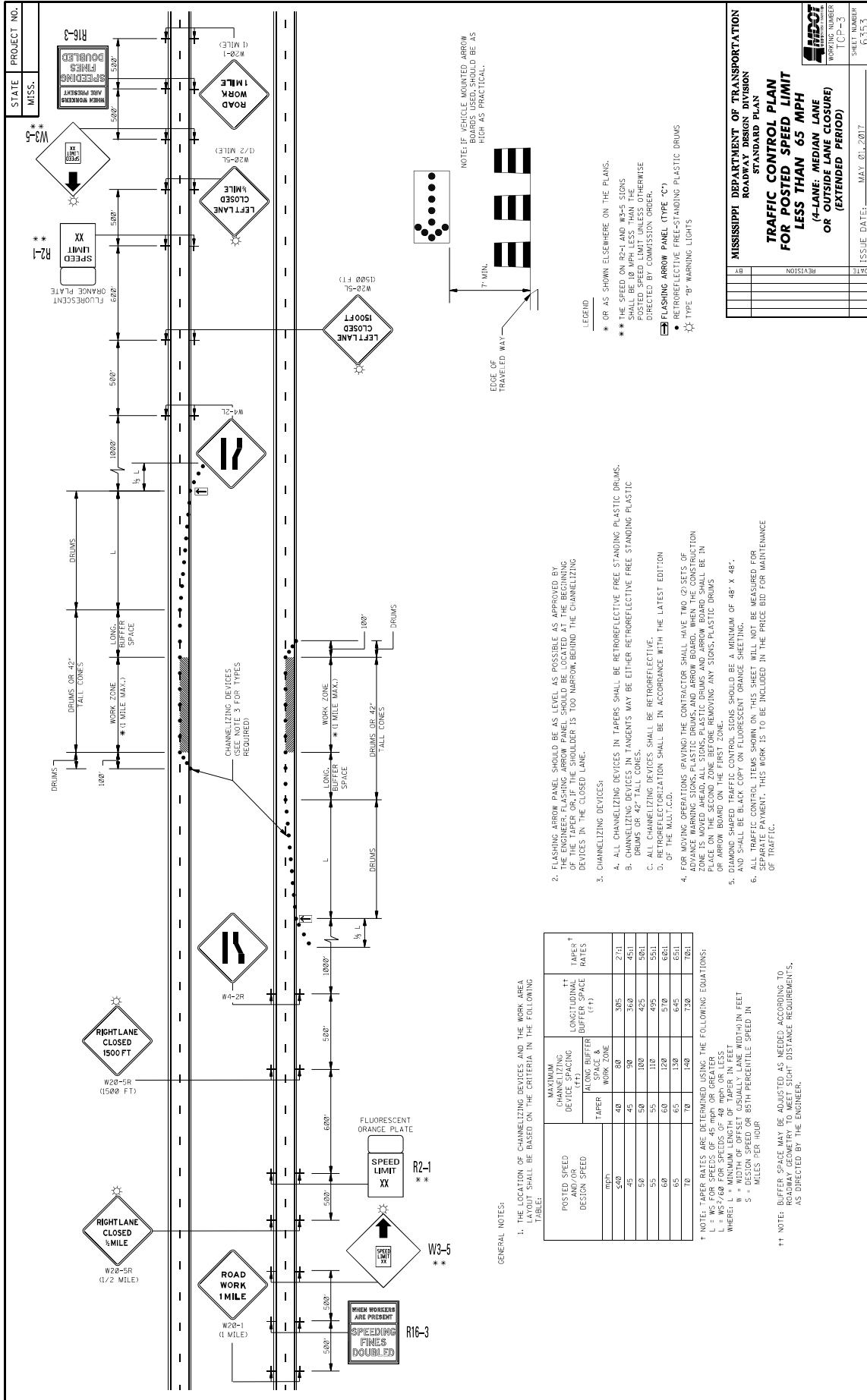
**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

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

WORKING NUMBER: TPC-2  
SHEET NUMBER: 6352

ISSUE DATE: MAY 01, 2017

DATE	REVISION



GENERAL NOTES:

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 (MPH)	MAXIMUM CHANNELIZING DEVICES SPACING (FEET)		TAPER (ALONG BUFFER WORK ZONE)	LONGITUDINAL BUFFER SPACE (FEET)	TAPER RATES (PERCENT)
	ALONG BUFFER	WORK ZONE			
40	40	80	30	305	2.5
45	45	90	30	360	4.5
50	50	100	30	425	5.0
55	55	110	30	495	5.5
60	60	120	30	570	6.0
65	65	130	30	645	6.5
70	70	140	30	730	7.0
75	75	150	30	825	7.5

† TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:

L = 45 FOR SPEEDS OF 45 MPH OR GREATER  
 L = 45/60 FOR SPEEDS OF 40 MPH OR LESS  
 WHERE: N = 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. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE WORK ZONE. THE BUFFER SHOULD BE 100' AHEAD OF THE CHANNELIZING DEVICES IN THE CLOSED LANE.

3. CHANNELIZING DEVICES:

- A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
- B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.

C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.

D. RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD.

4. FOR TAPERING (WORK ZONE) TAPERS THE CONTRACTOR SHALL HAVE TWO (2) FEET OF CHANNELIZING DEVICES (FREE STANDING PLASTIC DRUMS OR 42" TALL CONES) AT THE BEGINNING OF THE WORK ZONE. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.

5. ALL CHANNELIZING DEVICES SHOULD BE A MINIMUM OF 48" X 48" AND SHOULD BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.

6. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

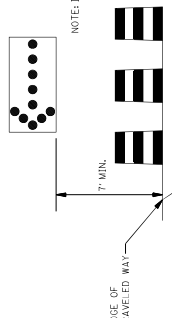
\* OR AS SHOWN ELSEWHERE ON THE PLANS.

\*\* THE SPEED ON R2-1 AND R2-2 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

LEGEND

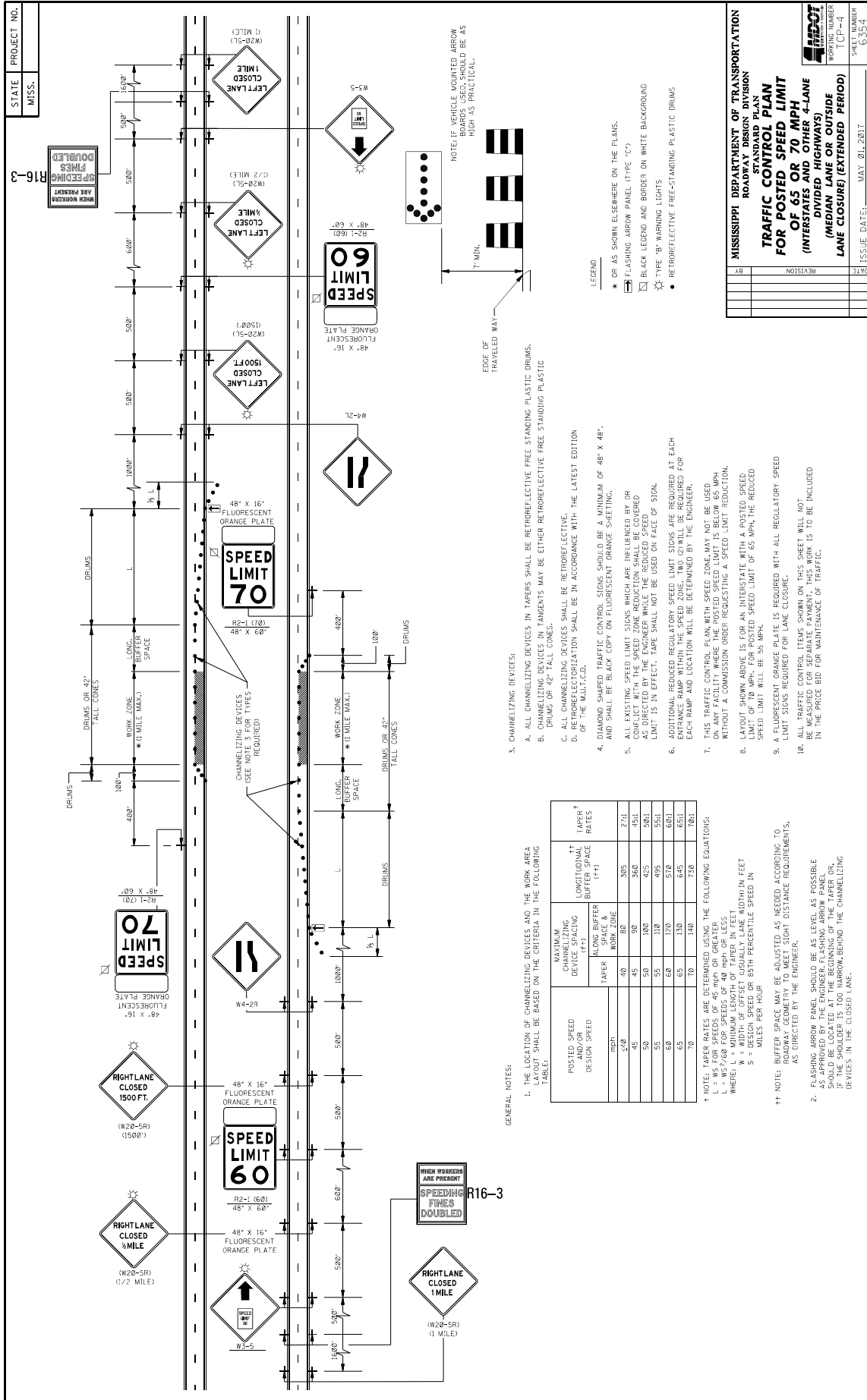


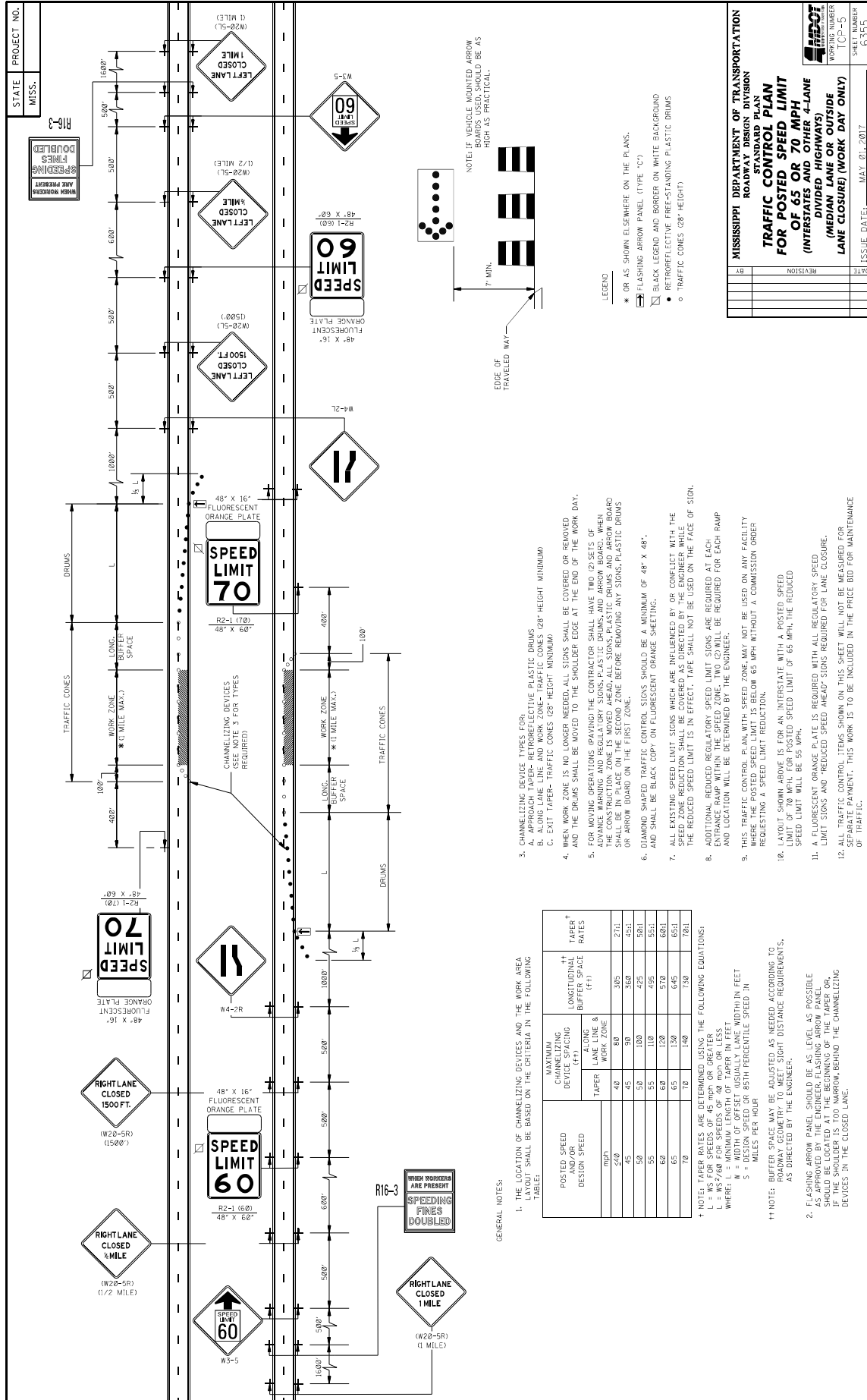
MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
 ROADWAY DESIGN DIVISION  
 STANDARD PLAN  
**TRAFFIC CONTROL PLAN  
 FOR POSTED SPEED LIMIT  
 LESS THAN 65 MPH  
 (4-LANE, MEDIAN LANE  
 OR OUTSIDE LANE CLOSURE  
 (EXTENDED PERIOD))**

WORKING NUMBER: TCP-3  
 SHEET NUMBER: 6353

ISSUE DATE: MAY 01, 2017







**GENERAL NOTES:**

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
- | POSTED SPEED AND/OR DESIGN SPEED (MPH) | MAXIMUM CHANNELIZING DEVICE SPACING (FT) |           | LONGITUDINAL BUFFER SPACE (FT) | TAPER RATES |
|--|--|-----------|--------------------------------|-------------|
|  | LANE LINE & WORK ZONE                    | WORK ZONE |                                |             |
| 45                                     | 40                                       | 80        | 305                            | 27:1        |
| 50                                     | 45                                       | 90        | 360                            | 45:1        |
| 55                                     | 50                                       | 100       | 425                            | 50:1        |
| 60                                     | 55                                       | 110       | 495                            | 55:1        |
| 65                                     | 60                                       | 120       | 570                            | 60:1        |
| 70                                     | 65                                       | 130       | 645                            | 65:1        |
| 75                                     | 70                                       | 140       | 730                            | 70:1        |
- † NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:  
 L = WS FOR SPEEDS OF 45 MPH OR GREATER  
 L = WS FOR SPEEDS OF 50 MPH OR GREATER  
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET  
 W = WIDTH OF OFFSET (USUALLY LANE WIDTH IN FEET)  
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR
- †† NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO LOCAL LIGHT DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.
2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AND SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR IF THE SHOULDER IS TOO NARROW BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

STATE PROJECT NO.  
MISS.

WORKING NUMBER  
ICP-6  
G350

**WING BARRICADES**

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

**PLASTIC DRUM STRIPING DETAIL**

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

**BARRICADE CLOSING A ROAD**

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

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

**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 6 IF FACING TRAFFIC IN TWO DIRECTIONS

**STANDARD BARRICADES**

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

**CHEVRON SIGN DETAIL**

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

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

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

**PLASTIC DRUM STRIPING DETAIL**

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

**WING BARRICADES**

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

**BARRICADE CLOSING A ROAD**

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

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

**STANDARD BARRICADES**

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

**CHEVRON SIGN DETAIL**

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

**PLASTIC DRUM STRIPING DETAIL**

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

STATE MISS.	PROJECT NO.	
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### MOBILE OPERATIONS ON MULTILANE ROAD

#### NOTES FOR MULTILANE LANE OPERATION:

1. VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLASHS, SIGNS, OR ARROW PANELS.
2. SHADOW VEHICLE 2 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA), AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE LEGIBLY MOUNTED ON SHADOW VEHICLE 2 SO AS NOT TO OBSCURE THE ARROW PANEL.
3. SHADOW VEHICLE 1 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK-MOUNTED ATTENUATOR (TMA).
4. 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.
5. WHEN ADEQUATE SHOULDER WIDTH IS NOT AVAILABLE, SHADOW VEHICLE 2 SHOULD BE ELIMINATED.
6. 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).
7. ARROW PANELS SHALL BE AS A MINIMUM TYPE B, 60" X 30" IN ACCORDANCE WITH THE CRITERIA PRESENTED IN THE MUTCO.
8. WORK SHOULD NORMALLY BE DONE DURING OFF-PEAK HOURS.
9. 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 OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
10. 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.

### MOBILE OPERATIONS ON TWO-LANE ROAD

#### NOTES FOR TWO-LANE OPERATION:

1. 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.
2. 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 IS NOT MAINTAINED, SHADOW VEHICLES SHOULD BE USED. 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.
3. 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.
4. A. TRUCK-MOUNTED ATTENUATOR (TMA) SHOULD BE USED ON THE SHADOW VEHICLE AND MAY BE USED ON THE WORK VEHICLE.
5. THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS, AND THE SHADOW VEHICLE SHALL BE EQUIPPED WITH BEACONS. HIGH-BEAM LIGHTS AND WORK 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.
6. 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 OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
7. ARROW BOARD TO BE USED IN CAUTION MODE.
8. 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.

REV	REVISION	DATE

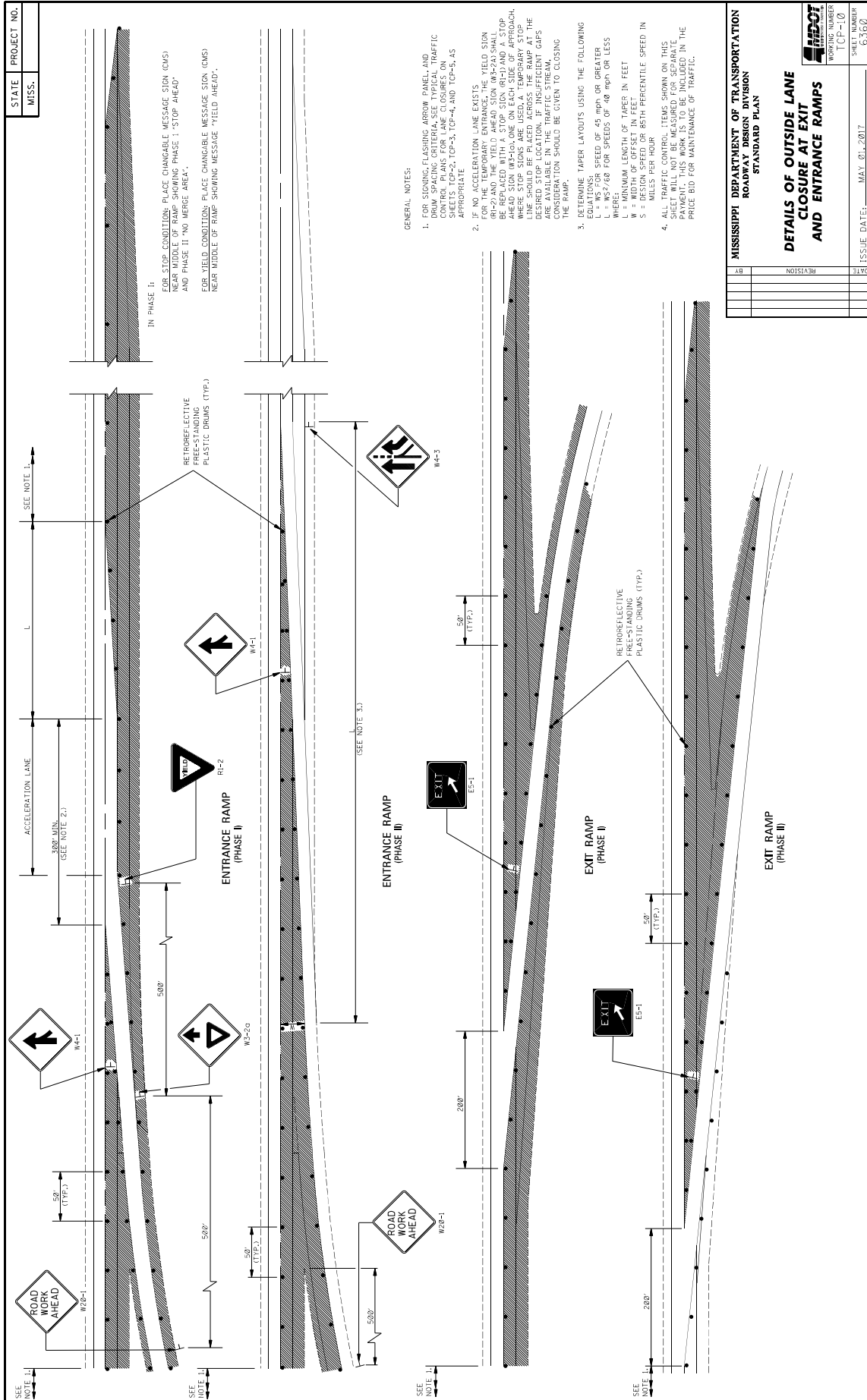
**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

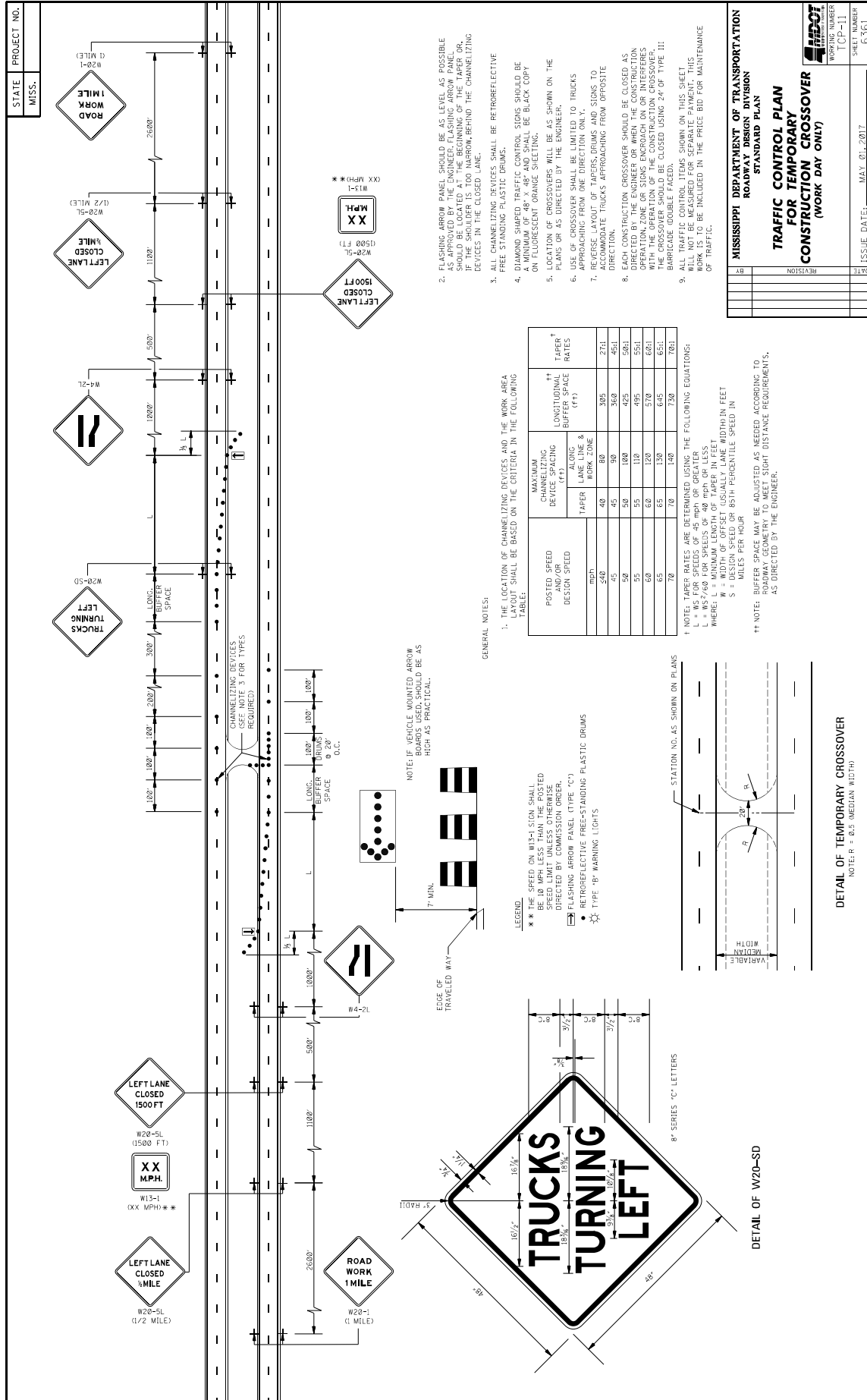
**TRAFFIC CONTROL PLAN**  
**MOBILE OPERATIONS**  
**MULTILANE ROADS**  
**TWO-LANE ROADS**

ISSUE DATE: MAY 01, 2017

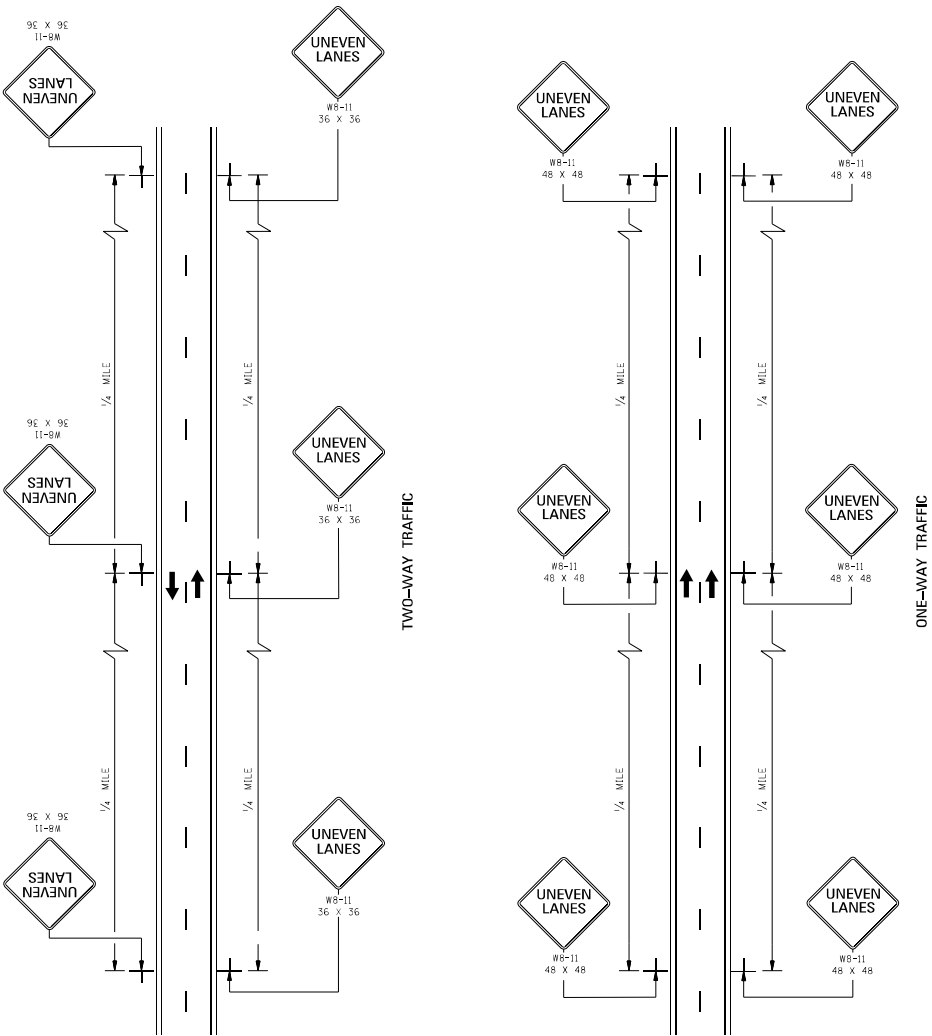
WORKING NUMBER  
TCP-9

SHEET NUMBER  
6339





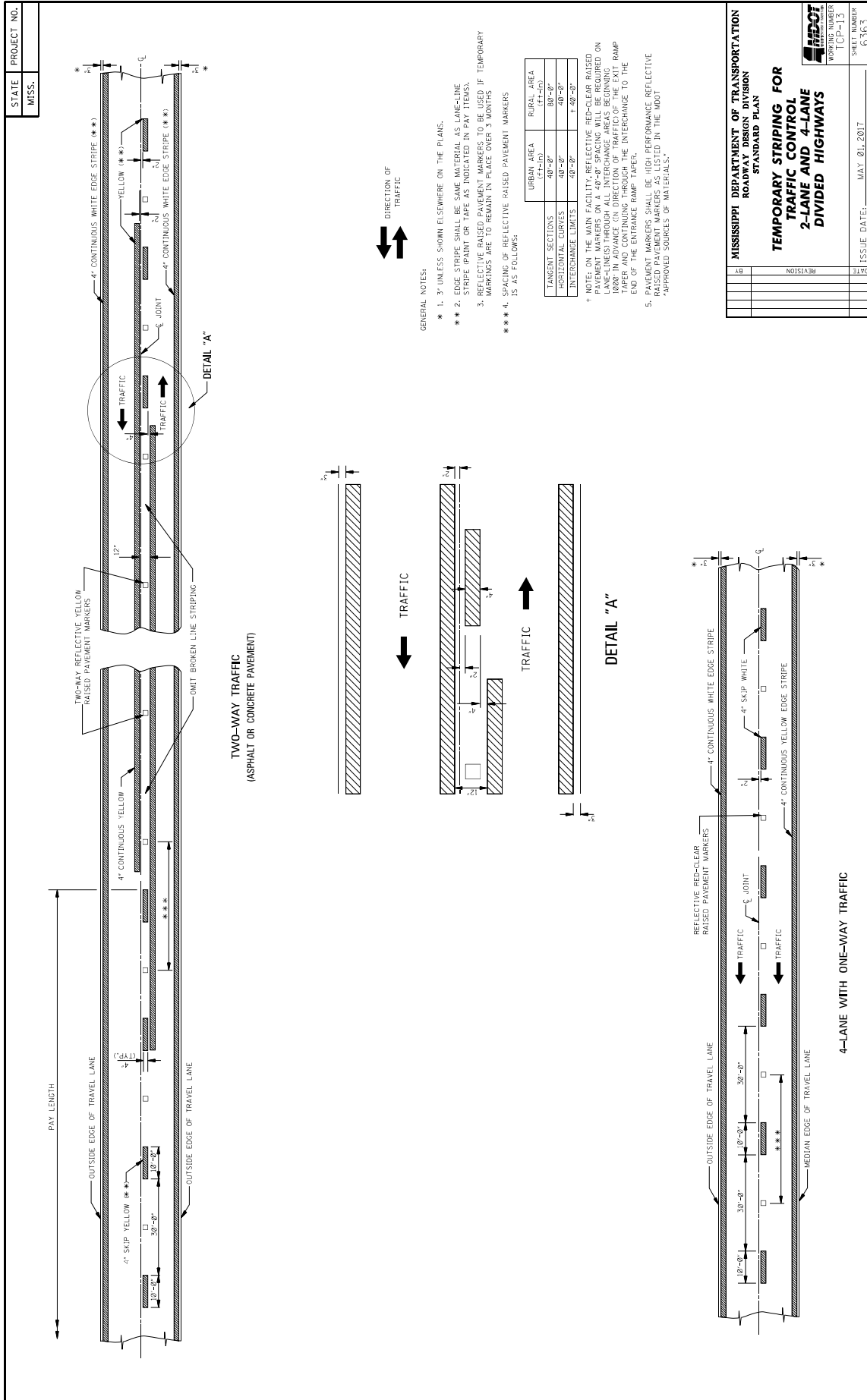
STATE	PROJECT NO.
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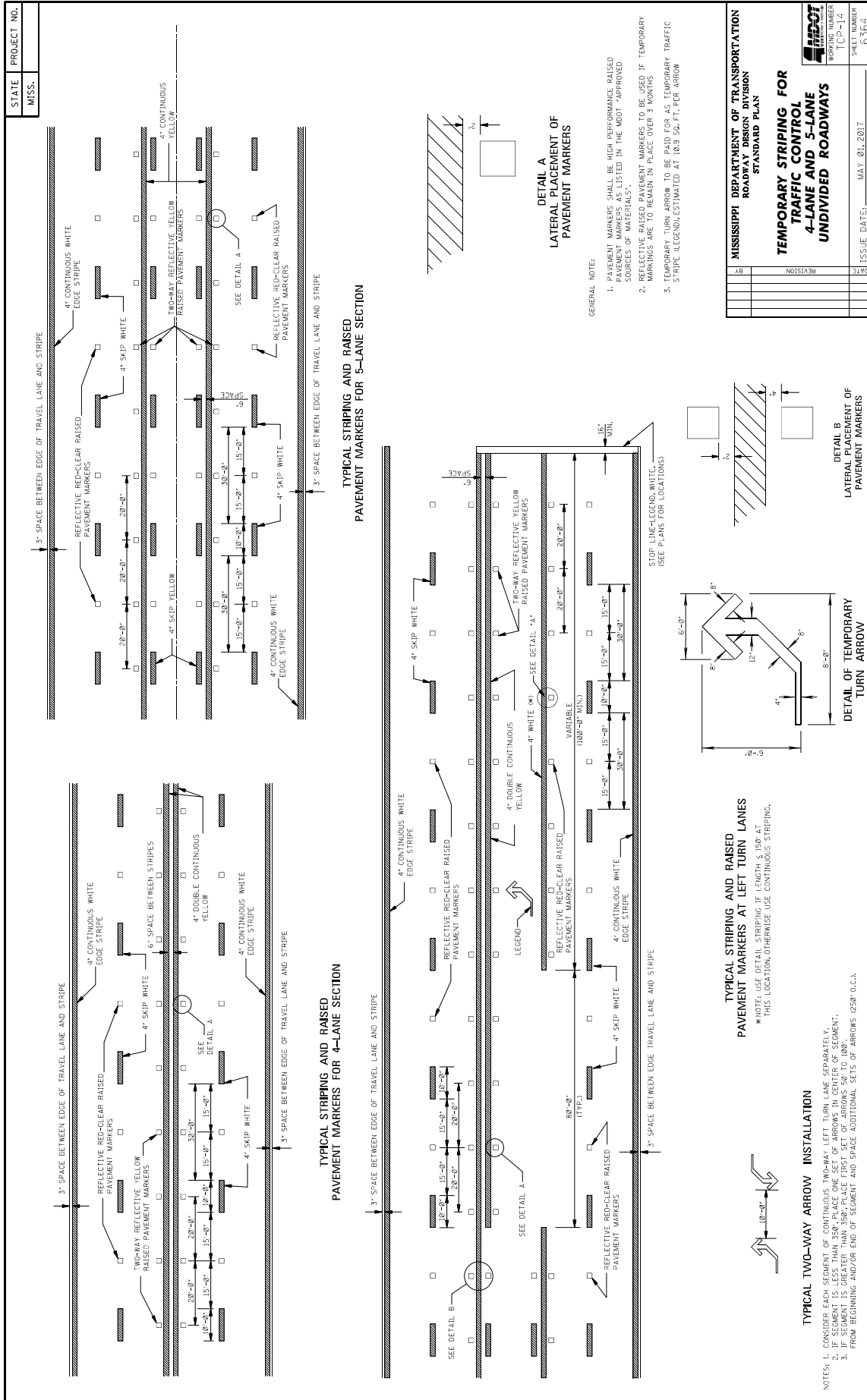
GENERAL NOTES:

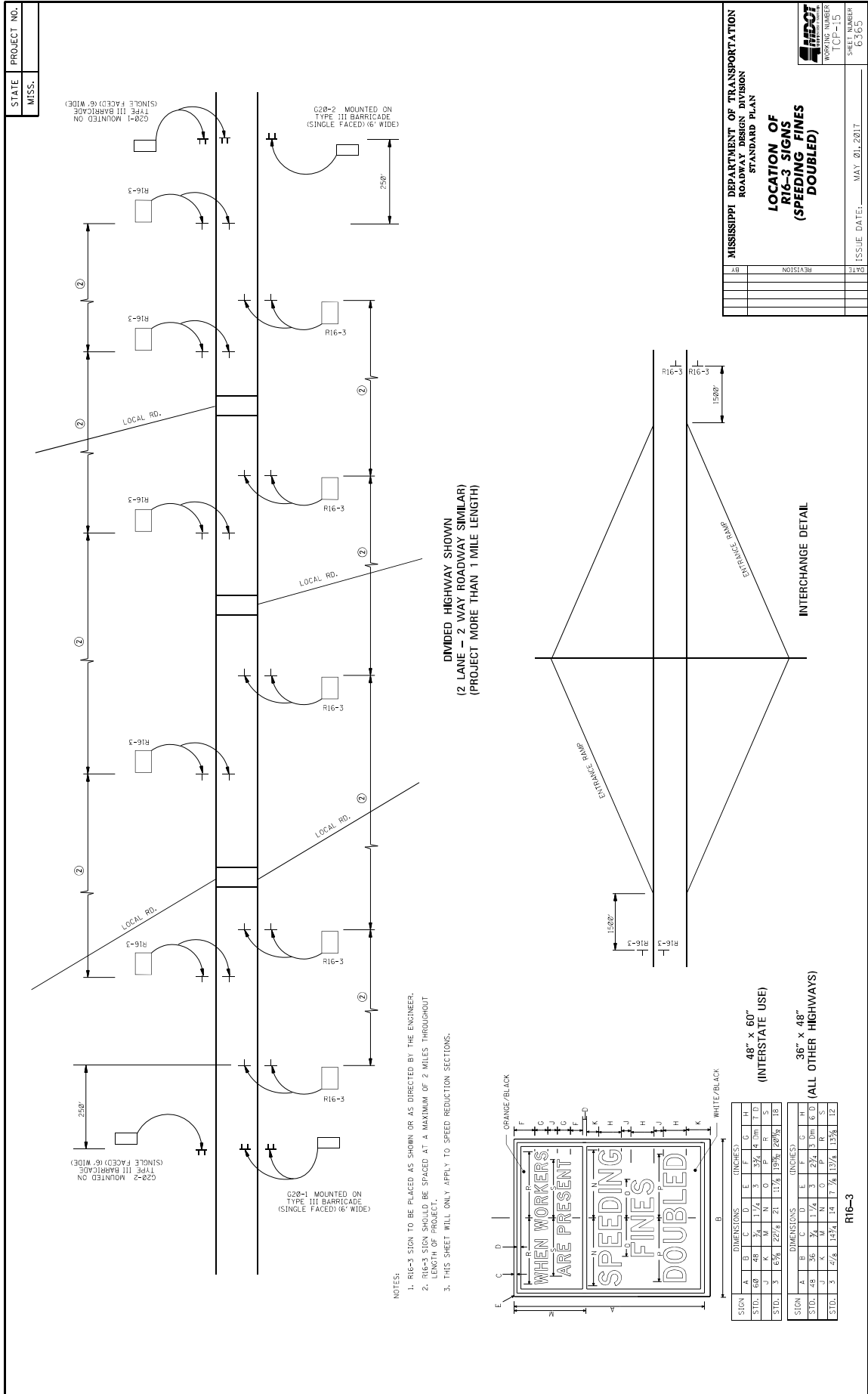
- UNEVEN LANE LINE.
  - IF LESS THAN OR EQUAL TO 1/4 MILE, NO SIGNS REQUIRED.
  - IF MORE THAN 1/4 MILE AND LESS THAN 1/2 MILE, PLACE SIGNS AS SHOWN ON THIS SHEET.
  - IF GREATER THAN 1/2 MILE, TRAFFIC SHOULD NOT BE ALLOWED TO CROSS UNEVEN LANE LINE.
- THE WB-11 SIGNS SHOULD BE SPACED AT 1/4-MILE INTERVALS THROUGHOUT UNEVEN LANE LINE LIMITS.
- ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>TRAFFIC CONTROL PLANS UNEVEN PAVEMENT DETAILS</b>	
WORKING NUMBER TCP-12	SHEET NUMBER 6362
DATE	ISSUE DATE: MAY 01, 2017
BY	REVISION



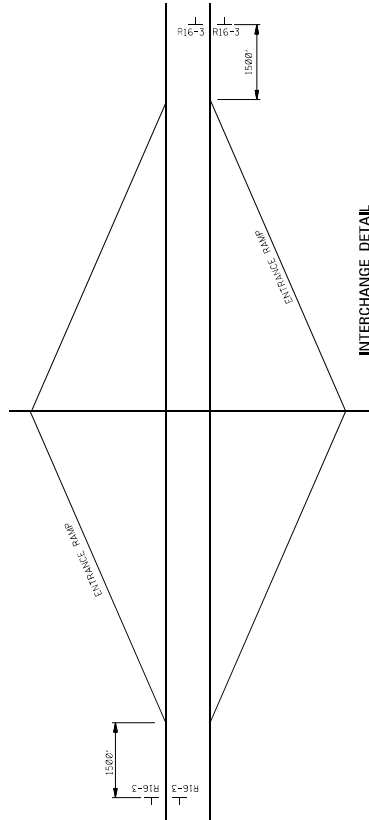




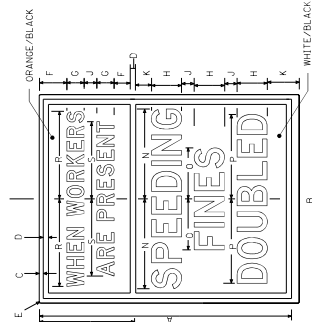


**DIVIDED HIGHWAY SHOWN  
(2 LANE - 2 WAY ROADWAY SIMILAR)  
(PROJECT MORE THAN 1 MILE LENGTH)**

- 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**



SIGN		DIMENSIONS (INCHES)										
A	B	C	D	E	F	G	H	I	J	K	L	M
STD.	6-0	48	36	1-1/4	5-1/4	4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
MIN.	3	1-5/8	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4
MAX.	3	1-5/8	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4	1-1/4

SIGN		DIMENSIONS (INCHES)										
A	B	C	D	E	F	G	H	I	J	K	L	M
STD.	3	47/8	14 1/4	14	7 1/4	13 3/4	12	7 1/4	13 3/4	12	7 1/4	13 3/4
MIN.	3	47/8	14 1/4	14	7 1/4	13 3/4	12	7 1/4	13 3/4	12	7 1/4	13 3/4
MAX.	3	47/8	14 1/4	14	7 1/4	13 3/4	12	7 1/4	13 3/4	12	7 1/4	13 3/4

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

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

**R16-3**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
ROADWAY DESIGN DIVISION  
STANDARD PLAN  
WORKING NUMBER  
ICP-15  
SHEET NUMBER  
6-365

ISSUE DATE: MAY 01, 2017

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) ENCRoACHES 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

- IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES-NO PROTECTION REQUIRED. PLACE A SHOULDER SIGN (W21-5) 500 FEET IN ADVANCE OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-9) AT THE BEGINNING AND THROUGHOUT THE WORK ZONE B (1538'+O.C.).
- TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICAL PANELS OR BARRICADES EVERY 120 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 MULTIPLIER  $L/3L$ , WHERE L IS THE TAPER LENGTH IN FEET.
- 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.
- 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.
- LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

**B. DRUM SPACING**

- TANGENTS =  $2 \times S$
- CURVES =  $L \times X \times W$
- WHERE:
  - L = TAPER LENGTH IN FEET
  - S = SPEED IN MPH (POSTED OR 85 PERCENTILE)
  - W = WIDTH OF OFFSET IN FEET

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

TABLE V-1 GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE

X * SPEED (MPH)	LENGTH (FEET)
25	35
30	45
35	55
40	65
45	75
50	85
55	95
60	105
65	115

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

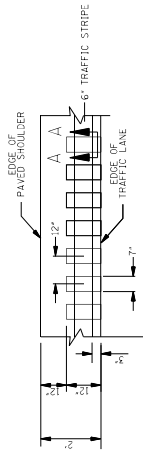
**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**  
ROADWAY DESIGN DIVISION  
STANDARD PLAN

**TRAFFIC CONTROL DETAILS**  
**DRUM PLACEMENT**  
**SHOULDER CLOSURE**

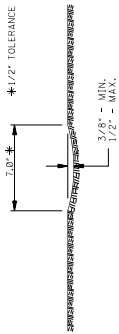
WORKING NUMBER TCP-16	SHEET NUMBER 65/66
DATE	ISSUE DATE: MAY 01, 2017

STATE	PROJECT NO.
MISS.	

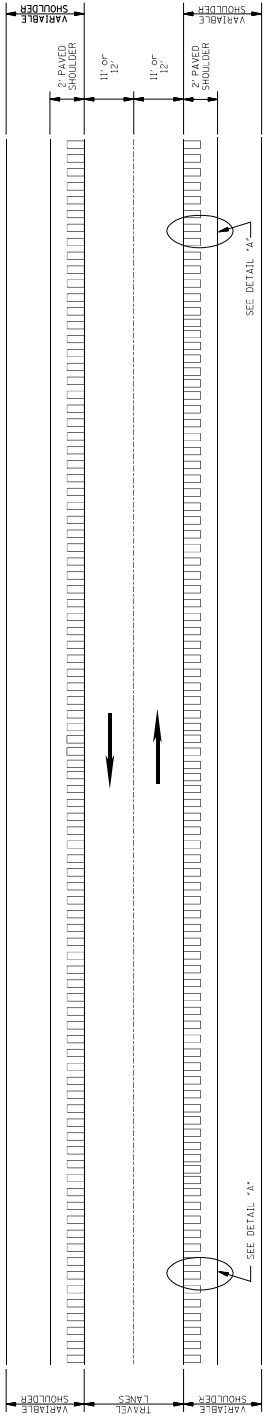
- GENERAL NOTES
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED ON LEFT AND RIGHT SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT.
  - GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS ON ROADWAYS OR OTHER INTERUPTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
  - COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS.
  - GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO:
    - MAINLINE
    - INTERSECTING ROADWAY IF OVERLAD OR RECONSTRUCTED BEYOND NORMAL MAINLINE R.O.W.
    - ANY ROADWAY WITH EXISTING RUMBLE STRIPES PRIOR TO CONSTRUCTION.
  - DO NOT USE WHERE TRAVEL LANE IS LESS THAN 11' WIDE.



DETAIL "A"



SECTION "A-A"

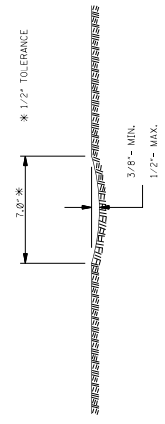


PLAN  
NOT TO SCALE

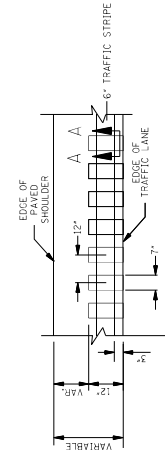
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
<b>RUMBLE STRIPES 2-LANE HIGHWAYS (ASPHALT LANES, 2-FT ASPHALT SHOULDERS)</b>	
BY	REVISION
DATE	ISSUE DATE: MAY 21, 2017
SHEET NUMBER RS-1 6064	

STATE	PROJECT NO.
MISS.	

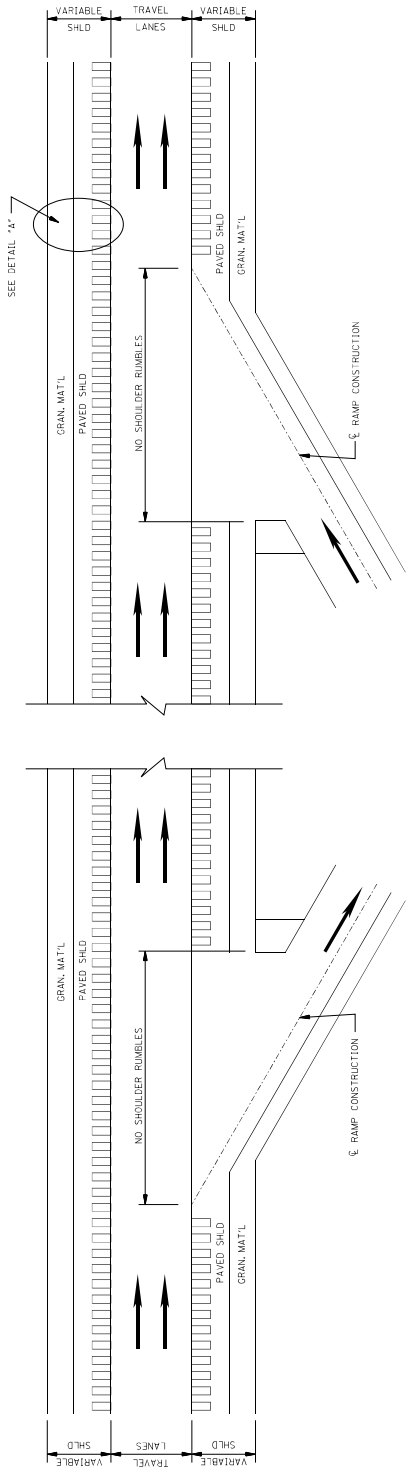
- GENERAL NOTES
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED ON LEFT AND RIGHT SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT
  - GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS ON ROADWAYS OR OTHER INTERRUPTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER
  - COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS
  - GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO:
    - MAINLINE
    - INTERSECTING ROADWAY IF OVERLAD OR RECONSTRUCTED BEYOND NORMAL MAINLINE R.O.W.
    - ANY ROADWAY WITH EXISTING RUMBLE STRIPES PRIOR TO CONSTRUCTION.



SECTION "A-A"

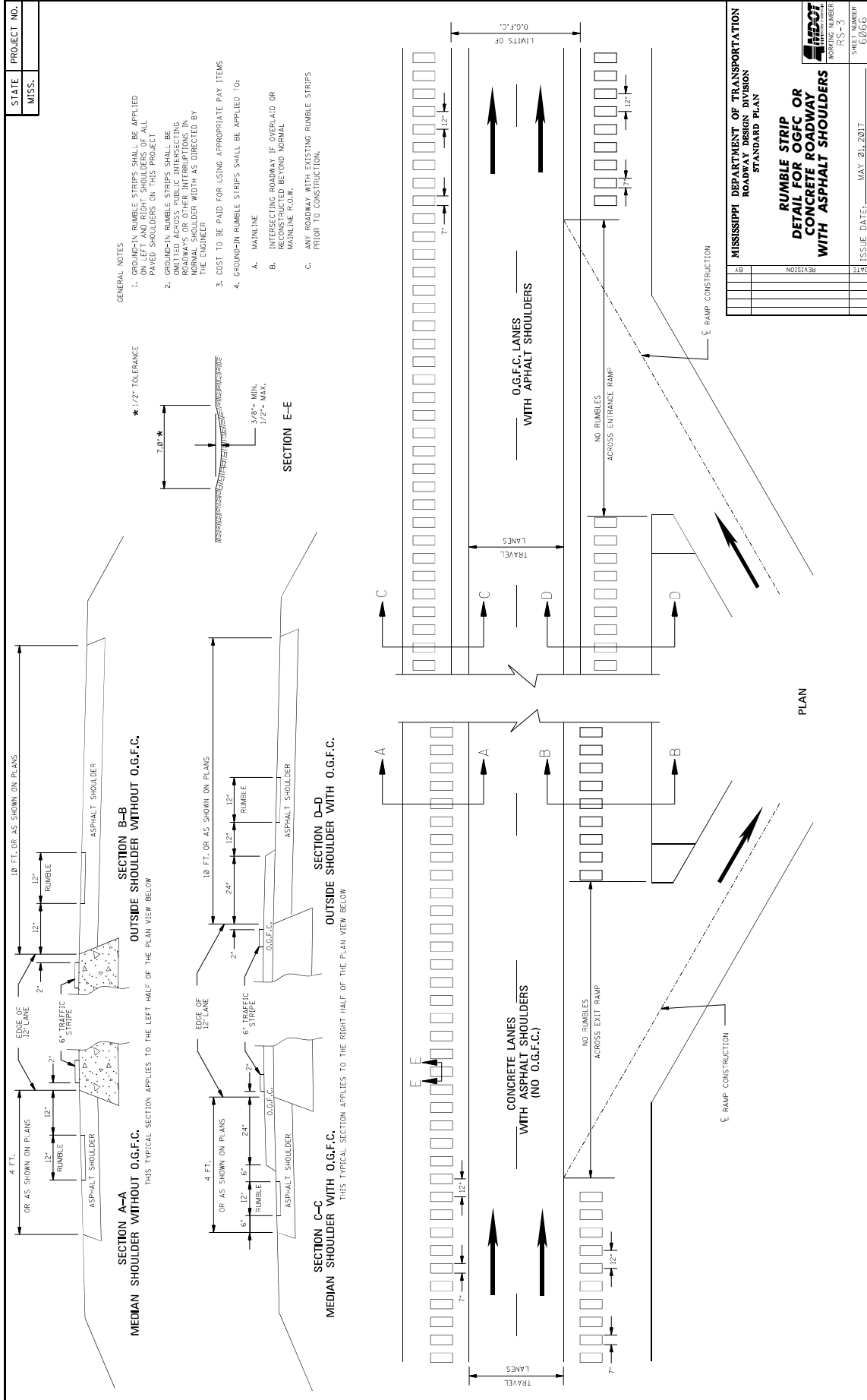


DETAIL "A"



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>	
BY	REVISION
SHEET NUMBER R-3-2	ISSUE DATE: MAY 21, 2017
60663	



**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

**CODE: (SP)**

**DATE: 10/10/2017**

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

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

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 516

CODE: (IS)

DATE: 11/28/2017

SUBJECT: Errata and Modifications to the 2017 Standard Specifications

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



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

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1206

CODE: (SP)

DATE: 10/16/2018

SUBJECT: MASH Compliant Devices

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

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

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

**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: (SP)**

**DATE: 11/16/2018**

**SUBJECT: Material Storage Under Bridges**

Bidders are advised that Subsection 106.08 of the Standard Specifications allows the Contractor to store materials and equipment on portions of the right-of-way. However, the Contractor 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: (SP)**

**DATE: 11/27/2018**

**SUBJECT: Fuel and Material Adjustments**

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

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**SECTION 904 - NOTICE TO BIDDERS NO. 1600**

**CODE: (SP)**

**DATE: 4/23/2019**

**SUBJECT: Contract Time**

**PROJECT: MP-5878-40(001) & MP-5492-40(003) / 306660301 & 302 - Leake County**

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 108.06. It is anticipated that the Notice of Award will be issued no later than be **June 11, 2019** and the effective date of the Notice to Proceed / Beginning of Contract Time will be **July 11, 2019**.

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

Should the Contractor request an early Notice to Proceed between the dates of **July 1, 2019 and July 11, 2019** 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.**

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

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**SECTION – 904 – NOTICE TO BIDDERS NO.1601**

**CODE: (SP)**

**DATE: 04/25/2019**

**SUBJECT: Scope of Work**

**PROJECT: MP-5878-40(001) & MP-5492-40(003) / 306660301 & 302 - Leake County**

The contract documents do not include an official set of plans, but may by reference include some Standard Drawings or Special Drawings. All other references to plans in the contract documents and Standard Specifications for Road and Bridge Construction are to be disregarded.

Work on this project shall consist of the following:

Milling and overlaying approximately 1.5 miles of existing SR 492 from the intersection of SR 35 and SR 492 (BOP - Sta. 10+00) to the pavement change approximately 1 mile east of the intersection of SR 492 and SR 878 (EOP - Sta. 154+40) and milling and overlaying approximately 1 mile of existing SR 878 from the intersection of SR 492 and SR 878 (BOP - Sta. 32+78) to the intersection of SR 35 and SR 878 (EOP - Sta. 86+48).

SR 492 has the following station equations: 32+78 BK = 100+00 AH

The existing pavement for SR 492 consists of 3" to 8" of asphalt over 5" to 6" of clay gravel with 10-foot to 12-foot lanes and 3-foot to 6-foot shoulders. The existing pavement for SR 878 consists of approximately 3½" to 8½" of asphalt with 10-foot to 12-foot lanes and 3-foot and variable shoulders.

Construction signage shall be installed as per the detail sheets included prior to the beginning of work.

The existing asphalt roadway shall be fine milled 1½" and then overlaid 1½" and variable 9.5-mm, ST, asphalt.

The parking areas located on SR 492 and SR 878 through the Town of Walnut Grove shall be milled 1½" and overlaid with 1½" & variable 9.5-mm, ST, asphalt. The finished parking surface should be 2"± below the curb/sidewalk line to prevent water from jumping the curb. The Contractor shall coordinate with the local businesses to minimize disruptions to parking traffic and customer access. Parking stalls shall be restriped within 24 hours of completion of pavement. Existing ADA parking stalls shall be repainted with blue temporary detail stripe until permanent stripe is placed. The ADA wheelchair detail may be omitted from temporary stripe, but will be replaced when permanent stripe is placed.

Failed areas shall be repaired full depth using 12.5-mm, ST, Leveling asphalt. A table showing failed area locations is shown below.

Traffic on the milled surface shall be limited to five (5) 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.

A table showing the location of curve widening is shown below. The curve widening shall consist of a 2½" layer of 12.5-mm, ST, Leveling asphalt followed by a 2" lift of 12.5-mm, ST, Leveling asphalt. The curve widening shall be two feet (2') wide.

A table showing the locations of cross drains and driveway pipes to be replaced is shown below. MS 811 and the Town of Walnut Grove **shall** be contacted before any excavation is allowed in these areas. The Contractor shall coordinate with the local utilities while these repairs are being done. An inlet on the eastern side of SR 878 shall be removed and reconstructed for the cross drain located at station 33+10 and shall be paid for using pay items 202-B: Removal of Inlets, All Sizes, 601-B: Class "B" Structural Concrete, Minor Structures, and 602-A: Reinforcing Steel. The dimensions for the inlet and grate are highlighted in the attached Standard Drawing for Drop Inlets and Grate Details. A 14.5' x 5' section of concrete sidewalk located on the western side of SR 878 at station 33+10 shall be removed and replaced using pay items 202-B: Removal of Concrete Sidewalk and 608-B: Concrete Sidewalk, With Reinforcement. A 14.5' x 27' section of existing concrete slab behind the concrete sidewalk that will be removed and replaced shall be removed using pay item 202-B: Removal of Concrete Sidewalk. After the cross drain has been installed, the area where the concrete slab was located shall be site graded and any excess material shall be paid for using pay item 203-G: Excess Excavation, FM, AH. Solid sod shall be placed at this location and will be paid for using pay item 216-A: Solid Sod. For the work on the cross drain at 33+10, the roadway may be temporarily closed during the daylight hours. The Contractor should only remove the length of pipe that can be replaced during the day's production. Once installation of the pipe is complete, and prior to opening the roadway to traffic, the Contractor shall backfill the portion under the pavement with crushed stone. Stone may be placed to the top of the roadway temporarily until asphalt can be placed in the trench. It is the intent to place the asphalt as soon as possible after the installation of the pipe. The crushed stone shall be removed to a depth of 6" below the surface of the roadway and 6" (3 @ 2") of 12.5-mm, ST, Leveling asphalt shall be placed in the trench. The Contractor shall place message boards on SR 492 east, SR 492 west, and SR 878 north at the locations prescribed by the Project Engineer. In the vicinity of the work site, Type 3 single faced barricades shall be placed across the roadway to prohibit traffic entering the work site. Each barricade shall have a W11-2 "Road Closed" sign attached per the Standard Drawings.

Local public roads shall be milled 1½" and overlaid with 1½" of 9.5-mm, ST, asphalt to the end of the existing asphalt pavement, end of MDOT maintenance, to right-of-way, or as directed. Where a minimum of five feet (5') of shoulder width can be paved at the beginning of local road radii, a 100-foot asphalt pavement taper shall be constructed. Said taper shall be six inches (6") thick and shall be placed in two (2) 3-inch lifts of 9.5-mm, ST, asphalt and shall conform to the detail drawings.

Temporary pavement markings shall be placed at the end of each day's paving operations and prior to opening the road to traffic. Permanent pavement markings shall be placed after completion of all paving operations as per Subsection 403.03.5.2.



Permanent raised pavement markers shall be installed on mainline and local public roads after completion of all paving operations.

Where applicable the existing shoulders are to be raised to match the new pavement elevation by placing variable depth granular material class 5 group C on the existing shoulders. It is not anticipated that the granular material will be required throughout the length of the project but only in areas deficient of shoulder material and as directed. Placement of the granular material on the finished asphalt course shall not be permitted. The material shall be bladed, rolled, and compacted to a finished slope of four percent (4%). Placement of this material shall be performed to provide a uniform and compacted shoulder with a minimum depth and width of material placed. Shoulders with adequate shoulder material in place shall be bladed to a slope of four percent (4%). The cost of blading will be an absorbed item and is not to be included in the price of pay items bid.

Removal of the existing shoulder material shall be coincident with the milling/overlaying operation to prevent the possible ponding of water. No payment will be made for blading or removal of the existing shoulder material. Any material excavated from the existing shoulder shall be used to raise the existing shoulder to match the new pavement elevation and any surplus material shall be spread along the edge of the shoulders, fore slopes, or other adjacent areas as directed by the Engineer and will be an absorbed item. Material which cannot be placed in adjacent areas and deemed to be excess excavations by the Engineer will be an absorbed item.

Guardrails are required to be replaced at various locations within the project (see attached Table for locations/quantities). All guardrail removed is to be replaced the same day and prior to reopening the adjacent lane of traffic. This work shall consist of the following sequence of operations: removal of the existing guardrail and posts, removal of the entire guardrail pad and repaving the guardrail pad, and installation of the new guardrail. Voids created by the removal of posts, concrete anchors, footings, etc. shall be backfilled and tamped in accordance with Section 203 of the Standard Specifications. All guard rails, including rail, terminal end sections, bridge end sections, and metal posts will become property of MDOT and shall be delivered by the Contractor to the MDOT Carthage Maintenance Facility located at 1581 Highway 16 Carthage, MS. The Contractor shall coordinate the delivery of these items with MDOT in advance. Concrete anchors, wooden posts, wooden rails will become the property of the Contractor and will be removed from the Project Site. The Contractor shall not damage or disturb the existing guardrail or posts during the grading or the paving operation. The guardrail pad shall be constructed using 12.5-mm, ST, asphalt and shall be four inches (4") thick. The cost of the removal of the guardrail delineators and object marker signs shall be included in other items bid.

The joint repair, pay item 907-808-A, shall include the work necessary to repair joints in preparation for the placement of new expansion material, as designated in the detail drawings provided. All concrete approach slab joints shall be sealed. If the bridge has an asphalt approach, the joint between the asphalt and concrete shall not be disturbed. Removal of existing silicone sealed, compression, and AC sealed joint materials will not be paid directly and shall be considered an absorbed item of work.

After the existing joint material has been removed, the joints shall then be saw cut as per the Joint Repair Standard Drawing. Saw cuts will be paid for under pay item 907-823-B: Saw Cut, Type I and pay item 907-823-B:, Saw Cut, Type II. The joints are then to be repaired, if necessary, with epoxy mortar or an approved equivalent. This work will be paid for under pay item 907-808-A. The joints shall then be sealed by one of the approved Manufacturers and installed according to the Manufacturer's specifications.

Temporary Portable Rumble Strips, as described in Special Provision No. 907-619, shall be used in advance of each lane closure. Payment shall be made under pay item 907-619-B: Temporary Portable Rumble Strips. At the conclusion of the project, MDOT will take possession of the two sets (132LF) of temporary portable rumble strips used for the project.

**GENERAL NOTES**

Milling and paving operations shall be performed such that a -2% slope from centerline is provided in normal crown roadway sections. Superelevation through curves shall be maintained as it currently exists or improved as directed.

Temporary asphalt joints (aka paper joints) shall be constructed at the end of each day's milling operations where the milled surface joins the existing asphalt pavement surface. Paper joints shall be a minimum of nine feet (9') in length and for the full width of the milled surface. Paper joints shall be adequately maintained.

The Contractor is responsible for providing shoulder drainage outlets as applicable in milled areas. Payment for these outlets shall be included in the bid price for the milling of bituminous pavement.

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

Existing asphalt/concrete driveway connections shall be milled and replaced with new asphalt connections using 9.5-mm, ST, asphalt.

Potholes that may exist or occur in the existing pavement are to be patched in a timely manner. Patching of potholes shall be considered an absorbed item.

Temporary stripe will be required immediately after milling and overlaying and prior to opening the area to traffic. Short term temporary stripe may be offset as required for the sequence of operations; however, temporary stripe placed on the finished surface is to be placed in the same location and layout as permanent stripe.

All permanent striping will be thermoplastic. The width of the permanent stripe will be six inches (6").

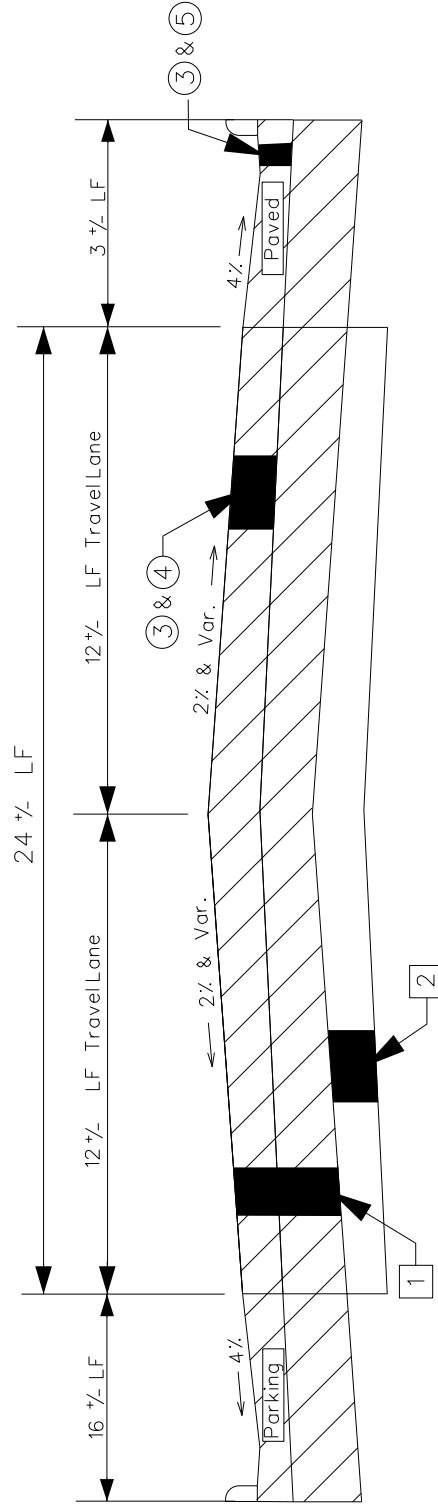
The Contractor shall erect and maintain construction signing, and provide and maintain all temporary signs and traffic control devices necessary to safely conduct traffic through the work area in accordance with the Traffic Control Plan and the MUTCD.

All traffic control devices shall meet current MDOT and MUTCD requirements.

The Contractor shall on a daily basis, remove all debris from within the roadway and a 30-foot clear zone which, in the opinion of the Engineer, is a hazard to the traveling public. This activity shall begin with the beginning of work or the beginning of the contract time, whichever comes first. No direct payment will be made for the debris removal. The cost is to be included in the prices of items bid. Failure of the Contractor to remove debris as prescribed herein shall be just cause for withholding the monthly progress estimate payment or suspending active operations until the debris is satisfactorily removed by the Contractor. As described in the applicable Notice-To-Bidders, final project cleanup is required and will be completed prior to the scheduling of the final inspection.

It shall be the responsibility of the Contractor to protect existing structures such as pipes, aprons, signs, utilities, etc. from damage occurring as a result of construction activities. The Contractor shall replace or repair, as directed by the Engineer, any structures damaged during the life of the contract. No payment will be made for replacements and or repairs resulting from such damages.

SR 878 - LEAKE COUNTY  
 TYPICAL SECTION - MILL & OVERLAY  
 STATIONS: 32+78 - 33+65



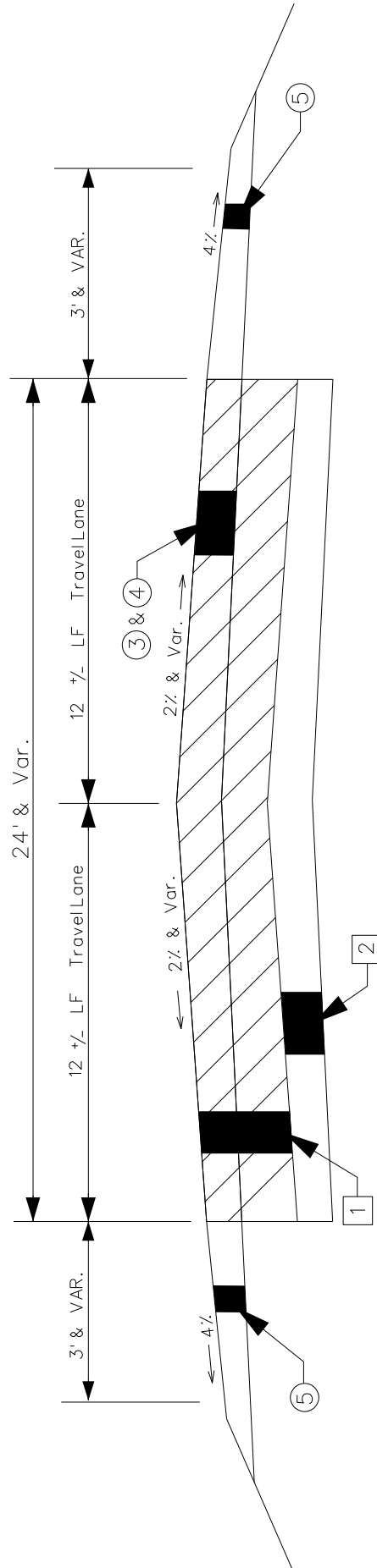
EXISTING

PROPOSED

- 1 3 1/2" - 8 1/2" Existing Thickness based on Core Evaluation.
- 2 5" - 6" Granular Material.
- 3 1 1/2" Milling (Correct to 2% Normal Crown or SE).
- 4 1 1/2" and Variable 9.5mm, ST, Asphalt Pavement.
- 5 1/2" and Variable 9.5mm, ST, Asphalt Pavement.

NOTE 1: Prior to overlay, Repair any failed areas full depth with 12.5mm, ST, Asphalt Pavement, Leveling.

SR 878 - LEAKE COUNTY  
 TYPICAL SECTION - MILL & OVERLAY  
 STATIONS: 33+65 - 86+48



EXISTING

PROPOSED

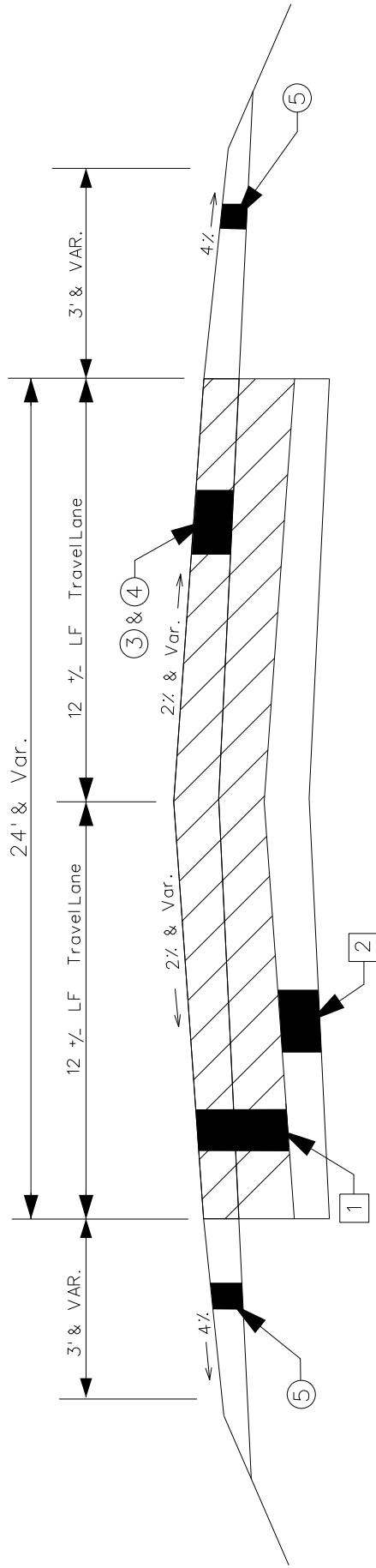
- 1 3 1/2"-8 1/2" Existing Thickness based on Core Evaluation.
- 2 5"-6" Granular Material.
- 3 1 1/2" Milling (Correct to 2% Normal Crown or SE).
- 4 1 1/2" and Variable 9.5mm, ST, Asphalt Pavement.
- 5 Granular Material (Class 5 Group C) 1 1/2" and Var, as REQ'D.

NOTE 1: Prior to overlay, Repair any failed areas full depth with 12.5mm, ST, Asphalt Pavement, Leveling.

# SR 492 - LEAKE COUNTY TYPICAL SECTION - MILL & OVERLAY

STATIONS: 10+00 - 29+50

STATIONS: 103+71 - 154+40



## EXISTING

- 1 3"-9" Existing Thickness based on Core Evaluation.
- 2 5"-6" Granular Material.

## PROPOSED

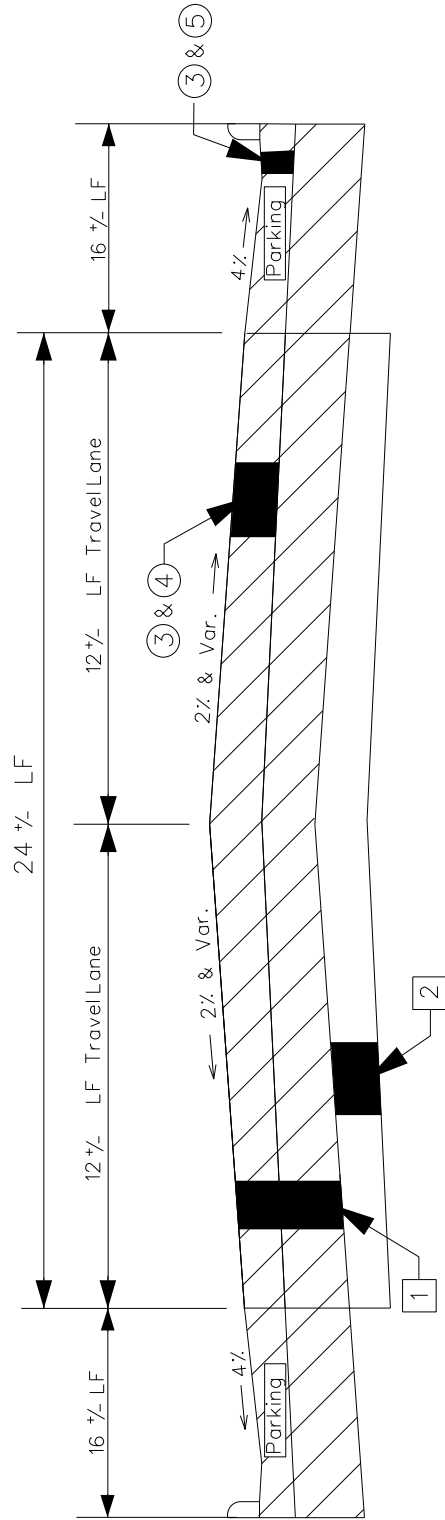
- 3 1/2" Milling (Correct to 2% Normal Crown or SE).
- 4 1/2" and Variable 9.5mm, ST, Asphalt Pavement.
- 5 Granular Material (Class 5 Group C) 1/2" and Var, as REQ'D.

NOTE 1: Prior to overlay, Repair any failed areas full depth with 12.5mm, ST, Asphalt Pavement, Leveling.

SR 492 - LEAKE COUNTY  
TYPICAL SECTION - MILL & OVERLAY

STATIONS: 29+50 - 32+78

STATIONS: 100+00 - 103+71



EXISTING

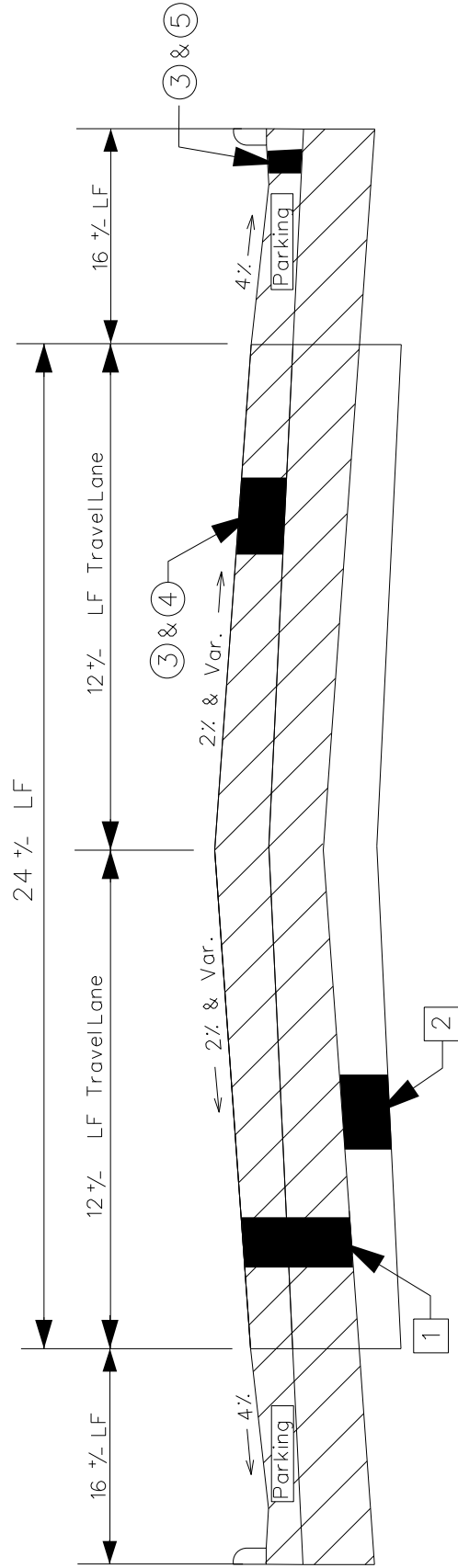
PROPOSED

- 1 3"-9" Existing Thickness based on Core Evaluation.
- 2 5"-6" Granular Material.

- 3 1 1/2" Milling (Correct to 2% Normal Crown or SE).
- 4 1 1/2" and Variable 9.5mm, ST, Asphalt Pavement.
- 5 1/2" and Variable 9.5mm, ST, Asphalt Pavement.

NOTE 1: Prior to overlay, Repair any failed areas full depth with 12.5mm, ST, Asphalt Pavement, Leveling.

SR 492 - LEAKE COUNTY  
 TYPICAL SECTION - MILL & OVERLAY  
 PARK STREET  
 STATIONS: 200+00 - 202+30



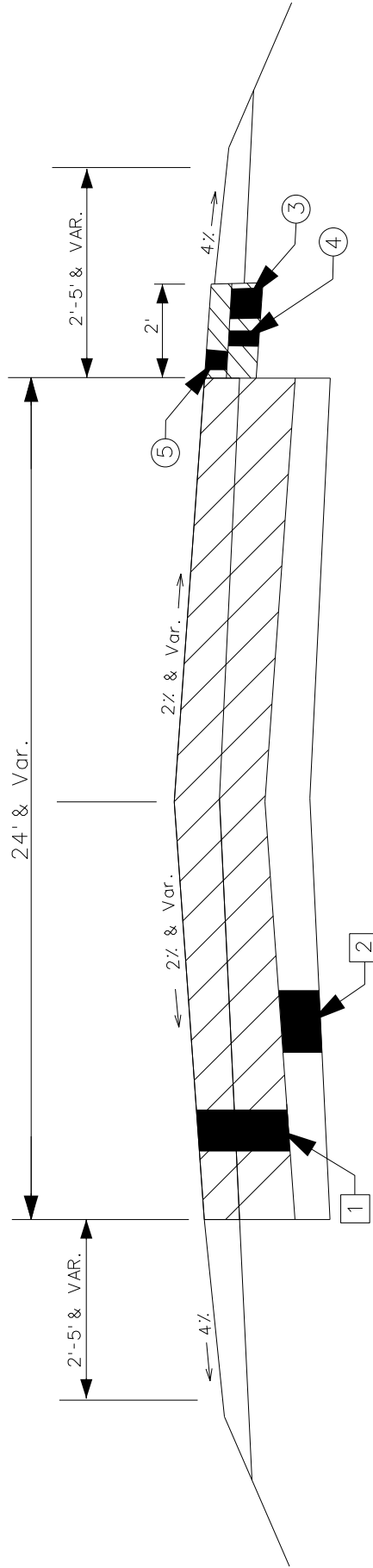
PROPOSED

EXISTING

- 1 3"-9" Existing Thickness based on Core Evaluation.
- 2 5"-6" Granular Material.
- 3 1 1/2" Milling (Correct to 2% NormalCrown or SE).
- 4 1 1/2" and Variable 9.5mm, ST, Asphalt Pavement.
- 5 1/2" and Variable 9.5mm, ST, Asphalt Pavement.



SR 492 - LEAKE COUNTY  
 TYPICAL SECTION - TRENCH WIDENING  
 STATIONS: 25+30 - 26+00 (LT LANE)



EXISTING

- 1 3"-9" Existing Thickness based on Core Evaluation.
- 2 5"-6" Granular Material.

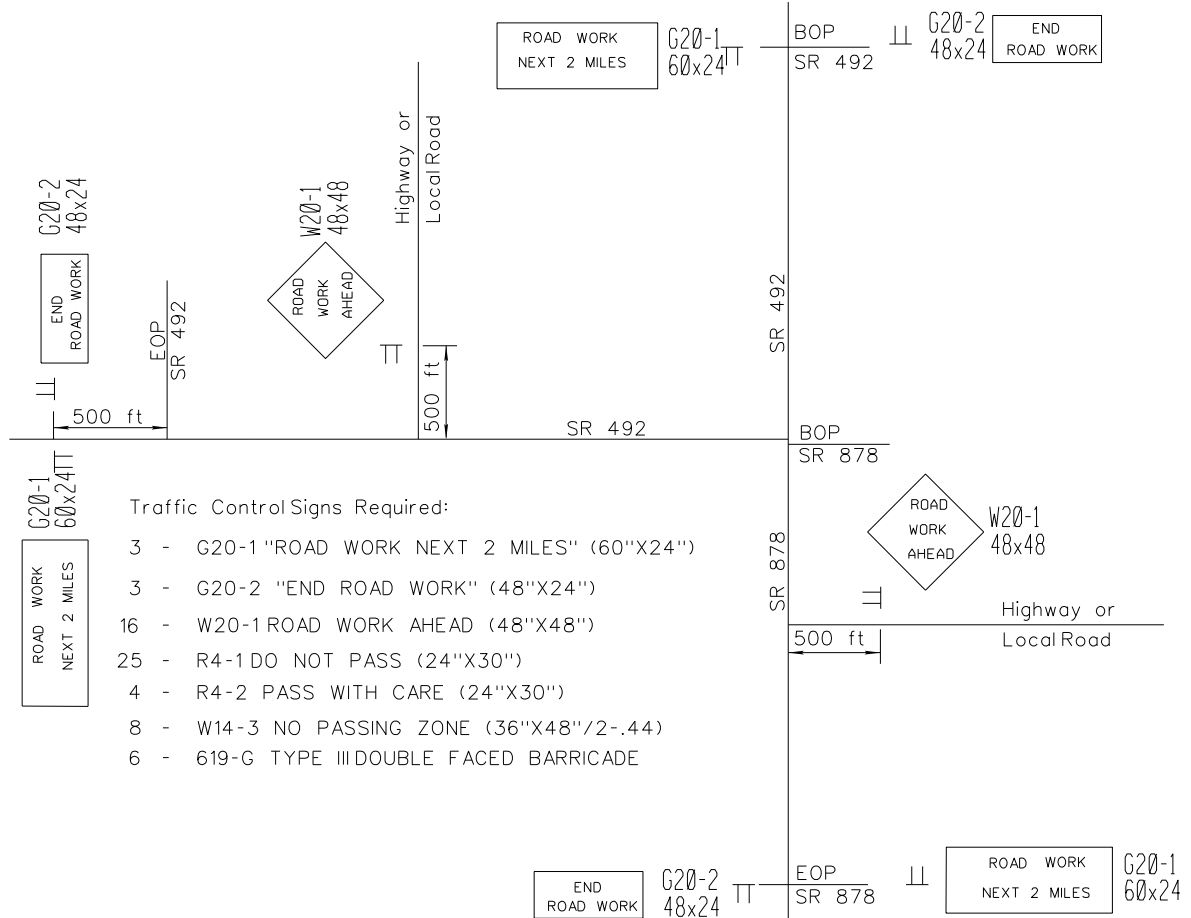
PROPOSED

- 3 Blade Existing Shoulder Material Back 2' and to a Depth of 4 1/2" and use Bladed Shoulder Material to Bring Shoulders to Grade after Widening.
- 4 2 1/2" 12.5mm, ST, Asphalt Pavement, Leveling.
- 5 2" 12.5mm, ST, Asphalt Pavement, Leveling.

NOTE 1: This Typical Represents Areas to Trench Widened with 12.5mm, ST, Asphalt Pavement, Leveling.

NOTE 2: Table in Proposal will List Station Locations.

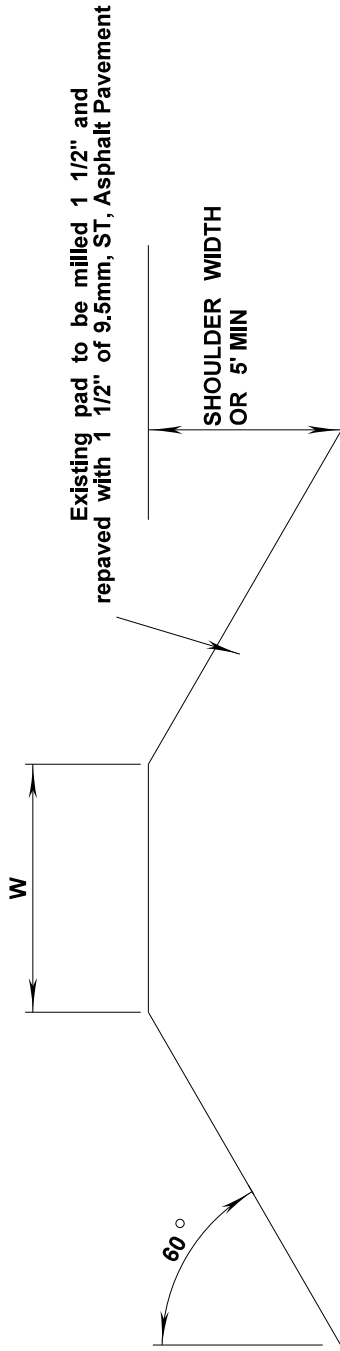
## SR 878 & 492 - LEAKE COUNTY CONSTRUCTION SIGNING



- NOTES:
- ① One (1) W20-1 "ROAD WORK AHEAD" Sign is Required at each Local Road, Street or Highway Entering the Project.
  - ② G20-1 and G20-2 signs mounted on 6 ft Type III Double Faced Barricade.
  - ③ 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 and as specified in the MUTCD. If No Passing zones are 1000 ft or more, install additional "DO NOT PASS" signs on maximum spacing of 750 ft.
  - ④ Placement of W20-1 signs on intersecting roads may vary from typical shown as conditions warrant.

LEAKE COUNTY  
SR 878 & 492

DRIVEWAY PAD DETAIL



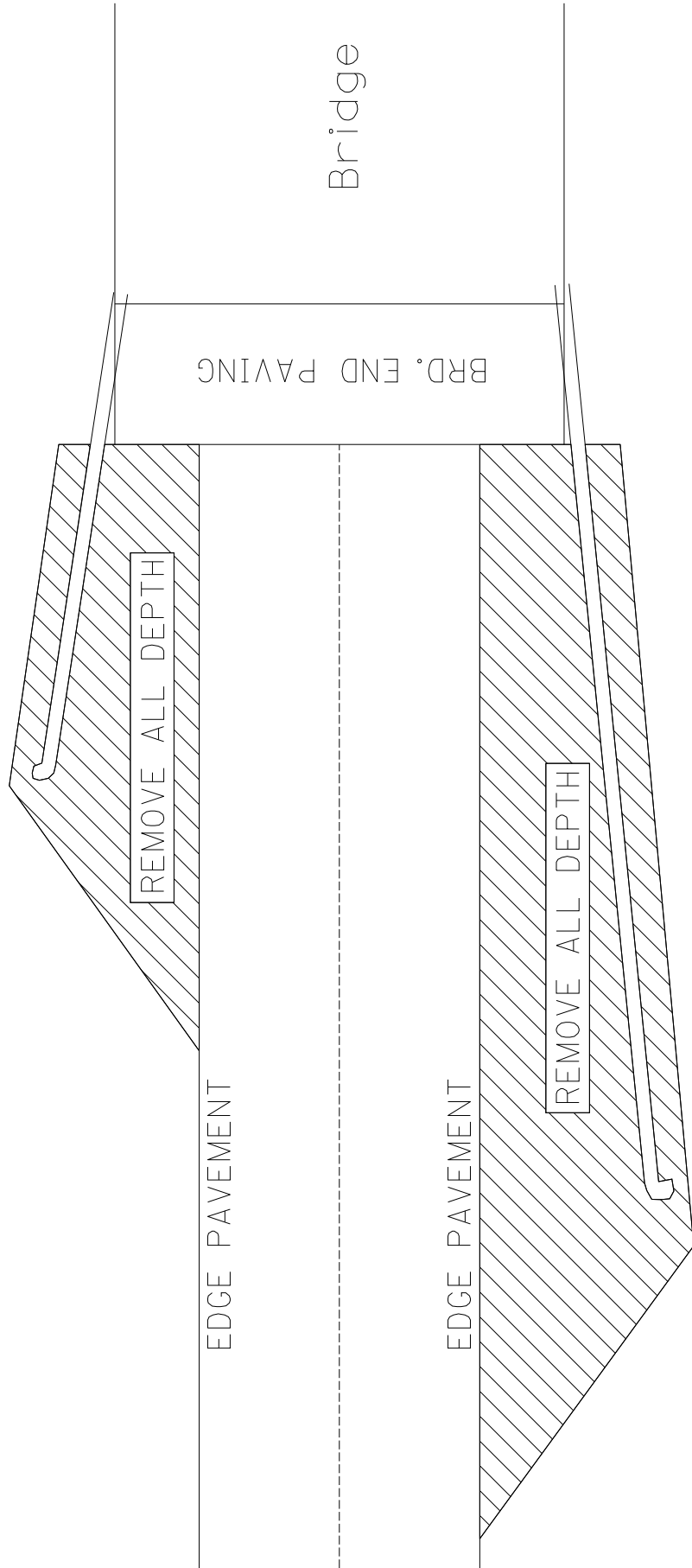
MAINLINE PAVEMENT

W = 16' MAX RESIDENTIAL  
 W = 30'-50' COMMERCIAL

**NOTE:**

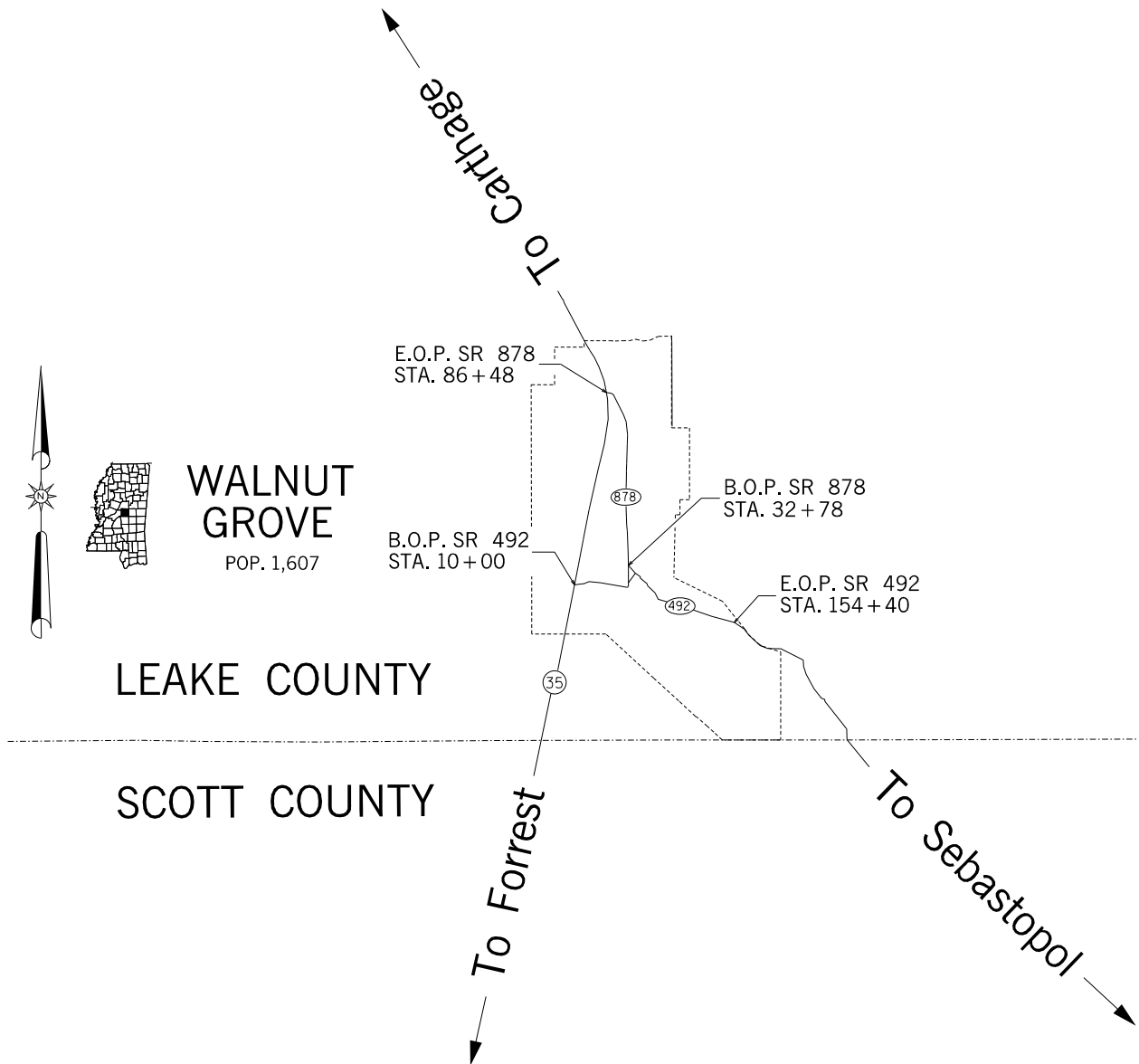
THE ASPHALT ON THE EXISTING DRIVEWAY/RAMP PADS ARE TO REMAIN IN THEIR CURRENT SIZE AND LOCATION AND MILLED/OVERLAID. IF, IN THE OPINION OF THE ENGINEER, A PAD SHOULD BE MODIFIED OR REPLACED, PAYMENT WILL BE MADE FOR THE WORK USING THE APPROPRIATE PAY ITEMS. GRANULAR MATERIAL AND/OR STABILIZER AGGREGATE SHOULD BE PLACED AROUND THE PADS AS REQUIRED.

SR 492 - LEAKE COUNTY  
REMOVE & REPAVE BRIDGE GUARDRAIL PAD

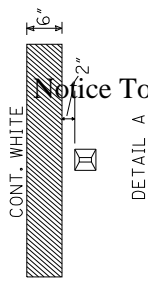
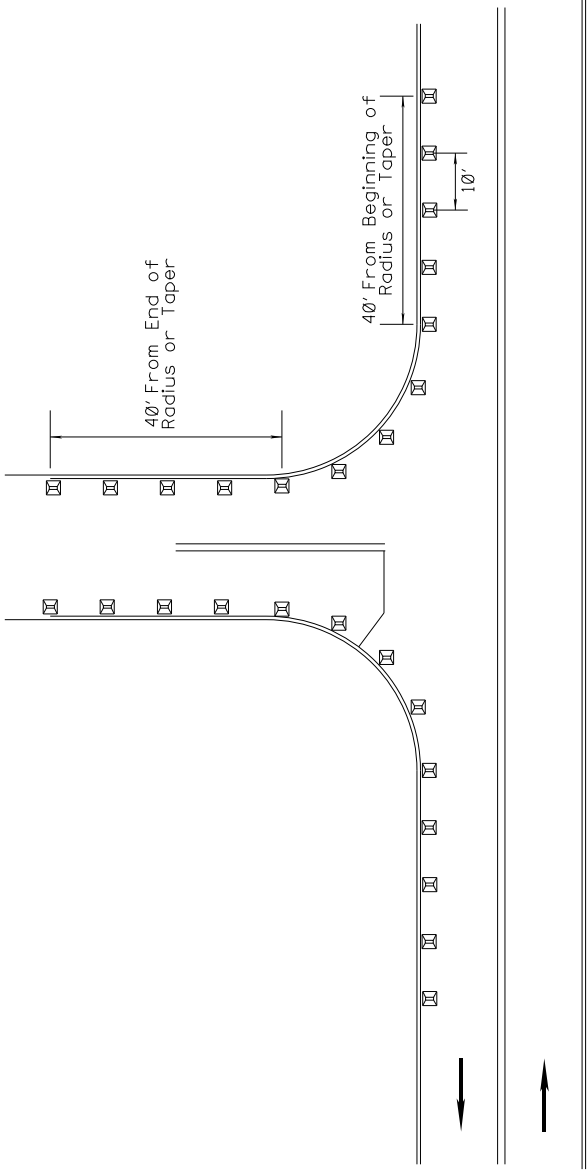


SR 878 & SR 492  
LEAKE COUNTY

MP-5878-40(001)/306660-301000  
MP-5492-40(003)/306660-302000



# SR 878/492 - LEAKE COUNTY RAISED PAVEMENT MARKERS



- NOTE 1: MARKERS SHALL BE PLACED EVERY 10 FEET.
- NOTE 2: MARKERS SHALL BE VISIBLE FROM THE TRAVELING MOTORIST ON STATE DESIGNATED HIGHWAYS.
- NOTE 3: MARKERS SHALL BE HIGH PERFORMANCE TWO WAY CLEAR.
- NOTE 4: FIVE (5) MARKERS SHALL BE PLACED ALONG MAINLINE EDGE STRIPE.
- NOTE 5: MARKERS FOR COUNTY ROADS SHALL CONTINUE DOWN THE EDGE STRIPE A DISTANCE OF 40 FEET.
- NOTE 6: MARKERS SHALL NOT BE ROTATED WHEN BEING PLACED ALONG RADIUS OF LOCAL ROAD.

Notice To Bidders No. 1601 Cont'd

STATE MISS.	PROJECT NO.
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<b>MISSISSIPPI DEPARTMENT OF TRANSPORTATION</b>	
2-LANE, 2-WAY	
2-WAY CLEAR RAISED PAVEMENT MARKERS PLACED ON SIDE ROADS	
PROJECT NO.	DRAWING NUMBER
COUNTY :	SRPMSR-2
FILENAME: SPASIDERDRP.M.DGN	SHEET NUMBER
DESIGN TEAM	DESIGNER
DATE	DATE

SR 492 FAILED AREA LOCATIONS										
LOCATION	STA.	TO	STA.	LENGTH (FT)	WIDTH (FT)	AREA (SF)	202-B009 REMOVAL OF ASPHALT, FAILED AREAS (SY)	503-C010 SAW CUT, FULL DEPTH (LF)	403-B003 12.5MM, ST, ASPHALT PAVEMENT, LEVELING (TONS)	
RT LANE	11+50		13+59	209	6	1,254	139.3	221	47.0	
RT LANE	100+00		100+41	41	15	615	68.3	112	23.1	
						<b>Total =</b>	208	333	70	
<b>Additional Quantities To Be Used As Directed By The Engineer:</b>							<b>Total =</b>	21	33	7

Note: Locations and Measurements are Approximate and may Vary With Field Conditions

**DEPTH = Variable**

SR 878 FAILED AREA LOCATIONS										
LOCATION	STA.	TO	STA.	LENGTH (FT)	WIDTH (FT)	AREA (SF)	202-B009 REMOVAL OF ASPHALT, FAILED AREAS (SY)	503-C010 SAW CUT, FULL DEPTH (LF)	403-B003 12.5MM, ST, ASPHALT PAVEMENT, LEVELING (TONS)	
RT LANE	33+10		33+20	10	6	60	6.7	22	2.3	
RT LANE	48+64		48+73	9	6	54	6.0	21	2.0	
RT LANE	49+95		50+40	45	6	270	30.0	57	10.1	
RT LANE	68+00		68+25	25	6	150	16.7	37	5.6	
RT LANE	73+25		73+35	10	6	60	6.7	22	2.3	
RT LANE	73+55		73+90	35	6	210	23.3	47	7.9	
LT LANE	49+82		49+88	6	6	36	4.0	18	1.4	
LT LANE	68+10		68+28	18	6	108	12.0	30	4.1	
LT LANE	75+68		75+73	5	6	30	3.3	17	1.1	
LT LANE	81+09		81+20	11	24	264	29.3	59	9.9	
LT LANE	114+00		115+00	100	6	600	66.7	112	22.5	
<b>Additional Quantities To Be Used As Directed By The Engineer:</b>							<b>Total =</b>			
							205	442	69	
							20	44	7	

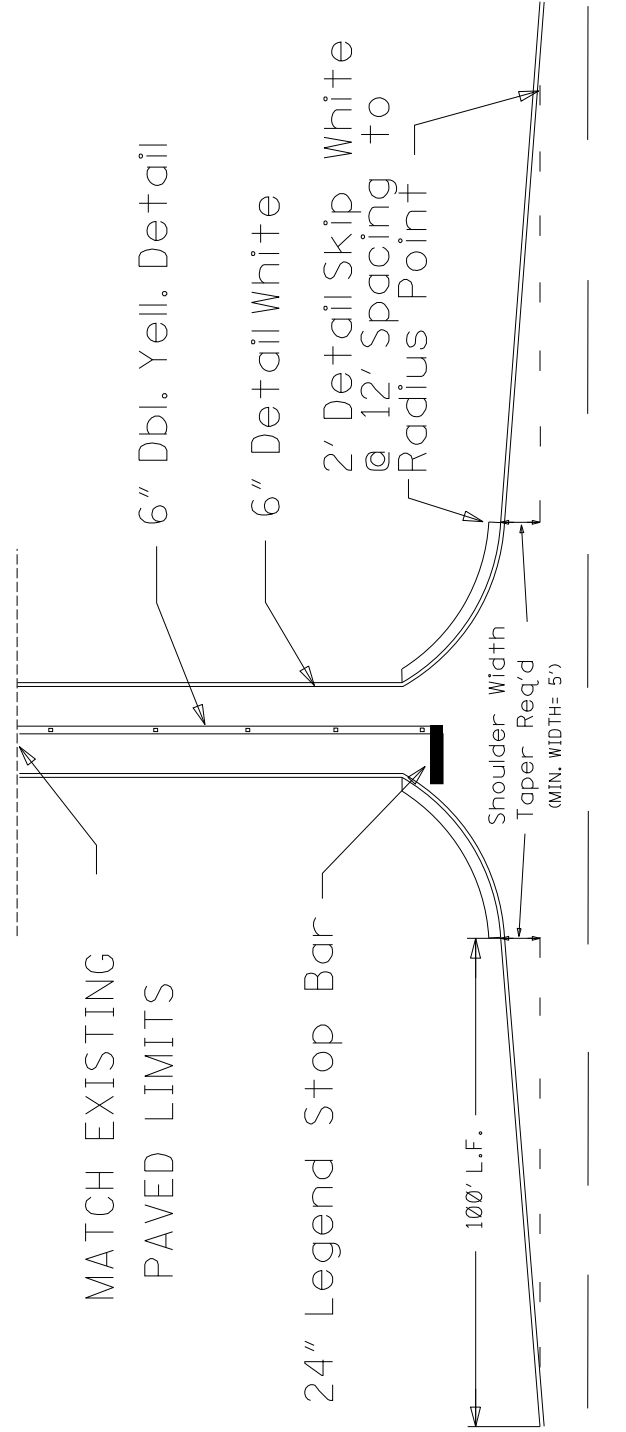
Note: Locations and Measurements are Approximate and may Vary With Field Conditions

**DEPTH = Variable**



SR 492 CURVE WIDENING LOCATION							
LOCATION	STA.	TO	STA.	LENGTH (ft)	WIDTH (ft)	AREA (SF)	403-B003 12.5mm, ST, ASPHALT PAVEMENT, LEVELING (TONS)
LT LANE	25+30	-	26+00	70	2	140	4

SR 878 & 492 - LEAKE COUNTY  
COUNTY ROAD PAVING/STRIPING

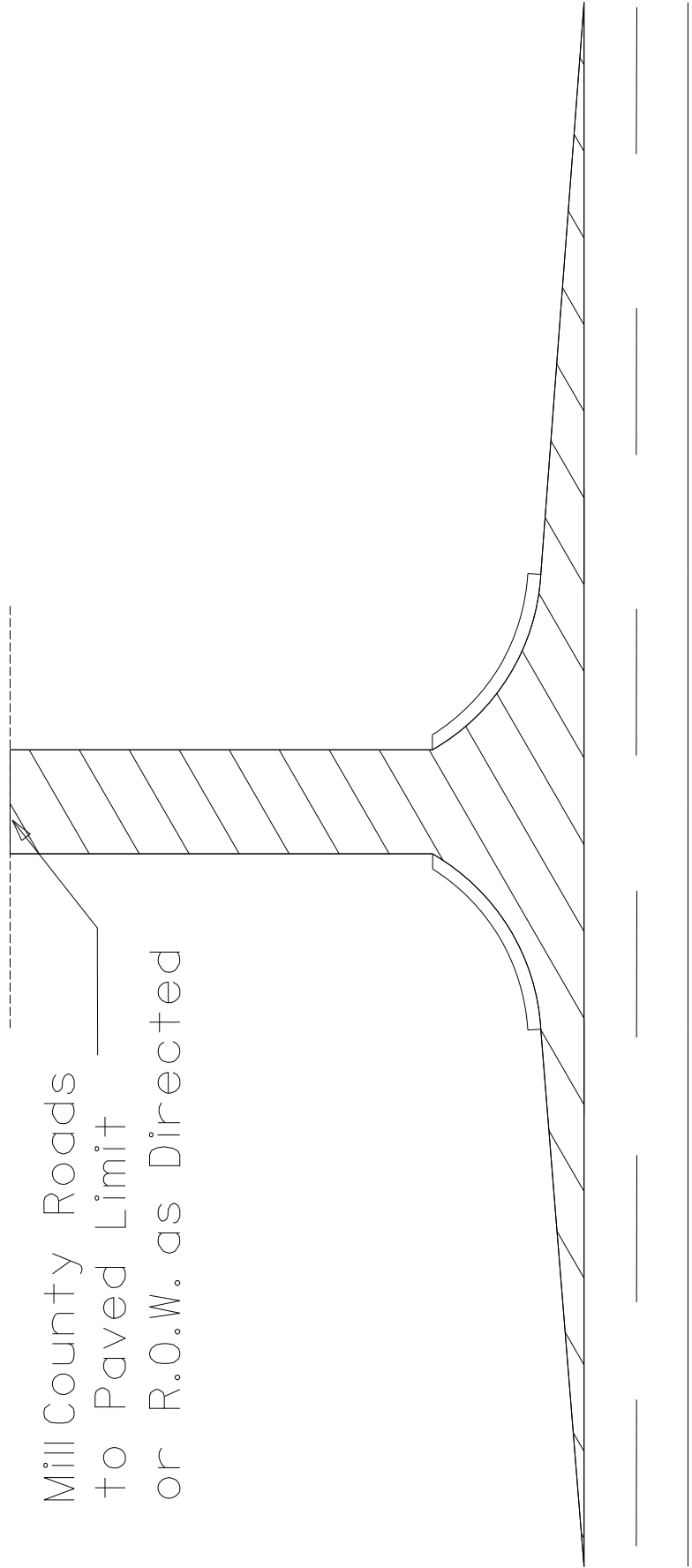


NOTE: 100' TAPERS TO BE CONSTRUCTED WHERE 5' SHOULDER WIDTH IS AVAILABLE AT THE BEGINNING OF LOCAL ROAD RADIUS.

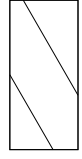
NOTE: ASPHALT PAVEMENT THICKNESS IN TAPER SHALL BE 6"(2 3" lifts).

NOTE: DETAIL SKIP SHALL BE PLACED ON LOCAL ROADS WITH TAPERS.

SR 878 & 492 - LEAKE COUNTY  
MILLING COUNTY ROADS



Mill County Roads  
to Paved Limit  
or R.O.W. as Directed

 1 1/2" Mill Area

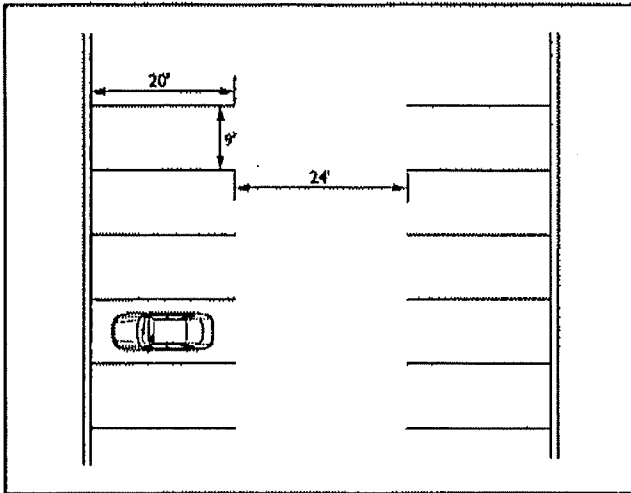
# MDOT PROJECT NO. MP-5492-40(003)/306660-302000

## MILL AND OVERLAY SR 492

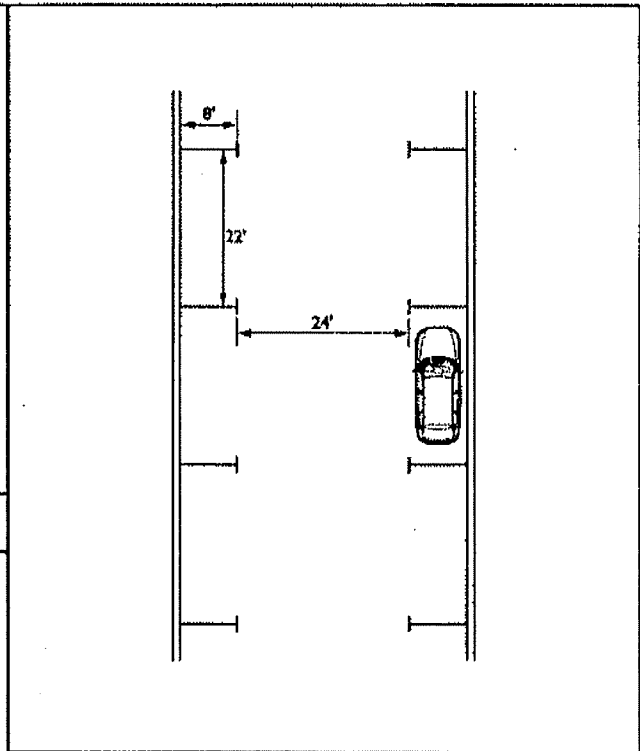
### GUARD RAIL REMOVAL AND INSTALLATION

BRIDGE NO	DIRECTION	REMOVAL (LF)	TYPE "H" BRIDGE END (EA)	"W" BEAM (LF)	TERMINAL END SECTION, FLARED (EA)	DELINEATORS (WHITE) (EA)	OBJECT MARKERS	
							OM-3R (EA)	OM-3L (EA)
0.7	EAST BOUND	240	1	140	2	8	1	1
0.7	WEST BOUND	240	1	140	2	8	1	1
1.0	EAST BOUND	240	1	140	2	8	1	1
1.0	WEST BOUND	240	1	140	2	8	1	1
<b>TOTALS</b>		960	4	560	8	32	4	4

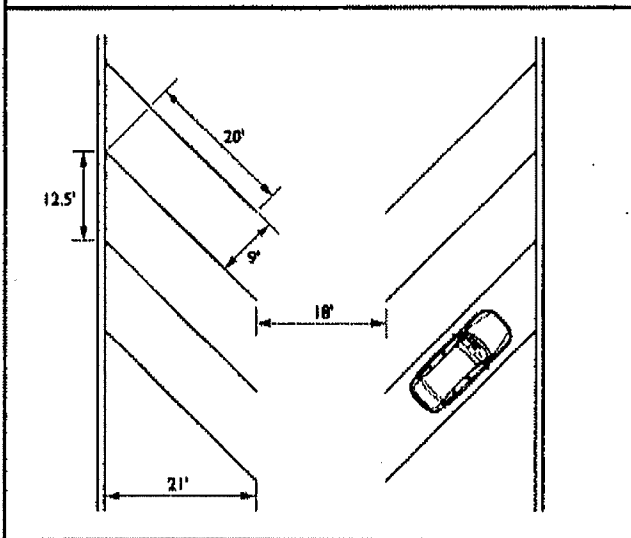
\* Removal of guardrails, including rails, posts, and terminal ends will be paid for under Pay Item No. 202-B158



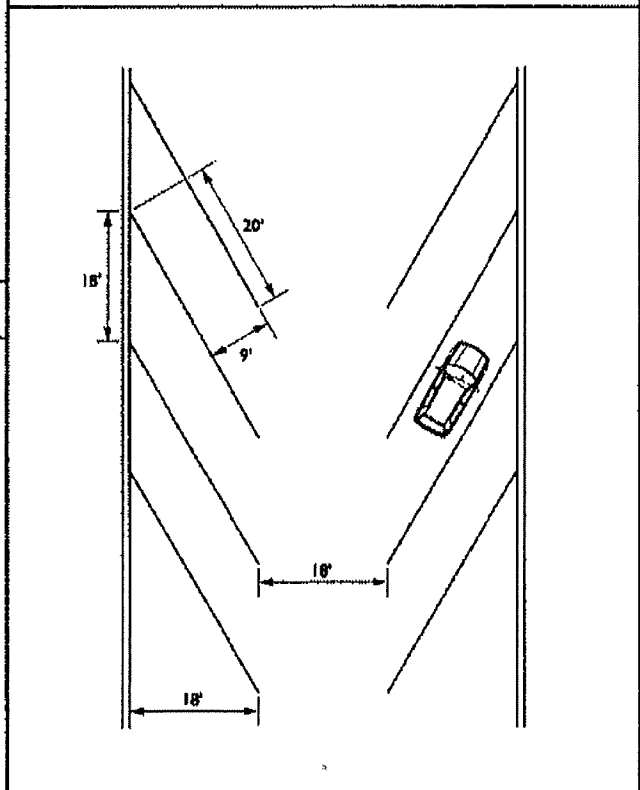
Parking Stall and Aisle Dimensions - 90 Degree Parking



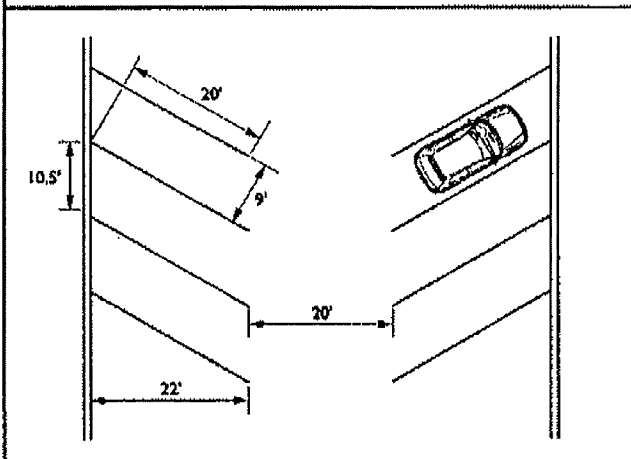
Parking Stall and Aisle Dimensions - Parallel Parking



Parking Stall and Aisle Dimensions - 45 Degree Parking



Parking Stall and Aisle Dimensions - 60 Degree Parking

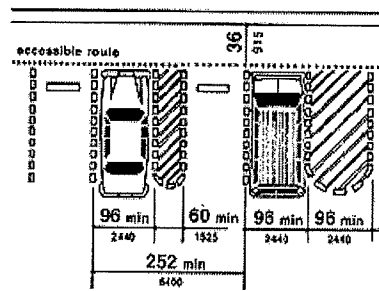


Parking Stall and Aisle Dimensions - 30 Degree Parking

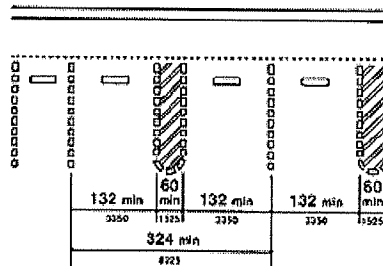
across is strongly discouraged.

**A4.6 Parking and Passenger Loading Zones.**

**A4.6.3 Parking Spaces.** The increasing use of vans with side-mounted lifts or ramps by persons with disabilities has necessitated some revisions in specifications for parking spaces and adjacent access aisles. The typical accessible parking space is 96 in (2440 mm) wide with an adjacent 60 in (1525 mm) access aisle. However, this aisle does not permit lifts or ramps to be deployed and still leave room for a person using a wheelchair or other mobility aid to exit the lift platform or ramp. In tests conducted with actual lift/van/wheelchair combinations, (under a Board-sponsored Accessible Parking and Loading Zones Project) researchers found that a space and aisle totaling almost 204 in (5180 mm) wide was needed to deploy a lift and exit conveniently. The "van accessible" parking space required by these guidelines provides a 96 in (2440 mm) wide space with a 96 in (2440 mm) adjacent access aisle which is just wide enough to maneuver and exit from a side mounted lift. If a 96 in (2440 mm) access aisle is placed between two spaces, two "van accessible" spaces are created. Alternatively, if the wide access aisle is provided at the end of a row (an area often unused), it may be possible to provide the wide access aisle without additional space (see Fig. A5(a)).

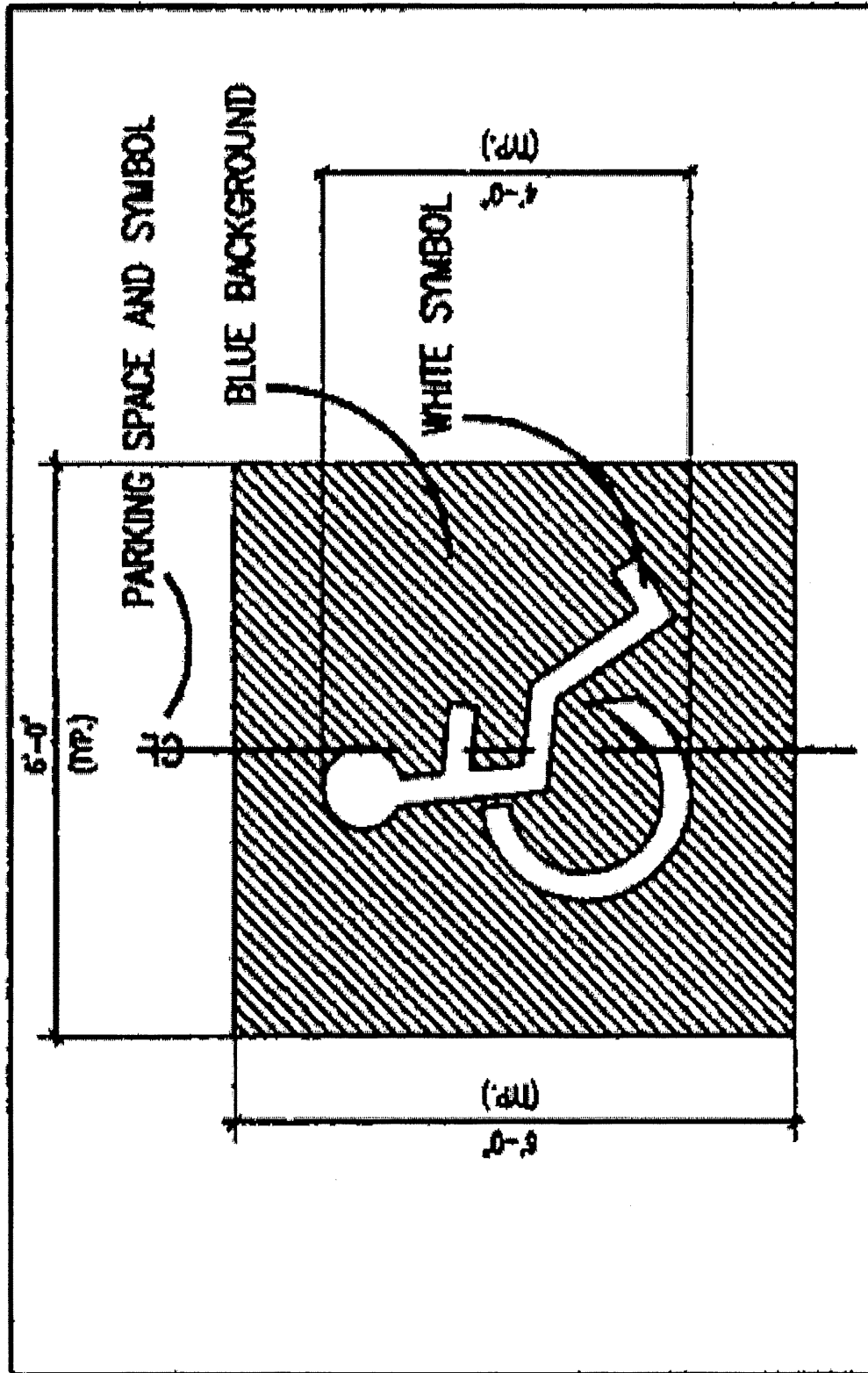


(a) Van Accessible Space at End Row



(b) Universal Parking Space Design

Fig. A5  
Parking Space Alternatives



SR 492 DRIVEWAY PIPE REPLACEMENT LOCATIONS									
LOCATION	STA.	TO	STA.	LENGTH (FT)	202-B191 REMOVAL OF PIPE, 8" AND ABOVE (LF)	206-A001 STRUCTURE EXCAVATION (CY)	206-B001 SELECT MATERIAL FOR UNDERCUTS, CONTRACTOR FURNISHED, FM (CY)	603-CE002 22" x 13" CONCRETE ARCH PIPE, CLASS A III (LF)	603-ALT001 12" TYPE A ALTERNATE PIPE (LF)
RT LANE	22+15		22+30	15	15	4	4	-	15
RT LANE	107+09		107+40	31	31	9	9	31	-
				<b>TOTALS =</b>	<b>46</b>	<b>13</b>	<b>13</b>	<b>31</b>	<b>15</b>

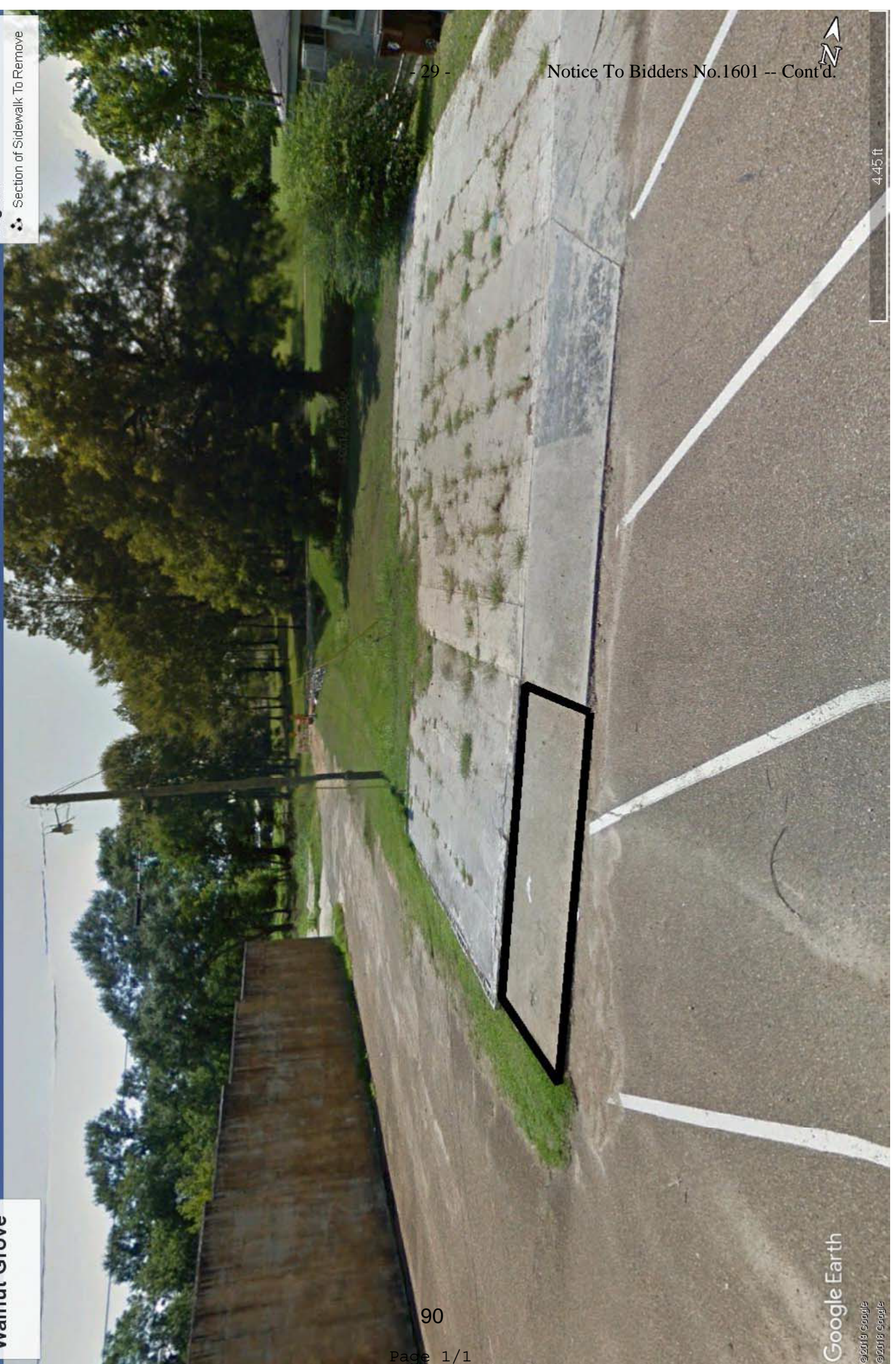
Note: Locations and Measurements are Approximate and May Vary With Field Conditions



SR 878 CROSS DRAINS AND DRIVEWAY PIPE REPLACEMENT LOCATIONS														
LOCATION	STA.	T O STA.	LENGTH (FT)	202-B191 REMOVAL OF PIPE, 8" AND ABOVE	206-A001 STRUCTURE EXCAVATION	206-B001 MATERIAL FOR UNDERCUTS, CONTRACTOR FURNISHED, FM	CRUSHED STONE BASE, AEA (CY)	603-CE015 36" x 23" CONCRETE ARCH PIPE, CLASS A IV (LF)	603-ALT003 18" TYPE A ALTERNATE PIPE (LF)	603-ALT006 24" TYPE A ALTERNATE PIPE (LF)	202-B007 REMOVAL OF ASPHALT PAVEMENT, ALL DEPTHS (SY)	503-C010 SAW CUT, FULL DEPTH (LF)	403-B003 12.5-MM. ST. ASPHALT PAVEMENT, LEVELING (TONS)	601-B001 CLASS "B" STRUCTURAL CONCRETE, MINOR STRUCTURES (CY)
RT & LT LANE	33+10	33+10	87	87	56	41	15	87	-	-	12.0	48	3	0.854
RT LANE	60+60	61+02	22	22	10	10	-	-	-	22	11	10	3	-
RT LANE	64+64	65+61	97	97	41	41	-	-	97	-	-	-	-	-
LT LANE	69+50	69+71	21	21	7.5	8	-	-	21	-	-	-	-	-
<b>TOTALS =</b>			<b>227</b>	<b>115</b>	<b>100</b>	<b>15</b>	<b>87</b>	<b>118</b>	<b>22</b>	<b>23</b>	<b>58</b>	<b>6</b>	<b>1</b>	

Note: Locations and Measurements are Approximate and May Vary With Field Conditions





**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. 907-619-5

CODE: (IS)

DATE: 01/17/2018

SUBJECT: Traffic Control for Construction Zones

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

## 907-619.02--Materials.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

**907-619.02.14--Changeable Message Sign.**

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

The controller cabinet shall be illuminated.

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

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

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

## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-619-6

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.

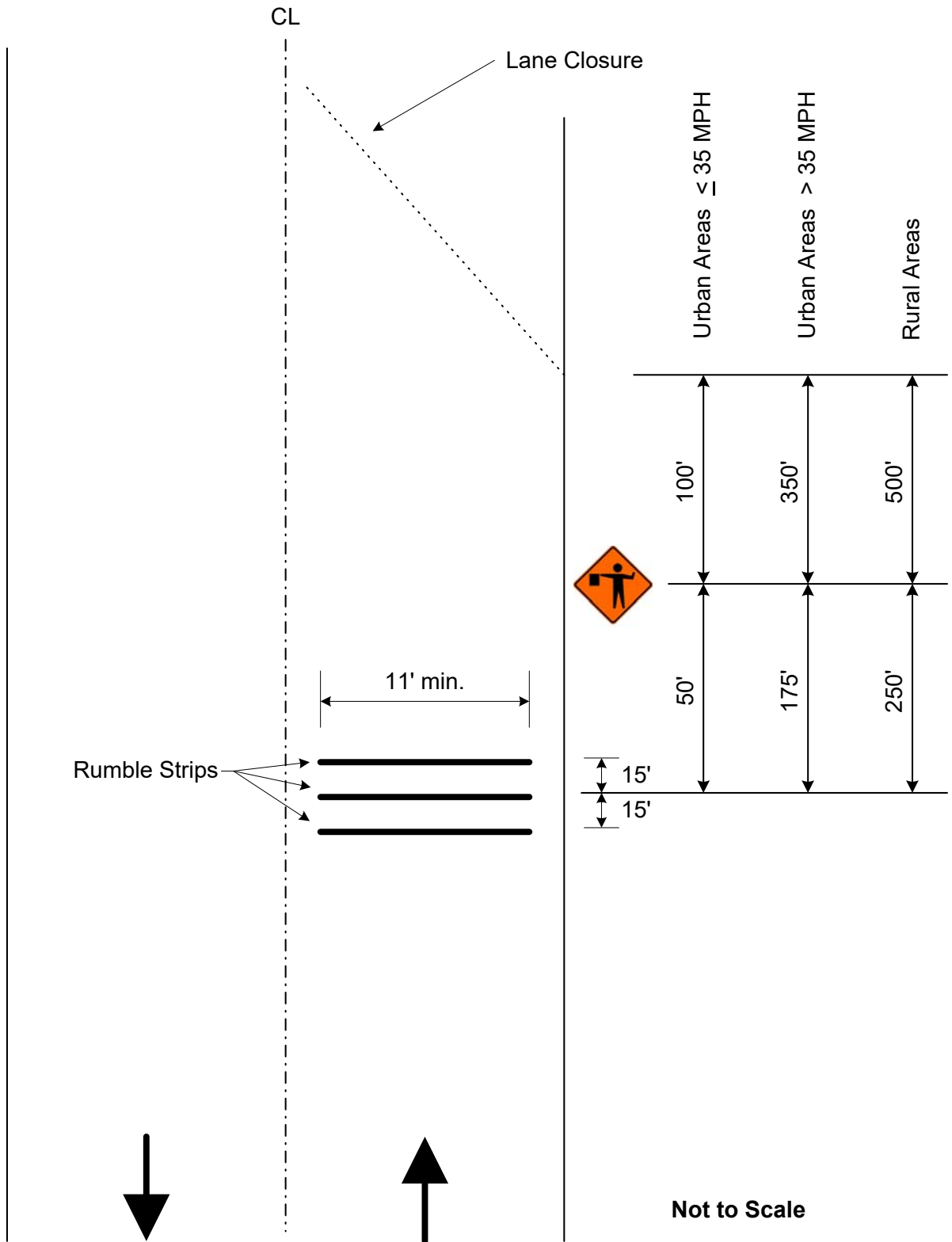
Temporary Portable Rumble Strips will be measured for payment by the linear foot only when a pay item for temporary portable rumble strips is included in the contract. Otherwise, temporary portable rumble strips will be included in the cost of pay item 618-A, Maintenance of Traffic. The quantity of temporary 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. 907-626-4**

**CODE: (SP)**

**DATE: 03/06/2017**

**SUBJECT: Thermoplastic Blue ADA Markings**

Section 626, Thermoplastic Traffic Markings, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

**907-626.04--Method of Measurement.** After the last sentence of the last paragraph of Subsection 626.04 on page 495, add the following.

Cold Plastic Legend, Handicap Symbol of the color specified will be measured per each as determined by actual count in place.

**907-626.05--Basis of Payment.** After the last pay item listed in Subsection 626.05 on page 496, add the following:

907-626-H: Thermoplastic Legend, Handicap Symbol, Color

- per each

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

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

**CODE: (SP)**

**DATE: 10/23/2018**

**SUBJECT: Hydraulic Cement**

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

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

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

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

**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.

The Equivalent alkali content for all cement types in this Subsection shall not exceed 0.60%.

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

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

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



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

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

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

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

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

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

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

Sulfate Exposure	Water-soluble sulfate (SO <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. 907-711-2**

**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. 907-720-2**

**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. 907-808-1**

**CODE: (SP)**

**DATE: 11/01/2018**

**SUBJECT: Joint Repair**

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

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

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

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

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

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

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

Payment will be made under:

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

907-808-B: Mortar Mix - per gallon



## MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISIONS NO. 907-823-5

CODE: (SP)

DATE: 01/22/2019

SUBJECT: **Preformed Joint Seal**

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

### **SECTION 907-823--PREFORMED JOINT SEAL**

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

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

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

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

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

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

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

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

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

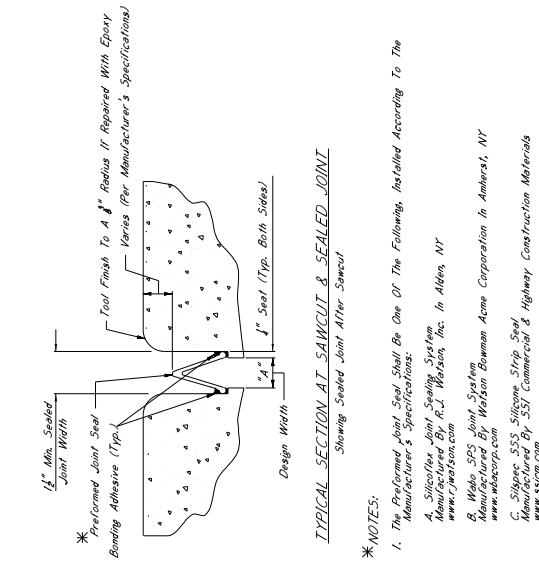
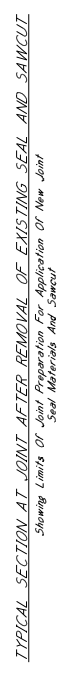
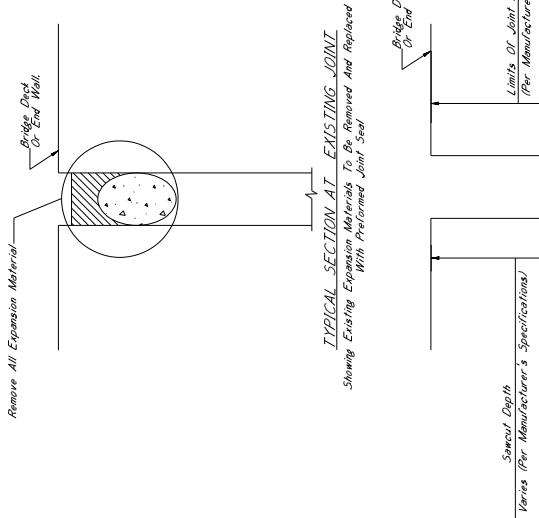
**907-823.05--Basis of Payment.** Preformed joint seal, measured as prescribed above, will be paid for at the contract unit price per linear foot, which shall be full compensation for furnishing all labor, equipment, tools, materials, and incidentals necessary to complete the work.

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

Payment will be made under:

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

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



NOTES ON ASSOCIATED ITEMS OF WORK:

907-808-4002 JOINT REPAIR WITH EPOXY

*Description:* Shall include the work necessary to repair joints in preparation for the placement of new expansion material. Epoxy shall be applied to the joint and shall be included under this item of work. Removal of existing silicone sealed, compression, and AC sealed joint materials will not be paid for directly and shall be considered as incidental under this item of work. All other requirements shall be according to the applicable provisions of Section 808 of the specifications and any other sections specified therein.

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

907-808-4002 JOINT REPAIR WITHOUT EPOXY

*Description:* Shall include the work necessary to repair joints in preparation for the placement of new expansion material. Epoxy shall be applied to the joint and shall be included under this item of work. Removal of existing silicone sealed, compression, and AC sealed joint materials will not be paid for directly and shall be considered as incidental under this item of work. All other requirements shall be according to the applicable provisions of Section 808 of the specifications and any other sections specified therein.

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

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

*Description:* The Saw Cut Depth Shall Be Equivalent To The Installation Depth Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected.

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

907-823-4001 PREFORMED JOINT SEAL, TYPE I

*Description:* Shall include the manufacturer's required joint preparation including cleaning both sides of the joint and blowing the joint free of debris. The seal shall be applied and placed in the preformed joint seal.

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

907-823-4002 PREFORMED JOINT SEAL, TYPE II

*Description:* Shall include the manufacturer's required joint preparation including cleaning both sides of the joint and blowing the joint free of debris. The seal shall be applied and placed in the preformed joint seal.

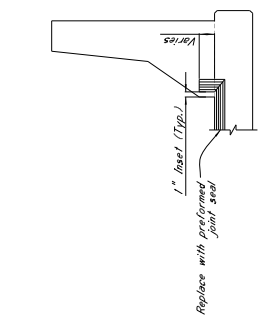
*Basis Of Payment:* The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

EPOXY MORTAR AND POLYMER CONCRETE NOTES:

Either epoxy mortar or polymer concrete may be used. Guidelines for selection of materials can be found in Section 808 of the specifications.

GENERAL NOTES:

1. Specifications, Massachusetts Standard Specifications For Road And Bridge Construction, 2017.
2. No Change Of Plans Will Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer. Any Change Of Plans Must Be Approved By The Bridge Engineer. Work May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment.
3. Work For Which No Pay Item Is Provided In The Proposal Will Be Considered As Part Of The Contract Price. Work For Which No Pay Item Is Provided In The Proposal Will Be Considered As Part Of The Contract Price.



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

ELEVATION AT END OF SPAN

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

GENERAL NOTES:

1. Specifications, Massachusetts Standard Specifications For Road And Bridge Construction, 2017.
2. No Change Of Plans Will Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer. Any Change Of Plans Must Be Approved By The Bridge Engineer. Work May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment.
3. Work For Which No Pay Item Is Provided In The Proposal Will Be Considered As Part Of The Contract Price.

**NOTES ON ASSOCIATED ITEMS OF WORK:**

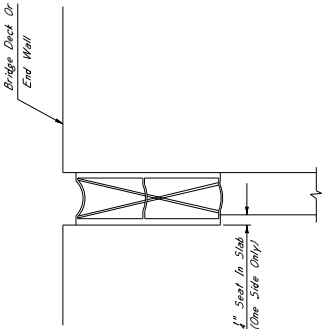
- 907-808-4002 **JOINT REPAIR WITH EPOXY**  
 Description: Shall include the work necessary to repair joints in preparation for the placement of new expansion material, as designated in the detail drawings provided. Epoxy mortar shall also be included under this item of work. Removal of existing expansion material shall be done in accordance with the specifications and shall be considered as absorbed under this item of work. All other requirements shall be in accordance with the applicable provisions of Section 808 of the specifications and any other sections specified therein.  
 Basis of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.
- 907-808-4002 **JOINT REPAIR WITHOUT EPOXY**  
 Description: Shall include the work necessary to repair joints in preparation for the placement of new expansion material, as designated in the detail drawings provided. Removal of existing silicone sheath, compression and S.C. spaced joint shall be done in accordance with the specifications and shall be considered as absorbed under this item of work. All other requirements shall be in accordance with the applicable provisions of Section 808 of the specifications and any other sections specified therein.  
 Basis of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint.
- 907-823-8001 **SAW CUT, TYPE I & 907-823-8002 SAW CUT, TYPE II**  
 Description: The Saw Cut Depth Shall Be Equivalent To The Installation Depth Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected.  
 Basis of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint. It Is The Contractor's Responsibility To Ensure That The Proper Depth Is Selected Based On The Manufacturer's Recommendations.
- 907-823-4001 **PREFORMED JOINT SEAL, TYPE I**  
 907-823-4002 **PREFORMED JOINT SEAL, TYPE II**  
 Description: Shall include the manufacturer's required joint preparation including sandblasting, both sides of the joint and blowing the joint free of debris. The seal shall be placed in accordance with the manufacturer's specifications.  
 Basis of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

**EPOXY MORTAR AND POLYMER CONCRETE NOTES:**

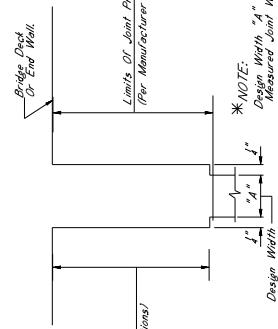
1. Specifications, Mississippi Standard Specifications For Road And Bridge Construction, 2017.  
 2. Approval Of The Director Of Structures, State Bridge Engineer, May Be Authorized By The Bridge Engineer Provided Such Changes Do Not Affect The Structural Integrity Of The Bridge. Work For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.

**GENERAL NOTES:**

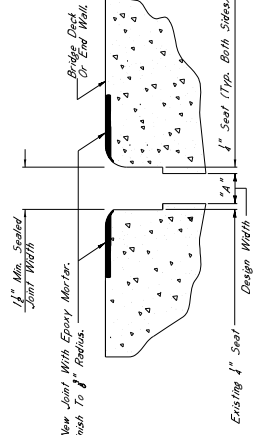
1. Specifications, Mississippi Standard Specifications For Road And Bridge Construction, 2017.  
 2. Approval Of The Director Of Structures, State Bridge Engineer, May Be Authorized By The Bridge Engineer Provided Such Changes Do Not Affect The Structural Integrity Of The Bridge. Work For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.



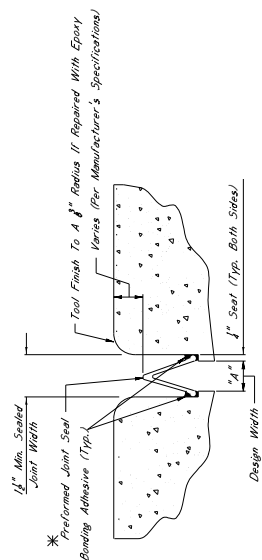
**TYPICAL SECTION AT EXISTING JOINT**  
 Showing Existing Expansion Device To Be Removed And Replaced With Preformed Joint Seal



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

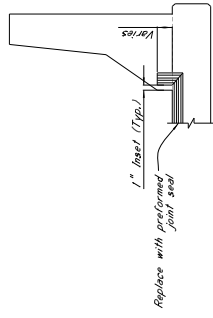


**TYPICAL SECTION AT SAWCUT & JOINT REPAIR**  
 Showing Limits Of Joint Preparation For Application Of New Joint Seal Materials And Sawcut



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

- \*NOTES:
- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
    - Silicone Joint Sealing System Manufactured By R.J. Watson, Inc. In Allen, NY [www.rjwatson.com](http://www.rjwatson.com)
    - Weldo SSS Joint Sealing System Manufactured By Watson-Bowman Acme Corporation In Amherst, NY [www.wbcorp.com](http://www.wbcorp.com)
    - Silicone SSS Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials [www.ssi.com](http://www.ssi.com)
  - For Existing Purposes, The R.J. Watson Silicone Joint Sealing System Was Used For Joint Preparation, Installation Depths And Widths, Adhesive Sealing Times, And Manufacturer Recommendations Shall Be Followed. The Manufacturer's Sealant Shall Be Applied To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint Material.
  - Joints shall be sealed at their design width, dimension "A", which is defined as the actual width both sides of the joint opening. This dimension shall be determined by the contractor. The contractor shall be responsible for ensuring that the manufacturer's recommendations are followed for joint preparation, installation depths and widths, adhesive sealing times, and manufacturer recommendations shall be followed. The contractor shall be responsible for ensuring that the contractor is properly schooled in installation of the joint material.



**ELEVATION AT END OF SPAN**

**NOTES ON ASSOCIATED ITEMS OF WORK:**

**907-808-A002 JOINT REPAIR WITH EPOXY**

**Description:**

Shall include the work necessary to repair joints in preparation for the placement of new expansion material. Shall also be included under this item of work. Removal of Existing Sealant, Epoxy, or Other Material. Epoxy Sealant Materials Will Not Be Paid For Separately. Epoxy Sealant Shall Be Installed Under This Item of Work. All Other Requirements Shall Be in Accordance With The Applicable Provisions Of Section 808 OF THE SPECIFICATIONS AND ANY OTHER SECTIONS Specified Therein.

**Basis Of Payment:**

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

**907-808-A002 JOINT REPAIR WITHOUT EPOXY**

**Description:**

Shall include the work necessary to repair joints in preparation for the placement of new expansion material. As Designated In The Detail Drawings Provided. Epoxy Sealant Of Existing Sealant, Compression And AC Sealed Joint Materials Will Not Be Paid For Separately. Epoxy Sealant Shall Be Installed Under This Item of Work. All Other Requirements Shall Be in Accordance With The Applicable Provisions Of Section 808 OF THE SPECIFICATIONS AND ANY OTHER SECTIONS Specified Therein.

**Basis Of Payment:**

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

**907-823-B001 SAW CUT, TYPE I & 907-823-B002 SAW CUT, TYPE II**

**Description:**

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

**Basis Of Payment:**

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

**907-823-A001 PREFORMED JOINT SEAL, TYPE I**

**Description:**

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

**Basis Of Payment:**

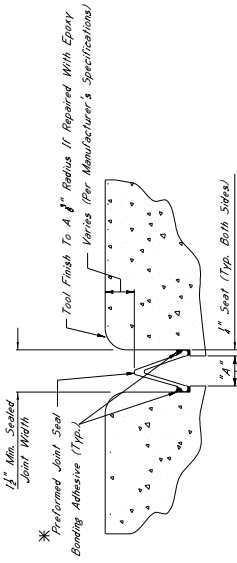
The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

**EPOXY MORTAR AND POLYMER CONCRETE NOTES:**

Either Epoxy Mortar Or Polymer Concrete May Be Used. Guidelines For Selection Of Materials Can Be Found In Section 808 OF THE SPECIFICATIONS.

**GENERAL NOTES:**

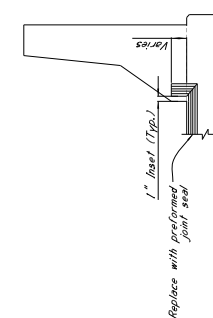
1. Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.
2. Approval Of The Director Of Structures, State Bridge Engineer, Minor Changes To Detail Of Design Or Construction Procedure May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Affect The Safety Or Structural Integrity Of The Work For Which No Pay Item Is Provided. The Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.



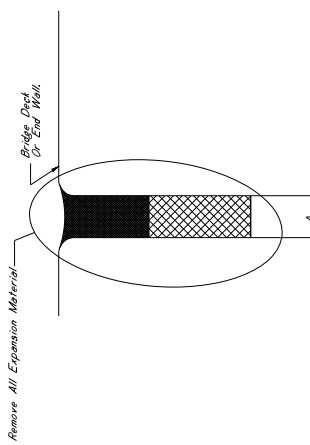
**TYPICAL SECTION AT SAWCUT & SEALED JOINT**  
Showing Sealed Joint After Sawcut And Repair With Epoxy Mortar

**\* NOTES:**

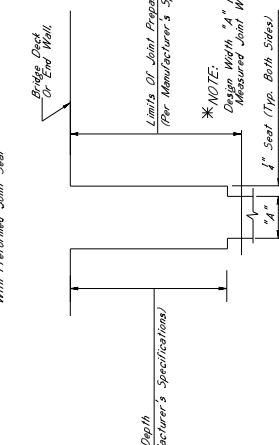
1. The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
  - A. Silcoflex Joint Sealing System  
www.walston.com
  - B. Mako SPS Joint Sealing System  
Manufactured By Walston Bowman Acme Corporation In Amherst, NY  
www.wbcorp.com
  - C. Silseal 555 Silicone Strip Seal  
Manufactured By 553 Commercial & Highway Construction Materials  
www.553.com
2. For Estimating Purposes, The R.J. Walston Silcoflex Joint Sealing System May Be Used For Design Widths Less Than 2". Preformed Joint Seal Type II Shall Be Used For Design Widths Greater Than 2". The Manufacturer's Recommendations Are Followed For Joint Preparation, Installation Details, And Weights, Adhesive, Sealing Times, And Cure Times. The Contractor Shall Be Responsible For Obtaining The Manufacturer's Approval To Ensure That The Contractor Is Properly Trained In Installation Of The Joint Material.
3. Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As Seal Width On Both Sides Of The Joint. Determination Of Seal Width Shall Be Based On The Manufacturer's Recommendations. The Contractor Shall Be Responsible For Ensuring That The Manufacturer's Recommendations Are Followed For Joint Preparation, Installation Details, And Weights, Adhesive, Sealing Times, And Cure Times. In Cases Where Design Widths Are Greater Than The Maximum Design Width Of Expansion Material Shall Be Required As Directed By The Director Of Structures, State Bridge Engineer. It Is The Contractor's Responsibility To Ensure That The Size Selected Is Appropriate For The Width Of The Joint.



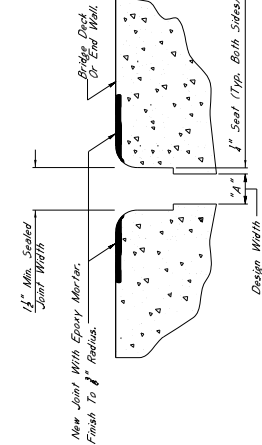
**ELEVATION AT END OF SPAN**



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



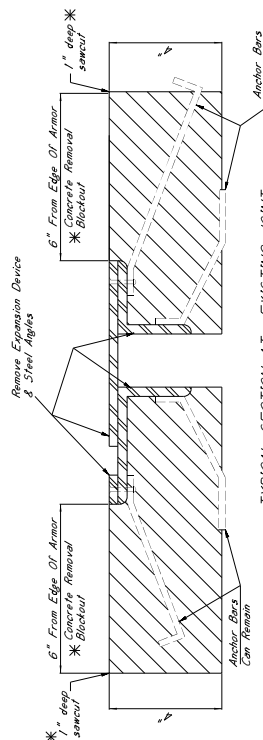
**TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT**  
Showing Limits Of Joint Preparation For Application Of New Joint Seal Materials And Sawcut



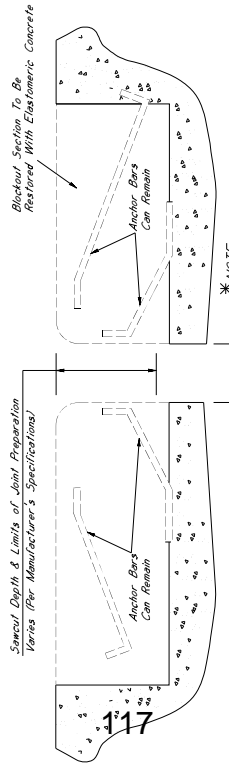
**TYPICAL SECTION AT SAWCUT & JOINT REPAIR**  
Showing Area Where Repairs Are Made After Sawcut With Epoxy Mortar Or Approved Equivalent

**\* 1" SAWCUT NOTES:**  
 All 1" Sawcuts Shall Be Considered An Absorbed Item of Work. The Contractor Shall Verify Depth of Reinforcing Steel Before Making Any Sawcuts. The Depth of The Reinforcing Steel Shall Be Repaired To The Satisfaction Of The Engineer At No Cost To The State.

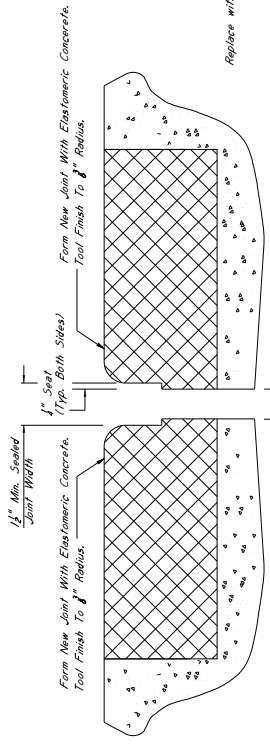
**\* CONCRETE REMOVAL BLOCKOUT NOTES**  
 Removal Of The Concrete Blockout Area Shall Be Considered An Absorbed Item Of Work Under Pay Item 202-B169. The Contractor Shall Use Hand Tools To Cut A Length Than 30" LB. To Complete This Work.



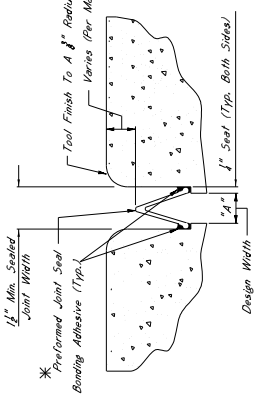
**TYPICAL SECTION AT EXISTING JOINT**  
 Showing Existing Expansion Device To Be Removed And Replaced With Performed Joint Seal



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



**TYPICAL SECTION AT SAWCUT & JOINT REPAIR**  
 Showing Area Where Repairs Are Made After Sawcut With Elastomeric Concrete



**TYPICAL SECTION AT SAWCUT & SEALED JOINT**  
 Repair With Elastomeric Concrete

**\* NOTES:**  
 1. The Performed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:  
 A. Silcrete Joint Sealing System Manufactured By R.J. Watson, Inc. In Alden, NY  
 www.rjwatson.com  
 B. Welo Joint System Manufactured By Watson Bowman Acme Corporation In Amherst, NY  
 www.wbcorp.com  
 C. Silcrete 555 Silicone Strip Seal Manufactured By 551 Commercial & Highway Construction Materials www.551.com

2. For Estimating Purposes, The R.J. Watson Silicone Joint Sealing System Was Selected. It Is The Contractor's Responsibility To Ensure That The Manufacturer's Recommendations Are Followed For All Applications. All Applications, Details, and Methods, Applicable, Sealing Times, And Air Other Information Available From The Manufacturer Shall Be Present At The Time Joint Sealing Begins. A Manufacturer Representative Shall Be Present At The Installation Of The Joint Material.  
 3. Joints Shall Be Sealed To Their Design Width. Dimension "A", Which Is Defined As Seal Applied On Both Sides Of The Joint, Performed Joint Seal, Type I, Shall Be Used For Design Purposes. For Actual Performance, The Seal Type I Shall Be Used Where Design Widths Are Greater Than 2 1/2". Another Type Of Expansion Material Shall Be Required As Directed By The Director Of Structures, To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint. Seal Materials Selected Be Appropriate For The Width Of The Joint.

**\* NOTES:**  
 For Accuracy, Signs Barriers, The Minimum Required Vertical Joint Seal Dimension With The Barrier Is 6".  
 For Post And Beam Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6".

**ELEVATION AT END OF SPAN**

**NOTES ON ASSOCIATED ITEMS OF WORK:**

- 202-B169 REMOVAL OF EXISTING JOINT MATERIAL**  
 Description: Shall Include The Removal Of Material Associated With Armor, Sliding Plates and Measuring Devices, As Designated In The Detail Drawings Provided. Removal Of The Concrete Blockout Area Shall Be Absorbed Under This Item Of Work. Other Joint Types Shall Not Be Included Under This Item Of Work Unless Otherwise Directed Of The Engineer.  
 Basis Of Payment: Removal Of Armor And Sliding Plate Joint Material Will Be Paid For In Place Along The Length Of The Centerline Of The Joint. Material Will Only Be Paid For As The Length Along The Centerline Of The Joint.  
**907-823-8001 SAW CUT, TYPE I & 907-823-8002 SAW CUT, TYPE II**  
 Description: This Saw Cut Depth Shall Be Established To The Installation Depth Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The Performed Joint Seal Selected.  
 Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At On Each Side Of The Centerline Joint.  
**907-823-4001 PERFORMED JOINT SEAL, TYPE I**  
**907-823-4002 PERFORMED JOINT SEAL, TYPE II**  
 Description: Shall Include The Manufacturer's Required Joint Preparation, Repair Of Damaged Concrete, Installation Of The Joint Free Of Debris With Compressed Air And Placement Of The New Performed Joint Seal.  
 Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Length Of The Centerline Joint.

**ELASTOMERIC CONCRETE NOTES**

- 907-824-9007 BRIDGE REPAIR ELASTOMERIC CONCRETE**  
 Description: Elastomeric Concrete Shall Be One Of The Following Products, Installed According To The Manufacturer's Specifications:  
 A. Poly-Ton Elastomeric Concrete Manufactured By R.J. Watson, Inc. In Alden, NY  
 www.rjwatson.com  
 B. WeloCrete II Manufactured By Watson Bowman Acme Corporation In Amherst, NY  
 www.wbcorp.com  
 C. Delecto Elastomeric Concrete Manufactured By The D.S. Brown Company In North Ballwin, OH  
 www.dsbrown.com  
 Basis Of Payment: The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

**GENERAL NOTES:**

- Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.
- No Change Of Plans Will Be Permitted Except By Written Approval Of The Engineer. Any Change Of Construction Procedure May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment. Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item of Work.

**NOTES ON ASSOCIATED ITEMS OF WORK:**

**202-8169 REMOVAL OF EXISTING JOINT MATERIAL**  
 Description: Shall include the removal of material associated with armor, sliding plate, and neoprene expansion joints, as designated in the detail drawings provided. Removal of material shall include the removal of neoprene joints, armor, or metal. Other joint types shall not be included under this item of work unless otherwise directed by the Engineer.

**Basis Of Payment:** Removal of armor and sliding plate joint material will be paid for in linear feet at the contract unit price along the length of the bridge deck on each side of the centerline joint. Removal of neoprene joints, armor, or metal will be paid for as the length along the centerline of the joint.

**907-823-8001 SAW CUT, TYPE I & 907-823-8002 SAW CUT, TYPE II**  
 Description: The saw cut depth shall be equivalent to the installation depth required by the manufacturer's specifications. The saw cut type shall be the same as the preformed joint seal selected.

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

**907-823-4001 PREFORMED JOINT SEAL, TYPE I**  
**907-823-4002 PREFORMED JOINT SEAL, TYPE II**  
 Description: Shall include the manufacturer's required joint preparation including sandblasting both sides of the joint and blowing the joint free of debris with compressed air and placement of the new preformed joint seal.

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

**ELASTOMERIC CONCRETE REPAIR ELASTOMERIC CONCRETE**

**907-823-4003 BRIDGE REPAIR ELASTOMERIC CONCRETE**  
 Description: Elastomeric concrete shall be one of the following products installed according to the manufacturer's specifications:

- A. Poly-Ton Elastomeric Concrete, Manufactured By R.L. Watson, Inc. In Alden, NY www.rwatson.com
- B. Wika-Silcote II, Manufactured By Wilson Bowman Acme Corporation In Amherst, NY www.wbcorp.com
- C. Polysik Elastomeric Concrete, Manufactured By The U.S. Brem Company In North Baltimore, OH www.sbr.com

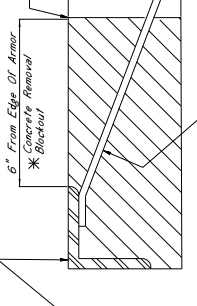
**Basis of Payment:** The accepted quantities will be paid for in cubic yards at the contract unit price.

**GENERAL NOTES:**

1. Specifications: Massachusetts Standard Specifications For Road And Bridge Construction, 2017.
2. No Change Of Plans Will Be Permitted Except By Written Approval Of The Engineer.
3. Minor Changes To Detail Or Design Or Construction Procedure May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment. Proposed Changes To Detail Or Design Or Construction Procedure Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.

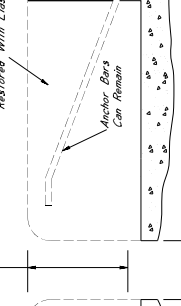
**\* CONCRETE REMOVAL BLOCKOUT NOTES**

Removal of the concrete blockout area shall be considered an absorbed item of work. The contractor shall be responsible for providing the necessary equipment and labor to complete this work. The contractor shall use a hammer no larger than 30 lbs to complete this work.



**TYPICAL SECTION AT EXISTING JOINT**

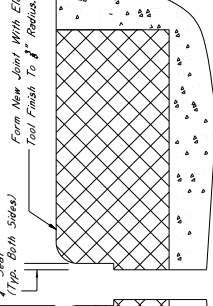
Showing Existing Elongation Grooves For Sawcut And Replaced With Preformed Joint Seal



**\* NOTE:** Sawcut depth "A" is defined as the actual measured joint width.

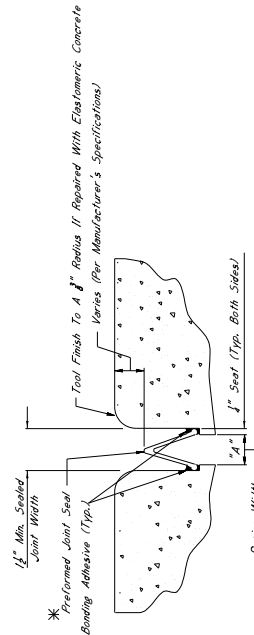
**TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL**

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



**TYPICAL SECTION AT SAWCUT & JOINT REPAIR**

Showing Area Where Repairs Are Made After Sawcut With Elastomeric Concrete

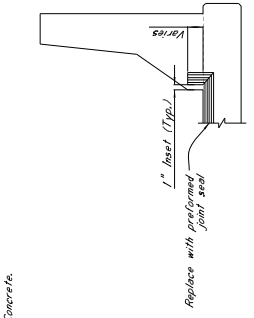


**TYPICAL SECTION AT SAWCUT & SEALED JOINT**

Showing Sawcut Used After Sawcut And Repair With Elastomeric Concrete

**\* NOTES:**

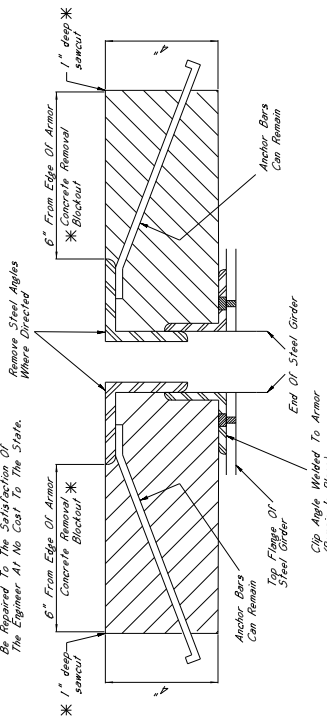
1. The preformed joint seal shall be one of the following, installed according to the manufacturer's specifications:  
 A. Silcote II Joint Sealing System, Manufactured By R.L. Watson, Inc. In Alden, NY www.rwatson.com  
 B. Wika-Silcote II Joint Sealing System, Manufactured By Wilson Bowman Acme Corporation In Amherst, NY www.wbcorp.com  
 C. Silseco 555 Silicone Strip Seal, Manufactured By SSI Commercial & Highway Construction Materials www.ssi.com
2. For estimating purposes, the R.L. Watson Silcote II Joint Sealing System was selected. However, should another supplier be chosen, it is the contractor's responsibility to ensure proper joint preparation, including sandblasting, blowing, and other various steps between the manufacturer's specifications and the contractor's specifications. The contractor is responsible for ensuring that the contractor is properly schooled in installation of the joint seal material.
3. Joints shall be sealed at their design widths, dimension "A", which is defined as the actual width of the joint opening. This width does not account for the sawcut depth. The contractor shall use a hammer no larger than 30 lbs to complete this work. The contractor shall use a hammer no larger than 30 lbs to complete this work. The contractor shall use a hammer no larger than 30 lbs to complete this work. The contractor shall use a hammer no larger than 30 lbs to complete this work.



**ELEVATION AT END OF SPAN**

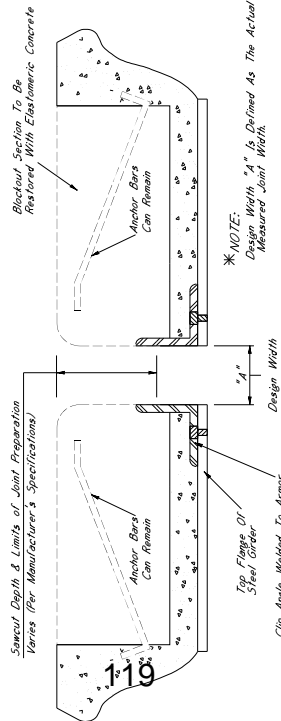
**\* 1" SAWCUT NOTES:**

All 1" Sawcuts Shall Be Considered An Absorbed Item of Work. The Contractor Shall Verify Depth of Reinforcing Steel Prior to Sawcutting. The Depth of the Sawcut Shall Be No More Than Any Damage To Reinforcing Steel Shall Be Required To The Satisfaction Of The Engineer At No Cost To The State.



**TYPICAL SECTION AT EXISTING JOINT**

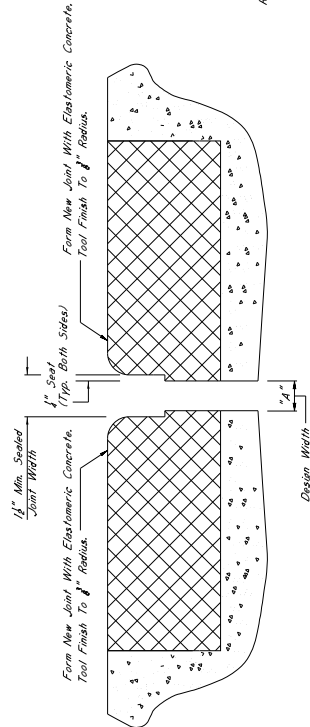
Showing Existing Existing Joint. To Be Replaced And Replaced With Performed Joint Seal



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

**TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL**

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

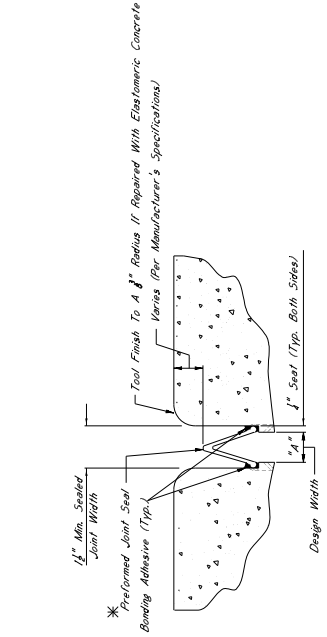


**TYPICAL SECTION AT SAWCUT & JOINT REPAIR**

Showing Area Where Repairs Are Made After Sawcut With Elastomeric Concrete

**\* CONCRETE REMOVAL BLOCKOUT NOTES**

Removal Of The Concrete Blockout Area Shall Be Considered An Absorbed Item Of Work Under Item 202-8169. The Contractor Shall Remove All Material To A Depth Of 30 Lbs To Complete This Work.



**TYPICAL SECTION AT SAWCUT & SEALED JOINT**

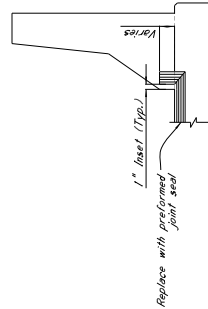
Showing Sealed Joint After Sawcut And Repair With Elastomeric Concrete

**\* NOTES:**

- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
  - Silicoflex Joint Sealing System Manufactured By R.J. Watson, Inc. In Allen, NY [www.rjwatson.com](http://www.rjwatson.com)
  - Wale SP3 Joint System Manufactured By Watson Bowman Acme Corporation In Amherst, NY [www.watsonb.com](http://www.watsonb.com)
  - Slipcrete SSS Silicone Slip Seal Manufactured By SSI Commercial & Highway Construction Materials [www.ssi.com](http://www.ssi.com)
- For Estimating Purposes, The R.J. Watson Silicone Joint Sealing System Was Selected. However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Ensure That The Manufacturer's Recommendations Are Followed. Any Other Variance Between The Specifications Provided By The Manufacturer, A Manufacturer Representative, Shall Be Present At The Time Joint Sealing Begins. Material That The Contractor Is Properly Sealed In Installation Of The Joint.
- Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As The Actual Width Of The Joint Opening. This Width Does Not Account For The Seal Required On Both Sides Of The Joint. Preformed Joint Seal, Type Shall Be Selected To Match The Design Width. The Seal Shall Be Applied To The Seal Bed For Design Widths Greater Than Or Equal To 2" With The Maximum Design Width Being 2". In Cases Where Design Widths Are Greater Than 2", Another Type Seal Shall Be Selected. The Contractor Shall Be Responsible For The Selection Of The Seal Material Selected Is Appropriate For The Width Of The Joint.

**\* NOTES:**

For Any Steps, Barings, The Minimum Required Vertical Joint Seal Dimension For Foot And Beam Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6".



**ELEVATION AT END OF SPAN**

**NOTES ON ASSOCIATED ITEMS OF WORK:**

**202-8169 REMOVAL OF EXISTING JOINT MATERIAL**

**Description:**

Shall Include The Removal Of Material Associated With Armor, Sliding Plates, And Neoprene Expansion Joints, As Well As The Concrete Blockout Area. The Contractor Shall Remove All Material To A Depth Of 30 Lbs To Complete This Work. The Concrete Blockout Area Shall Be Absorbed Under This Item Of Work. Other Joint Types Shall Not Be Included Under This Item Of Work Unless Otherwise Directed By The Engineer.

**Basis Of Payment:**

Removal Of Armor And Sliding Plate Joint Material Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length While The Bridge Deck On Each Side Of The Material Will Only Be Paid For As The Length Along The Centerline Of The Joint.

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

**Description:**

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

**Basis Of Payment:**

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

**907-823-4001 PREFORMED JOINT SEAL, TYPE I**

**907-823-4002 PREFORMED JOINT SEAL, TYPE II**

**Description:**

Shall Include The Manufacturer's Required Joint Preparation Including Sandblasting Both Sides Of The Joint And Blowing The Area Of Debris With Compressed Air And Placement Of The New Performed Joint Seal.

**Basis Of Payment:**

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

**ELASTOMERIC CONCRETE NOTES**

**907-824-8007 BRIDGE REPAIR, ELASTOMERIC CONCRETE**

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

- Poly-Ton Elastomeric Concrete Manufactured By R.L. Watson, Inc. In Allen, NY [www.rjwatson.com](http://www.rjwatson.com)
- WaleCrete II Manufactured By Watson Bowman Acme Corporation In Amherst, NY [www.watsonb.com](http://www.watsonb.com)
- Delcrete Elastomeric Concrete Manufactured By The U.S. Brown Company In North Baltimore, OH [www.usbrown.com](http://www.usbrown.com)

**Basis Of Payment:**

The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

**GENERAL NOTES:**

- Specifications, Manufacturer Standard Specifications For Road And Bridge Construction, 2017.
- No Change Of Plans Will Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer. Any Change In Specifications, Materials, Or Methods Of Construction May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment.
- Work For Which No Pay Item Is Provided In The Proposal Will Be Considered An Absorbed Item of Work.

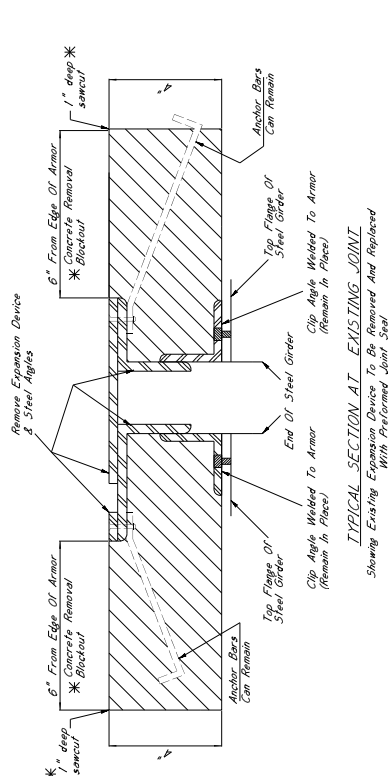


**\* 1" SAWCUT NOTES:**

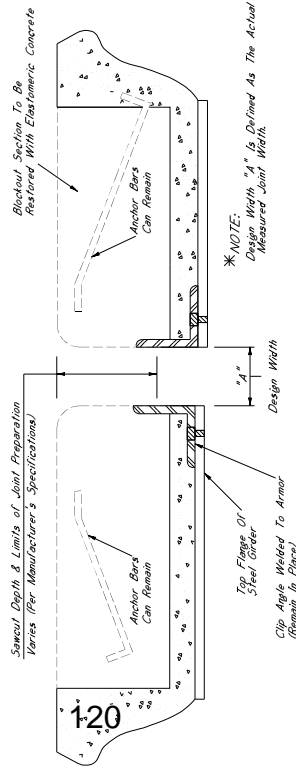
All 1" sawcuts shall be considered in Absorbed Item 202-9169. The Contractor Shall Verify Depth Of Reinforcing Steel Before Making Any Sawcuts. The Depth Of The Sawcut Shall Be No More Than 1/2" From Edge Of Concrete. The Contractor Shall Repair To The Satisfaction Of The Engineer At No Cost To The State.

**\* CONCRETE REMOVAL BLOCKOUT NOTES**

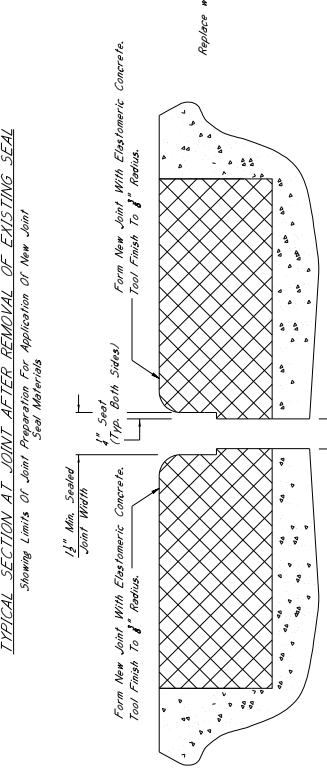
All concrete removal blockouts shall be considered in Absorbed Item 202-9169. The Contractor Shall Use A Hammer No Larger Than 30 Lbs To Complete This Work.



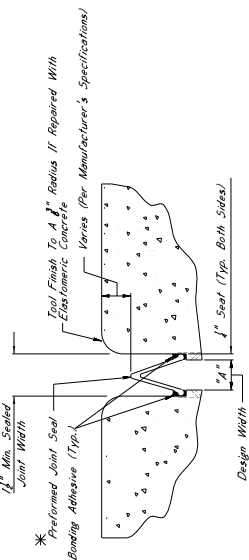
**TYPICAL SECTION AT EXISTING JOINT**  
Showing Existing Expansion Device To Be Removed And Replaced With Preformed Joint Seal



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



**TYPICAL SECTION AT SAWCUT & JOINT REPAIR**  
Showing Area Where Repairs Are Made After Sawcut With Elastomeric Concrete



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

- \* NOTES:**
- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
    - A. Silicoflex Joint Sealing System www.jackson.com
    - B. Welo SPS Joint System Manufactured By Watson Bowman Acme Corporation In Amherst, NY www.wbcorp.com
    - C. Silagoc 555 Silagum Strip Seal & Highway Construction Materials www.sscinc.com
  - For Estimating Purposes, The R.J. Watson Silicoflex Joint Sealing System Was Used For Design Widths Less Than 2". Preformed Joint Seal Type 11 Shall Be Used For Design Widths Greater Than 2". Preformed Joint Seal Type 12 Shall Be Used For Design Widths Greater Than 2". Design Widths Are Greater Than Design Widths In Cases Where Design Widths Are Greater Than Design Widths. Sealant Material Shall Be Required As Directed By The Director Of Structures. Sealant Material Shall Be Applied In A Manner That Ensures Responsibility To Ensure That The Sealant Is Properly Sealed In Installation Of The Joint Material.
  - Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As Seal Prepared On Both Sides Of The Joint. Preformed Joint Seal Type 11 Shall Be Used For Design Widths Less Than 2". Preformed Joint Seal Type 12 Shall Be Used For Design Widths Greater Than 2". Design Widths Are Greater Than Design Widths In Cases Where Design Widths Are Greater Than Design Widths. Sealant Material Shall Be Required As Directed By The Director Of Structures. Sealant Material Shall Be Applied In A Manner That Ensures Responsibility To Ensure That The Sealant Is Properly Sealed In Installation Of The Joint Material.

**NOTES ON ASSOCIATED ITEMS OF WORK:**

**202-9169 REMOVAL OF EXISTING JOINT MATERIAL**

Shall Include The Removal Of Material Associated With Armor, Sliding Plate, And Neoprene Expansion Joints, As Designated In The Detail Drawings Provided. Removal Of Material Shall Be Done In A Manner That Does Not Damage Other Joint Types. Other Joint Types Shall Not Be Included Under This Item Of Work Unless Otherwise Directed By The Engineer.

**Basis Of Payment:** Removal Of Armor And Sliding Plate Joint Material Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Material To Be Removed. Neoprene Expansion Joint Material Will Not Be Paid For As The Length Along The Centerline Of The Joint.

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

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

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

**907-823-4001 PREFORMED JOINT SEAL, TYPE I**

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

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

**907-823-4002 PREFORMED JOINT SEAL, TYPE II**

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

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

**ELASTOMERIC CONCRETE NOTES**

**907-824-0007 BRIDGE REPAIR, ELASTOMERIC CONCRETE**

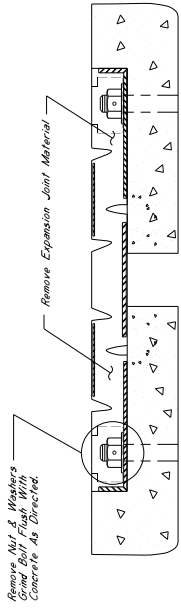
Elastomeric Concrete Shall Be One Of The Following Products, Installed According To The Manufacturer's Specifications:

- Poly-Ton Elastomeric Concrete  
Manufactured By R.J. Watson, Inc. In Alden, NY  
www.rjwatson.com
- WeloCrete II  
Manufactured By Watson Bowman Acme Corporation In Amherst, NY  
www.wbcorp.com
- Delcrete Elastomeric Concrete  
Manufactured By The D.S. Brown Company In North Ballwin, OH  
www.dsbrown.com

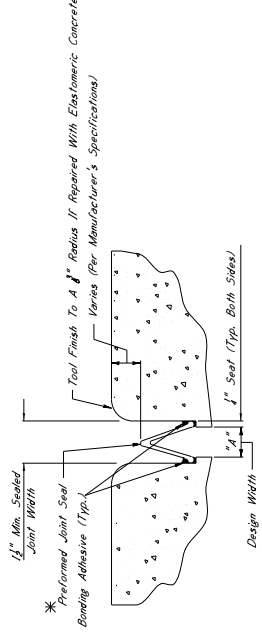
**Basis Of Payment:** The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

**GENERAL NOTES:**

- Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017 Edition, Section 202.01, 202.02, 202.03, 202.04, 202.05, 202.06, 202.07, 202.08, 202.09, 202.10, 202.11, 202.12, 202.13, 202.14, 202.15, 202.16, 202.17, 202.18, 202.19, 202.20, 202.21, 202.22, 202.23, 202.24, 202.25, 202.26, 202.27, 202.28, 202.29, 202.30, 202.31, 202.32, 202.33, 202.34, 202.35, 202.36, 202.37, 202.38, 202.39, 202.40, 202.41, 202.42, 202.43, 202.44, 202.45, 202.46, 202.47, 202.48, 202.49, 202.50, 202.51, 202.52, 202.53, 202.54, 202.55, 202.56, 202.57, 202.58, 202.59, 202.60, 202.61, 202.62, 202.63, 202.64, 202.65, 202.66, 202.67, 202.68, 202.69, 202.70, 202.71, 202.72, 202.73, 202.74, 202.75, 202.76, 202.77, 202.78, 202.79, 202.80, 202.81, 202.82, 202.83, 202.84, 202.85, 202.86, 202.87, 202.88, 202.89, 202.90, 202.91, 202.92, 202.93, 202.94, 202.95, 202.96, 202.97, 202.98, 202.99, 203.00, 203.01, 203.02, 203.03, 203.04, 203.05, 203.06, 203.07, 203.08, 203.09, 203.10, 203.11, 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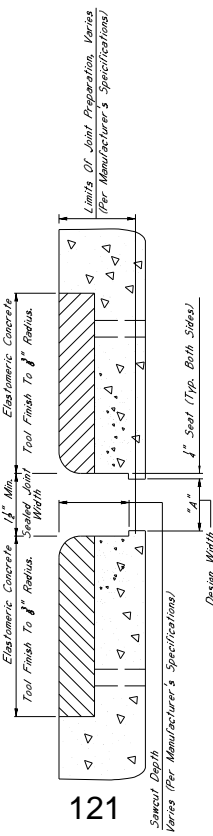
TYPICAL SECTION AT EXISTING JOINT  
Showing Existing Expansion Device To Be Removed and Replaced With Preformed Joint Seal



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

\*NOTES:

- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
  - SilicoFlex Joint Sealing System Manufactured By R.J. Watson, Inc. In Aiken, NY [www.rjwatson.com](http://www.rjwatson.com)
  - Wells 355 Joint System Manufactured By Watson Bowman Acme Corporation In Amherst, NY [www.wbcorp.com](http://www.wbcorp.com)
  - Silgrip SSS Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials [www.ssi.com](http://www.ssi.com)
- For Estimating Purposes, The R.J. Watson SilicoFlex Joint Sealing System Was Selected. However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Verify That The Selected Supplier's Product Meets The Requirements For Joint Preparation, Installation Details And Methods, Adhesive Setting Times, And Any Other Parameters Between The Specifications Provided By The Manufacturer, To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint Material.
- Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As The Actual Width Of The Joint Opening. This Width Does Not Account For The Joint Seal Strip. The Seal Strip Shall Be Installed Such That The Seal Strip Shall Be Used For Design Widths Less Than 2". Joint Preformed Joint Seal Type Shall Be Used For Design Widths Greater Than or Equal To 2". With The Maximum Design Width Of Expansion Material Shall Be As Directed By The Director Of Structures, State Bridge Engineer. It Is The Contractor's Responsibility To Ensure That The Size Selected Is Appropriate For The Width Of The Joint.



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

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

NOTES ON ASSOCIATED ITEMS OF WORK:

202-0169 REMOVAL OF EXISTING JOINT MATERIAL  
Description: Shall Include The Removal Of Material Associated With Armor, Sliding Plates, And Neoprene Expansion Joints, As Designated In The Detail Drawings Provided. Other Work Shall Be As Directed. The Removal Of Work Unless Otherwise Directed By The Engineer.

Basis Of Payment: Removal Of Armor And Sliding Plates Joint Material Will Be Paid For In Linear Feet Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint, While Removal Of Neoprene Joint Material Will Only Be Paid For As The Length Along The Centerline Of The Joint.

907-823-0001 SAW CUT, TYPE I & 907-823-0002 SAW CUT, TYPE II  
Description: The Saw Cut Depth Shall Be Equivalent To The Installation Depth Required By The Manufacturer Specifications. The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected.

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At Each Side Of The Centerline Joint.

907-823-0001 PREFORMED JOINT SEAL, TYPE I  
907-823-0002 PREFORMED JOINT SEAL, TYPE II  
Description: Shall Include The Manufacturer's Required Joint Preparation For The Seal Strip, Including The Removal Of The Material Free Of Debris With Compressed Air And Placement Of The New Preformed Joint Seal

Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At Each Side Of The Centerline Joint.

ELASTOMERIC CONCRETE REPAIR, ELASTOMERIC CONCRETE

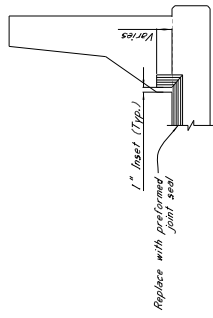
Description: Elastomeric Concrete Shall Be One Of The Following Products, Installed According To The Manufacturer's Specifications:

- Poly-Ton Elastomeric Concrete Manufactured By R.J. Watson, Inc. In Aiken, NY [www.rjwatson.com](http://www.rjwatson.com)
- WebCrete II Manufactured By Watson Bowman Acme Corporation In Amherst, NY [www.wbcorp.com](http://www.wbcorp.com)
- Dycrete Elastomeric Concrete Manufactured By The D.S. Brown Company In North Baltimore, OH [www.dsbrown.com](http://www.dsbrown.com)

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

GENERAL NOTES:

- Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.
- Approval: All Work Shall Be Approved In Advance By The Director Of Structures, State Bridge Engineer. Any Changes To Detail Of Design Or Construction Procedure May Be Authorized By The Bridge Engineer Provided Such Changes Do Not Affect The Safety Or Structural Integrity Of The Work. Work For Which No Particulars Are Provided In The Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Assorted Item of Work.



ELEVATION AT END OF SPAN

\*NOTES:

- For Jersey Slope Barriers, The Minimum Required Vertical Joint Seal Dimension Shall Be 12 Inches.
- For Jersey Slope Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6 Inches.

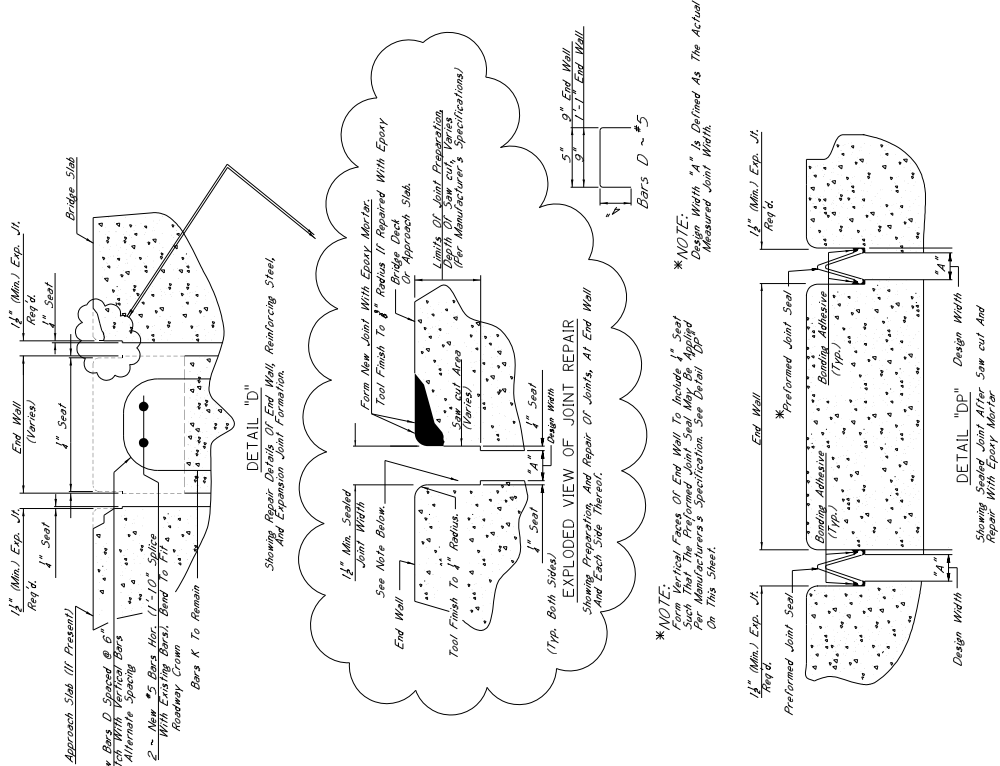
**NOTES ON ASSOCIATED ITEMS OF WORK:**

- 907-824-PP008 BRIDGE REPAIR, ENDWALL REPAIR**
- Description:** Shall include the Work Necessary To Remove And Replace The Damaged Concrete On The End Wall At The Damaged Section, The Specified Depth Of Limiting The Repair To The Damaged Section, The Specified Depth Of Endwall Shall Be Removed Along The Entire Width Of The Bridge Deck.
- Basis of Payment:** The Associated Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Width Of The Bridge Deck.
- Damage Caused To Other Elements Of The Structure Or Roadway While Completing Work Shall Be Repaired By The Contractor At No Cost To The Department.
- Prior To Placing New Concrete, All Concrete Surfaces That Will Be In Contact With The New Concrete Shall Be Painted With An Approved Epoxy Under Coated To Bond New Concrete To Old.
- New Concrete Shall Be High Early Strength Bridge Concrete, As Follows:
- The concrete mixture design shall be furnished by the Contractor for approval by the Materials Division. Mixture design parameters are as follows:
- Required Strength: 5000 psi  
 Maximum Slump: 6 inches
- Non-chloride based accelerator may be used if the ambient temperature is 50°F or less, but shall not be used if the ambient temperature is greater than 50°F. Synthetic structural fibers shall be used. The Contractor shall select a manufacturer from ADOT's Approved Products List, and the manufacturer's recommendations shall be followed for the dosage rate.
- Curing to be continuous until 2500 psi is attained. Traffic is to be diverted from the repair area until this value is reached. The Contractor may use the Ministry of Transportation 207-200-1000 for curing compound. However, final acceptance of the in-place concrete shall be determined using eight concrete test cylinders, which shall be cured in a container next to the concrete placement. Two cylinders are to be tested at 8, 16, and 24-hour intervals. The remaining cylinders shall be used to determine the 28-day compressive strength of the concrete.
- The Removal Of Existing Expansion Material May Require Any Number Of The Pay Items Associated With The Removal Of Existing Expansion Material To Be Associated With The Corresponding Joint Repair Detail Sheet For Additional Details On The Associated Items Of Work.

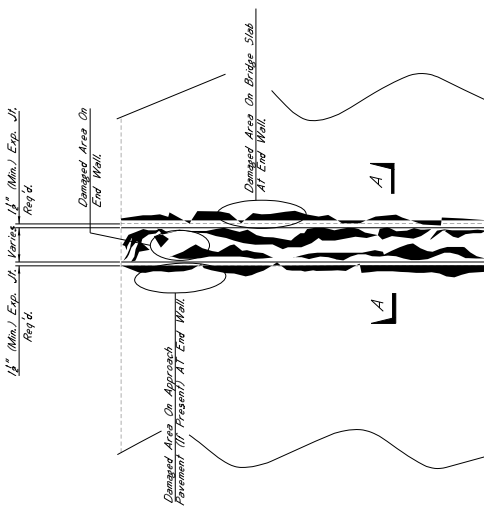
**GENERAL NOTES:**

1. No Change Of Plans Will Be Permitted Except By Writing. Approval Changes To Detail Of Design Construction May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment. Payment Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.
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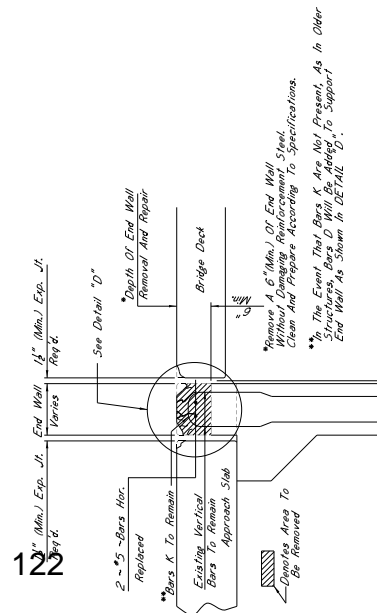


- \*NOTE:** Vertical Faces Of End Wall To Be Sealed As Per Manufacturer's Specification. See Detail Above On This Sheet.
- \*NOTE:** Design Width, A, Is Defined As The Actual Measured Joint Width.
- \*NOTE:** Vertical Faces Of End Wall To Be Sealed As Per Manufacturer's Specification. See Detail Above On This Sheet.
- \*NOTE:** Vertical Faces Of End Wall To Be Sealed As Per Manufacturer's Specification. See Detail Above On This Sheet.



**PLAN VIEW**  
Showing Existing Damaged Areas On And Around End Wall.

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**ELEVATION (SECTION A-A)**  
Showing Details Of Removal Of Damaged End Wall.

- \*NOTES:**
1. The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
    - A. Silcaflex Joint Sealing System manufactured by R.J. Watson, Inc. www.rjwatson.com
    - B. Wicks SSS Joint Sealer manufactured by Wicks-Bowman Acme Corporation
    - C. Silogee SSS Silicone Strip Seal manufactured by SSI Commercial & Highway Construction Materials www.ssi.com
  2. For Estimating Purposes, The R.J. Watson Silcaflex Joint Sealing System Was Used For Joint Preparation, Installation Details, And Widths. Adhesive Sealing Times, And A Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint Material.
  3. Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As The Actual Measured Joint Width. The Preformed Joint Seal Type I Shall Be Used For Design Widths Less Than 2". Preformed Joint Seal Type II Shall Be Used For Design Widths Greater Than 2". For The Design Widths Greater Than 2", The Design Width Shall Be Measured At The Time Joint Sealing Begins. Expansion Material Shall Be Applied As Directed By The Contractor. Structures, Sealed Is Appropriate For The Width Of The Joint.

**\*NOTE:** In The Event That Bars K Are Not Present, As In Older Structures, Bars D Will Be Added To Support End Wall As Shown In DETAIL D.

# 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 1 mile of SR 878 through the Town of Walnut Grove, and 2 miles of SR 492 through the Town of Walnut Grove, known as State Project Nos. MP-5878-40(001) / 306660301 & MP-5492-40(003) / 306660302 in Leake County.

Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
<b>Roadway Items</b>					
0010	202-B007		1,123	Square Yard	Removal of Asphalt Pavement, All Depths
0020	202-B009		456	Square Yard	Removal of Asphalt Pavement, Failed Areas
0030	202-B080		52	Square Yard	Removal of Concrete Sidewalk
0040	202-B138		8	Each	Removal of Guard Rail Bridge End Section
0050	202-B158		960	Linear Feet	Removal of Guard Rail, Including Rails, Posts and Terminal Ends
0060	202-B165		1	Each	Removal of Inlets, All Sizes
0070	202-B191		273	Linear Feet	Removal of Pipe, 8" And Above
0080	202-B240		1,576	Linear Feet	Removal of Traffic Stripe
0090	203-G001	(E)	200	Cubic Yard	Excess Excavation, FM, AH
0100	206-A001	(S)	128	Cubic Yard	Structure Excavation
0110	206-B001	(E)	113	Cubic Yard	Select Material for Undercuts, Contractor Furnished, FM
0120	216-A001		44	Square Yard	Solid Sodding
0130	304-A004	(GY)	371	Cubic Yard	Granular Material, LVM, Class 5, Group C
0140	403-A003	(BA1)	275	Ton	12.5-mm, ST, Asphalt Pavement
0150	403-A015	(BA1)	4,850	Ton	9.5-mm, ST, Asphalt Pavement
0160	403-B003	(BA1)	163	Ton	12.5-mm, ST, Asphalt Pavement, Leveling
0170	406-D001		40,660	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0180	407-A001	(A2)	4,090	Gallon	Asphalt for Tack Coat
0190	503-C010		871	Linear Feet	Saw Cut, Full Depth
0200	601-B001	(S)	1	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0210	602-A001	(S)	70	Pounds	Reinforcing Steel
0220	603-ALT001	(S)	15	Linear Feet	12" Type A Alternate Pipe
0230	603-ALT003	(S)	118	Linear Feet	18" Type A Alternate Pipe
0240	603-ALT006	(S)	22	Linear Feet	24" Type A Alternate Pipe
0250	603-CE002	(S)	31	Linear Feet	22" x 13" Concrete Arch Pipe, Class A III
0260	603-CE015	(S)	87	Linear Feet	36" x 23" Concrete Arch Pipe, Class A IV
0270	604-B001		180	Pounds	Gratings
0280	606-B003		560	Linear Feet	Guard Rail, Class A, Type 1, 'W' Beam, Metal Post
0290	606-D020		8	Each	Guard Rail, Bridge End Section, Type H, Metal Post
0300	606-E005		8	Each	Guard Rail, Terminal End Section, Flared
0310	608-B001	(S)	9	Square Yard	Concrete Sidewalk, With Reinforcement
0320	618-A001		1	Lump Sum	Maintenance of Traffic
0330	619-A1001		12	Mile	Temporary Traffic Stripe, Continuous White
0340	619-A2001		12	Mile	Temporary Traffic Stripe, Continuous Yellow

Line no.	Item Code	Adj Code	Quantity	Units	Description Fixed Unit Price
0350	619-A4002		6	Mile	Temporary Traffic Stripe, Skip Yellow
0360	619-A5001		12,216	Linear Feet	Temporary Traffic Stripe, Detail
0370	619-A6001		1,510	Square Feet	Temporary Traffic Stripe, Legend
0380	619-D1001		214	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0390	619-D2001		502	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0400	619-G4001		36	Linear Feet	Barricades, Type III, Double Faced
0410	619-G4005		48	Linear Feet	Barricades, Type III, Single Faced
0420	620-A001		1	Lump Sum	Mobilization
0430	626-C002		6	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0440	626-D001		2	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0450	626-E001		4	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0460	626-G001		575	Linear Feet	Thermoplastic Detail Stripe, Blue-ADA
0470	626-G004		4,441	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0480	626-G005		1,092	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
0490	626-H001		955	Square Feet	Thermoplastic Double Drop Legend, White
0500	627-J001		660	Each	Two-Way Clear Reflective High Performance Raised Markers
0510	627-L001		335	Each	Two-Way Yellow Reflective High Performance Raised Markers
0520	630-F006		32	Each	Delineators, Guard Rail, White
0530	630-G003		4	Each	Type 3 Object Markers, OM-3L, Post Mounted
0540	630-G007		4	Each	Type 3 Object Markers, OM-3R, Post Mounted
0550	907-619-B001		132	Linear Feet	Temporary Portable Rumble Strips
0560	907-619-E3001		3	Each	Changeable Message Sign
0570	907-626-H001		7	Each	Thermoplastic Legend, Blue-ADA Handicap Symbol
<b>ALTERNATE GROUP AA NUMBER 1</b>					
0580	304-G001	(GY)	15	Cubic Yard	Size 3/4" and Down Crushed Stone Base, AEA
<b>ALTERNATE GROUP AA NUMBER 2</b>					
0590	304-G002	(GY)	15	Cubic Yard	Size 610 Crushed Stone Base, AEA
<b>ALTERNATE GROUP AA NUMBER 3</b>					
0600	304-G003	(GY)	15	Cubic Yard	Size 825B Crushed Stone Base, AEA
<b>Bridge Items</b>					
0610	907-808-A002	(S)	828	Linear Feet	Joint Repair
0620	907-823-A001		273	Linear Feet	Preformed Joint Seal, Type I
0630	907-823-A002		141	Linear Feet	Preformed Joint Seal, Type II
0640	907-823-B001		546	Linear Feet	Saw Cut, Type I
0650	907-823-B002		282	Linear Feet	Saw Cut, Type II

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-5878-40(001)/ 306660301000 & MP-5492-40(003)/ 306660302000**

in **Leake** \_\_\_\_\_ 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-5878-40(001)/ 306660301000 & MP-5492-40(003)/ 306660302000

LOCATED IN THE COUNTY(IES) OF Leake

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-5878-40(001)/ 306660301000 & MP-5492-40(003)/ 306660302000

LOCATED IN THE COUNTY(IES) OF: Leake

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 1 mile of SR 878 through the Town of Walnut Grove, and 2 miles of SR 492 through the Town of Walnut Grove, known as State Project Nos. MP-5878-40(001) / 306660301 & MP-5492-40(003) / 306660302 in Leake County.**

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

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

\_\_\_\_\_  
(Witness)

\_\_\_\_\_  
(Principal) (Seal)

By: \_\_\_\_\_  
(Name) (Title)

\_\_\_\_\_  
(Surety) (Seal)

\_\_\_\_\_  
(Witness)

By: \_\_\_\_\_  
(Attorney-in-Fact)

\_\_\_\_\_  
(MS Agent)

\_\_\_\_\_  
Mississippi Insurance ID Number



