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SM No. CMP5043610111

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

16

Mill & Overlay approximately 3 miles of SR 43 from south of I-20 to Pelahatchie,
known as State Project No. MP-5043-61(011) / 307913301 in Rankin County.

Project Completion: 49 Working Days

(STATE DELEGATED)

NOTICE

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

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

**SECTION 900
OF THE CURRENT
2017 STANDARD SPECIFICATIONS
FOR ROAD AND BRIDGE CONSTRUCTION
JACKSON, MISSISSIPPI**

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION
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PROJECT: MP-5043-61(011)/307913301 - Rankin

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OF SECTION 905 AS ADDENDA)

10/27/2022 04:31 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Tuesday, November 22, 2022, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Mill & Overlay approximately 3 miles of SR 43 from south of I-20 to Pelahatchie, known as State Project No. MP-5043-61(011) / 307913301 in Rankin County.

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

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

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

Contractors may request permission to bid online at <http://shop.mdot.ms.gov> at no cost. Upon approval, Contractors shall be eligible to submit a bid using Bid Express at <http://bidx.com>. Specimen proposals may be viewed and downloaded online at no cost at <http://mdot.ms.gov> or purchased online at <http://shop.mdot.ms.gov> at a cost of Ten Dollars (\$10.00) per proposal plus a small convenience fee. Cash or checks will not be accepted as payment.

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

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

BRAD WHITE
EXECUTIVE DIRECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO NOTICE TO BIDDERS NO. 1

DATE: 06/08/2021

SUBJECT: Governing Specifications

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1

CODE: (IS)

DATE: 03/01/2017

SUBJECT: Governing Specifications

The current (2017) Edition of the Standard Specifications for Road and Bridge Construction adopted by the Mississippi Transportation Commission is made a part hereof fully and completely as if it were attached hereto, except where superseded by special provisions, or amended by revisions of the Specifications contained within this proposal. Copies of the specification book may be purchased from the MDOT Construction Division, or online at shopmdot/default.aspx?StoreIndex=1.

A reference in any contract document to controlling requirements in another portion of the contract documents shall be understood to apply equally to any revision or amendment thereof included in the contract.

In the event the plans or proposal contain references to the 2004 Edition of the Standard Specifications for Road and Bridge Construction, it is to be understood that such references shall mean the comparable provisions of the 2017 Edition of the Standard Specifications.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3

CODE: (SP)

DATE: 01/17/2017

SUBJECT: Final Clean-Up

Immediately prior to final inspection for release of maintenance, the Contractor shall pick up, load, transport and properly dispose of all litter from the entire highway right-of-way that is within the termini of the project.

Litter shall include, but not be limited to, solid wastes such a glass, paper products, tires, wood products, metal, synthetic materials and other miscellaneous debris.

Litter removal is considered incidental to other items of work and will not be measured for separate payment.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 9

CODE: (IS)

DATE: 03/01/2017

SUBJECT: Federal Bridge Formula

Bidders are hereby advised that the latest revision of Federal Highway Administration Publication No. FHWA-HOP-06-105, **BRIDGE FORMULA WEIGHTS**, dated August 2006, is made a part of this contract when applicable.

Prior to the preconstruction conference, the Contractor shall advise the Engineer, in writing, what materials, if any, will be delivered to the jobsite via Interstate route(s).

Copies of the **BRIDGE FORMULA WEIGHTS** publication may be obtained by contacting:

Federal Highway Administration
400 7th Street, SW
Washington, DC 20590
(202) 366-2212

or

http://www.ops.fhwa.dot.gov/Freight/publications/brdg_frm_wgths/bridge_formula_all_rev.pdf

An on line **BRIDGE FORMULA WEIGHTS CALCULATOR** is available at

http://ops.fhwa.dot.gov/freight/sw/brdgcalc/calc_page.htm

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

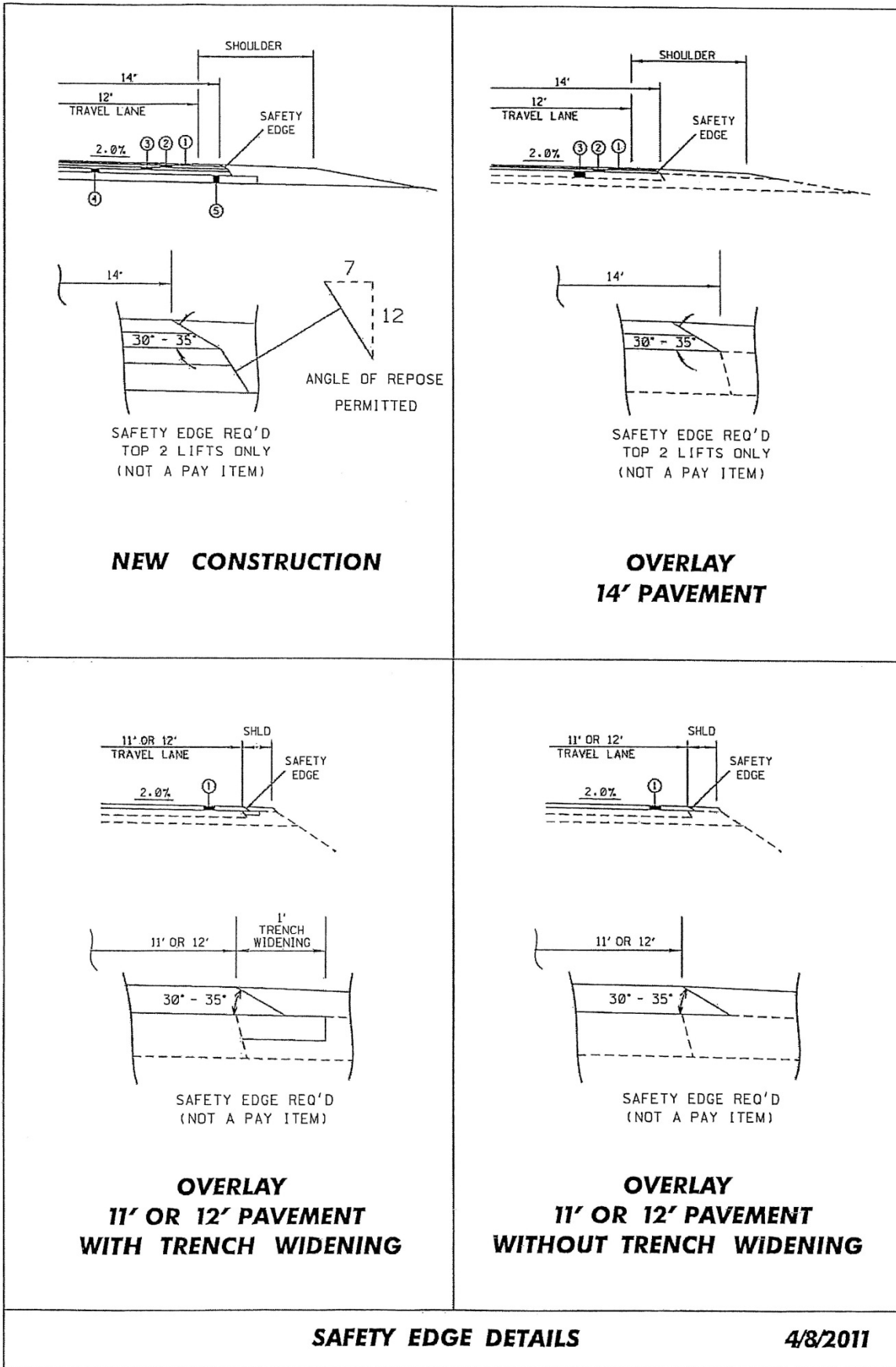
SECTION 904 - NOTICE TO BIDDERS NO. 13

CODE: (IS)

DATE: 03/01/2017

SUBJECT: Safety Edge

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



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO NOTICE TO BIDDERS NO. 14

DATE: 07/06/2022

PROJECT: MP-5043-61(011) / 307913301 -- Rankin County

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

Name Insured: Kansas City Southern Railroad

Description and Designation: SR 43 approximately 400' south of U.S. Highway 80 in Pelahatchie, MS

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

Kansas City Southern Railroad
Sylvia Schmidt
Permit Manager
Jones Lang LaSalle Americas, Inc.
3017 Lou Menk Drive, Suite 100
Fort Worth, Texas 76131-2800
817-230-2688

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 14

CODE: (SP)

DATE: 01/17/2017

SUBJECT: Railway-Highway Provisions

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

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

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

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

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

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

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

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

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

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

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. 246

CODE: (SP)

DATE: 06/27/2017

SUBJECT: Kansas City Southern Construction Requirements

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

The Contractor shall submit to the Project Engineer and the Railroad detailed plans and design data for temporary construction clearances, stages of construction, erection plans, demolition plans, false-work plans, excavation plans, and temporary shoring plans and calculations, as required, and shall be sealed by a Mississippi Registered Professional Engineer. All submittals must be approved by the Railroad before excavation or construction can begin within Railroad Right-of-Way. All construction submittals for work performed within the Kansas City Southern Railway Company (KCS) right-of-way shall be made per the KCS “Guidelines for the Design and Construction of Railroad Overpasses and Underpasses” as updated in May 2008.

Prior to beginning any work on the KCS right-of-way, the Contractor shall obtain a Right of Entry Permit. To request a permit application, the Contractor should contact Sylvia Schmidt. Mrs. Schmidt’s contact information is as follows.

Sylvia Schmidt
Permit Manager
Jones Lang LaSalle Americas, Inc.
3017 Lou Menk Drive, Suite 100
Fort Worth, Texas 76131-2800
817-230-2688

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

This project will require construction activities on the right-of-way of active railroad tracks which are currently owned and/or operated by KCS. When work requires that equipment or personnel be within the KCS right-of-way or the “foul zone” adjacent to the right-of-way, a qualified “Employee-in-Charge” (EIC) must be present for the purpose of providing on-track safety and flagging protection for the work crews. The EIC shall also be responsible for the coordination of the Contractor’s activities within the KCS right-of-way with the operation of the Railroad. The EIC must be certified under the KCS General Code of Operation Rules (GCOR) and must be approved by the local KCS Roadmaster prior to beginning work on the KCS right-of-way. The Contractor will be required to provide radios for the EIC, all equipment operators, supervisors, and foremen in charge of employees working within the KCS right-of-way. All personnel who must enter upon the KCS right-of-way must check in and out with the EIC and be logged in and out of the site.

All personnel who must work within the KCS right-of-way at any time shall be trained and certified as a KCS "Roadway Worker" and must at all times have their certification card with them and available for random inspection. The Contractor will be responsible for providing this training for Contractor employees or any subcontractor(s) employees. The Contractor shall contact Mr. Larry Slater of Track Sense Inc. at 330-847-8661 or 330-219-4721 (lslater@neo.rr.com) for approximate fees and scheduling the necessary training sessions. The Contractor shall also contact the MDOT Project Engineer to see if any MDOT employees need this training. If so, the Contractor shall include the MDOT employees in the list of participants for training. The Contractor shall bear the cost of training the MDOT employees. Costs for training the MDOT employees will be reimbursed to the Contractor by supplemental agreement.

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 296

CODE: (SP)

DATE: 07/25/2017

SUBJECT: Reduced Speed Limit Signs

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 445

CODE: (SP)

DATE: 10/10/2017

SUBJECT: Mississippi Agent or Qualified Nonresident Agent

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 446

CODE: (SP)

DATE: 10/18/2017

SUBJECT: Traffic on Milled Surface in Urban Areas

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 516

CODE: (IS)

DATE: 11/28/2017

SUBJECT: Errata and Modifications to the 2017 Standard Specifications

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

725 702.08.3 In the second sentence of the first paragraph, change “hot-mix” to “asphalt.”

954 804.02.13.1.6 In the definition for “M” in the % Reduction formulas, change “paragraph 7.3” to “paragraph 5.3.”

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1225

CODE: (SP)

DATE: 11/13/2018

SUBJECT: Early Notice to Proceed

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1226

CODE: (IS)

DATE: 11/16/2018

SUBJECT: Material Storage Under Bridges

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1241

CODE: (IS)

DATE: 11/27/2018

SUBJECT: Fuel and Material Adjustments

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1963

CODE: (SP)

DATE: 9/23/2019

SUBJECT: Guardrail Pads

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2206

CODE: (IS)

DATE: 01/14/2020

SUBJECT: MASH Compliant Devices

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

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2273

CODE: (SP)

DATE: 02/12/2020

SUBJECT: Mississippi Special Fuel Tax Law

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

Gasoline and Dyed Diesel Used for Non-Highway Purposes

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

Gasoline Used for Non-Highway Purposes

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

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

Refund Gasoline User

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

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

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

Refund Gasoline Dealer

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

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

Dyed Diesel Used for Non-Highway Purposes

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

Dyed Diesel Used on the Highway

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

Identifying Dyed Diesel

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



Special Fuel Used on Government Contracts

State and Local Government Contracts

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

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

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

Special Fuel Direct Pay Permit

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

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

Special Fuel Distributors

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

Environmental Protection Fee

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

Penalties

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



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2895

CODE: (SP)

DATE: 10/14/2020

SUBJECT: Exploratory Joint Cleanout

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2954

CODE: (IS)

DATE: 12/01/2020

SUBJECT: Reflective Sheeting for Signs

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

Temporary Construction Signs

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

Permanent Signs

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

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

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

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

STATE PROJECT NO.
MISS.

ELEVATION FROM C ROADWAY

** 25'-0" ** 6'-0" ± 3'-1/2" 6'-0" ± 3'-1/2" 6'-0" ± 3'-1/2" 6'-0" ± 3'-1/2" 6'-0" ± 3'-1/2" 6'-0" ± 3'-1/2"

SEE GUARDRAIL SPLICE DETAIL

SECTION A-A

* NOTE: UNLESS SPECIFIED OTHERWISE ON THE PLANS.

SINGLE-FACED BARRIER

DOUBLE-FACED BARRIER

MSDP
WORKING NUMBER
CR-1
SHEET NUMBER
0201

GENERAL NOTES:

- GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 180, CLASS A-1 UNLESS OTHERWISE DESIGNATED.
- GUARDRAIL SHALL BE SINGLE FACED UNLESS OTHERWISE DESIGNATED.
- GUARDRAIL SECTIONS SHALL BE LAPPED IN THE DIRECTION THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL IS TO BE LAPPED FOR APPROACHING HIGH-RISE ON A BRIDGE WITH 2-WAY I-H-H-C.
- ALL WOOD POSTS AND BLOCKOUTS SHALL BE TREATED TIMBER IN ACCORDANCE WITH MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS & RAIL ELEMENTS, SEE AASHTO-R20-AUTRA JOINT TASK FORCE NO. 12, TITLED "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE," LATEST EDITION.

ELEVATION FROM C ROADWAY

** 25'-0" ** 6'-0" ± 3'-1/2" 6'-0" ± 3'-1/2" 6'-0" ± 3'-1/2" 6'-0" ± 3'-1/2"

SEE GUARDRAIL SPLICE DETAIL

SECTION A-A

* NOTE: UNLESS SPECIFIED OTHERWISE ON THE PLANS.

DETAILS OF ADJUSTABLE HEIGHT BLOCKOUT ASSEMBLY

SECTION

ELEVATION

DETAILS OF GUARDRAIL SPLICE DETAIL

SECTION

NOTES:

- ON INITIAL INSTALLATION, THE BLOCKOUT SHALL BE ATTACHED TO THE BOTTOM HOLE IN THE POST. OTHER HOLES IN THE POST AND BLOCKOUT ARE FOR FUTURE 2" HEIGHT ADJUSTMENT WHEN THE ROADWAY IS RESURFACED.
- WOOD POSTS ARE FABRICATED FROM 6" X 8" TREATED TIMBER AND BLOCKOUTS ARE FABRICATED FROM 6" X 12" TREATED TIMBER UNLESS SPECIFIED OTHERWISE ON THE PLANS.
- ALL HOLES IN BOTH POSTS AND BLOCKOUTS ARE 3/4" IN DIAMETER.

TYPICAL GUARDRAIL SECTION

FASTENER DETAILS

HEX NUT AND BOLT "F"

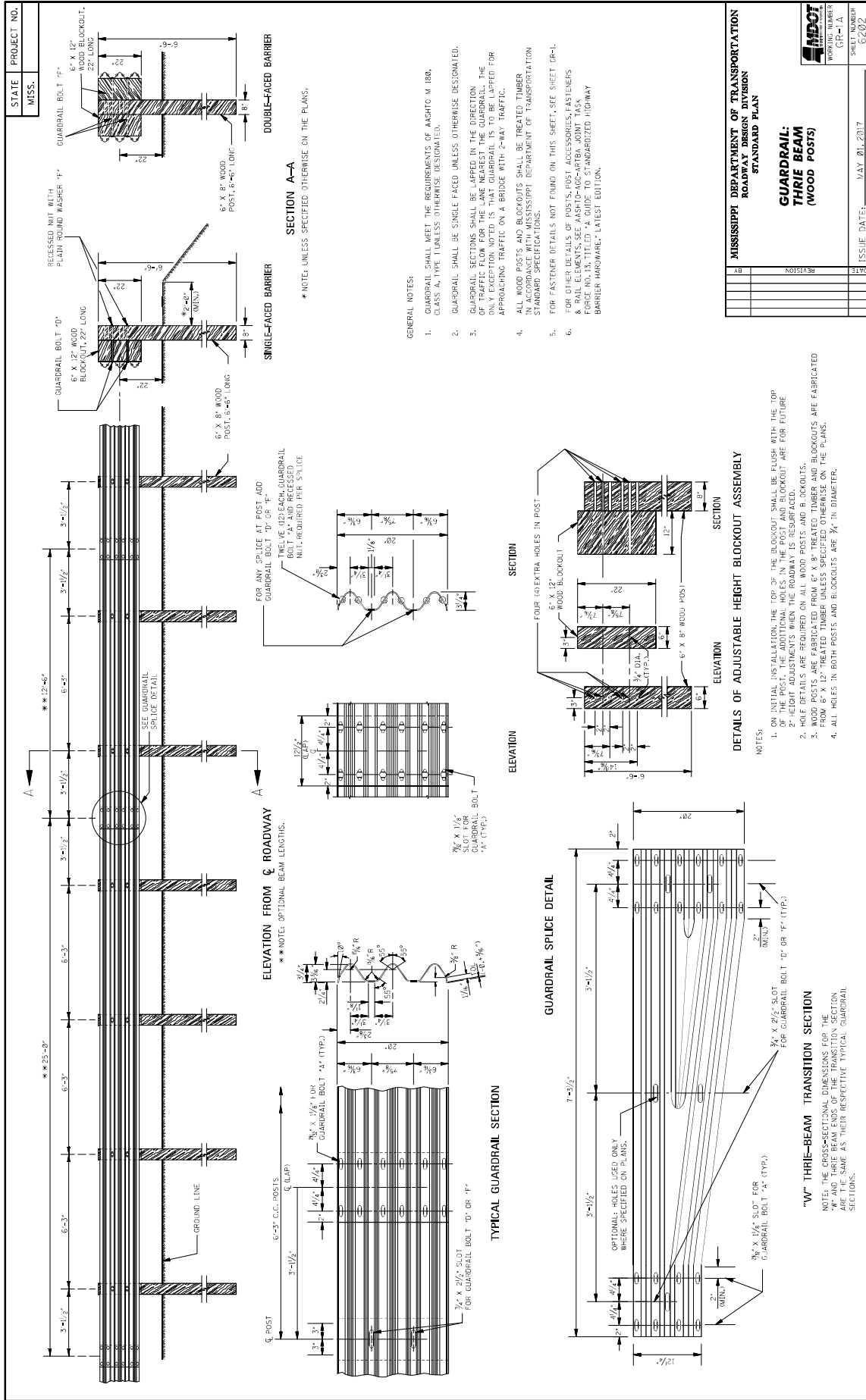
PLAIN ROUND WASHER "F"

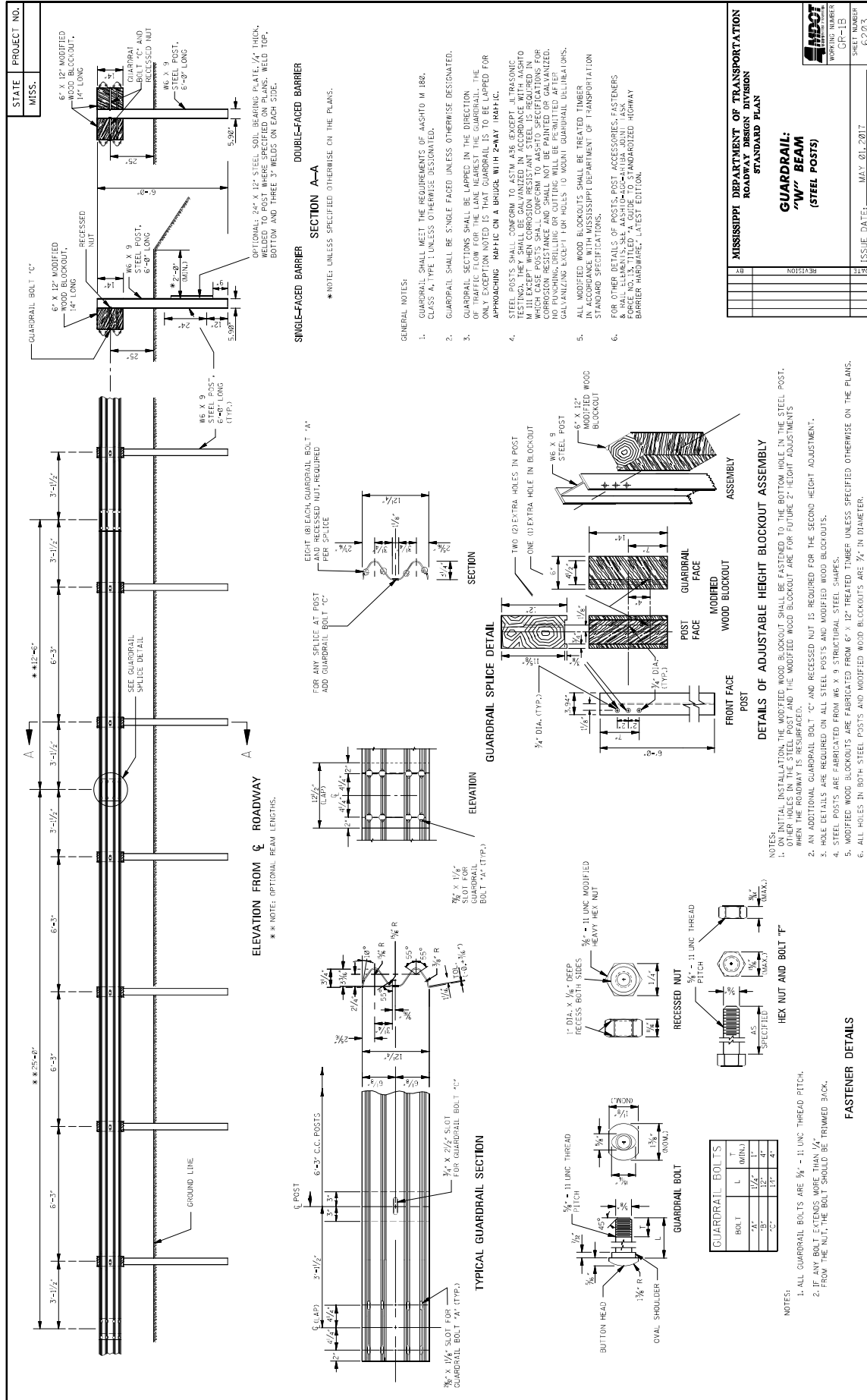
RECESSED NUT

GUARDRAIL BOLT

GUARDRAIL BOLTS	
BOLT	T (MIN)
1"	33"
3/4"	27"
5/8"	24"
1/2"	21"

31





DATE	REVISION

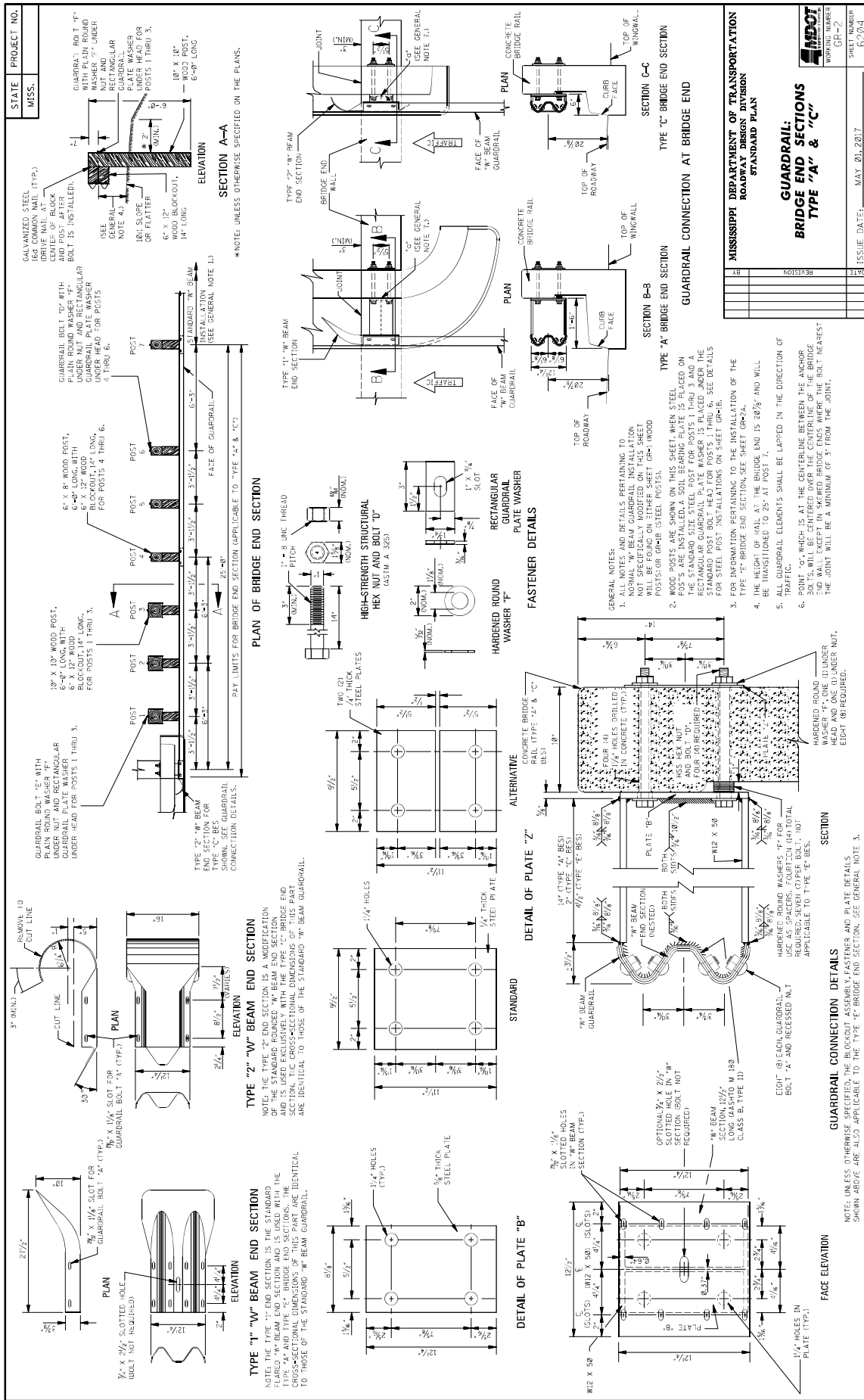
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

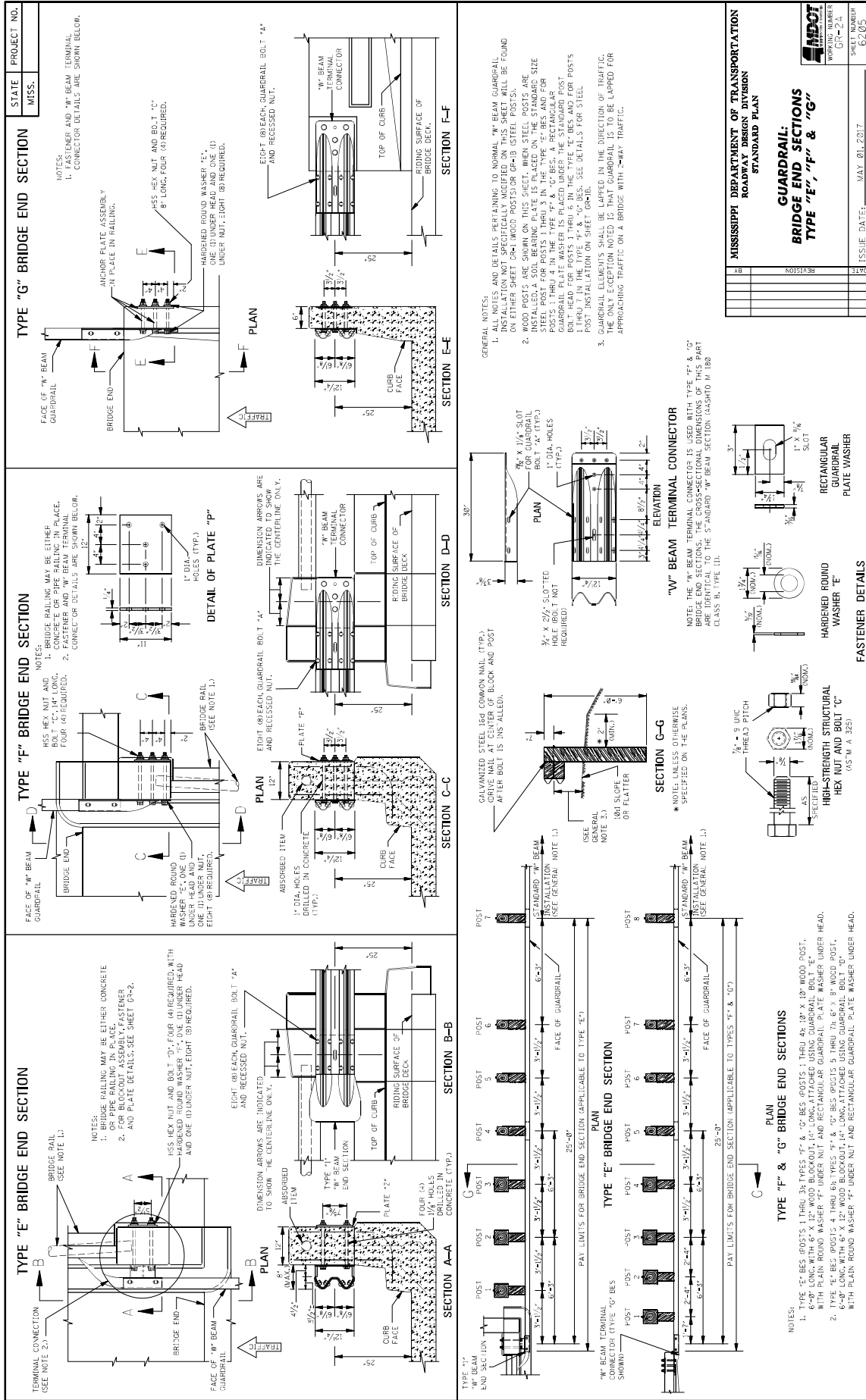
GUARDRAIL:
"W" BEAM
(STEEL POSTS)

WORKING NUMBER
GH-15

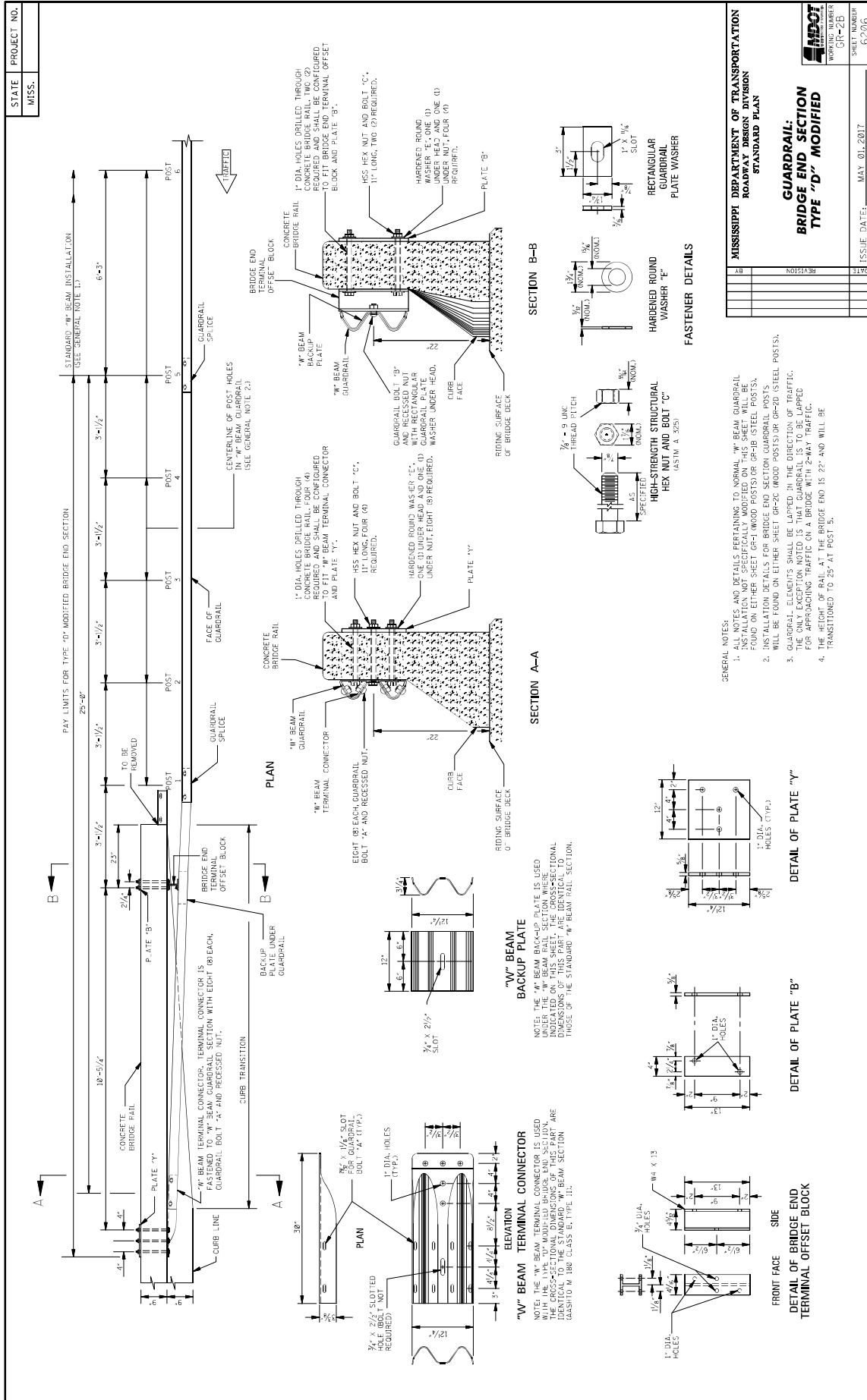
SHEET NUMBER
6283

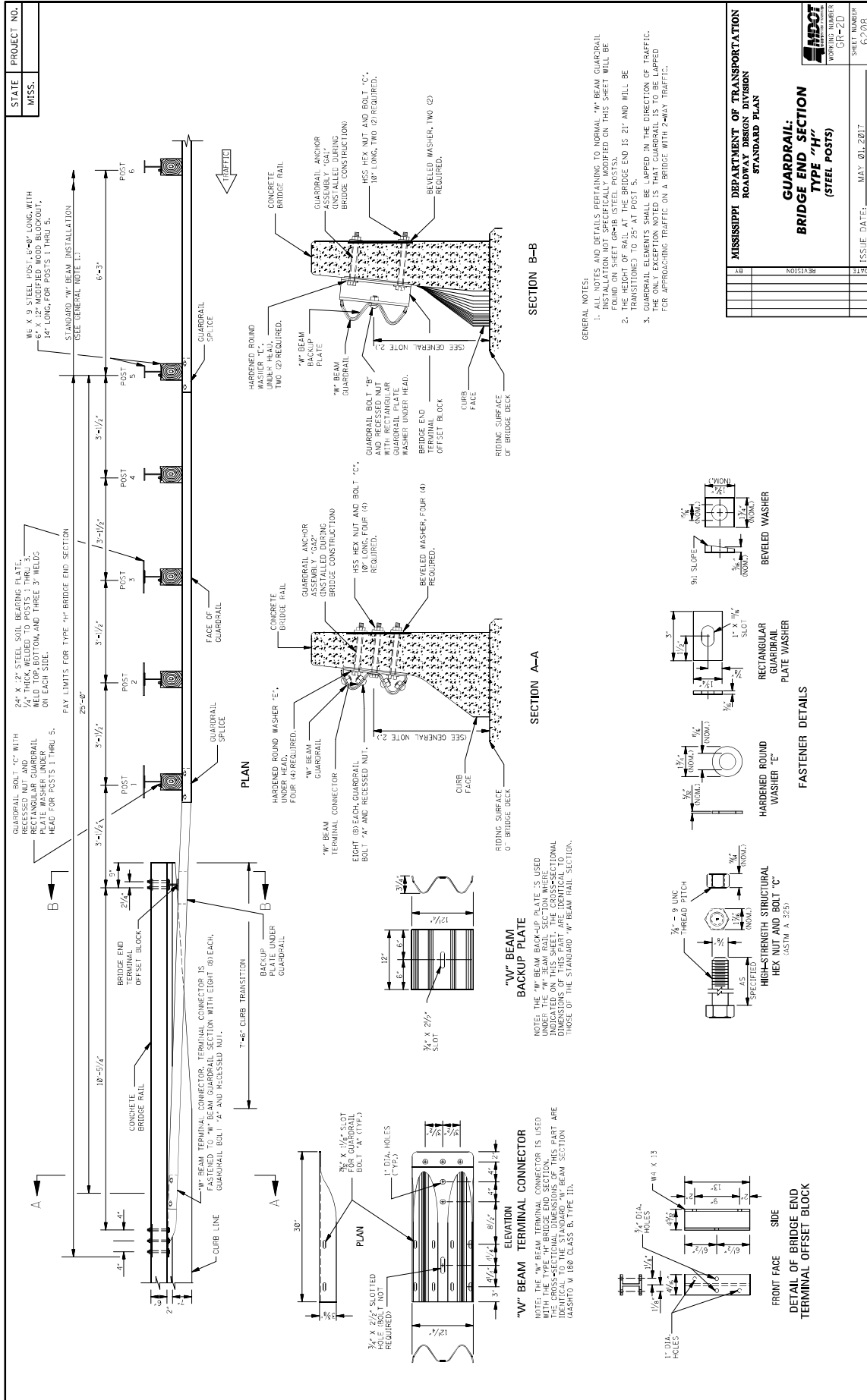
ISSUE DATE: MAY 01, 2011





STATE MISS.		PROJECT NO.	
MISS.			
MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN			
GUARDRAIL: BRIDGE END SECTIONS TYPE "E", "F" & "G"			
DATE	REVISION	WORKING NUMBER	SHEET NUMBER
		GH-24	62.05
ISSUE DATE:	MAY 01, 2017		





STATE	PROJECT NO.
MISS.	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
GUARDRAIL: BRIDGE END SECTION TYPE "H" (STEEL POSTS)	
DATE	ISSUE DATE: MAY 01, 2017
BY	WORKING NUMBER: GH-ZU
	SHEET NUMBER: 02/05

- GENERAL NOTES:
1. ALL DIMENSIONS AND DETAILS PERTAINING TO NORMAL "H" BEAM GUARDRAIL INSTALLATION NOT SPECIFICALLY MODIFIED ON THIS SHEET WILL BE FOUND ON SHEET GR-B (STEEL POSTS).
 2. THE HEIGHT OF RAIL AT THE BRIDGE END IS 21" AND WILL BE TRANSITIONED TO 29" AT POST 5.
 3. GUARDRAILS ARE TO BE INSTALLED IN THE DIRECTION OF TRAFFIC. THE ONLY EXCEPTION NOTED IS THAT GUARDRAIL IS TO BE LAPPED FOR APPROACHING TRAFFIC ON A BRIDGE WITH 2-WAY TRAFFIC.

SECTION B-B

SECTION A-A

FASTENER DETAILS

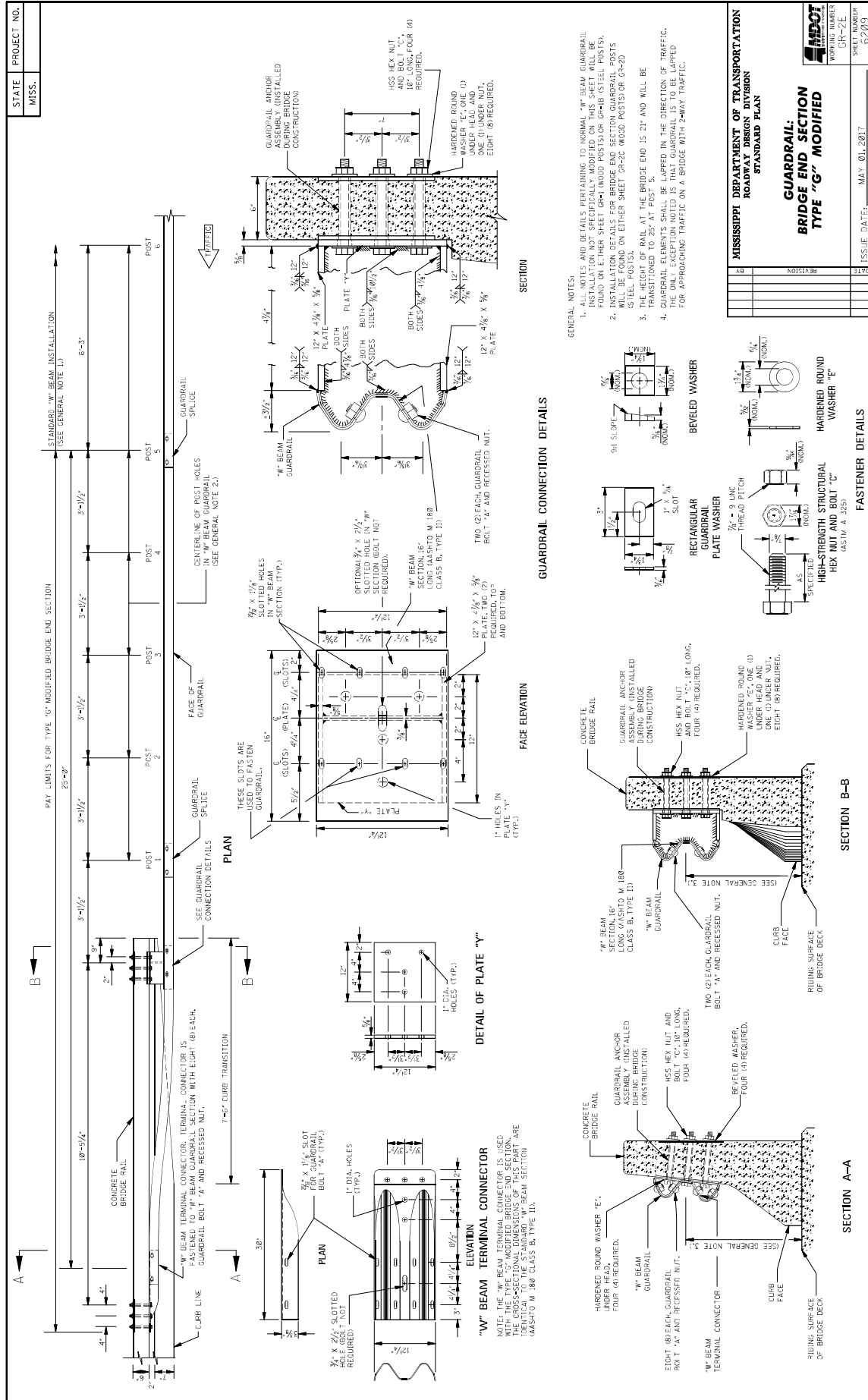
"W" BEAM BACKUP PLATE

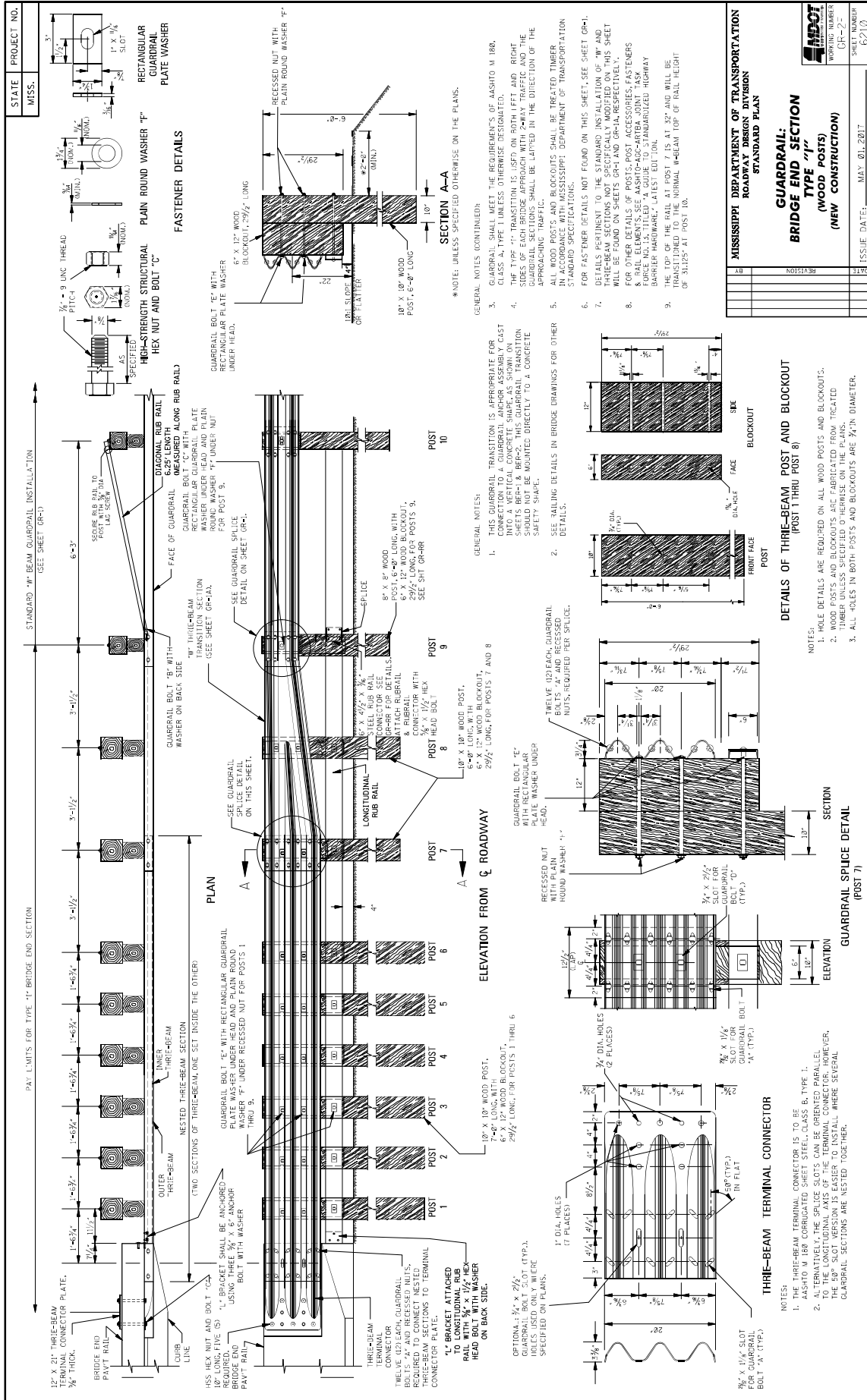
NOTE: THE "W" BEAM BACKUP PLATE IS USED UNDER THE "H" BEAM RAIL SECTION WHERE INDICATED ON THIS SHEET. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE THOSE OF THE STANDARD "W" BEAM RAIL SECTION.

"W" BEAM TERMINAL CONNECTOR

NOTE: THE "W" BEAM TERMINAL CONNECTOR IS USED WITH THE TYPE "H" BRIDGE END SECTION WHERE INDICATED ON THIS SHEET. THE CROSS-SECTIONAL DIMENSIONS OF THIS PART ARE THOSE OF THE STANDARD "W" BEAM RAIL SECTION.

DETAIL OF BRIDGE END TERMINAL OFFSET BLOCK





STATE	MISS.
PROJECT NO.	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
GUARDRAIL: BRIDGE END SECTION TYPE "1" (WOOD POSTS) (NEW CONSTRUCTION)	
DATE	ISSUE DATE: MAY 01, 2017
REVISION	WORKING NUMBER CH-2
	SHEET NUMBER 6210

GENERAL NOTES (CONTINUED):

- GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 188, CLASS A, TYPE I UNLESS OTHERWISE DESIGNATED.
- WOOD POSTS AND BLOCKOUTS ARE FABRICATED FROM TREATED TIMBER UNLESS SPECIFIED OTHERWISE ON THE PLANS.
- THE TOP OF THE RAIL AT POST 7 IS AT 32" AND WILL BE TRANSMITTED TO THE NORMAL W-BEAM TOP OF RAIL HEIGHT OF 31 1/2" AT POST 10.
- FOR FASTENER DETAILS NOT FOUND ON THIS SHEET, SEE SHEET GR-1.
- FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS & RAIL ELEMENTS, SEE AASHTO-AOC-ARTBA JOINT TASK FORCE REPORT, "DESIGN AND CONSTRUCTION OF UNGRADE HIGHERWAY BARRIER HARDWARE," LATEST EDITION.
- ALL WOOD POSTS AND BLOCKOUTS SHALL BE TREATED TIMBER TO MEET THE REQUIREMENTS OF MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- FOR FASTENER DETAILS NOT FOUND ON THIS SHEET, SEE SHEET GR-1.
- FOR OTHER DETAILS OF POSTS, POST ACCESSORIES, FASTENERS & RAIL ELEMENTS, SEE AASHTO-AOC-ARTBA JOINT TASK FORCE REPORT, "DESIGN AND CONSTRUCTION OF UNGRADE HIGHERWAY BARRIER HARDWARE," LATEST EDITION.
- THE TOP OF THE RAIL AT POST 7 IS AT 32" AND WILL BE TRANSMITTED TO THE NORMAL W-BEAM TOP OF RAIL HEIGHT OF 31 1/2" AT POST 10.

GENERAL NOTES:

- THIS GUARDRAIL TRANSITION IS APPROPRIATE FOR USE ON BRIDGE ENDS AND SHALL BE CAST INTO A VERTICAL CONCRETE SHAPE AS SHOWN ON SHEETS BR-1 & BR-2. THIS GUARDRAIL TRANSITION SHALL NOT BE MOUNTED DIRECTLY TO A CONCRETE SUPPORT SHAPE.
- SEE RAILING DETAILS IN BRIDGE DRAWINGS FOR OTHER DETAILS.

OPTIONAL: 3/4" x 2 1/2" (TYP.) HOLES (SEE ONLY W/ W/ C SPECIFIED ON PLANS).

THREE-BEAM TERMINAL CONNECTOR

NOTES:

- THE THREE-BEAM TERMINAL CONNECTOR IS TO BE TYPE 1, AASHTO M 188 CORRUGATED SHEET STEEL, CLASS B, TYPE 1.
- TO THE LONGITUDINAL AXIS OF THE TERMINAL CONNECTOR, HOWEVER, THE 58" SLOT VERSION IS EASIER TO INSTALL, WHERE SEVERAL GUARDRAIL SECTIONS ARE NESTED TOGETHER.

THREE-BEAM TERMINAL CONNECTOR

NOTES:

- THE THREE-BEAM TERMINAL CONNECTOR IS TO BE TYPE 1, AASHTO M 188 CORRUGATED SHEET STEEL, CLASS B, TYPE 1.
- TO THE LONGITUDINAL AXIS OF THE TERMINAL CONNECTOR, HOWEVER, THE 58" SLOT VERSION IS EASIER TO INSTALL, WHERE SEVERAL GUARDRAIL SECTIONS ARE NESTED TOGETHER.

GUARDRAIL BOLT "E" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "F" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "G" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "H" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "I" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "J" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "K" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "L" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "M" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "N" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "O" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "P" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "Q" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "R" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "S" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "T" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "U" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

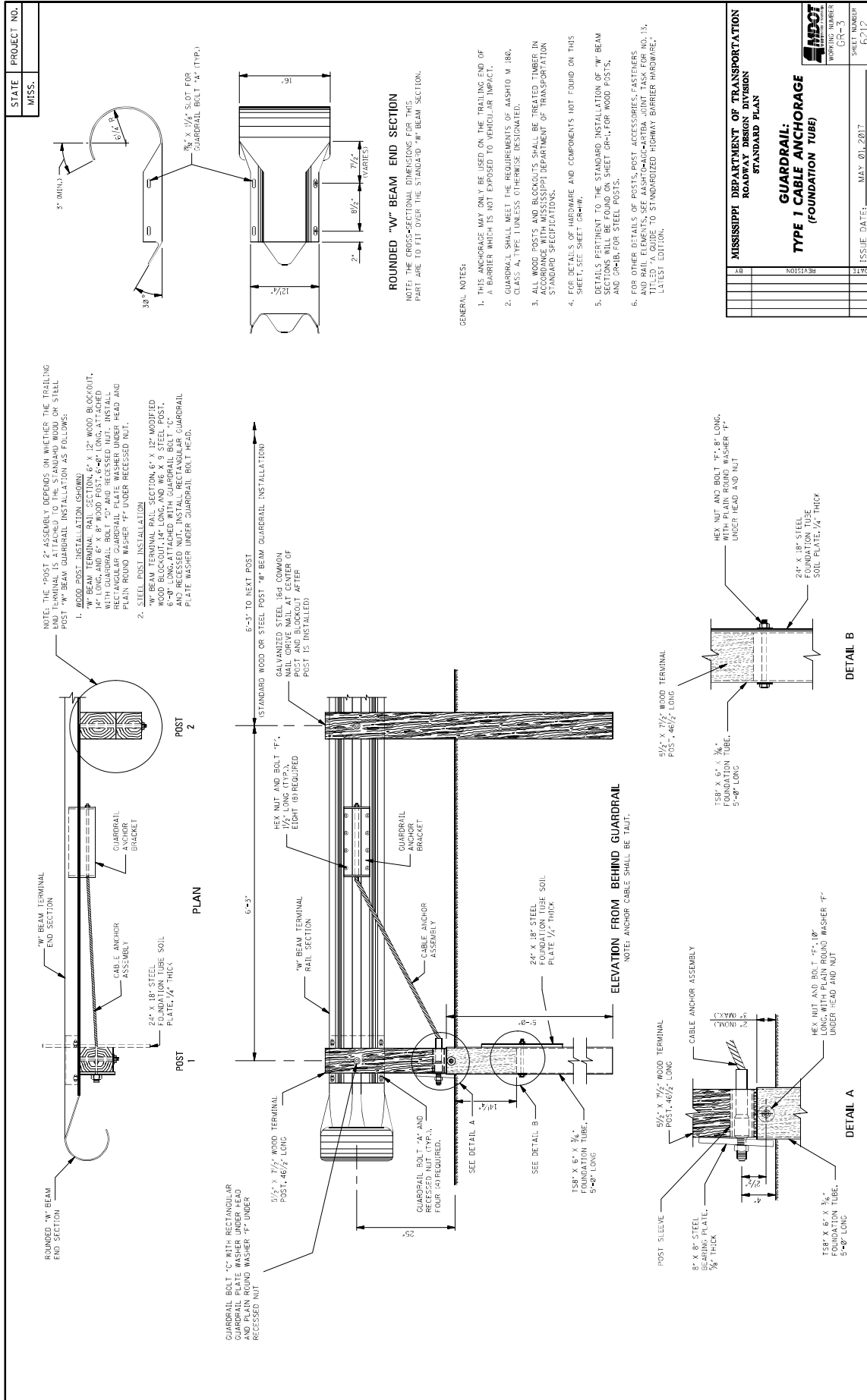
GUARDRAIL BOLT "V" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "W" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

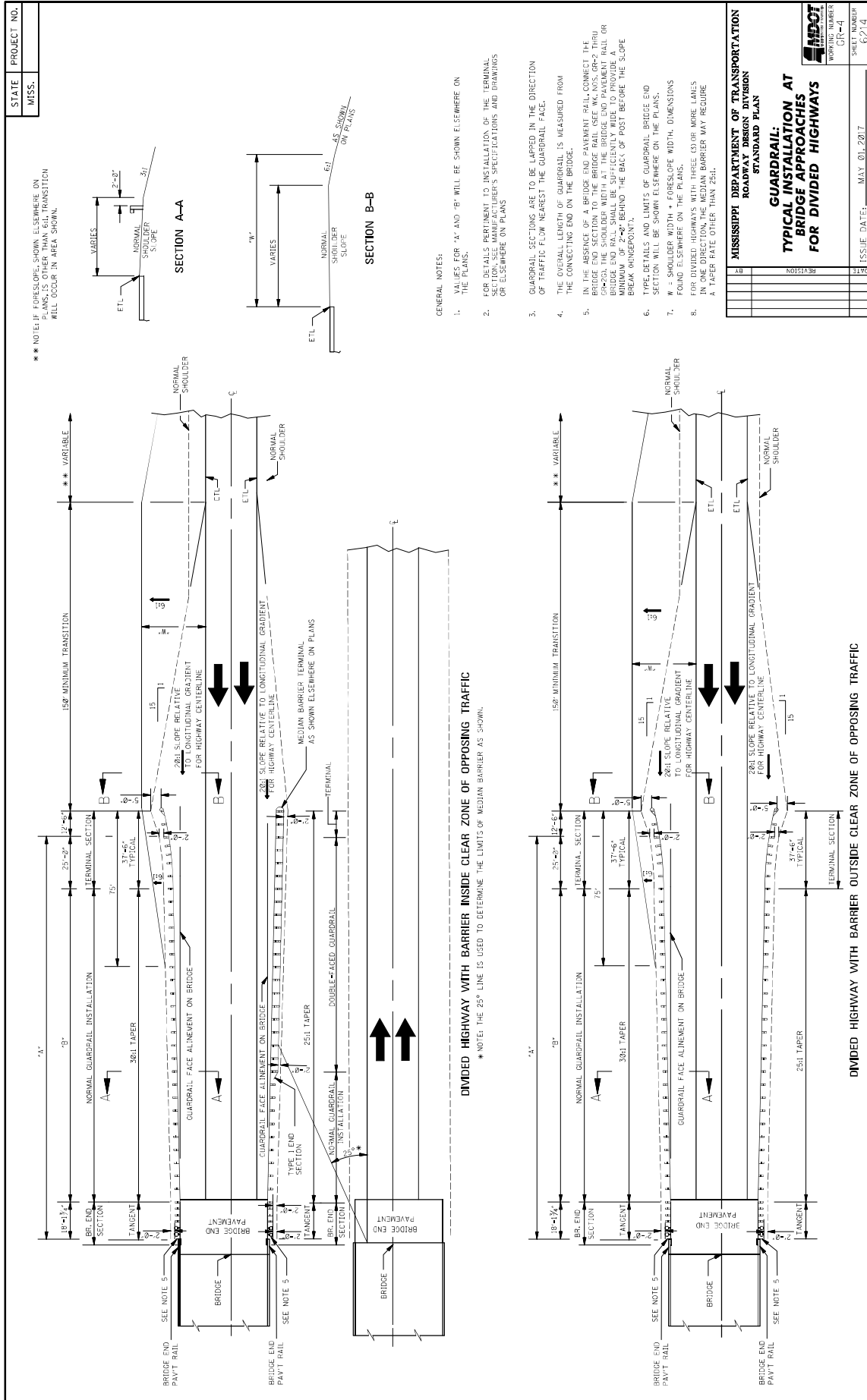
GUARDRAIL BOLT "X" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "Y" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.

GUARDRAIL BOLT "Z" WITH RECESSED NUT WITH PLAIN ROUND WASHER UNDER HEAD.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
GUARDRAIL: TYPE 1 CABLE ANCHORAGE (FOUNDATION TUBE)	SHEET NUMBER GR-5 8212
ISSUE DATE: MAY 01, 2017	DATE
REVISION	BY



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

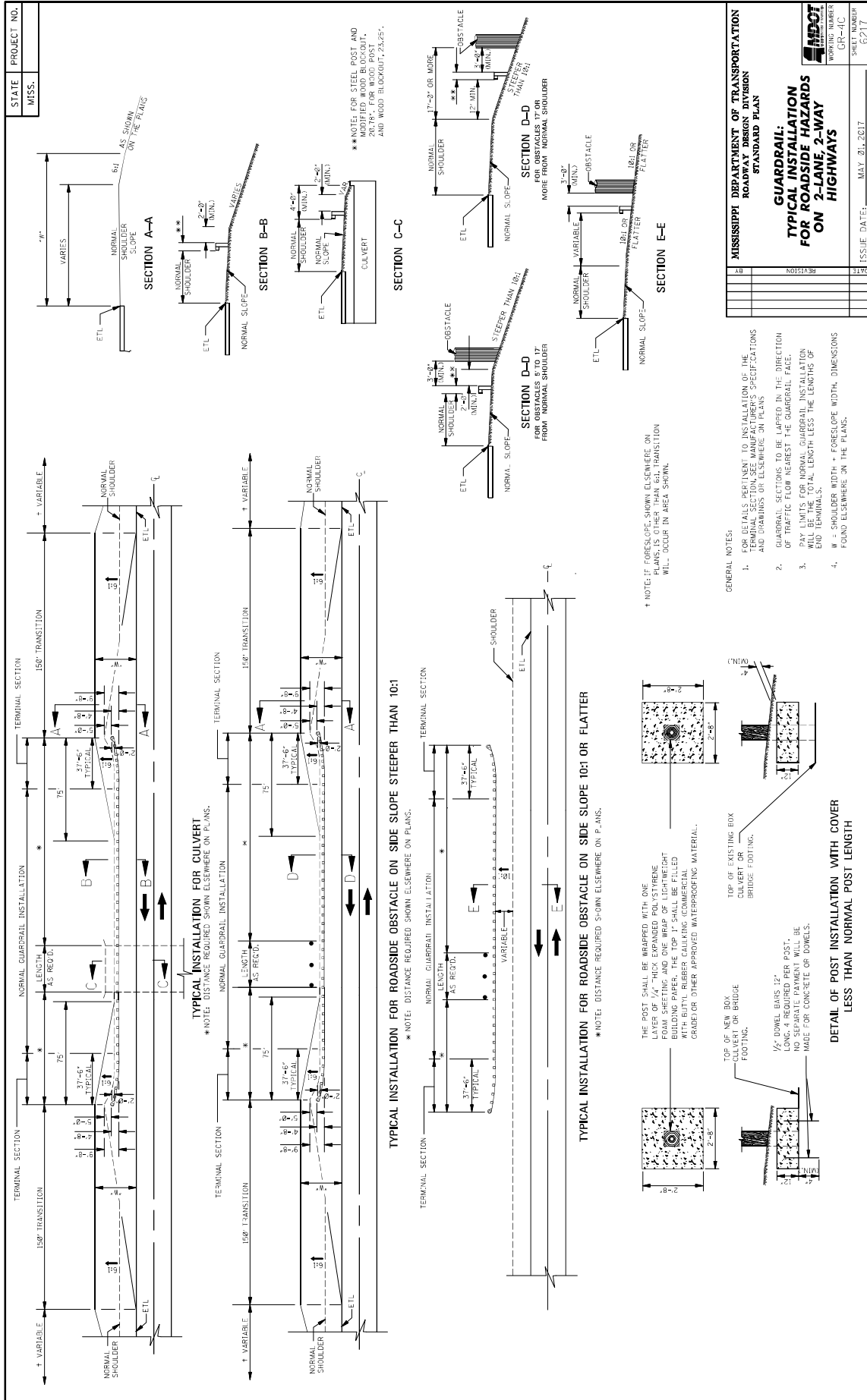
SECTION A-A

SECTION B-B

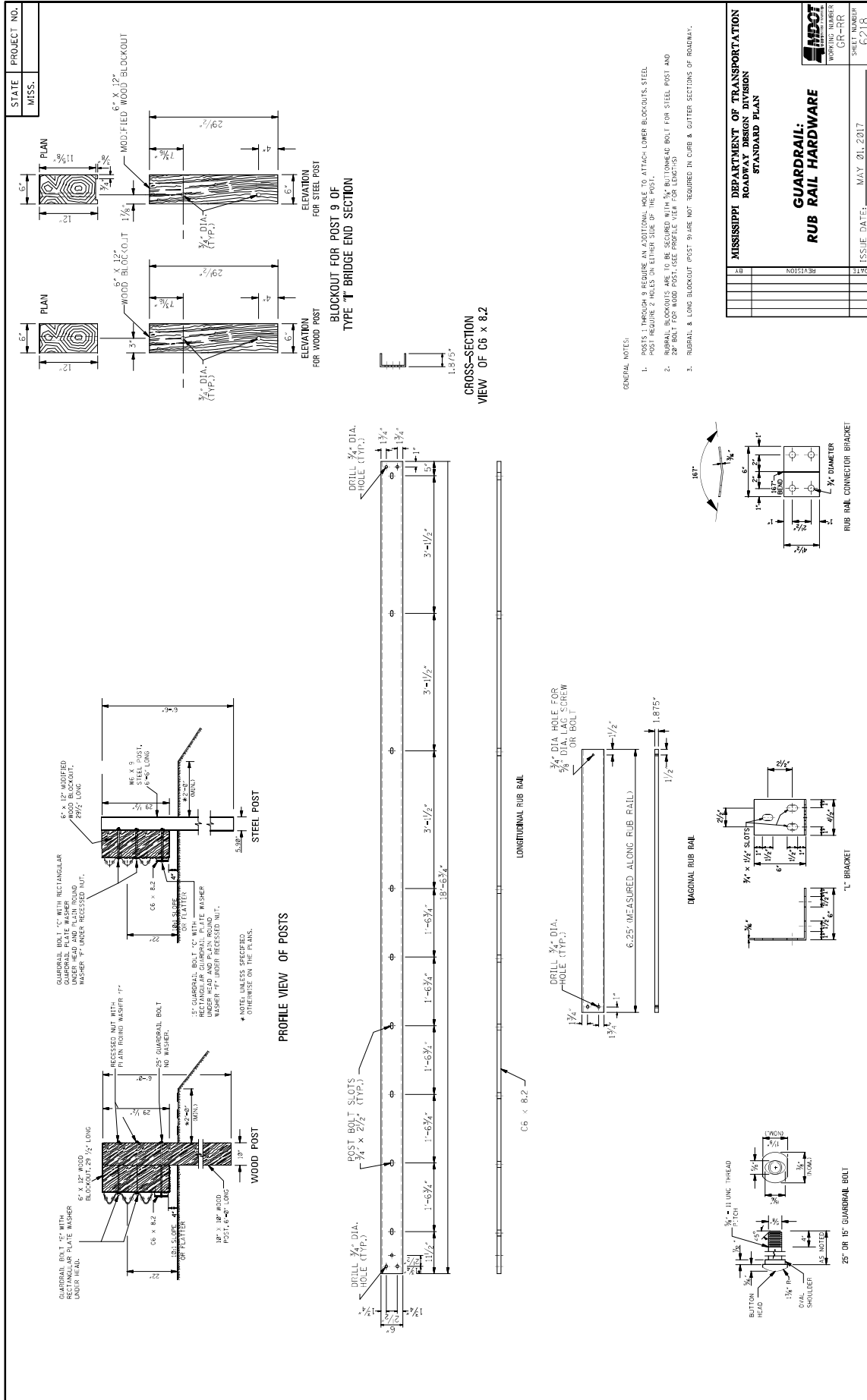
GENERAL NOTES:

- 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 AREAS OF A BRIDGE END PAVEMENT RAIL, CONNECT THE BRIDGE END SECTION TO THE BRIDGE RAIL (SEE W.C. NO. 10-2 THROUGH 10-20). THE SHOULDER WIDTH AT THE BRIDGE END PAVEMENT RAIL OR BRIDGE END RAIL SHALL BE SUFFICIENTLY WIDE TO PROVIDE A BREAK HINGEPONT BEHIND THE BACK OF POST BEFORE THE SCOPE.
- TYPE DETAILS AND LIMITS OF GUARDRAIL BRIDGE END SECTION WILL BE SHOWN ELSEWHERE ON THE PLANS.
- 'W' IS 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	
GUARDRAIL: TYPICAL INSTALLATION AT BRIDGE APPROACHES FOR DIVIDED HIGHWAYS	
DATE	ISSUE DATE: MAY 01, 2017
REVISION	WORKING NUMBER CR-4
	SHEET NUMBER 6214



MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
GUARDRAIL: TYPICAL INSTALLATION FOR ROADSIDE HAZARDS ON 2-LANE, 2-WAY HIGHWAYS	
DATE	ISSUE DATE: MAY 20, 2017
SHEET NUMBER	G217
WORKING NUMBER	CH-11C



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 – NOTICE TO BIDDERS NO. 3599

CODE: (SP)

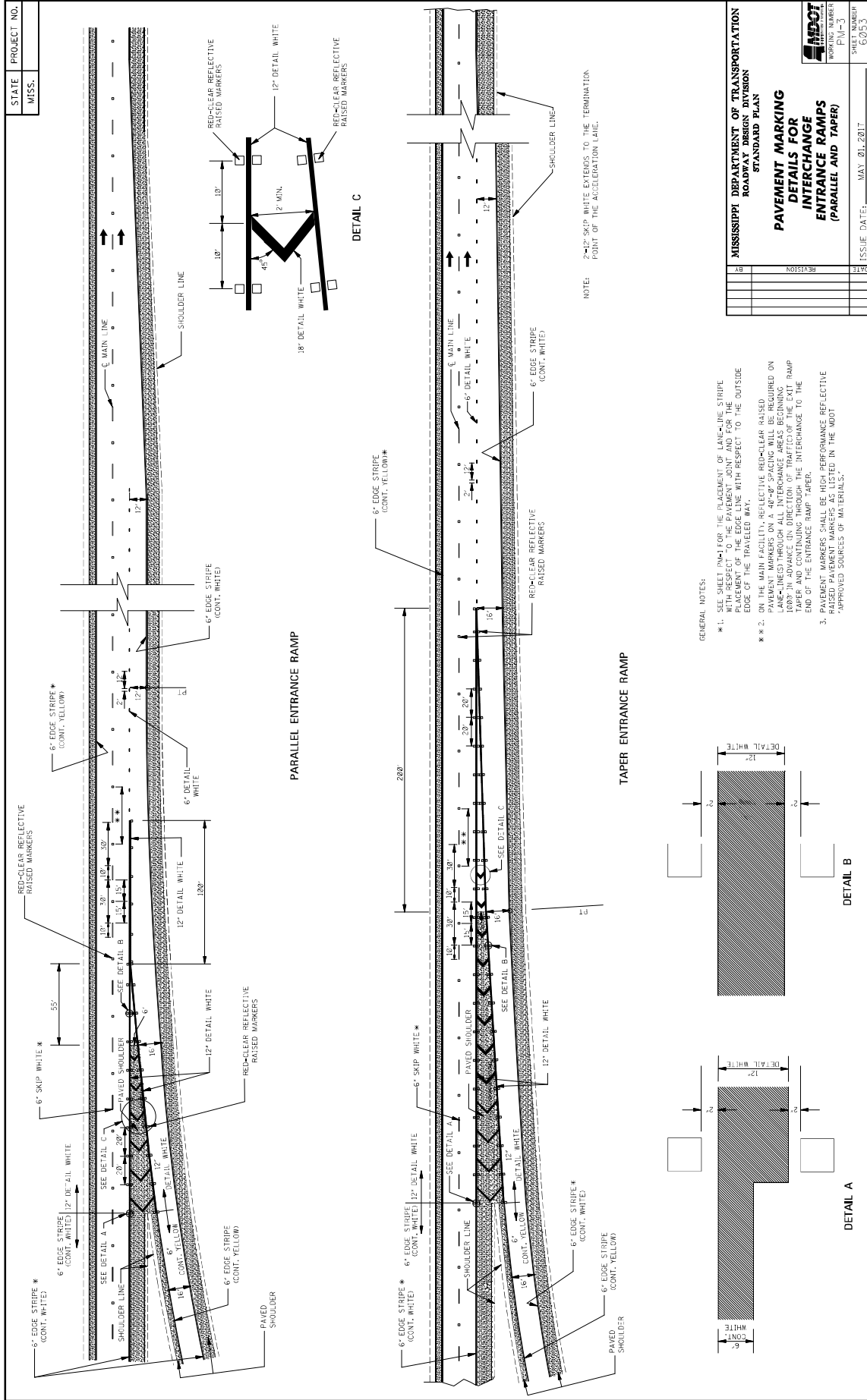
DATE: 08/11/2021

SUBJECT: Standard Drawings

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

Larger copies of Standard Drawings may be purchased from:

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



STATE MISS.	PROJECT NO.								
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GENERAL NOTES:

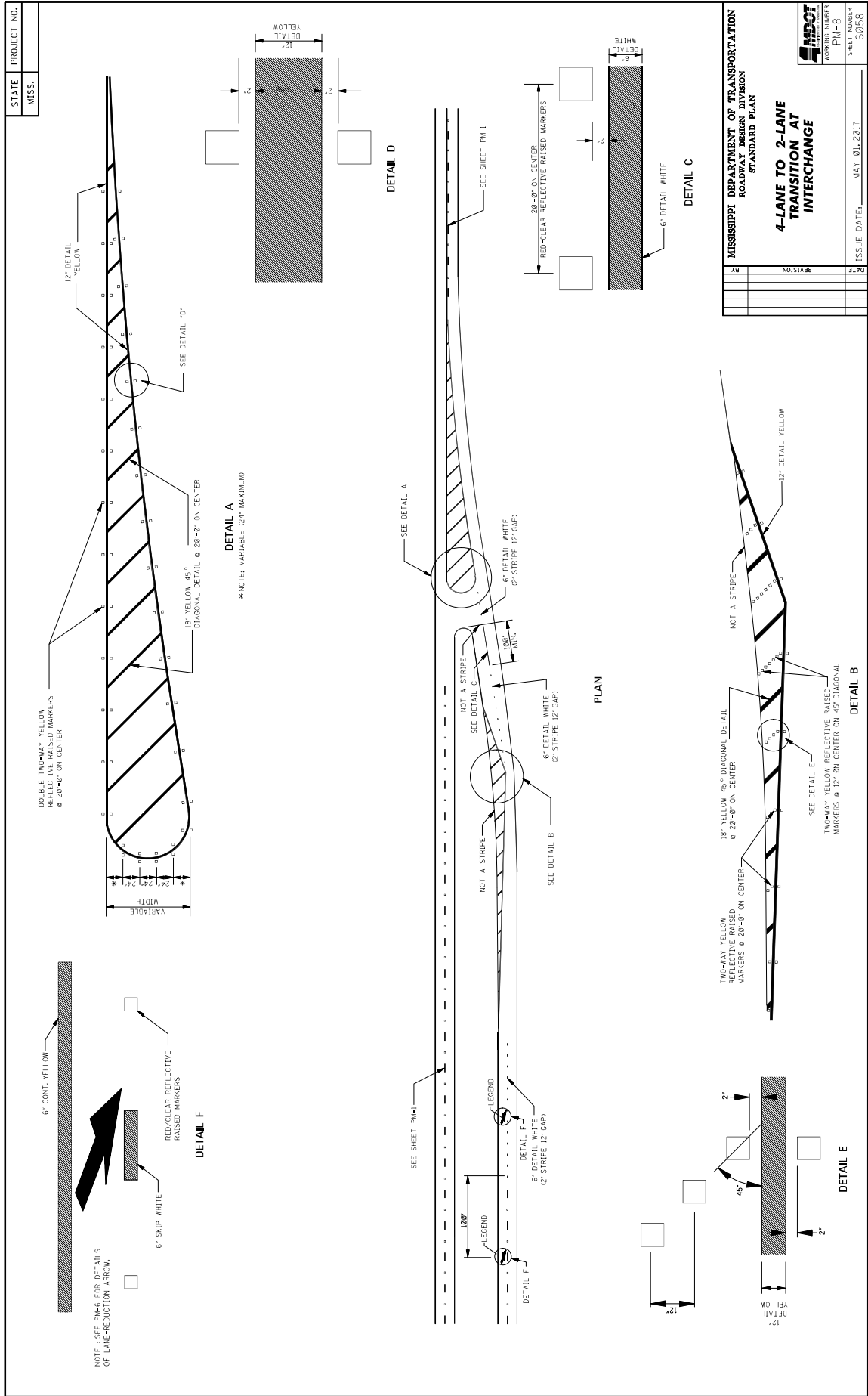
- TWO HORIZONTAL GAPS (USED BY TEMPLATE CONNECTIONS) OF 1/2" SHALL BE EXTENDING FULL WIDTH OF RESPECTIVE LETTER.
- FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

LEGEND	AREA (FT ²)	PAY QUANTITIES
STOP	24.6	
RIGHT	28.6	
LEFT	19.5	
UPR	27.2	
LDN	27.2	
AHEAD	32.4	
YIELD	26.8	
EXIT	18.5	
SIGNAL	32.5	
SCHOOL	35.2	

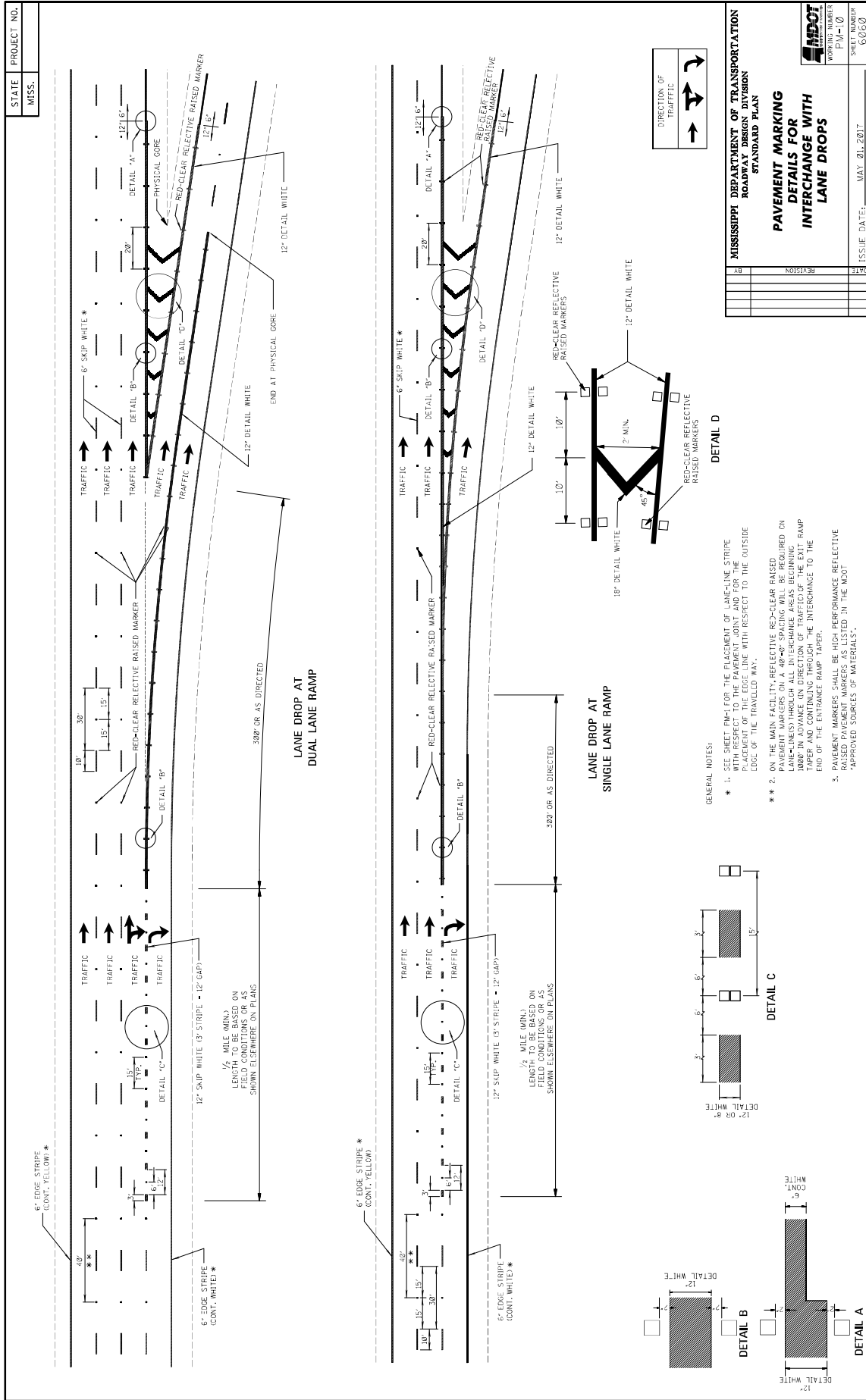
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

PAVEMENT MARKING LEGEND DETAILS

ISSUE DATE: MAY 01, 2017



MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
4-LANE TO 2-LANE TRANSITION AT INTERCHANGE	
SHEET NUMBER PM-B	SHEET NUMBER 6026
DATE	ISSUE DATE: MAY 01, 2017
BY	REVISION



NO.	REVISION	DATE

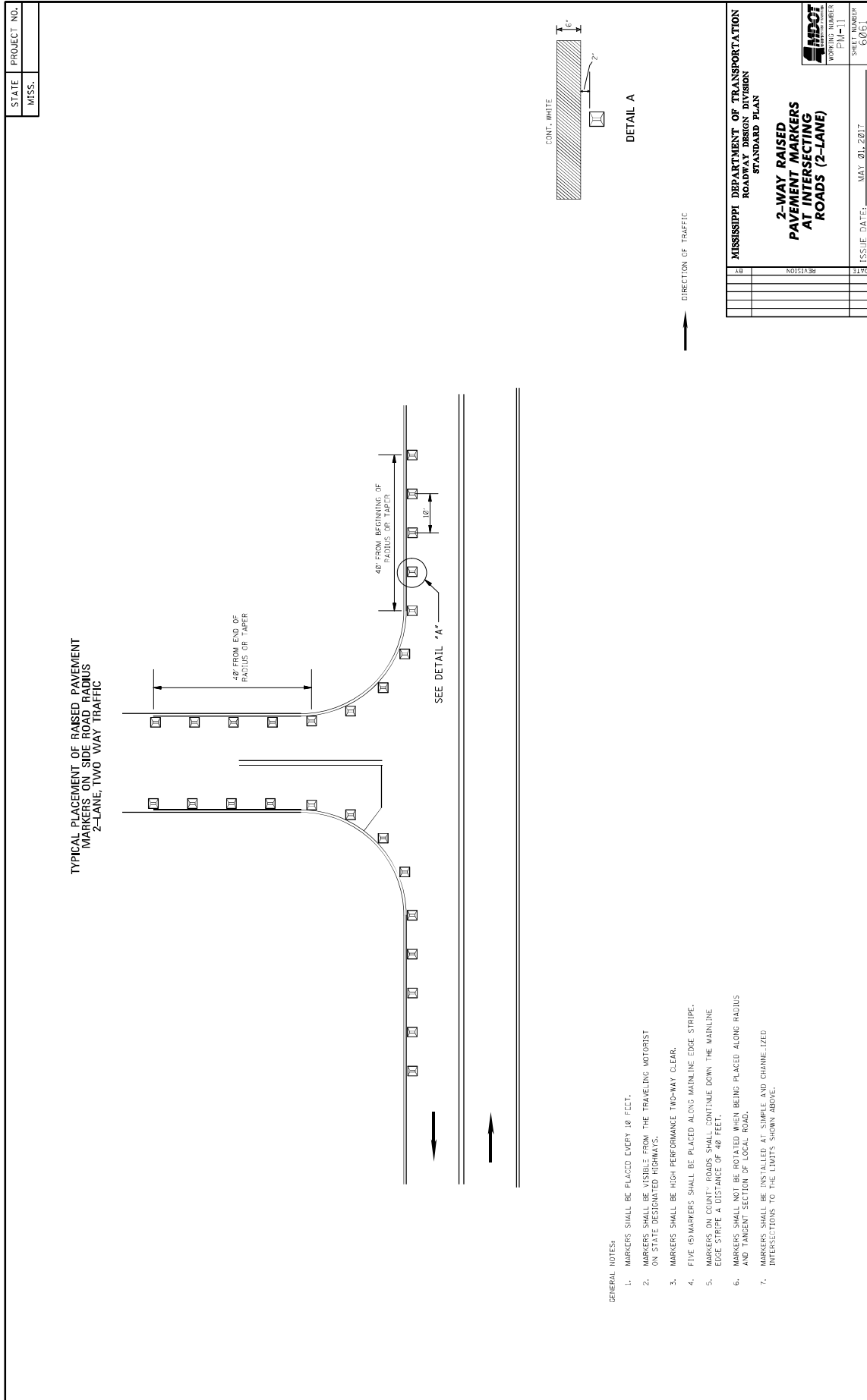
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

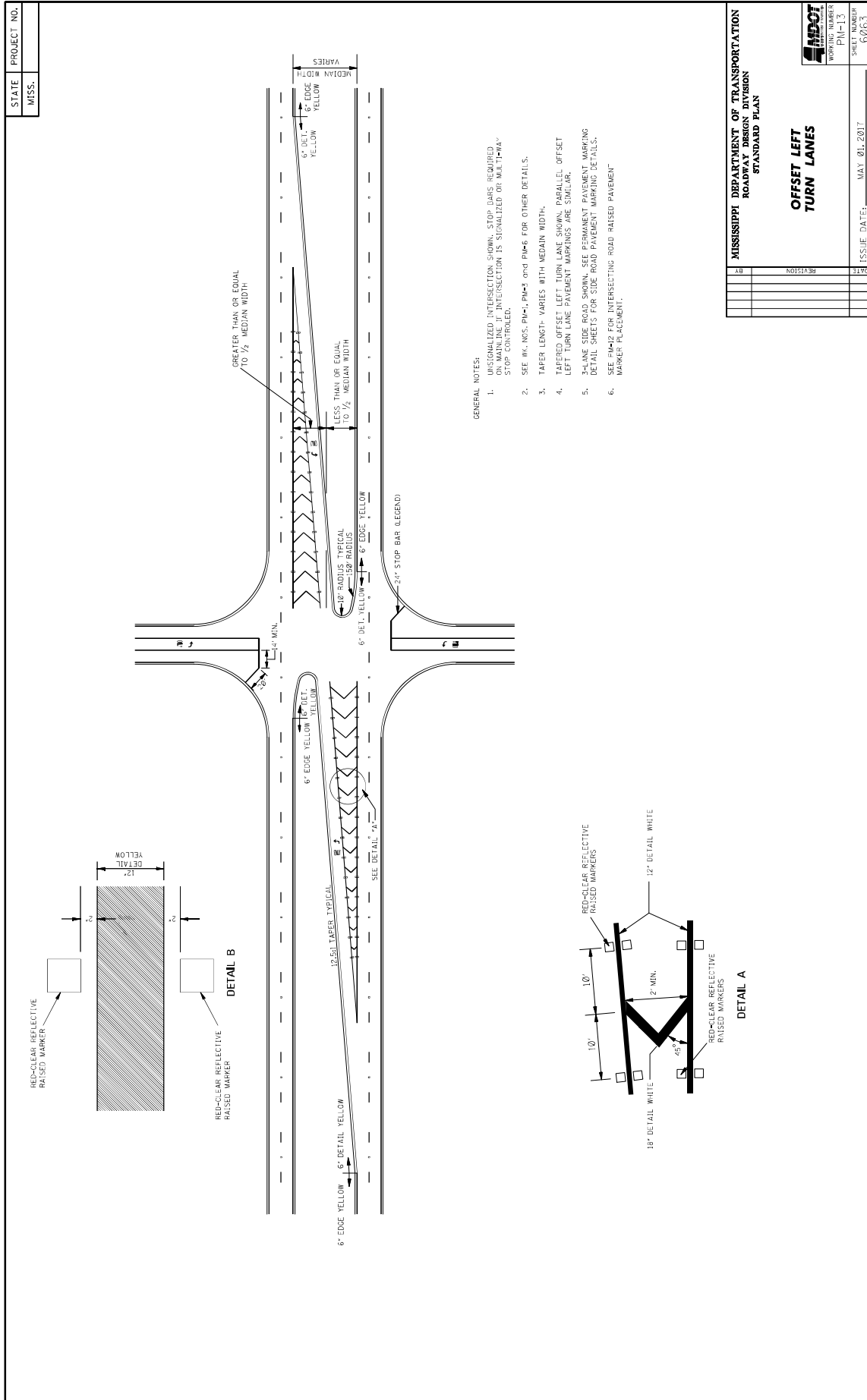
**PAVEMENT MARKING
DETAILS FOR
INTERCHANGE WITH
LANE DROPS**

WORKING NUMBER
P.M-10

SHEET NUMBER
00050

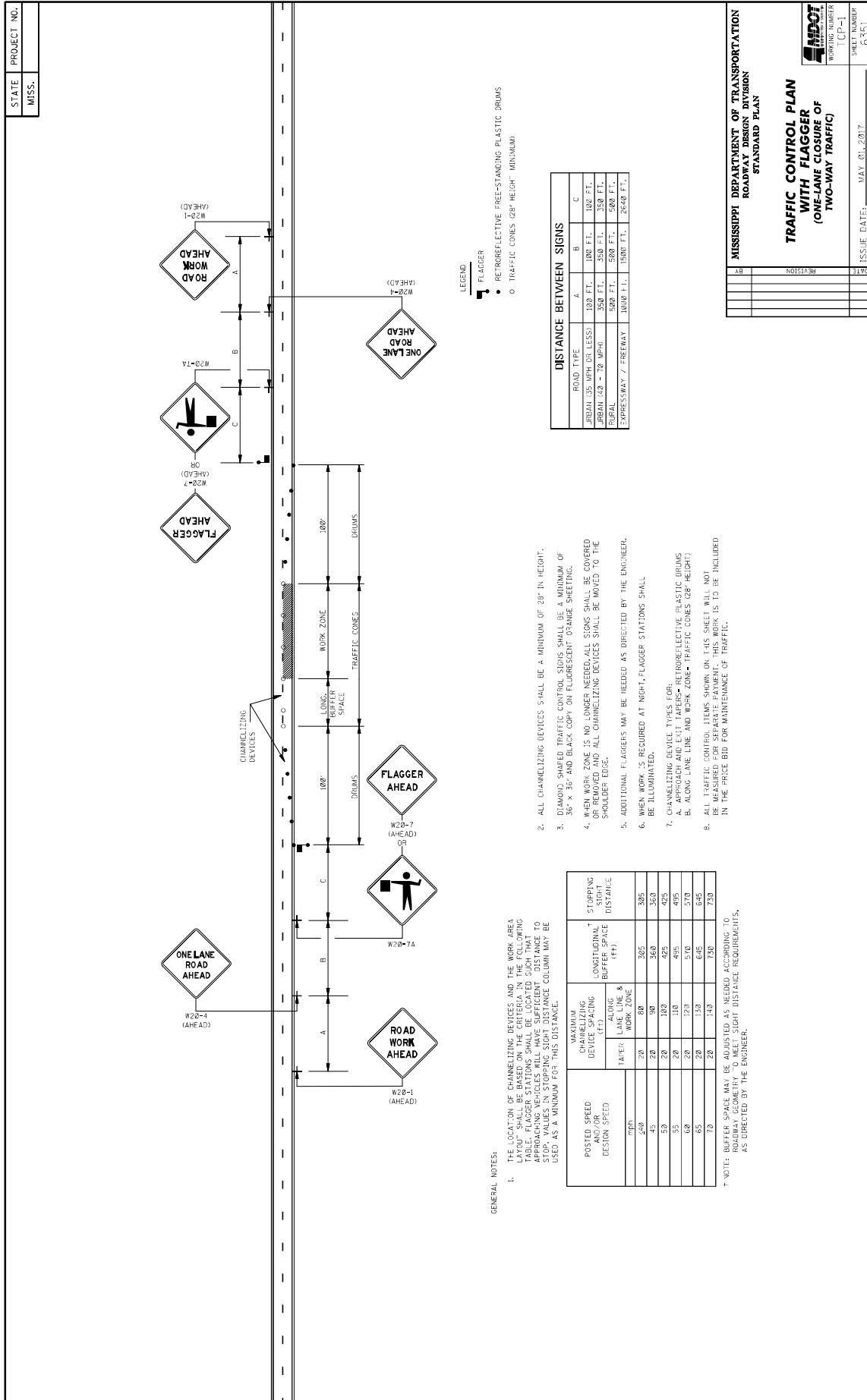
ISSUE DATE: MAY 01, 2017





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

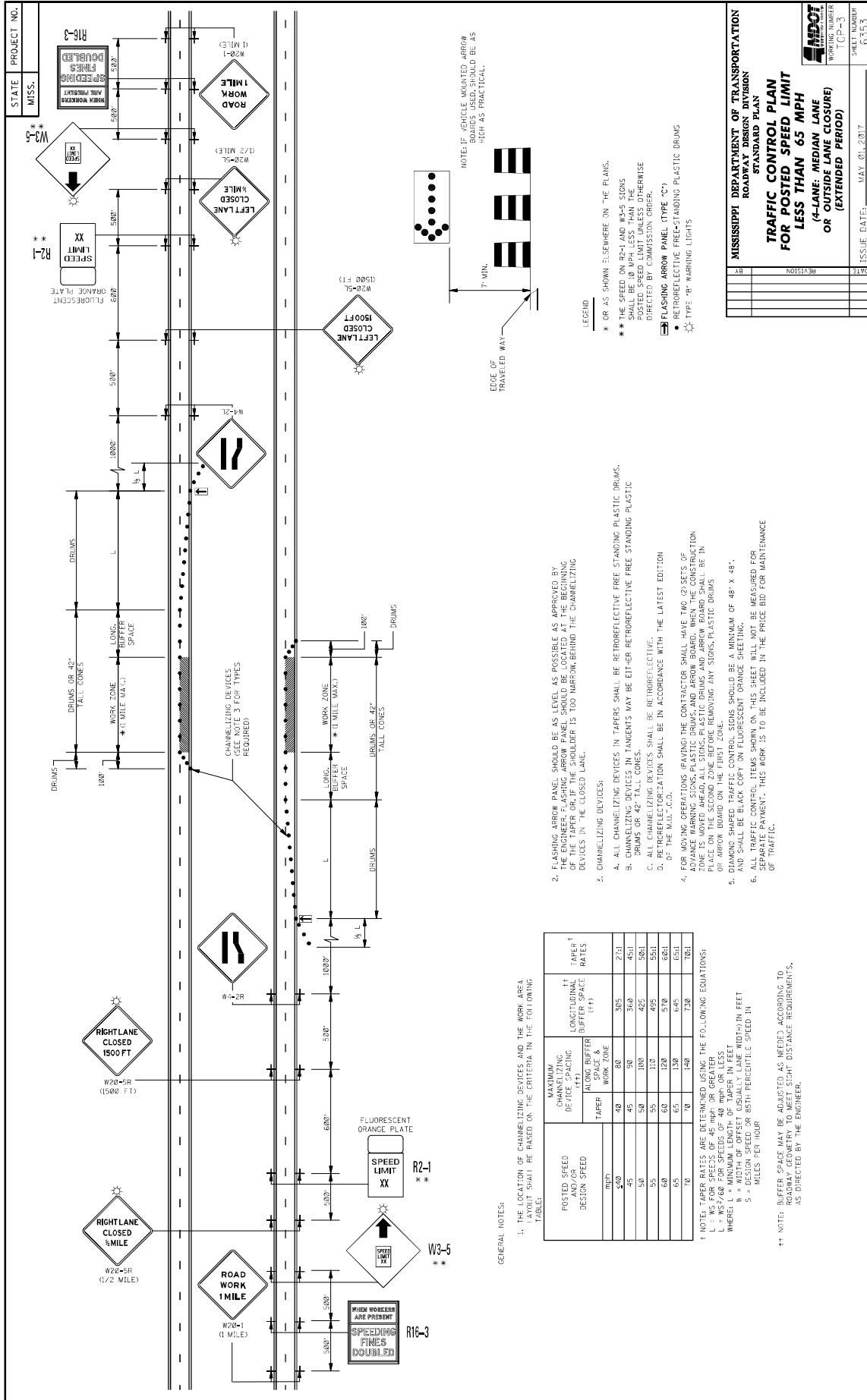


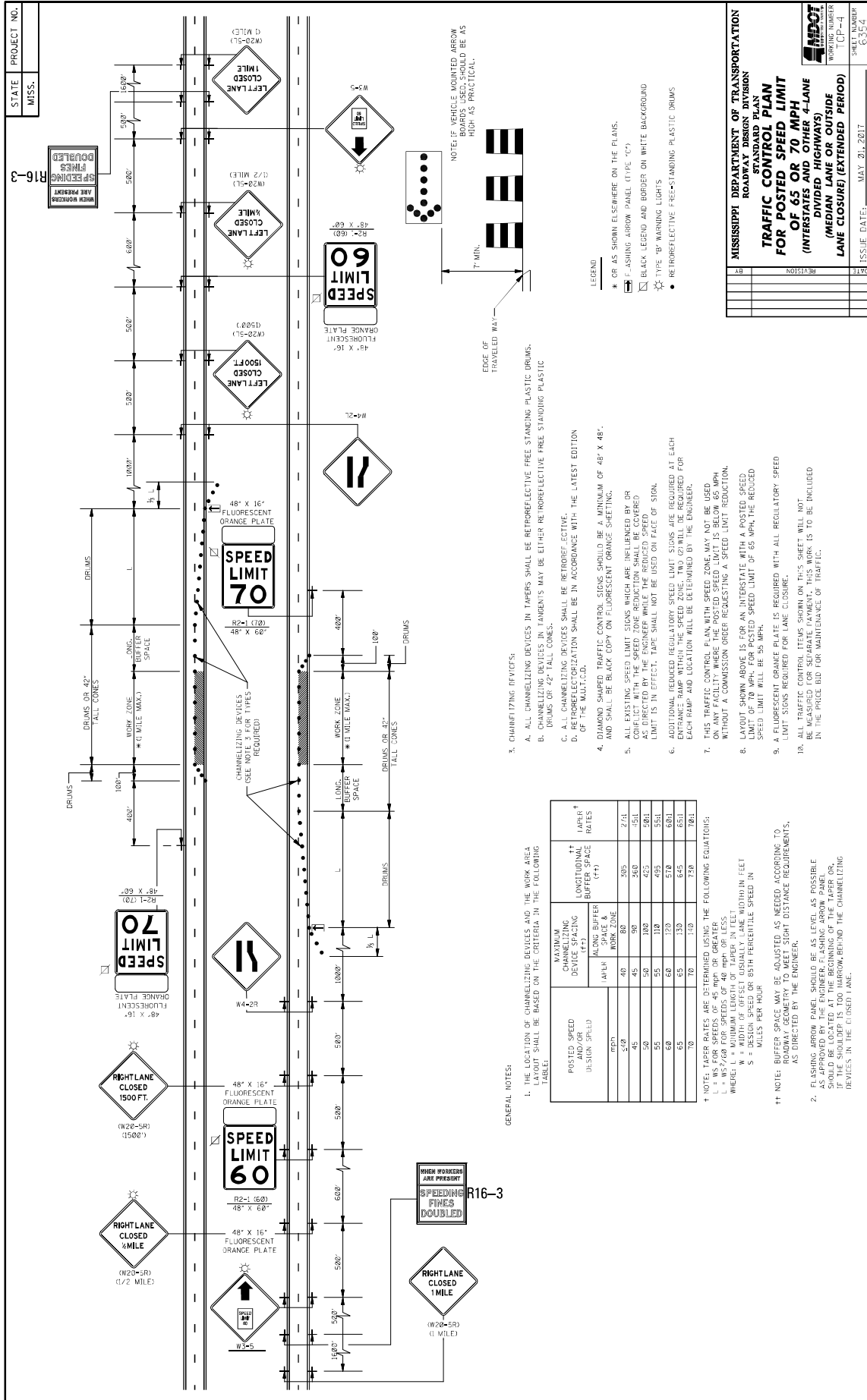


MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

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

WORKING NUMBER [CP-1]
 SHEET NUMBER 6351
 ISSUE DATE: MAY 01, 2017





STATE PROJECT NO.
MISS.

R16-3

WHEN WORKERS ARE WORKING SPEEDING FINES DOUBLED

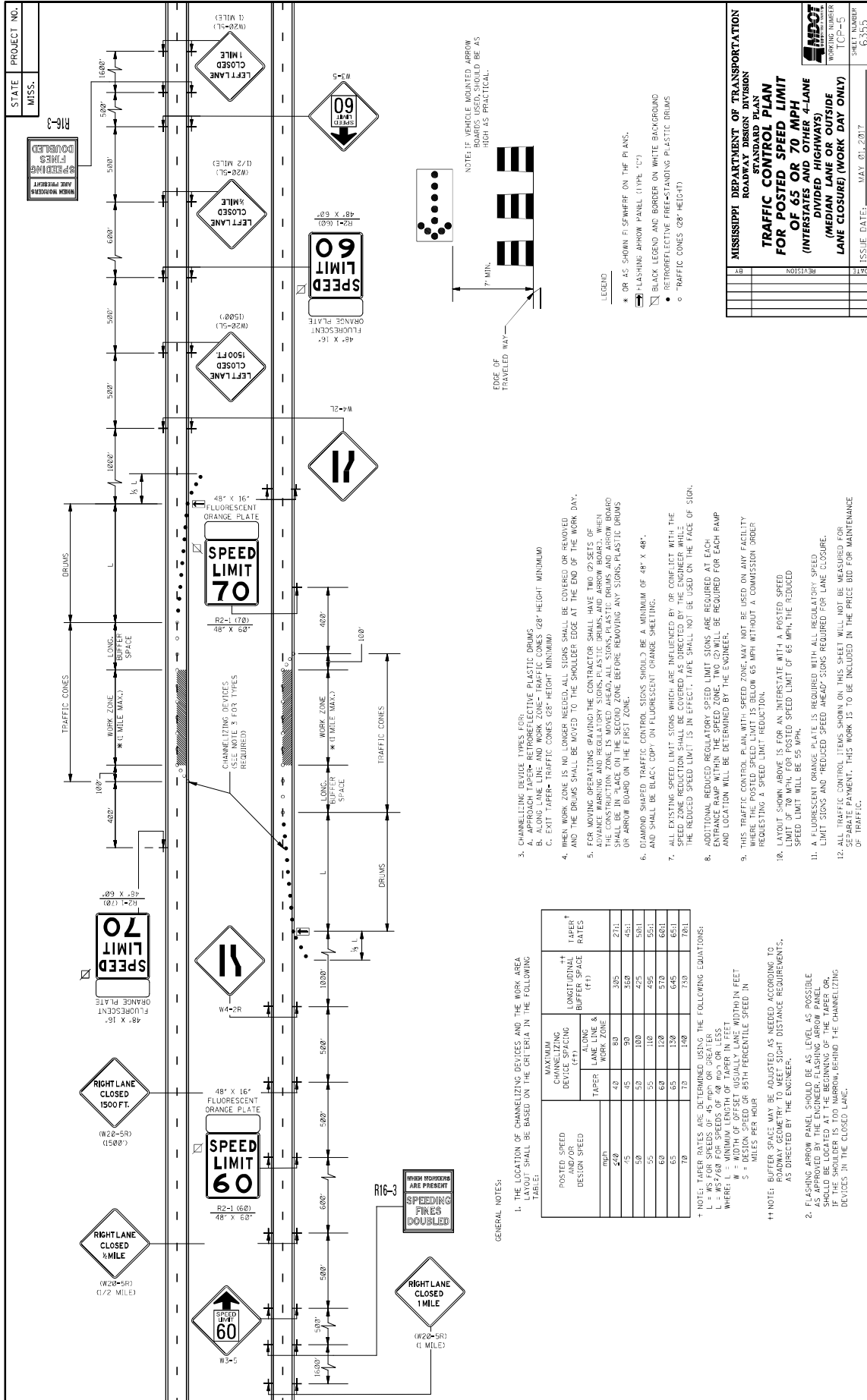
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
TRAFFIC CONTROL PLAN
FOR POSTED SPEED LIMIT
OF 65 OR 70 MPH
(INTERSTATES AND OTHER 4-LANE
DIVIDED HIGHWAYS)
(MEDIUM LANE OR OUTSIDE
LANE CLOSED (EXTENDED PERIOD))

ISSUE DATE: MAY 20, 2012

REV. NO. DATE
 01 05/20/12
 02 05/20/12
 03 05/20/12
 04 05/20/12
 05 05/20/12
 06 05/20/12
 07 05/20/12
 08 05/20/12
 09 05/20/12
 10 05/20/12

WORKING NUMBER
 CP-44
 SHEET NUMBER
 6554

- GENERAL NOTES:
- THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA TAPER RATES SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
- | POSTED SPEED (DESIGN SPEED) MPH | MAXIMUM CHANNELIZING DEVICE SPACING ALONG BUFFER SPACE & WORK ZONE | | LONGITUDINAL BUFFER SPACE (FT) | TAPER RATES |
|---------------------------------|--|-------|--------------------------------|-------------|
| | 1/4 L | 1/2 L | | |
| 50 | 40 | 80 | 305 | 2/11 |
| 55 | 45 | 90 | 360 | 2/11 |
| 60 | 50 | 100 | 420 | 2/11 |
| 65 | 55 | 110 | 495 | 2/11 |
| 70 | 60 | 120 | 570 | 2/11 |
| 75 | 65 | 130 | 645 | 2/11 |
| 80 | 70 | 140 | 730 | 2/11 |
- NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 T = WS²/60 FOR SPEEDS OF 45 MPH OR GREATER
 L = WS/60 FOR SPEEDS OF 40 MPH OR LESS
 WHERE: L = MINIMUM BUFFER SPACE (METERS) WITHIN 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.
- FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR AT THE END OF THE TAPER. CHANNELIZING DEVICES IN THE CLOSED LANE.
- CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
 - CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
 - ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
 - RETROREFLECTIVIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD-6A.
 - DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48" AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
 - ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR CONFLICT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED. THE EXISTING SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON FACE OF SIGN.
 - ADDITIONAL REQUIRED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP AND LEGALION WILL BE DETERMINED BY THE ENGINEER.
 - THIS TRAFFIC CONTROL PLAN WITH SPEED ZONE MAY NOT BE USED ON ANY FACILITY WHERE THE POSTED SPEED LIMIT IS BELOW 65 MPH WITHOUT A COMMISSION ORDER REQUESTING A SPEED LIMIT REDUCTION.
 - LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH FOR PASTED SPEED LIMIT OF 65 MPH. THE REDUCED SPEED LIMIT WILL BE 55 MPH.
 - A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS REQUIRED FOR LANE CLOSURE.
 - ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
- LEGEND
- * OR AS SHOWN ELSEWHERE ON THE PLANS.
 - FLASHING ARROW PANEL (TYPE "C")
 - BLACK LEGGED AND BORDER ON WHITE BACKGROUND
 - TYPE "B" MARKING LIGHTS
 - RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
- NOTE: IF VEHICLE MOUNTED ARROW BOARD IS USED, IT SHOULD BE AS HIGH AS PRACTICAL.



STATE PROJECT NO.
MISS.

WORKING NUMBER
ICP-5
SHEET NUMBER
03300

WING BARRICADES

1. WING BARRICADES ARE TYPE II BARRICADES ERECTED ON THE SHOULDER OF A ROADWAY OR RESTRICTED ROADWAY. WING BARRICADES MAY BE USED AS A MOUNTING FOR THE ADVANCE WARNING SIGNS OR FLASHERS.

2. 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

BARRICADE CHARACTERISTICS

	I	II	III
WIDTH OF RAIL **	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.	8" MIN. - 12" MAX.
LENGTH OF RAIL **	24" MIN.	24" MIN.	48" MIN.
WIDTH OF STRIPE *	6"	6"	6"
HEIGHT	36" MIN.	36" MIN.	60" MIN.
NUMBER OF RETROREFLECTORIZED RAIL FACES	2 (ONE EACH DIRECTION)	4 (TWO EACH DIRECTION)	3 IF FACING TRAFFIC IN ONE DIRECTION 4 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 OF TRAFFIC IS TO PASS).
- RAIL STRIPE SHALL BE 6 INCHES EXCEPT THAT 4-INCH WIDE STRIPES MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36 INCHES.
- DO NOT PLACE SANDBAGS OR OTHER DEVICES TO PROVIDE MASS ON THE BOTTOM RAIL THAT WILL BLOCK VIEW OR RAIL FACE.
- FOR ADDITIONAL INFORMATION OR DETAILS, SEE METHOD, LATEST EDITION.
- BARRICADES ARE CLASSIFIED BY FHWA AS CATEGORY II WHEN ZONE DEVICES WHICH REQUIRE SUCCESSFULLY CRASH TESTED. A LIST OF CRASHWORTHY BARRICADES AND OTHER CATEGORY II DEVICES CAN BE FOUND ON FHWA'S WEBSITE: http://safety.fhwa.dot.gov/roadway_dept/pafety_guidance/road_hardware/cat2.cfm

CHEVRON SIGN DETAIL

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

PLASTIC DRUM STRIPING DETAIL

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

TYPE 3 OBJECT MARKER (OM-3R)

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN
HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS

REVISION

DATE

ISSUE DATE: MAY 20, 2017

STATE MISS.	PROJECT NO.	
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MOBILE OPERATIONS ON MULTILANE ROAD

MOBILE OPERATIONS ON MULTILANE ROAD

MOBILE OPERATIONS ON TWO-LANE ROAD

MOBILE OPERATIONS ON TWO-LANE ROAD

NOTES FOR MULTILANE LANE OPERATION:

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

NOTES FOR TWO-LANE OPERATION:

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

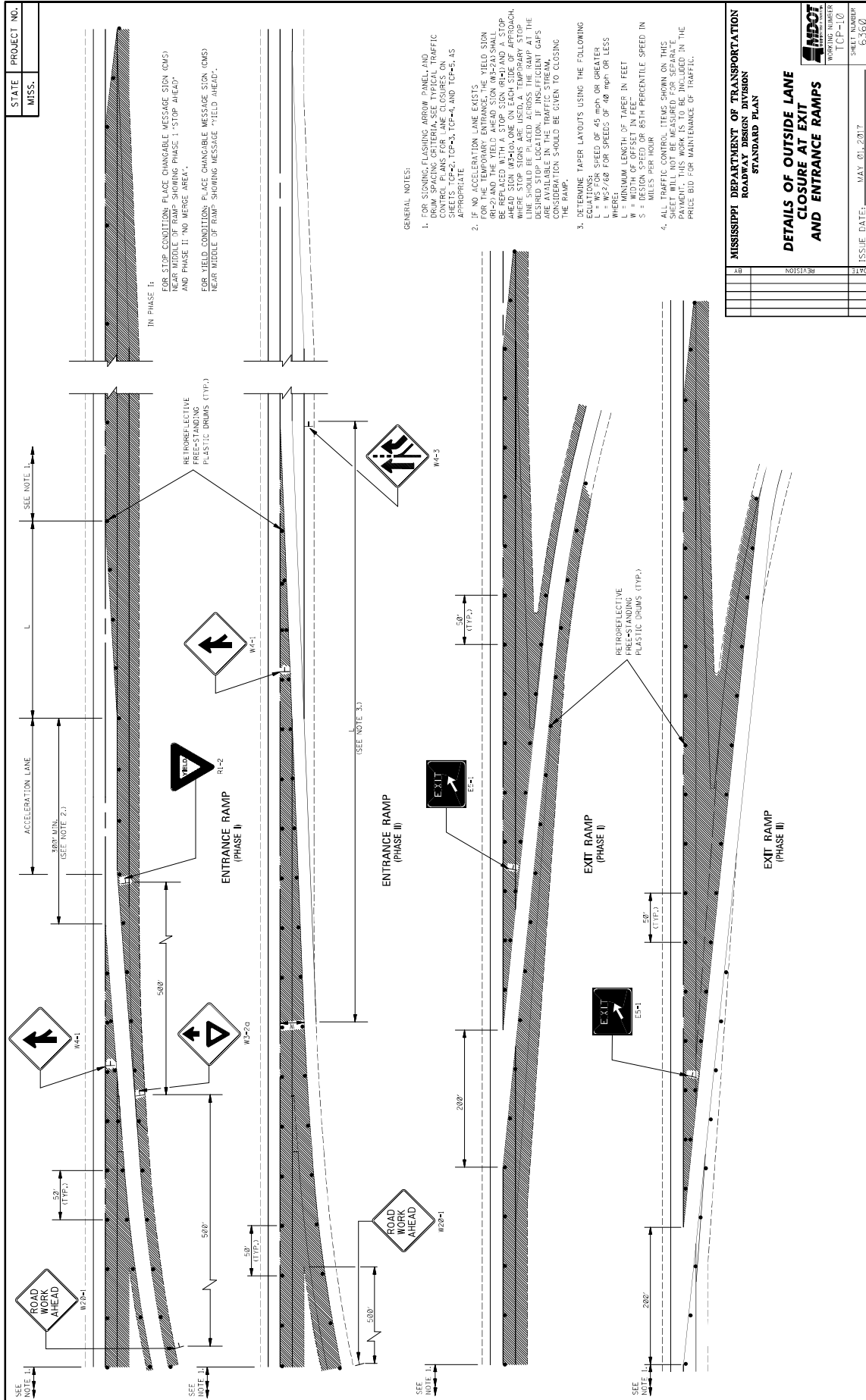
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

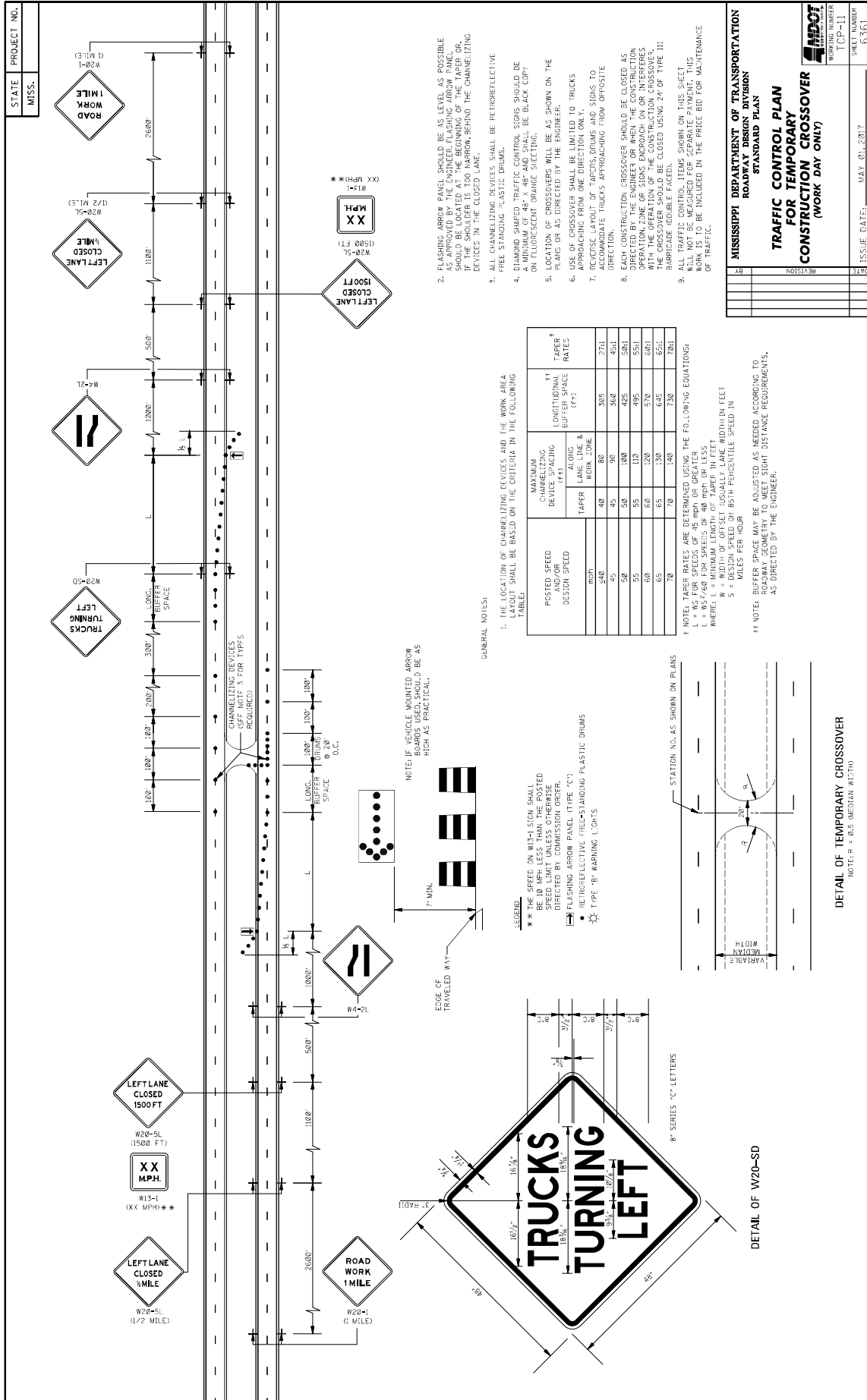
TRAFFIC CONTROL PLAN
MOBILE OPERATIONS
MULTILANE ROADS
TWO-LANE ROADS

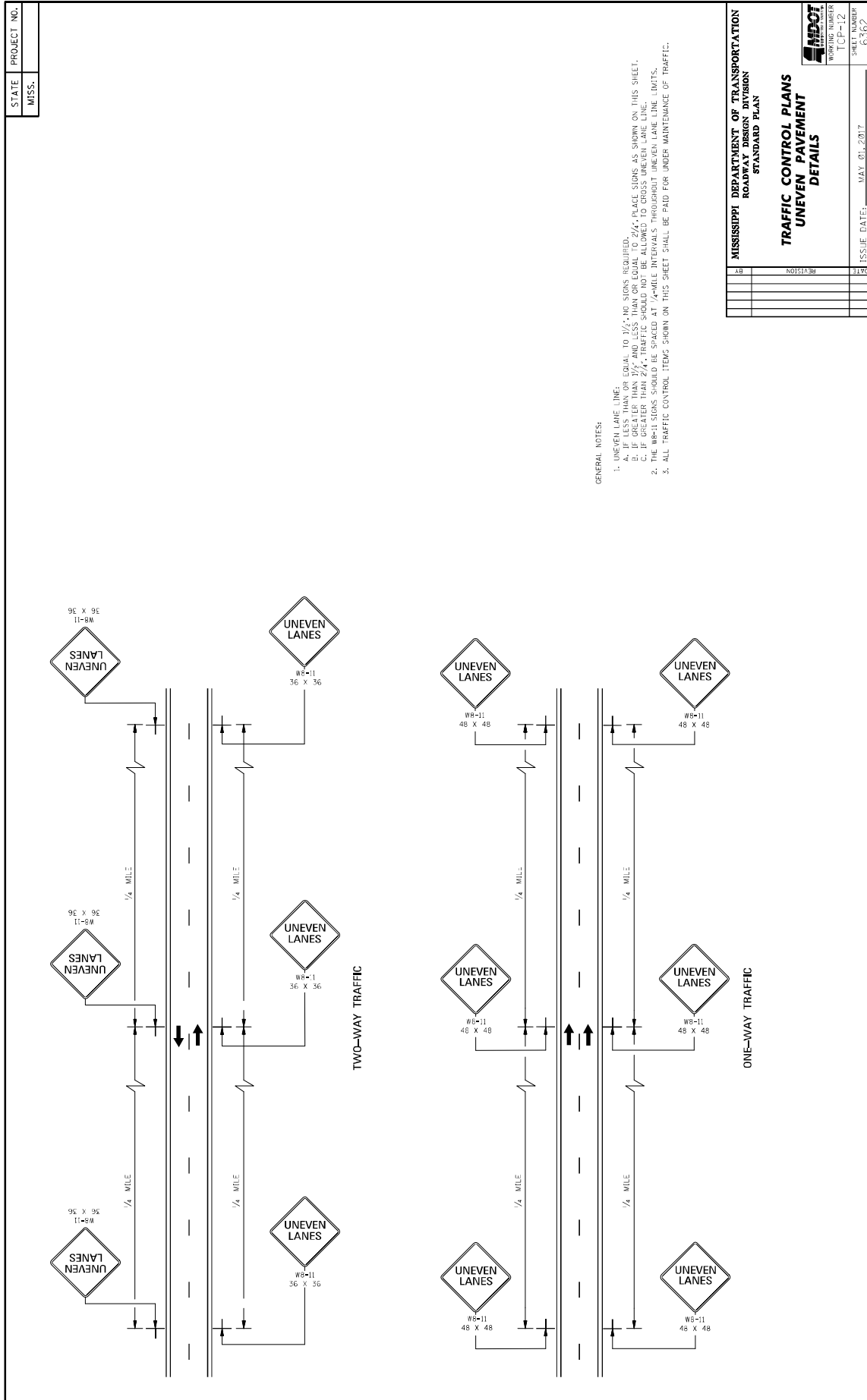
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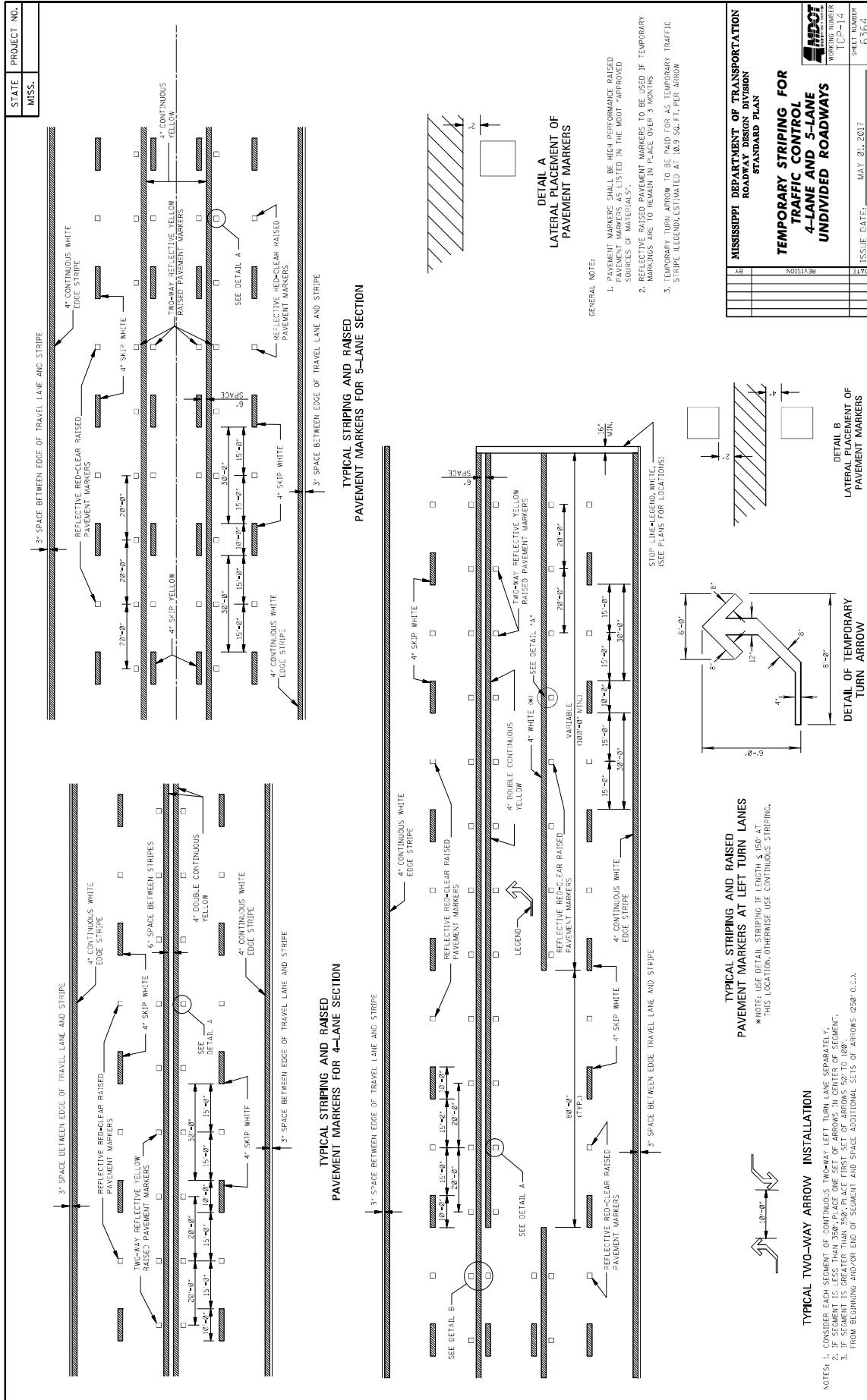
ISSUE DATE: MAY 01, 2017

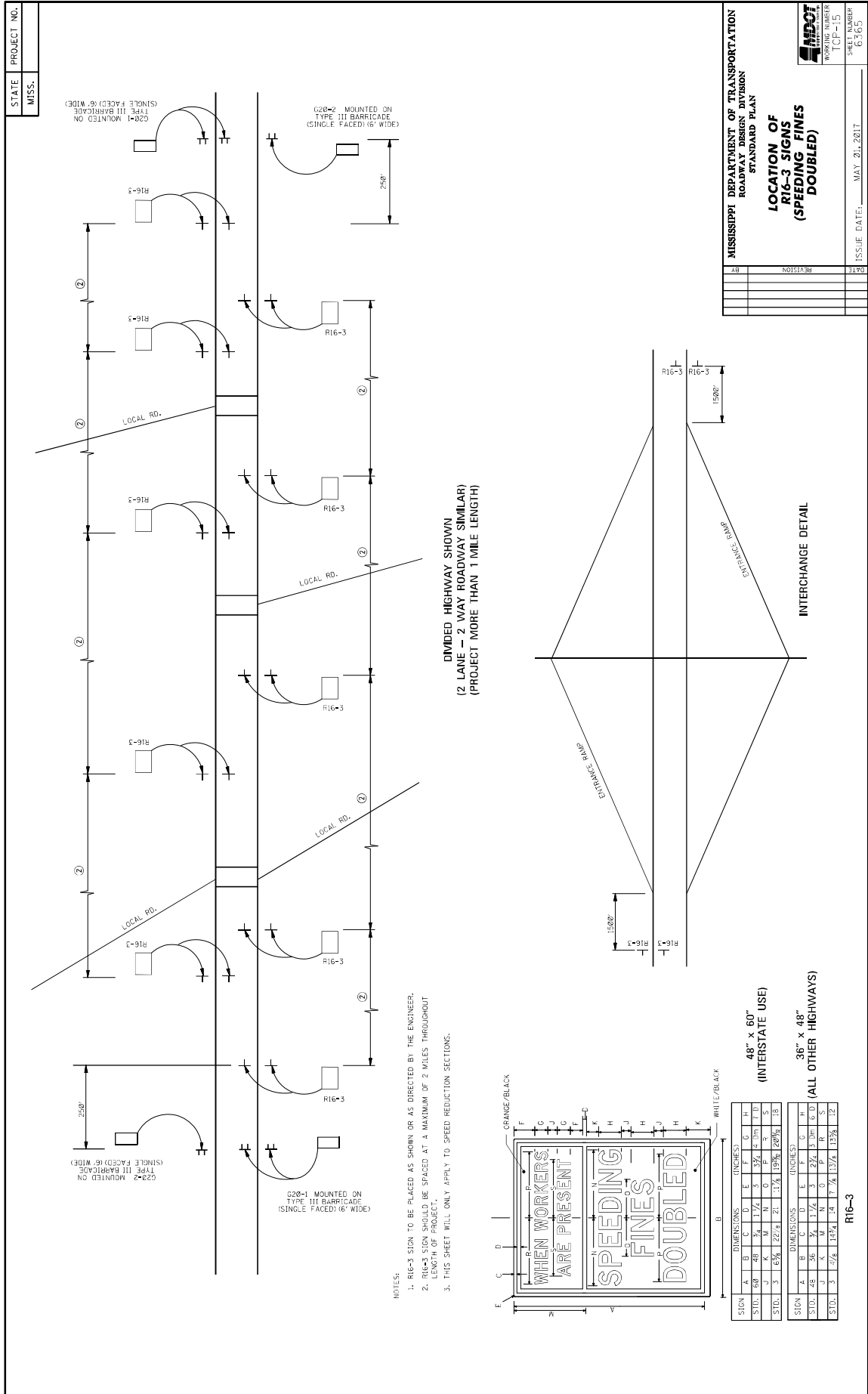
SHEET NUMBER	CP-9
WORKING NUMBER	6359











STATE MISS.	PROJECT NO.	
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TYPICAL SHOULDER CLOSURE

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

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

TYPICAL SHOULDER WORK #2

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

DETAIL OF DRUM PLACEMENT AT PAVEMENT EDGE DROP-OFF

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

NOTES:

- * A. PAVEMENT EDGE DROP-OFF
 1. IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES PROTECTION REQUIRED. PLACE A SHOULDER WORK SIGN (W2-5) 500 FEET IN ADVANCE OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-3) AT THE BEGINNING AND THROUGHOUT THE WORK ZONE B (150'-C.C.).
 2. TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PLACE OF DRUMS, PANELS, AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE MULTIFIELD (1) / 3 L, WHERE L IS THE TAPER LENGTH IN FEET.
 3. GREATER THAN THREE (3) INCHES-POSITIVE SEPARATION OR WEDGE WITH 4:1 OR FLATTER SLOPE NEEDED. IF THERE IS EIGHT (8) FEET OR MORE DISTANCE BETWEEN THE EDGE OF TRAVEL LANE AND DROP-OFF, THEN DRUMS, PANELS OR BARRICADES MAY BE USED.
 4. FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN THREE (3) INCHES MAY BE PROTECTED WITH DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.
 5. LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

B. DRUM SPACING

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

X X SPEED (MPH)	LENGTH (FEET)
25	35
30	40
35	45
40	50
45	55
50	60
55	65
60	70
65	75
70	80
75	85
80	90
85	95
90	100
95	105
100	110
105	115
110	120
115	125
120	130
125	135
130	140
135	145
140	150
145	155
150	160
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785	795
790	800
795	805
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805	815
810	820
815	825
820	830
825	835
830	840
835	845
840	850
845	855
850	860
855	865
860	870
865	875
870	880
875	885
880	890
885	895
890	900
895	905
900	910
905	915
910	920
915	925
920	930
925	935
930	940
935	945
940	950
945	955
950	960
955	965
960	970
965	975
970	980
975	985
980	990
985	995
990	1000

* * * POSTED SPEED, OFF-PEAK 85 PERCENTILE SPEED 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

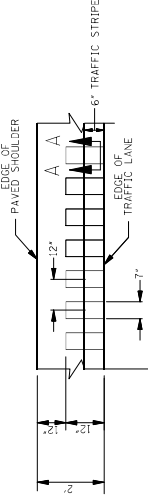
ISSUE DATE: MAY 20, 2017

WORKING NUMBER: TCF-16

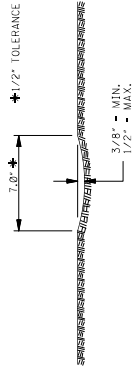
SHEET NUMBER: 6306

GENERAL NOTES

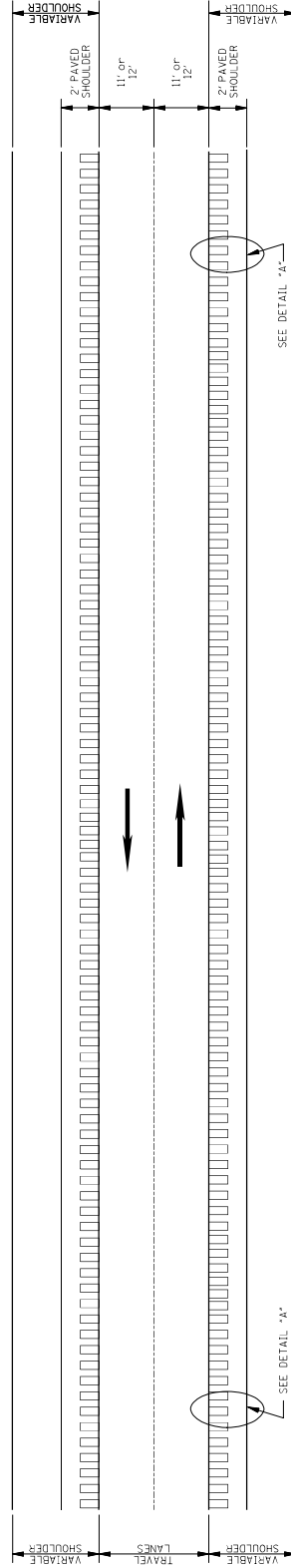
1. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT.
2. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL INTERSECTIONS OF ROADWAYS AND OTHER INTERSECTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
3. COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS.
4. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO:
 - A. MAINLINE
 - B. INTERSECTING ROADWAY IF OVERLAP OR RECONSTRUCTED BEYOND NORMAL MAINLINE R.O.W.
 - C. ANY ROADWAY WITH EXISTING RUMBLE STRIPES PRIOR TO CONSTRUCTION.
5. 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	
DATE	REVISION

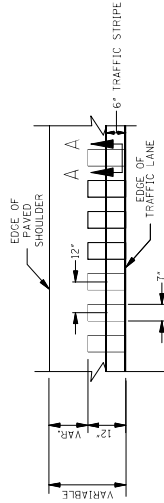
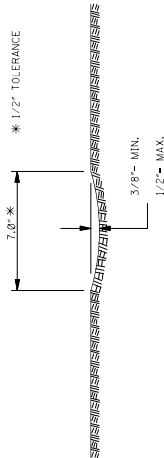
**RUMBLE STRIPES
2-LANE HIGHWAYS
(ASPHALT LANES,
2-FT ASPHALT SHOULDERS)**

DRAWING NUMBER
RS-1

ISSUE DATE: AUGUST 01, 2017
DRAWING NUMBER
6064

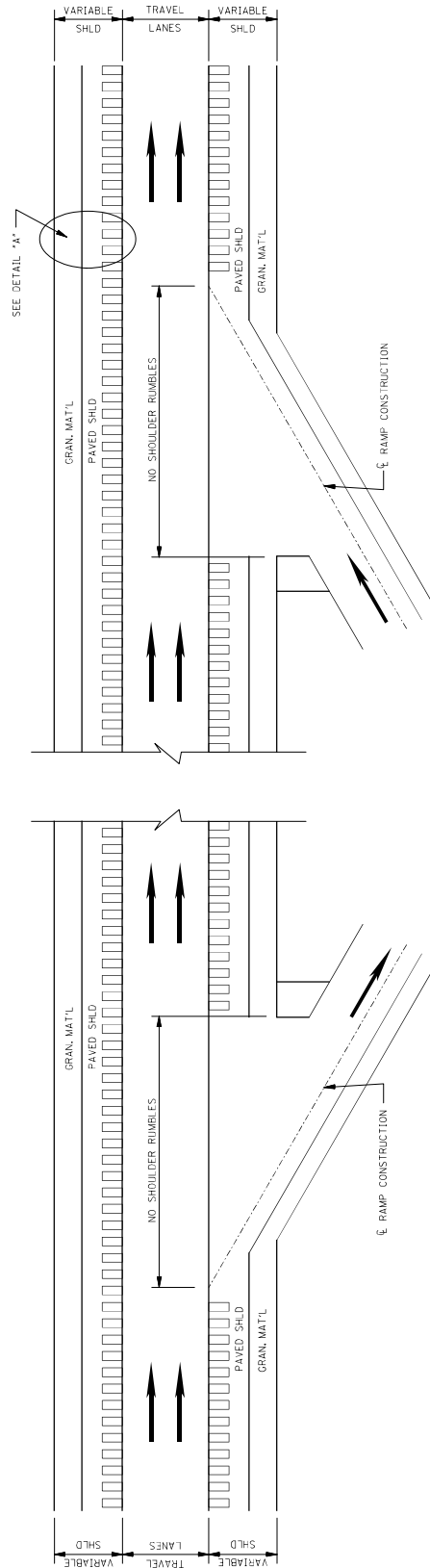
GENERAL NOTES

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



SECTION "A-A"

DETAIL "A"



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

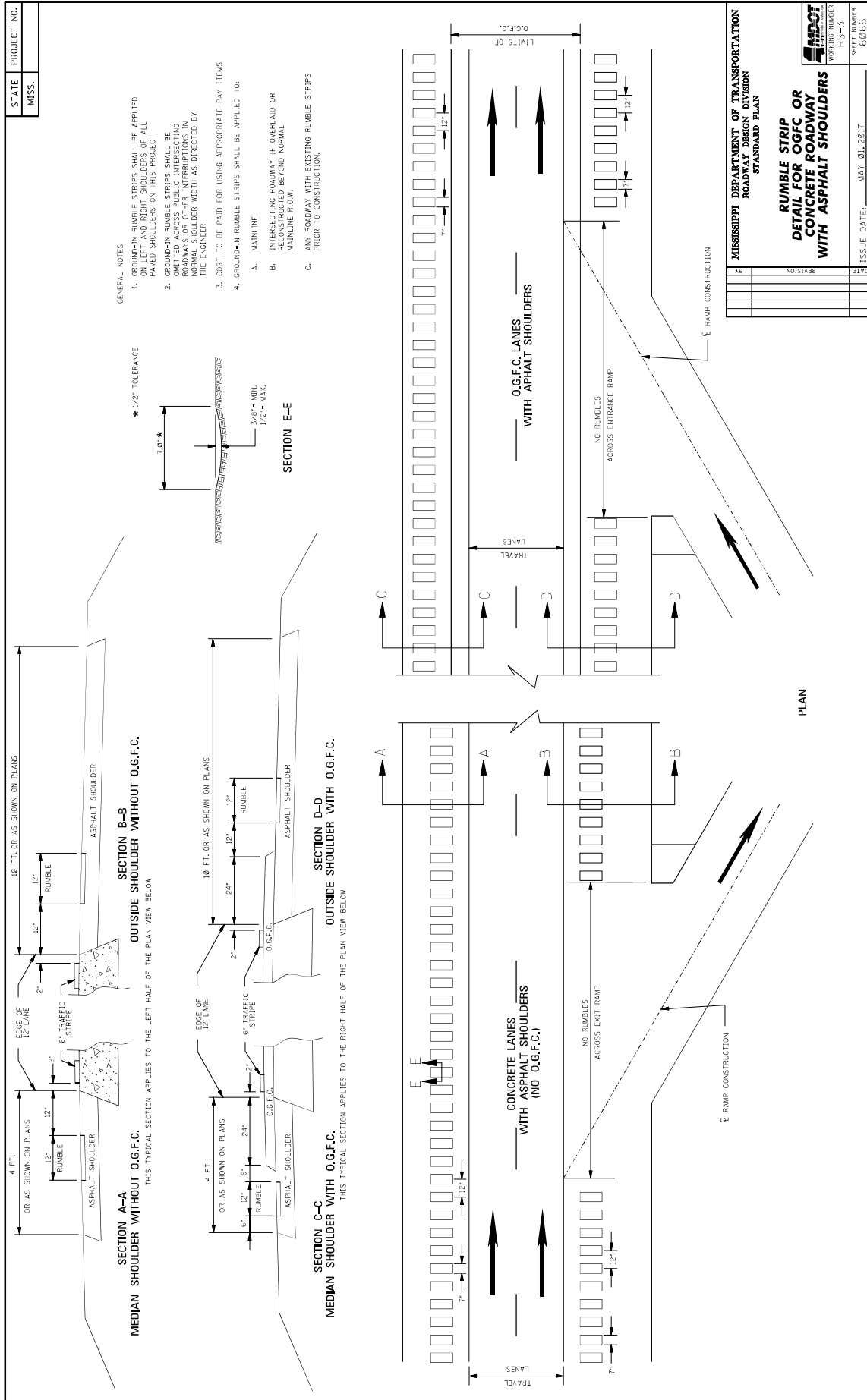
**RUMBLE STRIPES
4-LANE HIGHWAYS
(ASPHALT LANES,
2-FT OR WIDER,
ASPHALT SHOULDERS)**

DATE	REVISION
05/08	05/08

ISSUE DATE: AUGUST 01, 2017

PROJECT NUMBER: 3599-2

PLAN NUMBER: 6065



MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
RUMBLE STRIP DETAIL FOR O.G.F.C. OR CONCRETE ROADWAY WITH ASPHALT SHOULDERS	
SHEET NUMBER P.S.-5	ISSUE DATE: MAY 01, 2017
DRAWING NUMBER 62/606	
DATE	REVISION
BY	BY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3676

CODE: (SP)

DATE: 09/21/2021

SUBJECT: Asphalt Gyrotory Compactor Internal Angle Calibration

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4656

CODE: (SP)

DATE: 10/12/2022

SUBJECT: Contract Time

PROJECT: MP-5043-61(011) / 307913301 -- Rankin 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 **December 13, 2022** and the date for Notice to Proceed / Beginning of Contract Time will be **March 16, 2023**.

Should the Contractor request a Notice to Proceed earlier than **March 16, 2023** and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed date. Regardless of whether or not an early Notice to Proceed is granted, contract time will start at the original Notice to Proceed date.

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4657

CODE: (SP)

DATE: 07/06/2022

SUBJECT: Scope of Work

PROJECT: MP-5043-61(011) / 307913301 -- Rankin County

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

Work on the project shall consist of the following:

Station 8+93 (BOP) to Station 164+43 (BOP)

Work in this area shall consist of milling the existing pavement to a depth of 1½" and variable and placing 2" and variable of 12.5-mm, MT asphalt as per the attached details. All local roads shall be milled to a depth of 1½" and inlayed with 2" and variable of 12.5-mm, MT asphalt. Failed areas (see attached table for locations) shall be saw cut to full depth, removed, and replaced with 12.5-mm, MT, Leveling asphalt. Existing guardrail that no longer meets the standard specifications shall be removed and replaced (see attached table for locations) according to the applicable standard drawings. Undersealing shall be performed at the bridge ends of Bridges 159.7, 159.8 and 159.9 to fill any voids under the pavement. Permanent signs in this area that are in poor condition shall be replaced as per the attached table and applicable standard drawings.

Shoulders throughout the project are significantly higher than the existing asphalt pavement. Shoulders shall be graded to 4% (as directed by the Engineer) to the shoulders edge as shown on the typical sections. No extra compensation will be made for blading shoulders.

Prior to milling and paving operations, edge drains shall be placed according to the attached detail and standard specifications. Before the edge drains are installed, the drainage ditches on the east and west sides of SR 43 from Station 8+93 to Station 16+88 shall be site graded. All sediment located in the existing paved ditches shall be removed and paid for under pay item 203-G: Excess Excavation. Once the material has been removed, the remaining sections shall be graded to properly drain as directed by the Engineer. All site grading operations shall be included in other items bid.

At Station 126+80 on the left lane shoulder, 300-lb rip rap shall be placed on the fore slope and drainage ditch as directed by the Engineer to address erosion issues. The existing undermined paved ditch shall be removed prior to re-placement and geotextile for rip rap shall be placed under all areas addressed. See attached details for location. This work shall be performed prior to all milling and paving operations

General Notes

Milling

Milling/paving shall not begin until an **approved** asphalt mix design has been received, nor until such time that, in the opinion of the Engineer, weather conditions have been consistently suitable enough to allow placement of the asphalt pavement after the milling operations.

The reclaimed asphalt pavement (RAP) material removed by the milling operation shall become the property of the Contractor.

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

Milling and paving operations shall be performed such that a -2% slope from centerline is provided in normal crown roadway sections. Superelevation through curves shall be maintained as it currently exists or improved as directed. Where slope correction is required, correction shall be made by milling, paving, or combination thereof as directed by the Engineer. Milling correction: Mill outside edge of pavement to a depth of 1½" on a 2% slope towards the centerline. Paving Correction: Mill to depth of 1½" on existing slope and 2¼" and variable on centerline and 1½" on outside edge. Combination Method: Combination of both methods as directed by the Engineer to achieve the desired slope. In super elevated areas where correct SE exist, milling will transition to thickness through curves. Where correct SE does not exist, milling will transition at curves to correct SE as directed by the Engineer.

Milling operations shall be performed in accordance with the Contract documents and the Standard Specifications. Variable width and length transitions may be required for ties at ramps, local roads, project limits.

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

Traffic will be allowed to travel on the milled surface for five (5) days. Traffic will be allowed to run on all milled local roads for 30 days unless otherwise stated. This allowance is for the Contractor's convenience, and thus, the Contractor is responsible for any pavement failures or damage sustained during this period. Approved mix designs shall be on hand prior to milling. Milling operations will not commence until such time that, in the opinion of the Engineer, weather conditions have been consistently suitable enough to allow the placement of the asphalt pavement after the milling operations.

Paving

Prior to mainline milling and paving operations, failed areas in the existing pavement shall be removed and backfilled with 12.5-mm, MT, Leveling asphalt as per the attached typical sections and details. Asphalt shall be placed in multiple lifts with a maximum lift thickness of 3". Any granular/chemically treated/stone/etc. base or subgrade material deemed unsuitable by the

Engineer shall be removed as directed and backfilled with 12.5-mm, MT, Leveling asphalt. Payment for the excavation of the granular base and subgrade will be made using pay item 203-G: Excess Excavation. A list of the failed areas is shown in the attached tables. Pavement repairs shall be completed as a continuous operation in order to minimize traffic impacts. Lane closures shall remain in place until the failed area has been completely repaired. Lane closures may not be left unattended.

If traditional excavation methods are used, the removal area shall first be saw cut full depth including concrete, where applicable, to create a neat line and prevent damage to the adjacent pavement structure. Payment for saw cuts on failed areas will be made using the appropriate pay items. If milling techniques are used, the area will not require saw cuts but care shall be exercised in order to create a neat removal line and to prevent damage to the adjacent pavement structure. If saw cuts are used in conjunction with milling, payment will be made using the appropriate items. Payment will not be made for saw cuts not performed.

Publicly maintained roads and streets shall be paved to the existing right-of-way and in accordance with the attached drawings.

Privately owned entrances shall be paved to the shoulder line per the included typical drawing unless otherwise directed. Pad dimensions shall match the existing lengths and widths unless otherwise directed. Pads shall be shaped horizontally and vertically to prevent excessive drop-offs. Any new driveway pads deemed necessary by the Engineer shall be placed according to specifications.

Granular Shoulder Material

Any material excavated from the existing shoulder during pavement widening operations or as a result of shoulder blading shall be used on 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 suitably placed in adjacent areas and deemed to be excess excavation by the Engineer shall be removed from the project site. Payment for removal of excess material will be made using pay item 203-G: Excess Excavation.

Granular material (crushed stone) shall be provided around driveway pads as directed to prevent shoulder drop-offs and shall be placed in a timely manner. Drop-offs exceeding 2½" shall be corrected within two (2) calendar days of the placement of the pad.

Where applicable, the existing shoulders shall be raised to match the new pavement elevation by placing variable depth granular material (crushed stone). Placement of the granular material on the finished asphalt course shall not be permitted. The existing shoulder shall be scarified to allow incorporation of the new shoulder material. The material shall be bladed, rolled, and compacted to a finished slope of four percent (4%) in normal crown sections. 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%) in normal crown sections. The cost of blading shall be included in the price of other items bid. Crushed concrete will not be allowed.

Temporary and Permanent Pavement Markings

Temporary traffic stripe shall be required immediately after the milling and/or required overlay and prior to opening area to traffic. Temporary stripe shall be placed in the same location and configuration as the permanent stripe except that it may be offset as required for milling and paving operations. If temporary stripe is offset, the Contractor shall conduct operations in a manner to insure the final temporary stripe is placed at the required location of the permanent stripe. If removal of temporary offset stripe is required in order to achieve the correct location and alignment of permanent stripe, the cost of removal will be included in the price of other items bid. Placing double temporary centerline will not be allowed.

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

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

All permanent striping shall be double drop thermoplastic, 90-mil thickness unless otherwise specified in Subsection 626.03.1.2. Edge lines shall be placed to accommodate the lane widths shown on the attached applicable typical sections unless prevented by field conditions.

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

Edge drain detail stripe shall be placed at the location of edge drain outlets as shown in the attached details, tables, and as directed by the Engineer.

Transverse stop sign rumble strips (rumble bars) shall be placed in accordance with the attached detail and at the locations listed in the attached table.

Guardrail

Guardrails shall be replaced at the locations shown on the attached table. Removal of guardrail shall consist of removal of bridge end section, w-beam/thrie beam, terminal end section, posts, and all other appurtenances. All guardrail removed shall be replaced the same day and prior to reopening the adjacent lane of traffic. Existing guardrail pads shall be milled to a depth of 1½" and replaced with 2" of 12.5-mm, MT asphalt. 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.

Asphalt shall be extended under the guard rail and two feet (2') behind guard rail post as per the attached detail. The area to be paved shall be bladed to accommodate 3" of asphalt pavement. The elevation of the finished surface of the asphalt pavement shall provide for the required MASH guardrail height (see Standard Drawings). The excavated material shall be retained and used to raise the existing shoulder to match the new pavement elevation. The cost of blading shall be included in the price of other pay items bid. Material which cannot be placed and blended in adjacent areas and deemed to be excess excavation by the Engineer shall be removed under pay item 203-G: Excess Excavation.

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

Permanent Signs

Permanent signs as listed on the attached tables shall be replaced. Unless otherwise listed in the attached tables, existing posts, anchors, angles/bars, and other components shall be reused. The Contractor shall use new bolts, screws, washers, nuts, etc. of the required sizes in the installation of signs. If required as part of the sign replacement activities, all post, pipe, and I-beam lengths in these plans are estimated. Post lengths for all signs shall be verified in the field by the Contractor prior to fabrication. Installation dates shall be clearly written in bold black markings on the back bottom half of all signs with a permanent marking stick that is waterproof, fade resistant, and marks on wet or dry surfaces. The removal of damaged signs and posts (if necessary) shall be included in the price of other items bid. Installation dates shall be clearly written in bold black markings on the back bottom half of all signs with a permanent marking stick that is waterproof, fade resistant and marks on wet or dry surfaces. All existing signs which are to be removed as a part of this project that are not in conflict with construction shall remain in place until new signs are installed unless noted or directed otherwise by the Project Engineer.

Traffic Control

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

Standard roadside construction signs, barricades, etc. shall be placed in accordance with the attached tables, drawings, and as directed by the Engineer. W20- 1 signs shall be placed on all public road approaches as shown or as directed. Payment for standard roadside construction signs, barricades, etc. will be made using the appropriate pay items.

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 shall be included in the prices of other items bid. Failure of the Contractor to remove the debris as prescribed herein shall be just cause for withholding the monthly progress estimate payment or suspending active operations until the debris is satisfactorily removed by the Contractor.

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

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

Temporary portable rumble strips, paid for under pay item 907-649-B, shall be used in accordance with detail shown. These rumble strips shall be retained by the department upon completion of the project. The retained material shall be delivered to the MDOT Newton Maintenance Yard, 7759 Highway 80, Newton, MS. It is responsibility of the Contractor to coordinate the delivery with MDOT Maintenance personnel Jay Franklin at 601-946-7820.

Miscellaneous Notes

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

Any signs that conflict with construction of this project shall be removed and relocated by the Contractor as directed by the Engineer; the cost of which shall be absorbed in other items bid.

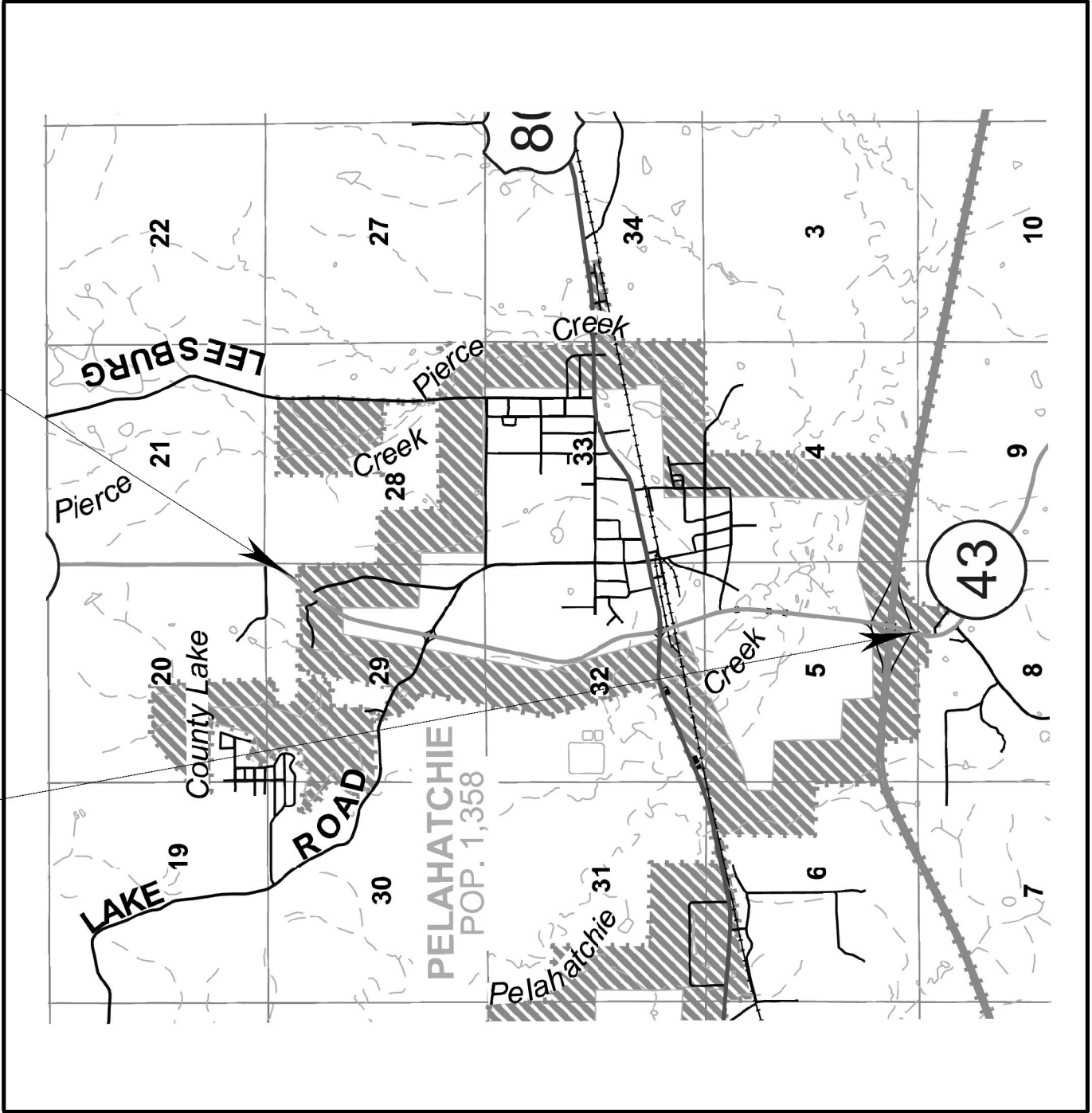
Removal of existing raised pavement markers shall be included in the prices for other items bid.

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

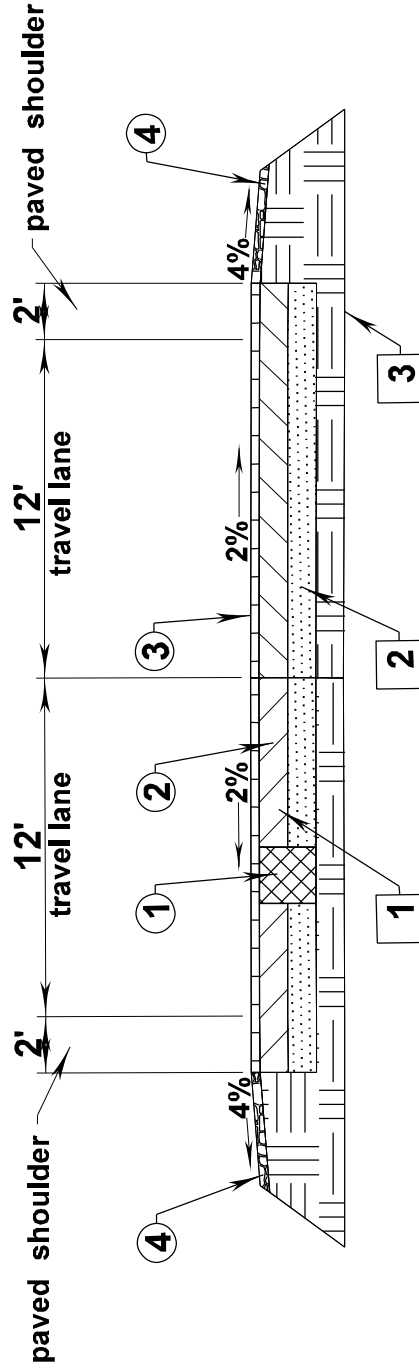
Prior to the final inspection, bridges, islands, and areas with curb shall be swept/cleaned. Care should be taken to prevent milled asphalt, asphalt debris, vegetative/granular debris, etc. from entering drainage structures or clogging other drainage ways. Disposal of material will not be measured for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


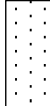

RANKIN COUNTY
MP-5043-61(011) 307913/301000
(SR 43 from South of I-20 to Pelahatchie City Limits)

BOP STA. 8+93 ————— **EOP STA. 164+43**

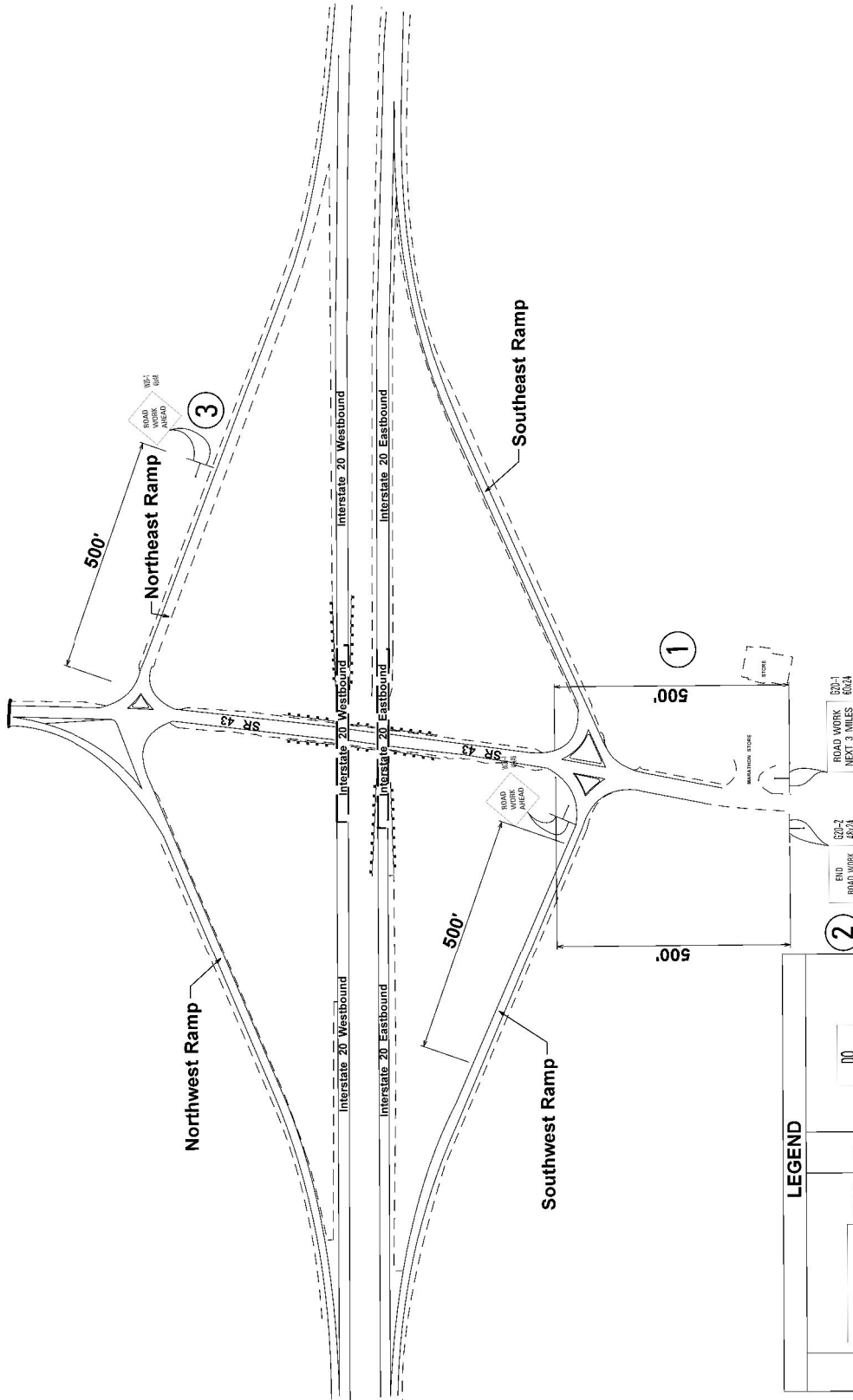


RANKIN COUNTY
MP-5043-61(011) 307913/301000
(SR43 from S of I-20 to Pelahatchie City Limits)
BOP STA. 8+93 - EOP STA. 164+43



- | | | |
|--|--|--|
| <p>1 Existing 5" and variable asphalt pavement.</p> <p>2 8" of cement-treated base.</p> <p>3 8" of granular material.</p> <p>4 - proposed asphalt</p> <p>4 - existing asphalt</p> <p>4 - crushed stone</p> | <p> - failed area</p> <p> - cement treated base</p> <p> - crushed stone</p> | <p>1 Repair failed areas full depth with 12.5mm, Mix, MT Leveling</p> <p>2 Mill existing asphalt pavement a depth of 1½".</p> <p>3 Overlay with 2" and variable 12.5mm, Mix, MT.</p> <p>4 Shoulders shall be cut to 4% where applicable (or as directed by the Engineer) crushed stone shall be placed in area where insufficient suitable material is present to reestablish shoulder to new asphalt grade.</p> |
|--|--|--|

RANKIN COUNTY
MP-5043-61(011) 307913/301000
(detail construction sign schedule #1)



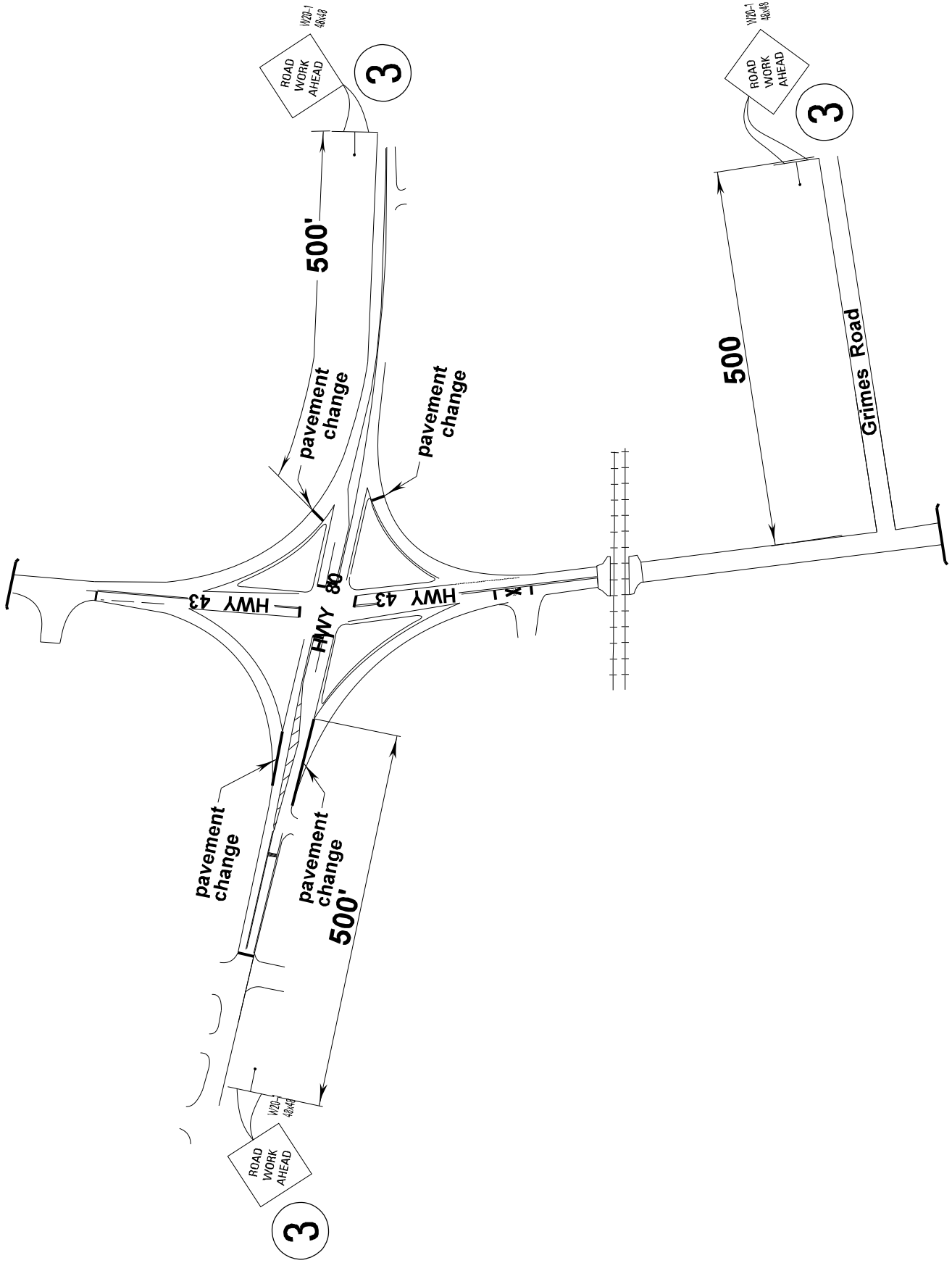
NOTES:

- ONE (1) W20-1 "ROAD WORK AHEAD" SIGN IS REQUIRED AT EACH LOCAL ROAD, STREET, OR HIGHWAY ENTERING THE PROJECT.
- G20-1 AND G20-2 SIGNS MOUNTED ON TYPE III DOUBLE FACED BARRICADE.
- R4-1 "DO NOT PASS", R4-2 "PASS WITH CARE", AND W14-3 "NO PASSING ZONE" signs are required in accordance with the MUTCD. Signs shall be spaced as follows:
 - R4-1: 1000 ft or more
 - R4-2: 1000 ft or more
 - W14-3: 750 ft
- FIELD CONDITIONS MAY REQUIRE SOME SIGNS ON THIS DETAIL TO BE ADJUSTED.
- THE ABOVE SHOWN ITEMS WILL BE PAID UNDER THE APPROPRIATE PAY ITEMS.

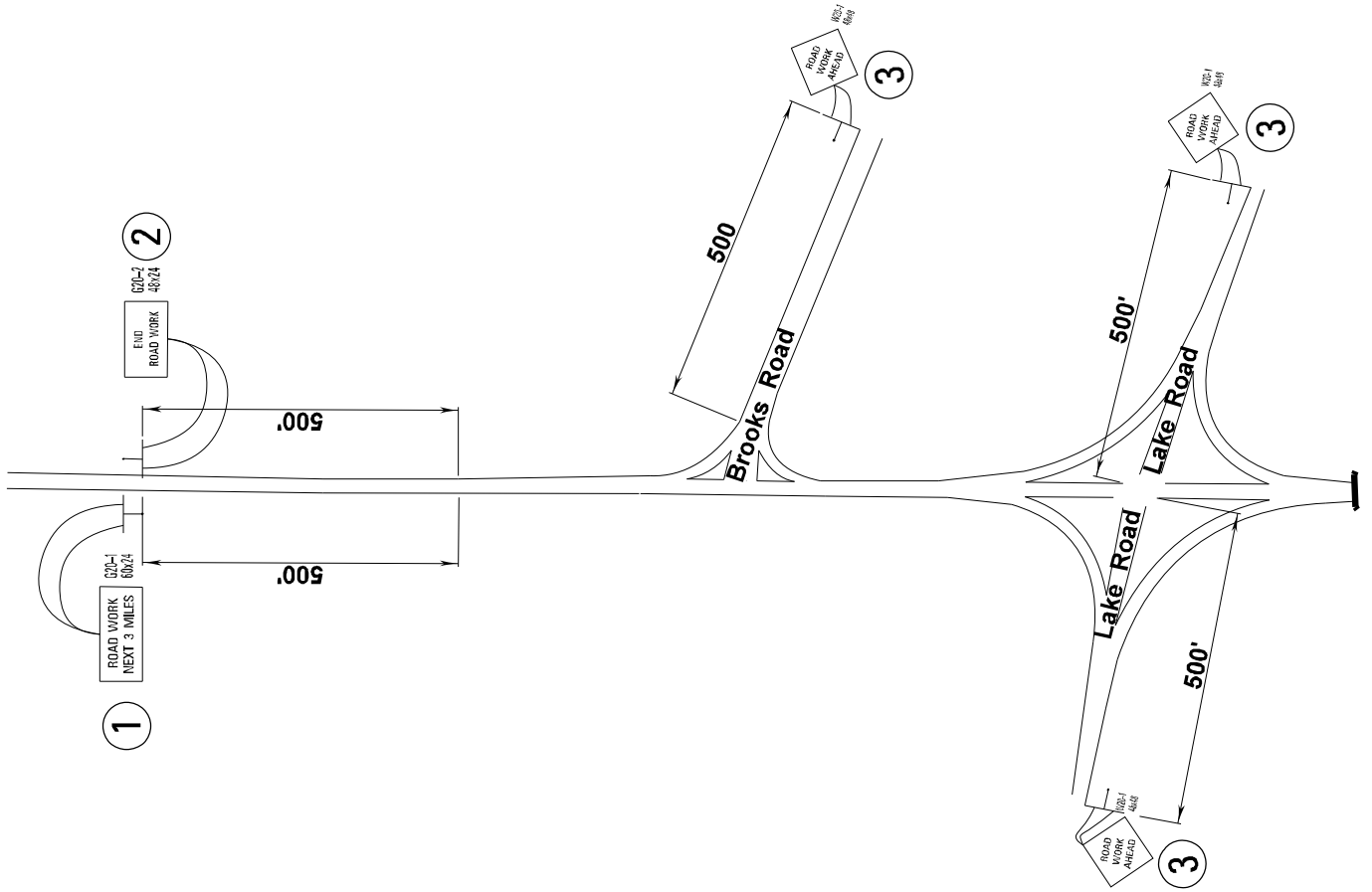
LEGEND		
①	ROAD WORK NEXT 3 MILES G20-1 60x24	R4-1 24x30 DO NOT PASS
②	END ROAD WORK G20-2 48x24	R4-2 24x30 PASS WITH CARE
③	ROAD WORK AHEAD W20-1 48x48	W14-3 36x48x48 NO PASSING ZONE

- * Traffic Control Signs Required**
- G20-1 Road Work Next 3 Miles **2**
 - G20-2 End Road Work Ahead **2**
 - G20-1 Barricades **2**
 - G20-2 Barricades **2**
 - R4-1 Do Not Pass **18**
 - R4-2 Pass With Care **8**
 - W14-3 No Passing Zone **10**
 - W20-1 Road Work Ahead **7**

RANKIN COUNTY
MP-5043-61(011) 307913/301000
(detail construction sign schedule #2)



RANKIN COUNTY
MP-5043-61(011) 307913/301000
(detail construction sign schedule #3)



MP-5043-61(011)/307913301000
Rankin County

STANDARD ROADSIDE SIGNS - 0.125" THICKNESS											
STATION	SIGN NUMBER	SIZE (in. x in.)	AREA (sf)	PIPE POSTS (lf)			U POST (lf)		(7/16" x 2-1/2") BARS 3.72 lbs/lf	Class "B" Conc (cy)	REMARKS
				3"	3-1/2"	4"	5"	2 lb/ft			
58+99	W8-13	36"x36"	9								Bridge Ices Before Road
69+64	R1-1	48"x48"	16								Stop
62+02	W3-1	48"x48"	16								Stop ahead symbol
84+96	W1-2R	30"x30"	6.25								right curve
Brooks ave E	R1-2	36"x36"	9								yield
163+10	W1-2L	30"x30"	6.25								left curve
Total this sheet =			62.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Guardrail Quantities															
Station 1	Station 2	LOCATION (L/T/RT)	W-BEAM		GUARDRAIL		THIRIE BEAM (LF)	FLARED TERMINAL END SECT. (EA)	TANGENT TERMINAL END SECT. (EA)	TYPE "D" MOD	DELINEATORS		Type 3 Object Markers (EA)	GUARDRAIL REMOVAL (LF)	REMARKS
			(LF)	(W-BEAM)	TRANS. SECT. (LF)	THIRIE BEAM (LF)					WHITE (EA)	YELLOW (EA)			
11+00	14+38	RL	282.5					2				11		337.5	
10+90	14+15	LL	250					2				11		325	
36+08	38+21	RL	150					1	1			7	1	212.5	
37+06	38+19	LL	50					1	1			4	1	112.5	
39+08	42+21	RL	262.5						2			9	2	312.5	
39+08	42+21	LL	262.5						2			9	2	312.5	
43+09	44+09	RL	37.5					1	1			4	1	100	
43+09	45+22	LL	150					1	1			7	1	212.5	
47+90	49+90	RL	137.5					1	1			6	1	200	
48+90	49+90	LL	37.5					1	1			4	1	100	
50+89	52+02	RL	50					1	1			4	1	112.5	
52+96	55+09	LL	150					1	1			7	1	212.5	
			1800		0	0	0	12	12	12	82	0	12	2550	
			L.F.	EA.	EA.	LF.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	LF.	

* REMOVAL OF ALL GUARDRAIL (BRIDGE END SECTIONS, W-BEAM, TYPE-I CABLE ANCHORAGE, TERMINAL END SECTIONS, ETC.) WILL BE PAID UNDER PAY ITEM 202-B REMOVAL OF GUARD RAIL.
 * REMOVAL OF GUARDRAIL DELINEATORS ARE CONSIDERED INCIDENTAL TO THE REMOVAL OF GUARDRAIL AND WILL NOT BE MEASURED AS A SEPARATE PAY ITEM.
 * ALL GUARDRAIL REMOVED ITEMS (METAL RAIL AND METAL POSTS, WOODEN POSTS, ALL BLOCKOUTS, CONCRETE ANCHORS, ETC.) WILL BE THE PROPERTY OF THE CONTRACTOR.
 * TOTAL GUARDRAIL LENGTH IS BASED ON A TERMINAL END SECTION 37.5' LONG. IF A TERMINAL END SECTION OF A DIFFERENT LENGTH IS USED, THE LENGTH OF THE W-BEAM MAY HAVE TO BE ADJUSTED.

619-D2001 Standard Roadside Construction Signs (10 Sq. Ft. or More) 307913/301000						
STATION	LOCATION	DESCRIPTION	QUANTITY	UNIT	REMARKS	
3+00	RT	G20-1 (Road Work Next 4 Miles)	10	SF	500' West Of BOP	
	RT	W20-1	16	SF	500' East of NE 120 Ramp Pavement Change	
	RT	W20-1	16	SF	500' West of SW 120 Ramp Pavement Change	
	RT	W20-1	16	SF	500' East Grimes St	
	RT	W20-1	16	SF	500' East of US 80 Pavement Change	
	RT	W20-1	16	SF	500' East Lake Rd	
	LT	W20-1	16	SF	500' West Lake Rd	
	LT	W20-1	16	SF	500' West of US 80 Pavement Change	
	RT	W20-1	16	SF	500' East Brooks Ave	
164+43	LT	G20-1 (Road Work Next 4 Miles)	10	SF	500' East of EOP	
		Total	148	SF		

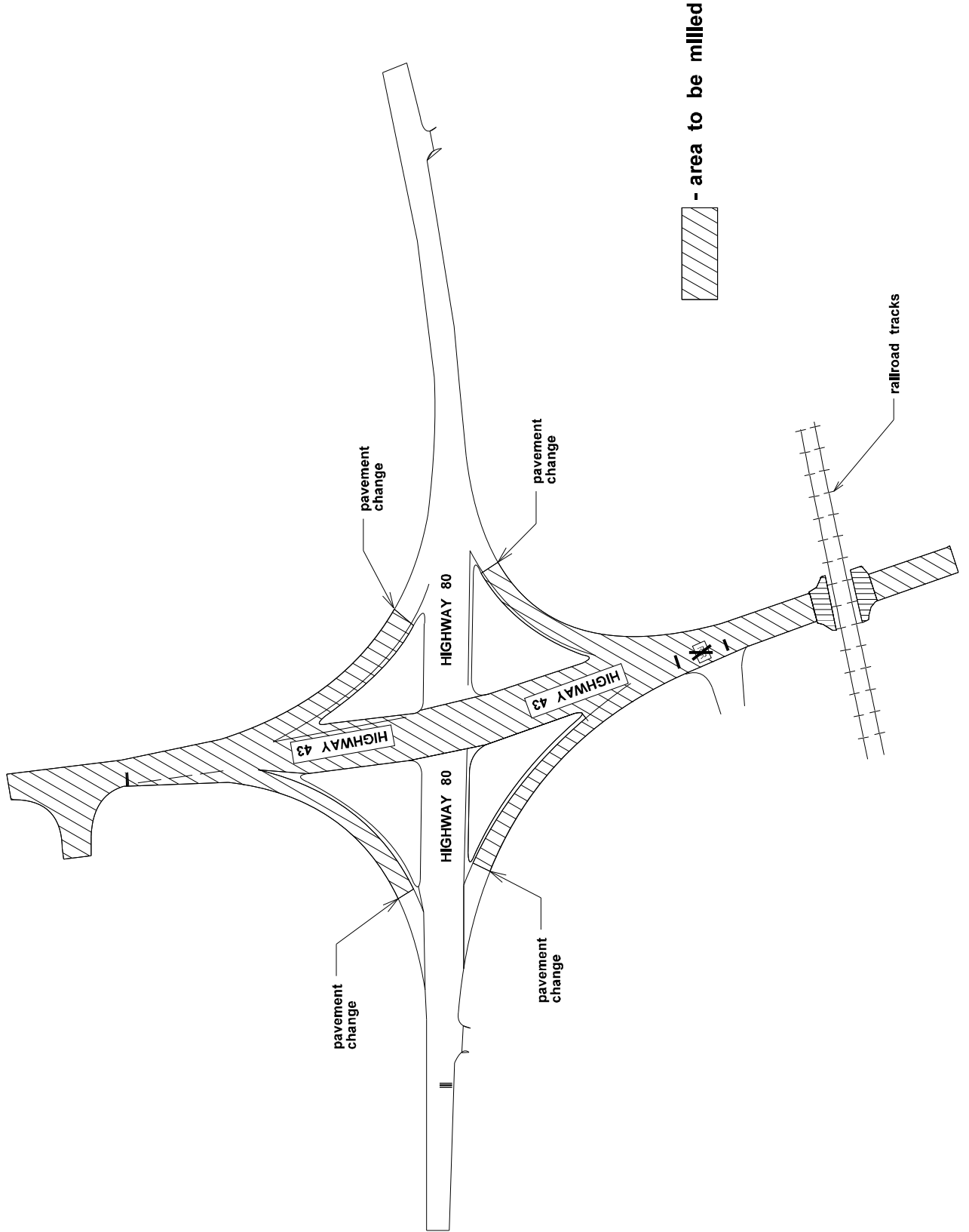
619-D1001 Standard Roadside Construction Signs (Less than 10 Sq. Ft.) 307913/301000					
Station	Location	Description	Quantity	Unit	Remarks
8+93	RT	W14-3	5.56	SF	
8+93	LT	R4-1	5	SF	
16+25	LT	R4-1	5	SF	
16+43	RT	R4-1	5	SF	
23+60	RT	R4-2	5	SF	
23+75	LT	W14-3	5.56	SF	
37+00	RT	W14-3	5.56	SF	
44+50	RT	R4-1	5	SF	
46+40	LT	R4-2	5	SF	
52+00	RT	R4-1	5	SF	
57+00	LT	R4-1	5	SF	
59+50	RT	R4-1	5	SF	
64+50	LT	R4-1	5	SF	
67+00	RT	R4-1	5	SF	
72+00	LT	R4-1	5	SF	
73+00	RT	R4-2	5	SF	
79+50	LT	W14-3	5.56	SF	
82+50	RT	W14-3	5.56	SF	
88+50	RT	R4-1	5	SF	
93+60	LT	R4-2	5	SF	
94+75	RT	R4-2	5	SF	
98+40	LT	R4-1	5	SF	

619-D1001 Standard Roadside Construction Signs (Less than 10 Sq. Ft.) 307913/301000						
Station	Location	Description	Quantity	Unit	Remarks	
103+40	LT	W14-3	5.56	SF		
118+75	RT	W14-3	5.56	SF		
123+75	RT	R4-1	5	SF		
128+80	LT	R4-2	5	SF		
129+00	RT	R4-2	5	SF		
134+50	LT	R4-1	5	SF		
139+50	LT	W14-3	5.56	SF		
139+50	RT	W14-3	5.56	SF		
147+00	RT	R4-1	5	SF		
149+00	LT	R4-2	5	SF		
154+50	RT	R4-1	5	SF		
156+93	LT	R4-1	5	SF		
164+43	LT	W14-3	5.56	SF		
164+43	RT	R4-1	5	SF		
	LT	G20-2	8	SF	500' South of BOP	
	RT	G20-2	8	SF	500' North of EOP	
	RT	G20-2	8	SF	500' East of US 80 Pavement Change	
	LT	G20-2	8	SF	500' West of US 80 Pavement Change	
	LT	G20-2	5.56	SF	500' South of BOP	
		TOTAL	223.16			
619-G4005 Barricades, Type III, Double Faced 307913/301000						
Location	Station	Description	Quantity	Unit	Description	
8+93	RT	500' South of BOP	6	LF	Mounted on G20-1	
8+93	LT	500' South of BOP	6	LF	Mounted on G20-2	
164+43	RT	500' North of EOP	6	LF	Mounted on G20-1	
164+43	LT	500' North of EOP	6	LF	Mounted on G20-2	
		TOTAL	24	LF		

Removal of Asphalt Failed Areas, All Depths										
Location	STA	to	STA	Length (ft)	Width (ft)	Saw Cuts (ft)	Area (SY)	Estimated Asphalt Req. (TONS)	Estimated Excess	REMARKS
RT	1000		1006	6	12	36	8	2.7		
RT	1259		1269	10	24	68	26.67	9		
				Totals		104	34.67	11.7	0	
*QUANTITIES WERE ROUNDED ON ESTIMATE QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER.										

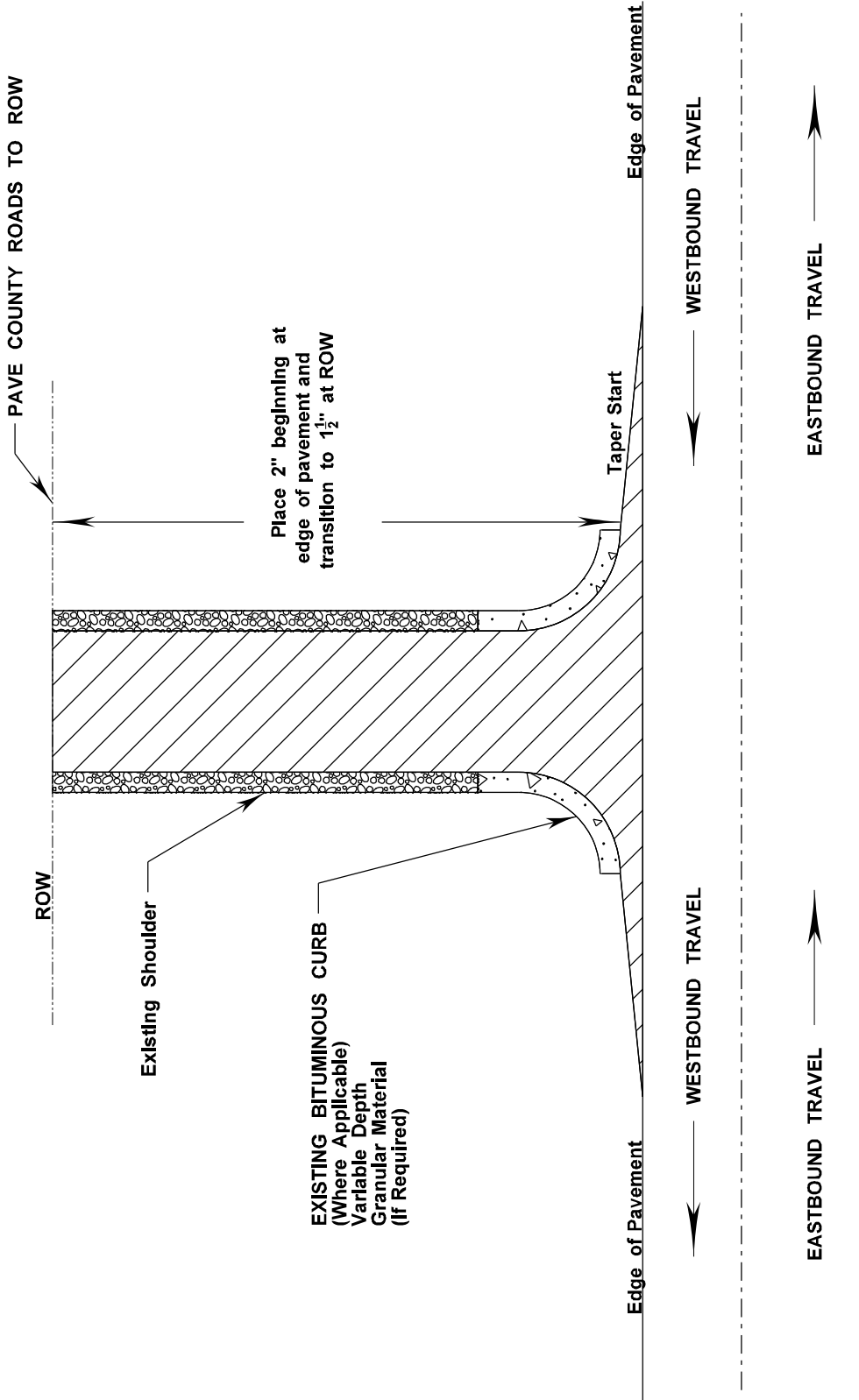
Edge Drain Installation					
Beginning Station	Ending Station	Location	605-H001 Edge Drain (LF)	605-I001 Edge Drain Outlets/Vents (LF)	221-A001 Concrete Paved Ditch (CY)
09+50	14+00	Northbound	450	48.0	1.45
10+00	13+50	Southbound	350	36.0	1.09
Totals:			800	84	3
Note: Locations and Measurements are Approximate and may Vary With Field Conditions					
According to the standard specifications the edge drain unit price shall be full compensation for all items necessary to complete the work. This includes, but not limited to, all labor, materials, tools, equipment and incidentals including saw cuts, trenching, disposing of trenched material, granular material and bituminous pavement mixture.					

RANKIN COUNTY
MP-5043-61(011) 307913/301000
(milling detail at railroad)



RANKIN COUNTY
MP-5043-61(011) 307913301000

MILLING AND PAVING DETAIL
COUNTY ROADS WITH CURB AND GUTTER




Locations

- Grimes Street
- Lake Road
- Brooks Street

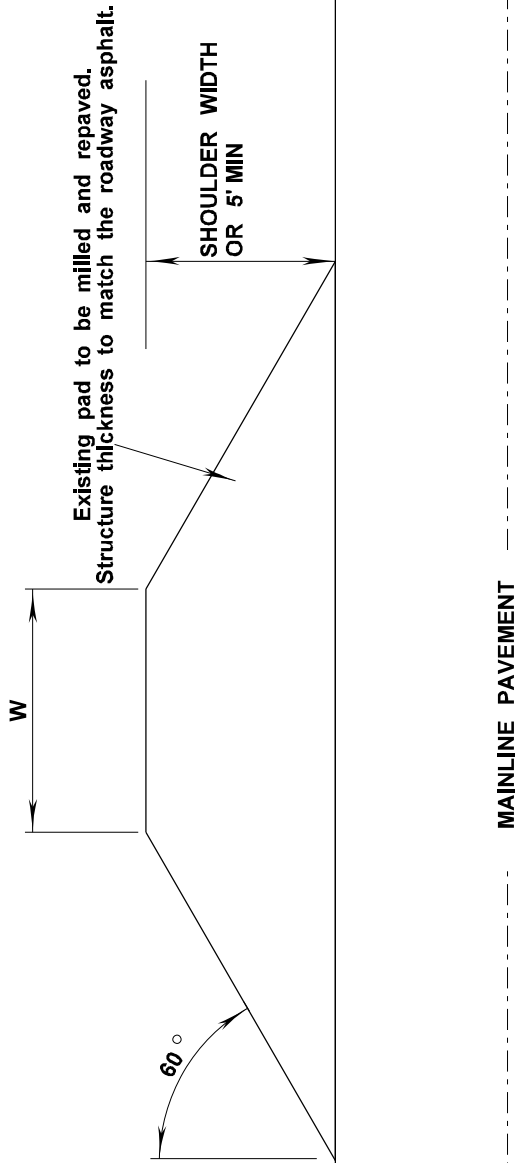
NOTES:

- Place 2" 12.5mm, MT, Mixture to tie to mainline overlay.

Milling & Paving area - 

RANKIN COUNTY
MP-5043-61(011) 307913/301000

DRIVEWAY PAD DETAIL

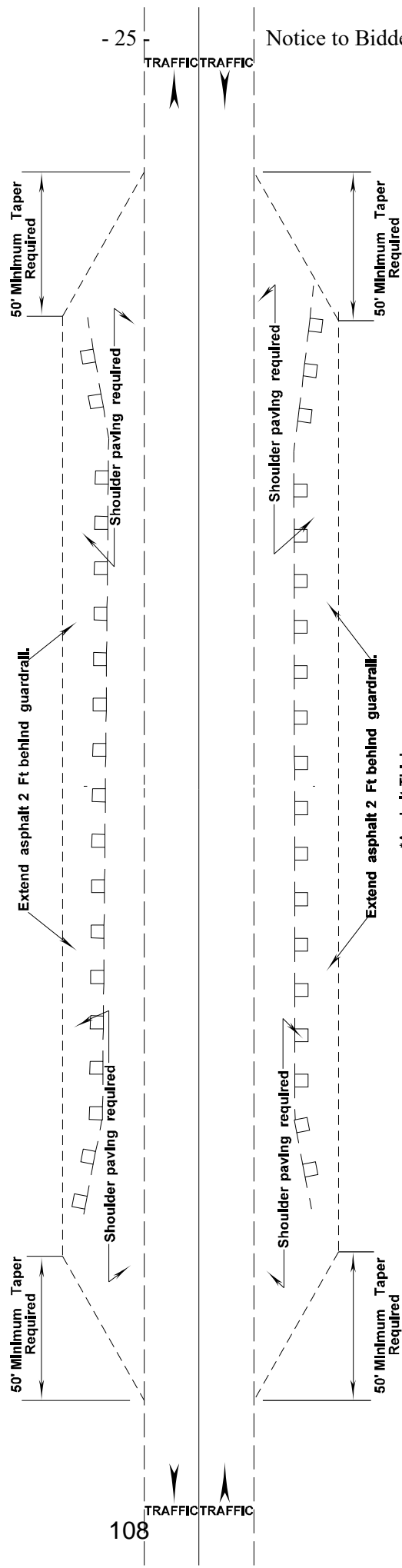


W = 16' MAX RESIDENTIAL
W = 30'-50' COMMERCIAL

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 SHOULD BE PLACED AROUND THE PADS AS REQUIRED.

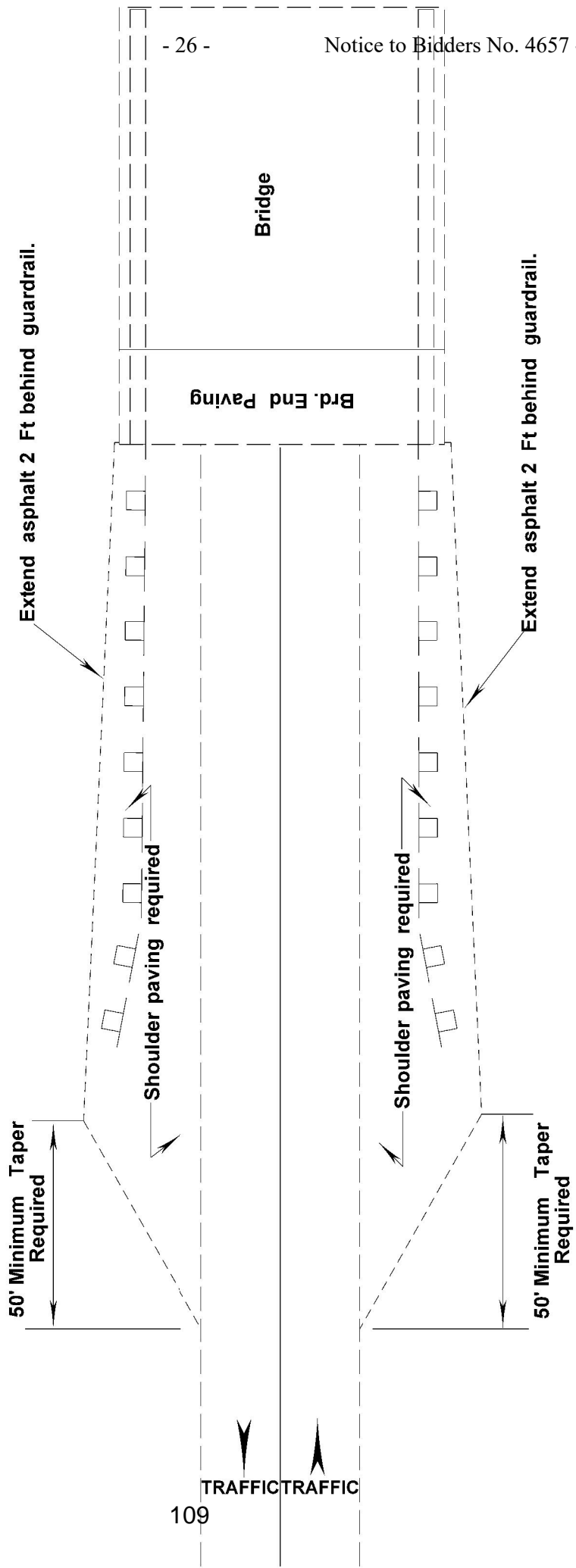
RANKIN COUNTY
MP-5043-61(011) 307913/301000
TYPICAL DETAIL OF ADDITIONAL SHOULDER PAVING
REQUIRED AT GUARDRAIL LOCATIONS



*Asphalt Thickness
 See scope of work for additional details

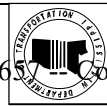
**RANKIN COUNTY
MP-5043-61(011) 307913/301000**

**DETAIL OF ADDITIONAL SHOULDER PAVING
REQUIRED AT GUARDRAIL LOCATIONS**



*Asphalt Thickness
See scope of work for additional details

FMS CON: 307913201000
 STATE PROJECT NO.
 MISS. MP-5043-61(011)



PROJECT NUMBER
 SPSSR-1
 SHEET NUMBER

\$PG\$

NOT TO SCALE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

**STOP SIGN
 RUMBLE**

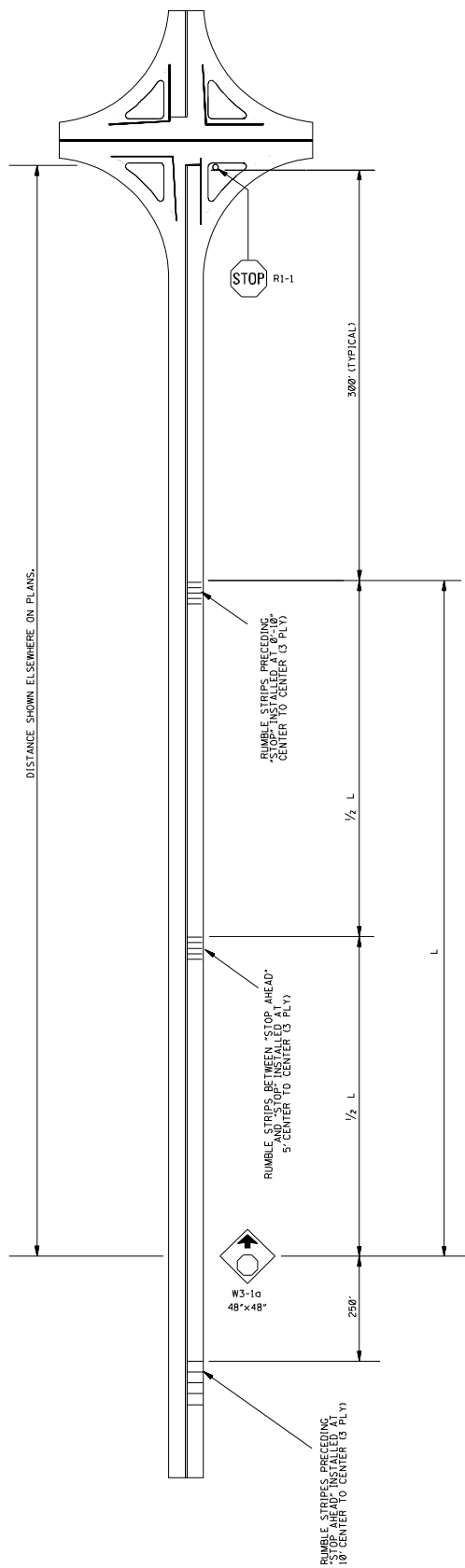
PROJ. NO.: MP-5043-61(011)

COUNTY: RANKIN

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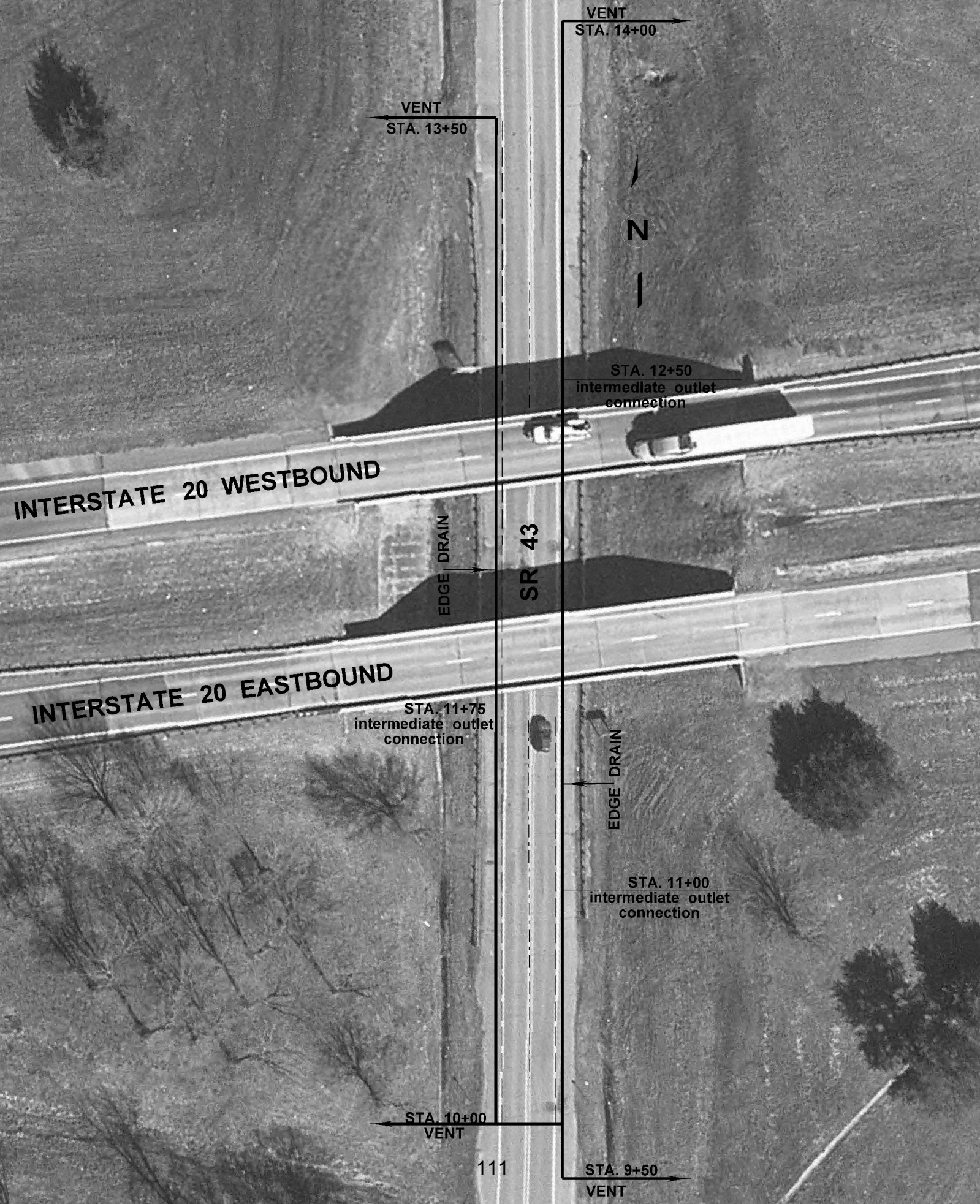
DESIGN TEAM UPDATE CHECKED UPDATE DATE 05/27

DATE	REVISION	BY



NOTES:
 INSTALL RUMBLE STRIPS AS SHOWN:


1. ONE SET OF RUMBLE STRIPS APPROXIMATELY 250 FT. FROM "STOP AHEAD".
2. ONE SET OF RUMBLE STRIPS APPROXIMATELY 300 FT. FROM "STOP".
3. ONE SET OF RUMBLE STRIPS APPROXIMATELY HALFWAY BETWEEN FIRST AND LAST SET.
4. RUMBLE STRIPS TO BE THERMOPLASTIC (120 MIL/EACH, 360 MIL TOTAL).
5. FIVE RUMBLE STRIPS PER SET MINIMUM.
6. INSTALLATION MAY VARY DUE TO TERRAIN.
7. SIGNS SHOULD BE 48" FOR CHANNELIZED INTERSECTION, 36" FOR NON-CHANNELIZED INTERSECTION.



Untitled Map

Write a description for your map.

Legend

 Polygon Measure

112

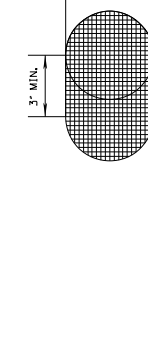
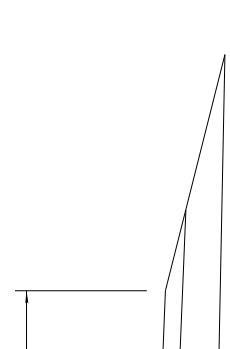
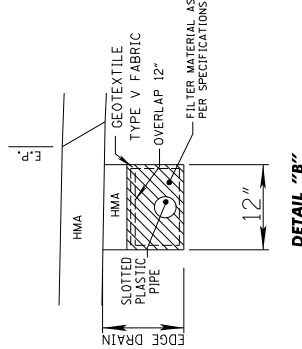
29 -

Notice to Bidders No. 4657 - Cont'd.



100 ft

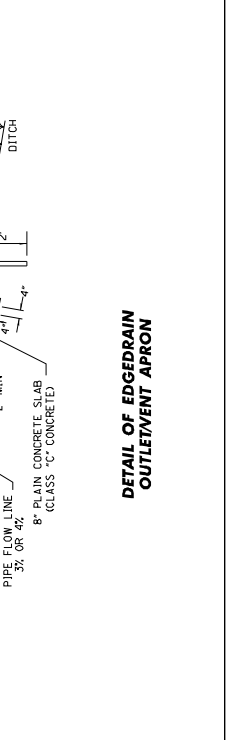
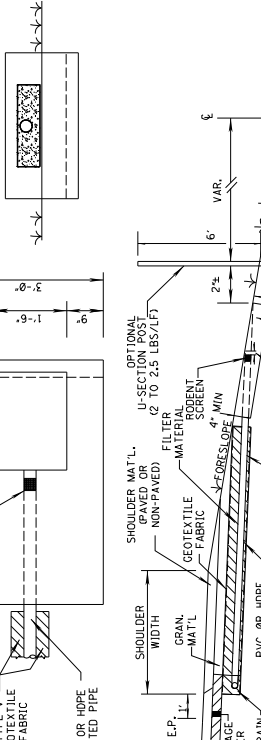
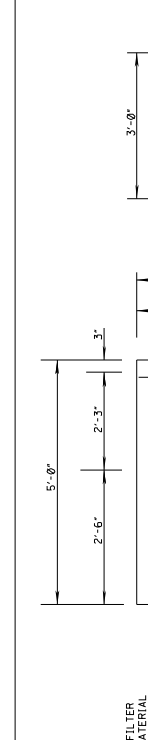
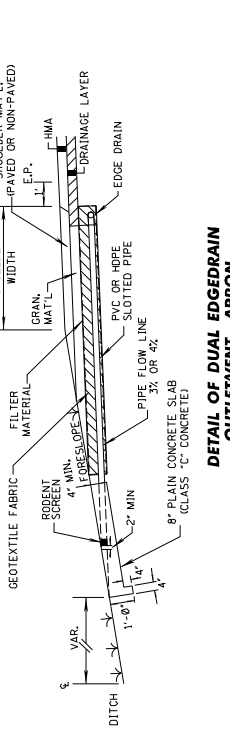
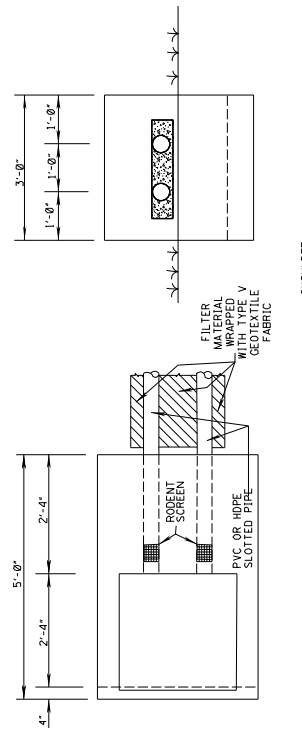
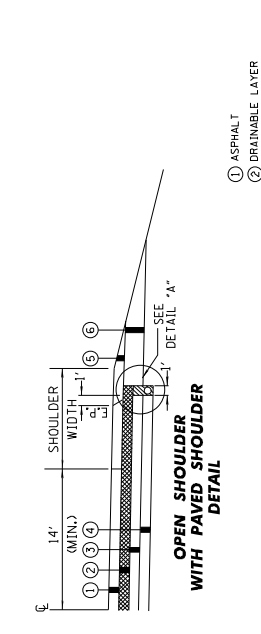
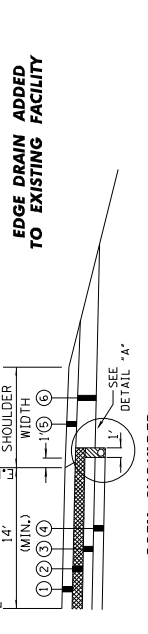
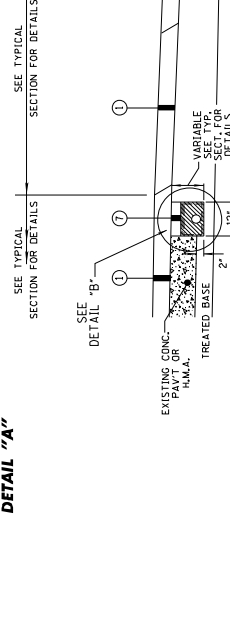
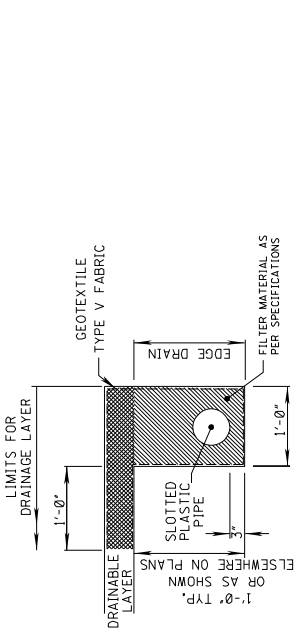




NOTES :
 URBAN EDGE DRAIN OUTLETS TO TIE INTO INLETS. ALL COSTS SHALL BE COVERED UNDER OUTLET/MENT PAY ITEMS.
 EDGE DRAINS SHALL BE REQUIRED ONLY ON THE LOW SIDE OF SUPERELEVATION.
 .363 C.Y. CLASS "C" CONCRETE REQUIRED FOR 5' x 3' APRON.
 FOR MORE DETAILS SEE SHEET EDD-2

3/3 GALVANIZED HARDWARE CLOTH, 0.033 WIRE OR EQUAL FORMED TO FIT SAUG TO INSIDE OF PIPE. COST OF THE RODENT SCREEN TO BE ABSORBED IN PAY ITEM 605-001 (EDGE DRAIN OUTLET/MENT) (SEE NOTE 6 EDD-2)

- ① ASPHALT
- ② DRAINABLE LAYER
- ③ LEA GRANULAR OR CRUSHED AGGREGATE
- ④ CHEMICALLY TREATED SUB-GRADE
- ⑤ SHOULDER GRANULAR
- ⑥ UNTREATED GRANULAR
- ⑦ 3" ASPHALT

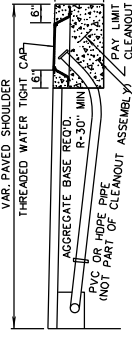


NOTES

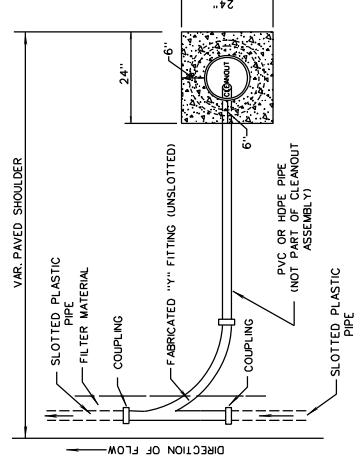
- CLEANOUT ASSEMBLY SHALL BE USED WHEN INSTALLING VENTS AND OUTLETS THROUGH NORMAL VENTS & OUTLET INSTALLATIONS. MINIMUM DIMENSIONS ARE SHOWN FOR CLEANOUT ASSEMBLY. TRAFFIC WEIGHT COVER SHALL HAVE TWO SCREWS OR ONE SCREW AND RETAINING LUG. CLEANOUT ASSEMBLY TO BE INSTALLED AT THE DIRECTION OF THE ENGINEER. COST OF CASTING TO BE ABSORBED IN OTHER ITEMS.
- DETAILS SHOWN ALSO APPLY TO DUAL OUTLET OR DUAL VENTING INSTALLATIONS.
- PVC PIPE SHALL BE EITHER SCHEDULE 40 OR SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC PIPE.
- THE CONTRACT UNIT PRICES PAID FOR EDGE DRAIN AND EDGE DRAIN OUTLETS/VENTS SHALL BE FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS AND FOR DOING ALL THE WORK INVOLVED IN CONSTRUCTING EDGE DRAINS AND EDGE DRAIN OUTLETS/VENTS COMPLETE IN PLACE, INCLUDING WIRE MESH COVERS, PIPE AND PIPE FITTINGS, COUPLINGS, UNGRADED PERMEABLE MATERIAL, BITUMINOUS PAVEMENT MIXTURE TRENCHING, DISPOSAL OF TRENCHED MATERIALS AND OTHER MISCELLANEOUS APPURTENANCES AS SHOWN ON THE PLANS AND AS SPECIFIED IN THE STANDARD SPECIFICATIONS AND IN THIS SPECIAL PROVISION.
- 0.20 C.Y. CLASS "C" CONCRETE REQUIRED FOR CLEANOUT ASSEMBLY. TO BE PAID FOR AS PAVED DITCH.
- SMALL ANIMAL GUARDS SHALL BE REQUIRED ON ALL EXPOSED PIPE OPENINGS BY THE END OF THE WORK DAY INSTALLED. PAYMENTS ASSOCIATED WITH TEMPORARY GUARDS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EDGE DRAIN OUTLETS/VENTS.
- AN OUTLET OR VENT SHALL BE REQUIRED AT THE BEGINNING AND AT THE END OF EACH RUN OF EDGE DRAIN.
- FOR MORE DETAILS SEE SHEET EDD-1.
- ALL FITTINGS AND JOINTS TO BE CONSTRUCTED WITH SMOOTH INTERIOR WALLS.
- EDGE DRAIN MARKER IS REQUIRED AT ALL DRAIN OUTLETS & VENTS. THE MARKER SHALL BE MADE WITH A PREFORMED TYPE OF PLASTIC TRAFFIC TABLE. ALL TAPE TO BE WHITE, SELF ADHESIVE, 1/4" WIDE AND 4" LONG, AND ROLLED WITH WHITE TAPE. THE COST OF MARKER TO BE ABSORBED IN OTHER ITEMS.



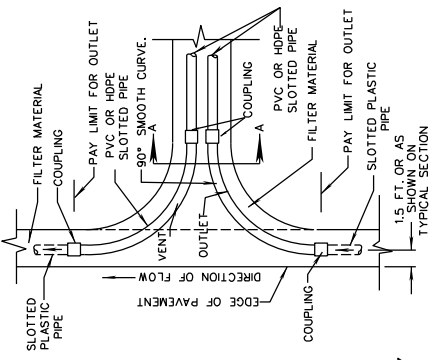
CLEANOUT ASSEMBLY DETAIL
(SEE NOTE 1)



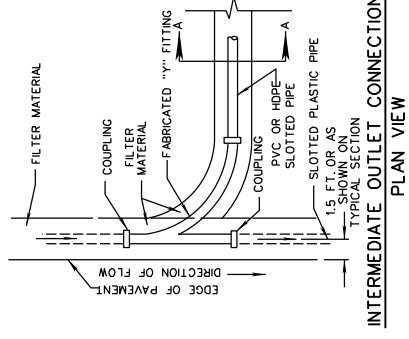
SECTION-CLEANOUT ASSEMBLY DETAIL



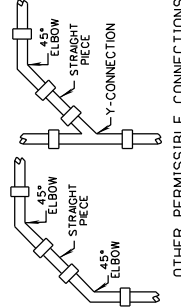
PLAN-CLEANOUT ASSEMBLY DETAIL



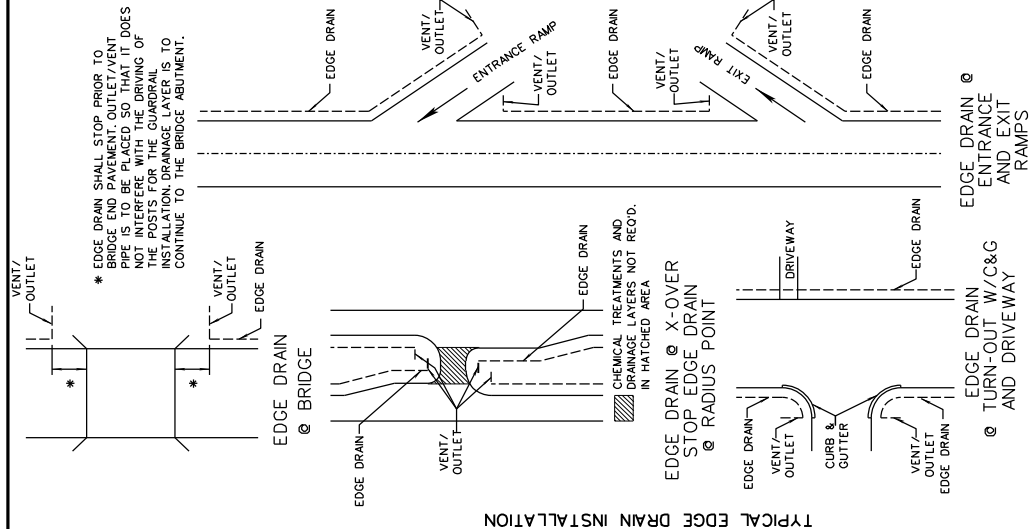
OUTLET AND VENT CONNECTION
(SEE NOTE 2)



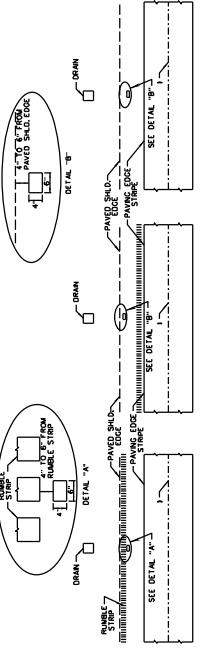
INTERMEDIATE OUTLET CONNECTION
PLAN VIEW



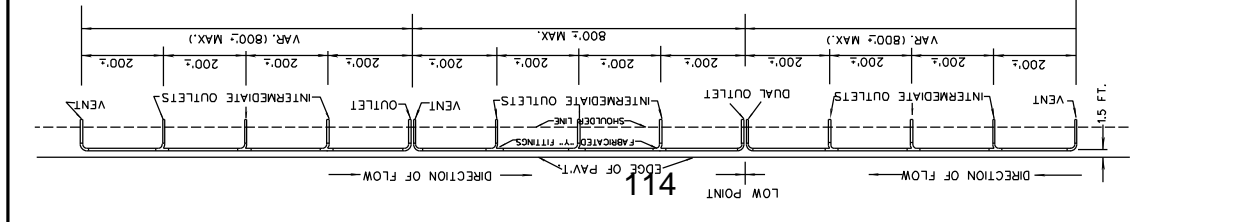
OTHER PERMISSIBLE CONNECTIONS



TYPICAL EDGE DRAIN INSTALLATION



EDGE DRAIN MARKING DETAIL

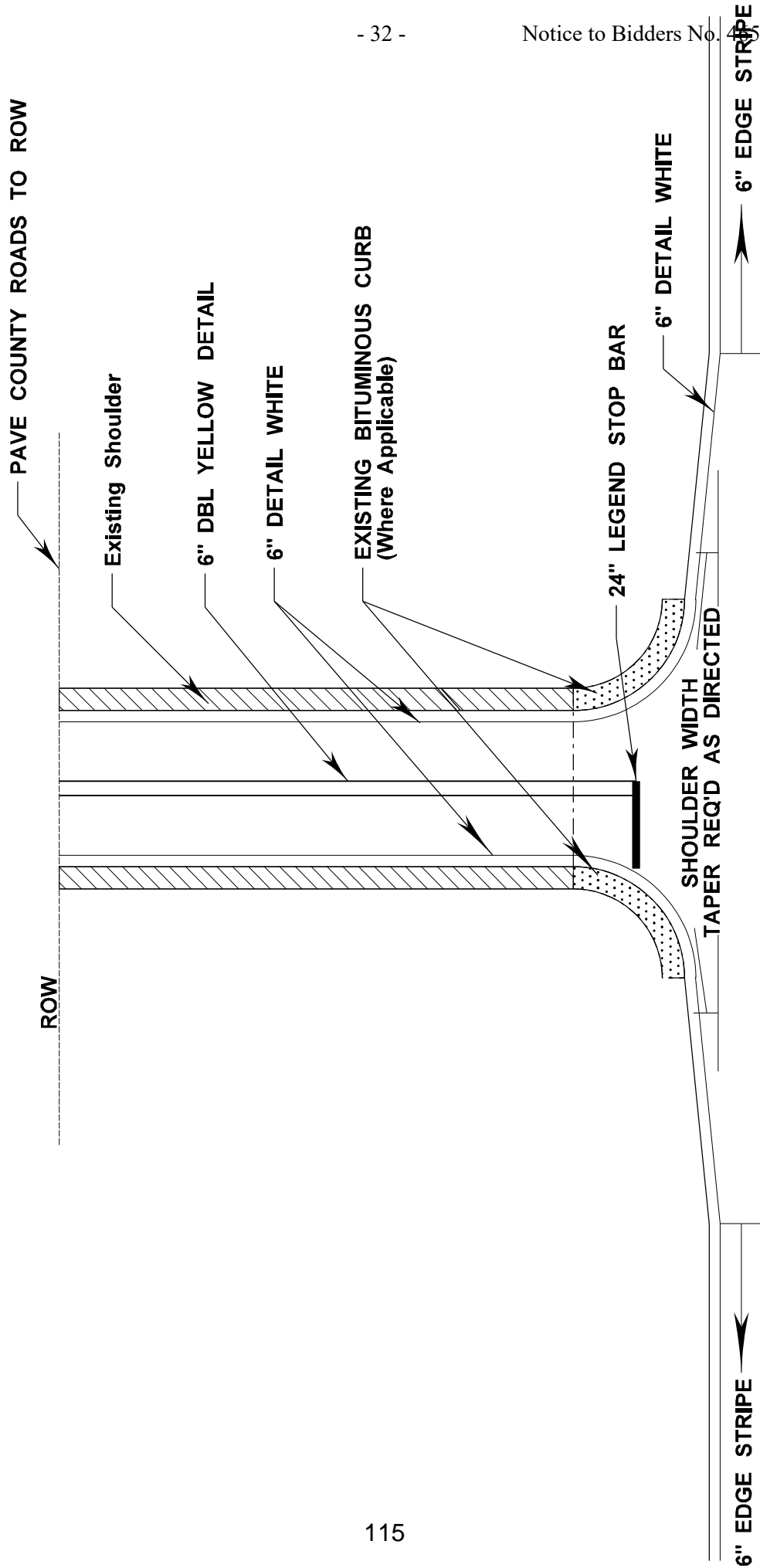


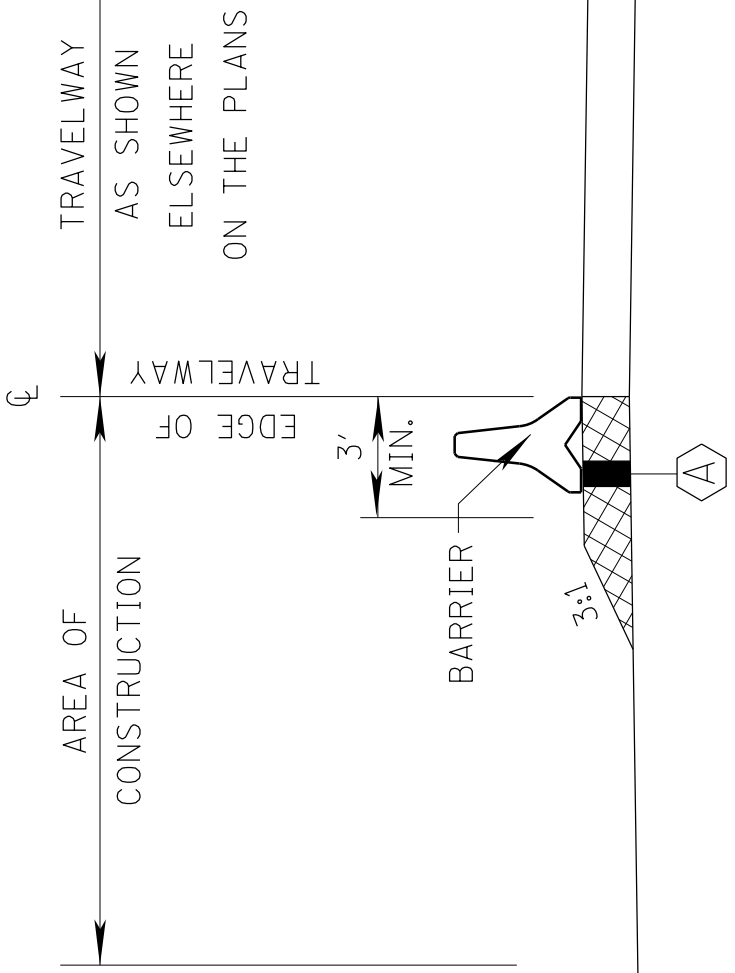
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
PROJECT NO. 46	PRECEDENCE
NOT FOR CONSTRUCTION	WORK NUMBER
PROJECT NAME: COUNTY UPDATE	SHEET NUMBER: EDD-2
FILE NAME: C:\MKT-C&I	CHECKED: DATE: UPDATE
DESIGN TEAM: UPDATE	DATE: UPDATE
\$PG\$	

DETAIL OF EDGE DRAINS

NOTICE TO CONTRACTORS

STRIPE DETAIL - COUNTY ROADS





ELEVATION VIEW FOR POSITIVE BARRIER

NOTES:

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4658

CODE: (SP)

DATE: 10/18/2022

SUBJECT: Temporary Construction Signs

PROJECT: MP-5043-61(011) / 307913301 -- Rankin County

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4659

CODE: (SP)

DATE: 5/3/2022

SUBJECT: Underground Utilities

PROJECT: MP-5043-61(011) / 307913301 -- Rankin County

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

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

The contacts for MDOT utility lines are as follows:

Underground Power Lines:

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

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

Underground Communication Lines:

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

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

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

Underground Signal Lines:

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-102-2

CODE: (IS)

DATE: 11/22/2017

SUBJECT: **Bidding Requirements and Conditions**

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

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-103-2

CODE: (SP)

DATE: 06/22/2017

SUBJECT: Award and Execution of Contract

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-105-1

CODE: (SP)

DATE: 05/07/2021

SUBJECT: Authority of the Engineer

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-108-4

CODE: (SP)

DATE: 10/07/2020

SUBJECT: Subletting of Contract

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

907-108.01--Subletting of Contract.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-109-4

CODE: (IS)

DATE: 04/19/2021

SUBJECT: Measurement and Payment

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

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

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

907-109.04--Extra Work.

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

907-109.06--Partial Payment.

907-109.06.2--Advancement on Materials.

Delete the next to last paragraph of Subsection 109.06.2 on page 95, and substitute the following.

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-420-4

CODE: (SP)

DATE: 02/19/2019

SUBJECT: Undersealing

Section 907-420, Undersealing, is hereby added to and made a part of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

SECTION 907-420 -- UNDERSEALING

907-420.01--Description. This work shall consist of filling voids (undersealing) in the soil adjacent to a pipe culvert(s), box culverts(s), bridge structure(s), or other locations determined by the Engineer. It is intended that the voids around the pipe culverts will be filled from the surface and voids around the box culverts will be filled from within the box culvert.

907-420.02--Material. The material for filling the voids shall be a “hydro-sensitive” high density polyurethane meeting the following requirements.

<u>Properties</u>	<u>Test Value</u>	<u>Test Method</u>
Density, lbs./ft., minimum	4.0	ASTM D 1622
Tensile Strength, psi, minimum	100	ASTM D 1622
Compression Strength, psi (at yield point), minimum	90	ASTM D 1621

The Contractor shall furnish the Engineer with certified test reports showing that the material meets the requirements of the specification.

907-420.03--Construction Requirements. All undersealing will be done at the locations specified in the plans, or as directed by the Engineer.

907-420.03.1--Equipment. The equipment shall be that customarily used in undersealing operations. Generally, it shall consist of a pneumatic or electric drill capable of drilling holes of adequate size in the embankment soil or culvert wall to accomplish the work. The exact depth into the embankment shall be determined by the Contractor. The equipment shall be in satisfactory operating condition and operated in such a manner as to prevent unnecessary damage to existing roadways, structures, and the surrounding area. The pump shall be capable of injecting the high density polyurethane at a rate and to a depth necessary to fill the void adjacent to the existing structures.

907-420.03.2--Drilling Holes. Unless otherwise shown in the plans, the size and location of the injection holes shall be as determined by the Manufacturer/Contractor.

907-420.03.3--Injection Process. The nozzle of the discharge hose shall be secured in the drilled hole in a manner that provides an adequate seal during the pumping process. The polyurethane

material shall be injected through the drilled holes until all known or encountered voids are filled. The rate and amount of material injection shall be determined by the Manufacturer/Contractor.

When the nozzle is removed, the hole shall be plugged or sealed to the satisfaction of the Engineer. Any excess polyurethane material shall be removed.

907-420.04--Method of Measurement. Undersealing, complete and accepted, will be measured by the pound. The quantity of urethane will be based on the supplier's packaging information for the material delivered and incorporated into the project.

907-420.05--Basis of Payment. Undersealing, as measured prescribed above, will be paid for at the contract unit price per pound, which price shall include all mobilization, labor, equipment, tools, materials, and incidentals necessary to complete the required work.

Cost for maintenance of traffic and individual traffic control devices as required for undersealing operations shall be included in the unit price for undersealing and will not be measured for separate payment.

Payment will be made under:

907-420-A: Undersealing - per pound

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-619-6

CODE: (SP)

DATE: 03/21/2018

SUBJECT: Temporary Portable Rumble Strips

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



Detail of Temporary Portable Rumble Strips

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-701-3

CODE: (IS)

DATE: 05/04/2021

SUBJECT: Hydraulic Cement

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

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

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

907-701.02--Portland Cement.

907-701.02.1-General.

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

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

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

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

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

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

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

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

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

Table 1- Cementitious Materials for Soluble Sulfate Conditions or Seawater

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

* Type III cement conforming to AASHTO M85 with a maximum 8% tricalcium aluminate (C₃A) may be used in lieu of Type II cement as allowed in Subsection 701.02.1; this cement is given the designation “Type III(MS).”

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

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

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

907-701.04--Blended Hydraulic Cement.

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 2- Cementitious Materials for Soluble Sulfate Conditions or Seawater

Sulfate Exposure	Water-soluble sulfate (SO ₄) in soil, % by mass	Sulfate (SO ₄) in water, ppm	Cementitious material required
Moderate and Seawater	0.10 - 0.20	150 - 1,500	Type IL (MS) * cement, Type IL cement with one of the following replacements of cement by weight: 24.5 - 35.0% Class F fly ash, or 49.5 - 50.0% GGBFS, Type IP (MS) cement, or Type IS (MS) cement
Severe	0.20 - 2.00	1,500 - 10,000	Type IL cement with a replacement of cement by weight of 49.5 - 50.0% GGBFS, or Type IL (MS) cement with one of following replacements of cement by weight: 24.5 - 35.0% Class F fly ash, or 49.5 - 50.0% GGBFS

* Class F fly ash or GGBFS may be added as a replacement for cement as allowed in Subsection 907-701.04.2.

Delete Subsection 701.04.2.2 on page 721, and substitute the following.

907-701.04.2.2--Blended Cement for Soil Stabilization Exposed to Soluble Sulfate Conditions or Seawater. When blended cement for use in soil stabilization is exposed to moderate or severe soluble sulfate conditions, or to seawater, cement types and replacement of cement by Class F fly ash or GGBFS shall meet the requirements of Subsection 701.04.2.1.

Delete Subsection 701.04.3 on page 721.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-702-4

CODE: (IS)

DATE: 09/11/2018

SUBJECT: Bituminous Materials

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

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

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

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

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

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

**TABLE V
SPECIFICATION FOR FOG SEAL**

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-703-1

CODE: (IS)

DATE: 06/13/2018

SUBJECT: Gradation

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

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

907-703.03.2--Detail Requirements.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-705-1

CODE: (IS)

DATE: 06/13/2018

SUBJECT: Stone Riprap

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-707-3

CODE: (IS)

DATE: 10/27/2021

SUBJECT: Joint Materials

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

907-707.02--Joint Filler.

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

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

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

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-711-2

CODE: (IS)

DATE: 09/11/2018

SUBJECT: Plain Steel Wire

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

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-712-1

CODE: (SP)

DATE: 12/07/2021

SUBJECT: Fence and Guardrail

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

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

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

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

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

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

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

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

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

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

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

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

907-712.05--Fence Posts and Braces.

907-712.05.1--Treated Timber Posts and Braces.

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

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

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

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

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

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

907-712.05.2--Metal Posts.

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

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

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

907-712.05.2.3--Blank.

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

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

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

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

907-712.06--Guard and Guardrail Posts.

907-712.06.2--Treated Wood Posts.

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

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

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

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

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

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

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-714-3

CODE: (SP)

DATE: 08/31/2021

SUBJECT: Miscellaneous Materials

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

907-714.01--Water.

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

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

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

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

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

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

907-714.01.6--Blank.

907-714.05--Fly Ash.

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

907-714.13--Geotextiles.

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

Table 1 - Geotextiles

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

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

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

907-714.15--Geogrids.

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

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

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

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

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

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

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

by the Department.

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

**TABLE II
GEOGRIDS**

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

¹ Minimum design criteria requirement.

² Minimum Average Roll Value (MARV).

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-718-1

CODE: (SP)

DATE: 12/07/2021

SUBJECT: Timber and Dimension Lumber

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

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

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

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

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

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

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

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

907-718.03.1--Blank.

907-718.03.2--Treatment.

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

907-718.03.2.2--Blank.

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

907-718.03.3--Blank.

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-720-2

CODE: (IS)

DATE: 09/11/2018

SUBJECT: Acceptance Procedure for Glass Beads

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

907-720.01--Glass Beads.

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-721-4

CODE: (IS)

DATE: 04/19/2022

SUBJECT: Materials for Signing

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

907-721.06--Reflective Sheeting.

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

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

**TABLE 4
Type IX Sheeting**

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

**TABLE 5
Type XI Sheeting**

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

After Subsection 721.10 on page 864, add the following.

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

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

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

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

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

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

**Table 1
Retroreflective Film Minimum Durability Requirements**

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

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

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

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-808-1

CODE: (IS)

DATE: 11/01/2018

SUBJECT: Joint Repair

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

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

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

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

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

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

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

Payment will be made under:

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

907-808-B: Mortar Mix - per gallon

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISIONS NO. 907-823-7

CODE: (SP)

DATE: 10/13/2020

SUBJECT: **Preformed Joint Seal**

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

SECTION 907-823--PREFORMED JOINT SEAL

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

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

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

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

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

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

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

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

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

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

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

Payment will be made under:

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

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

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

Description: Shall include the Work Necessary To Repair Joints In Bridge Deck On Each Side Of The Centerline Joint. Epoxy Mortar Shall Also Be Installed Under This Item Of Work. Removal Of Existing Expansion Material Shall Be Done In Accordance With The Specifications And Any Other Requirements Specified Therein.

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

907-808-4003 JOINT REPAIR WITHOUT EPOXY

Description: Shall Include The Work Necessary To Repair Joints In Bridge Deck On Each Side Of The Centerline Joint. Epoxy Mortar Shall Also Be Installed Under This Item Of Work. Removal Of Existing Expansion Material Shall Be Done In Accordance With The Specifications And Any Other Requirements Specified Therein.

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

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

Description: The Saw Cut Depth Shall Be Equivalent To The Installation Depth Of The Preformed Joint Seal. The Preformed Joint Seal Type Shall Be The Same As The Preformed Joint Seal Selected For This Item Of Work.

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

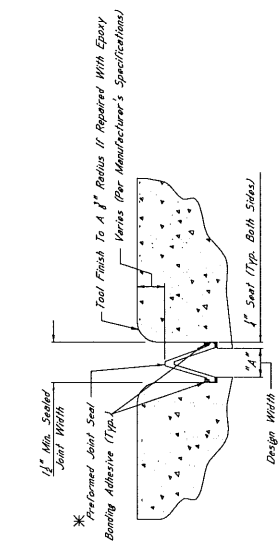
Description: Shall include the Manufacturer's Required Joint Preparation Including Sandblasting Both Sides Of The Joint And Blowing The Joint Free Of Debris. The Contractor Shall Be Responsible For The Placement Of The Preformed Joint Seal.

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 or the Polymer Concrete may be used in accordance with the Specifications.

GENERAL NOTES:

1. Specifications: Manufacturer's Standard Specifications For Road And Bridge Construction 2017.
2. No Change Of The Direction Of Construction Single Bridge Engineers May Be Authorized By The Bridge Engineer Provided Such Changes Do Not Affect The Minimum Required Vertical Joint Seal Dimension For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Assorted Item of Work.

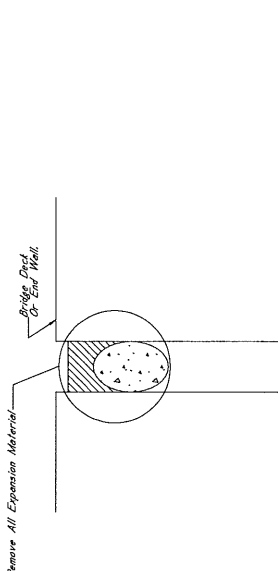


TYPICAL SECTION AT SAWCUT & SEALED JOINT

Showing Sealed Joint After Sawcut

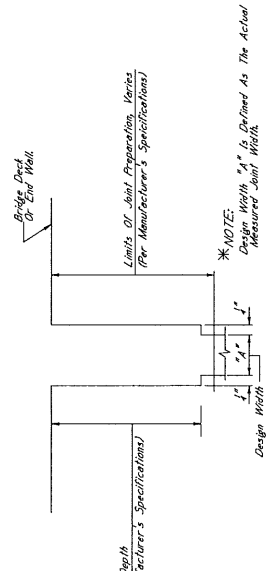
***NOTES:**
1. The Preformed Joint Seal Shall Be One Of The Following Installed According To The Manufacturer's Specifications:
A. Silicone Joint Sealing System
www.merfelson.com
B. Welo SFS Joint System
www.weloseal.com
C. Silicone SSS Silicone Strip Seal
Manufactured By SSI Commercial & Highway Construction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

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



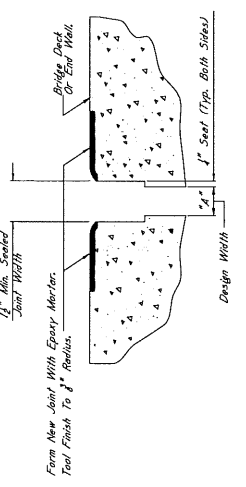
TYPICAL SECTION AT EXISTING JOINT

Showing Existing Expansion Materials To Be Removed And Replaced With Preformed Joint Seal



TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT

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



TYPICAL SECTION AT SAWCUT & JOINT REPAIR

Showing New Joint Repair For Which The Sawcut, With Epoxy Mortar Or Approved Equivalent

NOTES ON ASSOCIATED ITEMS OF WORK.

907-808-4002 JOINT REPAIR

Description:

Shall include the work necessary to repair joints in concrete and in the concrete deck. The repair shall include the removal of all old materials and any trash and debris (including but not limited to compacted dirt, vegetation and trash) located at the joint. Epoxy mortar shall also be included under this item of work. Removal of existing silicone sealed, compression and AC sealed joints shall be included under this item of work. Epoxy mortar shall be applied in accordance with the applicable provisions of Section 908.09 of the Specifications and any other sections specified therein.

Basis of Payment:

The accepted quantities will be paid for in linear feet at length of the centerline joint, on each side of the centerline joint.

907-808-4003 JOINT REPAIR WITHOUT EPOXY

Description:

Shall include the work necessary to repair joints in concrete and in the concrete deck. The repair shall include the removal of all old materials and any trash and debris (including but not limited to compacted dirt, vegetation and trash) located at the joint. Epoxy mortar shall also be included under this item of work. Removal of existing silicone sealed, compression and AC sealed joints shall be included under this item of work. Epoxy mortar shall be applied in accordance with the applicable provisions of Section 908.09 of the Specifications and any other sections specified therein.

Basis of Payment:

The accepted quantities will be paid for in linear feet at length of the centerline joint, 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 performed joint seal selected.

Basis of Payment:

The accepted quantities will be paid for in linear feet at length of the centerline joint, on each side of the centerline joint. It is the contractor's responsibility to select the saw cut depth in accordance with the manufacturer's recommendations.

907-823-4001 REFORMED JOINT SEAL, TYPE I

Description:

Shall include the manufacturer's required joint preparation from old debris with compressed air and placement of the new reformed joint seal.

Basis of Payment:

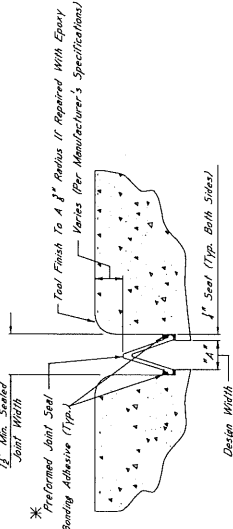
The accepted quantities will be paid for in linear feet at length of the centerline joint.

EPOXY MORTAR AND POLYMER CONCRETE NOTES:

Epoxy mortar or polymer concrete may be used in quantities specified in the Specifications.

GENERAL NOTES:

1. Specifications, Manufacturer's Specifications For Road Repairs, and the Director of Structures, State Bridge Engineer, shall be used unless otherwise specified.
2. No change of Plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer. Minor changes to detail or design or construction procedures will be permitted for the purpose of correcting such changes. Work for which no pay item is provided in the Proposal will be considered an item of work.
3. Materials and methods shall be considered an item of work.

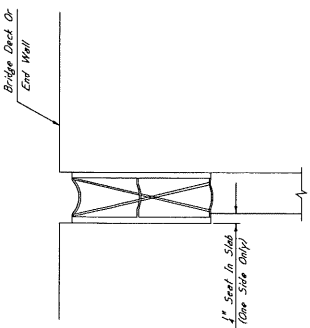


TYPICAL SECTION AT SAWCUT & SEALED JOINT

Showing Sealed Joint After Sawcut And Repair With Epoxy Mortar

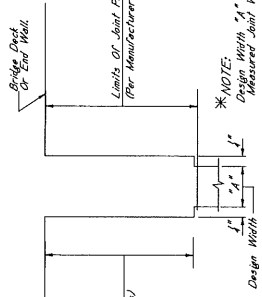
*NOTES:

1. The reformed joint seal shall be one of the following, installed according to the manufacturer's joint seal specifications:
 - A. Silco-Bond Joint Sealing System, manufactured by R.L. Watson, Inc. in Allen, NY (www.rlwatson.com)
 - B. Waco SFS Joint System, manufactured by Watson Roman Acme Corporation in Amers, NY (www.waco.com)
 - C. Silicone SS3, Silicone Strip Seal, manufactured by SS3 Commercial & Highway Construction Materials (www.s3cm.com)
2. For estimating purposes, the R.L. Watson Silicone Joint Sealing System was selected. However, should another supplier be chosen, it is the contractor's responsibility to ensure that the proposed system meets the same performance criteria as the selected system. For all preparation, installation depths and widths, adhesive mixing times, and any other variances between the specifications provided by the manufacturer, 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 saw cut depth on both sides of the joint. This dimension shall be used for joints with design widths less than 2". For joints with design widths greater than 2", in cases where design widths are greater than 2", the contractor shall use a larger size of saw cut depth. The contractor shall be responsible for ensuring that the size selected is appropriate for the width of the joint.



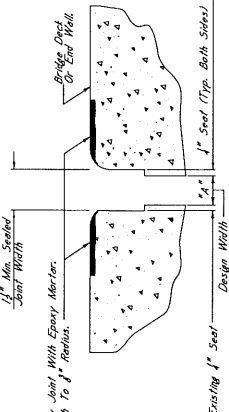
TYPICAL SECTION AT EXISTING JOINT

Showing Existing Expansion Device To Be Removed And Replaced With Reformed 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 Shear



TYPICAL SECTION AT SAWCUT & JOINT REPAIR

Showing Area Where Repairs Are Made After Sawcut, With Epoxy Mortar Or Approved Equivalent

*NOTES:
For epoxy, slope barrier, the minimum required vertical joint seal dimension for face 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:

907-808-4002 JOINT REPAIR

Description:

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

Basis Of Payment:

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

907-808-4003 JOINT REPAIR WITHOUT EPOXY

Description:

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

Basis Of Payment:

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

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

Description:

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

Basis Of Payment:

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

907-823-4001 REFORMED JOINT SEAL, TYPE I

Description:

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

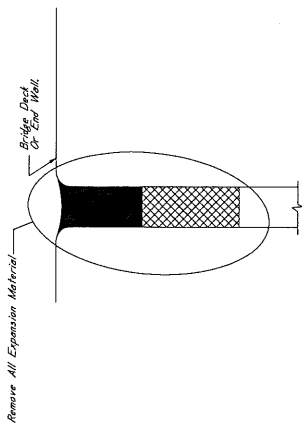
Basis Of Payment:

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

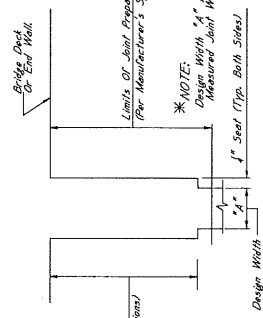
EPOXY MORTAR AND POLYMER CONCRETE NOTES:
 Either Epoxy Mortar or Polymer Concrete May Be Used. Guidelines For Selection Of Materials Can Be Found In Section 808 of the Specifications.

GENERAL NOTES:

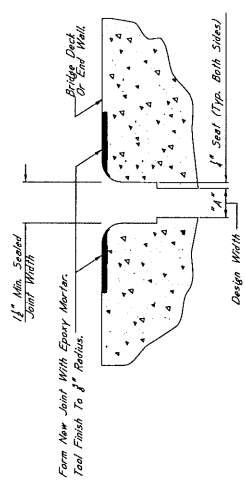
1. Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.
2. Minor Changes To Detail Or Design Or Construction Procedure Will Not Be Considered For Contract Adjustment. Such Changes Will Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.



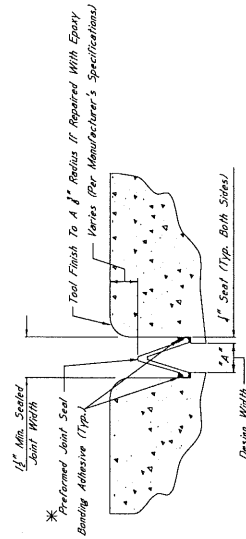
TYPICAL SECTION AT EXISTING JOINT
 Showing Existing Expansion Material To Be Removed and Replaced With Preformed Joint Seal



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



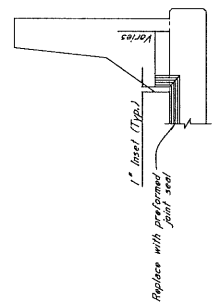
TYPICAL SECTION AT SAWCUT & JOINT REPAIR
 Showing Area Where Repairs Are Made After Sawcut With Epoxy Mortar Or Approved Equivalent



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

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

- For Estimating Purposes, The R.J. Watson Silicate Joint Sealing System Was Selected, However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Determine The Joint Seal Selection, Adhesive, Sealing Times, And For Joint Preparation, Installation Depth, And Widths, And For The Manufacturer's A Manufacturer's Recommendation Shall Be Provided At The Discretion Of The Contractor To Ensure That The Contractor Is Properly Substituted In Installation Of The Joint Material.
2. Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As: Seal Required On Both Sides Of The Joint. In Prefabricated Joint Seal Type I, Seal Be Used For Design Widths Less Than 2". Prefabricated Joint Seal, Type II, Shall Be Used Only In Cases Where Design Widths Are Greater Than 2". Another Type Of Expansion Material Shall Be Recommended As Directed By The Director Of Structures, In Cases Where The Contractor Determines It Is Necessary To Ensure That The Seal Selected Is Appropriate For The Width Of The Joint.



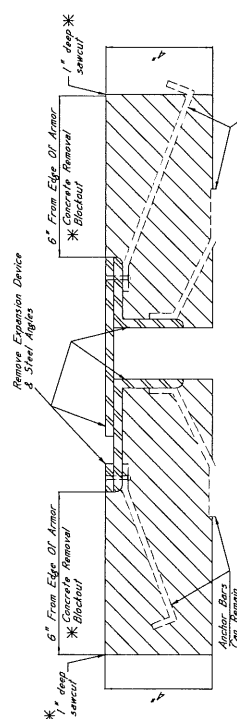
ELEVATION AT END OF SPAN

*** CONCRETE REMOVAL BLOCKOUT NOTES**

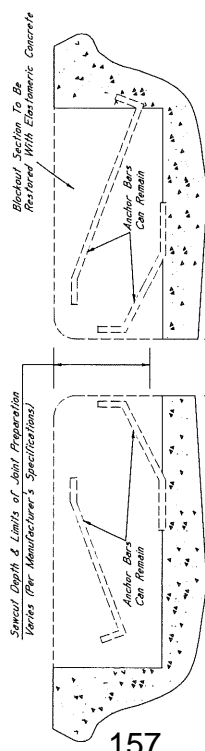
Removal of the concrete blockout area shall be considered an absorbed item of work. Undercut shall use a minimum of 30 lbs to complete this work.

*** 1" SAWCUT NOTES:**

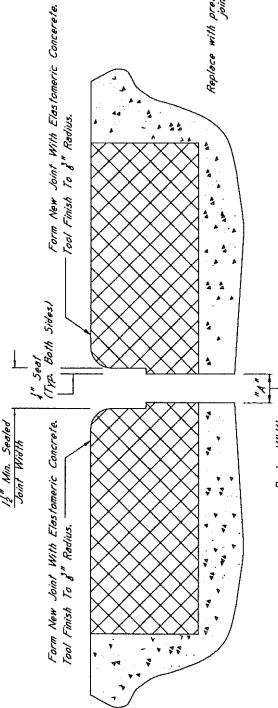
All 1" sawcuts shall be considered an absorbed item of work. The contractor shall verify depth of reinforcing steel. The depth of the reinforcing steel shall be no more than 1/2" above the top of the concrete. The contractor shall be responsible for the cost of the steel.



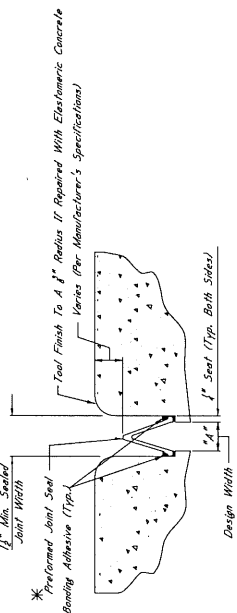
TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expansion Device To Be Removed And Replaced With Preformed Joint Seal



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



TYPICAL SECTION AT SAWCUT & JOINT REPAIR
Showing Area Where Preformed Joint Seal Replaces Existing 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. Silcaflex Joint Sealing System Manufactured By R.J. Watson, Inc. In Akron, NY
 - B. Veritas 907-823-4001 Seal System Manufactured By Watson Bowman Acme Corporation In Amherst, NY
 - C. Silgac 555 Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials
- For Estimating Purposes, The R.J. Watson Silcaflex Joint Sealing System Was Used. The Contractor Shall Be Responsible To Ensure That The Manufacturer's Recommendations Are Followed For Joint Preparation, Installation Depth, Seal Width, Application, Seal Type, And Seal Color. A Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins. Material shall be installed in accordance with the manufacturer's specifications. The contractor shall be responsible for the cost of the seal.
- Seals shall be sealed at their design width, dimension "A", which is defined as the actual width of the joint opening. The width does not account for the seal required on both sides of the joint. Preformed joint seal type shall be used for design width greater than or equal to 2" with the maximum design width going up to 4". In cases where design width are greater than 4" and the contractor shall be responsible for the cost of the seal. The contractor shall be responsible for the cost of the seal.

*** NOTES:**

For heavy slope barriers, the minimum required vertical joint seal dimension within the barrier is 3". For 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:

907-8169 REMOVAL OF EXISTING JOINT MATERIAL

Remove Existing Expansion Device To Be Removed And Replaced With Preformed Joint Seal

907-823-4001 SAW CUT, TYPE I, & 907-823-4002 SAW CUT, TYPE II

The Saw Cut Depth Shall Be Established To The Satisfactory Depth Of The Material To Be Removed. The Saw Cut Depth Shall Be The Same As The Preformed Joint Seal Selected.

907-823-4001 PREFORMED JOINT SEAL, TYPE I

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

907-823-4002 PREFORMED JOINT SEAL, TYPE II

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

ELASTOMERIC CONCRETE NOTES

The Contractor Shall Be Responsible For The Cost Of The Seal. The contractor shall be responsible for the cost of the seal.

907-824-4007 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 Akron, NY
- Webcrete II Manufactured By Watson Bowman Acme Corporation In Amherst, NY
- Dalcrete Elastomeric Concrete Manufactured By The D.S. Brown Company In North Baltimore, OH

GENERAL NOTES:

- Specifications, Manufacturer Standard Specifications For Road And Bridge Construction, 2012.
- No Change Of Plans Will Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer.
- Any Change Of Plans Or Specifications Shall Be Approved By The Engineer. The Contractor Shall Be Responsible For The Cost Of The Seal. The contractor shall be responsible for the cost of the seal.

NOTES ON ASSOCIATED ITEMS OF WORK:

202-9169 REMOVAL OF EXISTING JOINT MATERIAL

Description: Shall include The Removal Of Material Associated With Existing Joint Seal, Including The Detail Drawings Provided. Removal Of The Concrete Backout Area Shall Be As Indicated. Removal Of This Item Of Work. Other Joint Types Shall Not Be Included In This Item Of Work. The Contractor Shall Be Responsible For The Removal Of Joint Material And Any Trash And Debris (Including But Not Limited To Compacted Dirt, Vegetation And Trash) Located At Any Depth Within The Joint Shall Be Incurred Under This Item Of Work.

Basis Of Payment: Payment 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 Joint. Payment For Removal Of Material Associated With Existing Joint Seal 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 Preformer Joint Seal Selected.

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

907-823-4001 PREFORMED JOINT SEAL, TYPE I

Description: Shall include The Manufacturer's Provided Joint Preparation Free Of Debris With Compressed Air And Placement Of The New Preformed Joint Seal.

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

907-823-4002 PREFORMED JOINT SEAL, TYPE II

Description: Shall include The Manufacturer's Provided Joint Preparation Free Of Debris With Compressed Air And Placement Of The New Preformed Joint Seal.

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

ELASTOMERIC CONCRETE NOTES

907-823-4000 BRIDGE REPAIR ELASTOMERIC CONCRETE

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

- Poly-Ton Elastomeric Concrete
Manufactured By R.J. Watson, Inc. In Alden, NY
www.rjwatson.com
- Waka-Crete II
Manufactured By Wakon Bowman Acme Corporation In Amherst, NY
www.wakacrete.com
- Delcrete Elastomeric Concrete
Manufactured By The U.S. Brown Company In North Baltimore, OH
www.delcrete.com

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

GENERAL NOTES:

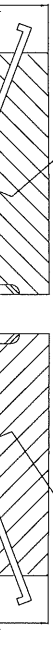
- Specifications: Minimum Standard Specifications For Road And Bridge Construction 2017.
- No Change Of Plans Will Be Permitted Except By Written Approval Of The Engineer. Any Change To The Specifications Must Be Authorized By The Bridge Engineer. Provided Such Changes Will Not Be Considered For Contract Price Adjustment. Payment Will Not Be Paid For Directly And Shall Therefore Be Considered An Assessed Item Of Work.

*** 1" SAWCUT NOTES:**

All 1" Sawcuts Shall Be Considered An Assessed Item Of Work. The Contractor Shall Be Responsible For The Removal Of Joint Material And Any Trash And Debris (Including But Not Limited To Compacted Dirt, Vegetation And Trash) Located At Any Depth Within The Joint Shall Be Incurred Under This Item Of Work.

*** CONCRETE REMOVAL BLOCKOUT NOTES**

Removal Of The Concrete Blockout Area Shall Be Considered An Assessed Item Of Work. The Contractor Shall Use A Hammer No Larger Than 30 LBS To Complete This Work.



TYPICAL SECTION AT EXISTING JOINT
Showing Existing Conditions And Joint Seal

Anchor Bars Can Remain

6" From Edge Of Armor Concrete Removal

Remove Steel Angles Where Directed

1" deep sawcut

Anchor Bars Can Remain

Blockout Section To Be Restored With Elastomeric Concrete

Design Width

1" Min. Sealed Joint Width

Form New Joint With Elastomeric Concrete. Tool Finish To 1/2" Radius.

Design Width

1" Min. Sealed Joint Width

Form New Joint With Elastomeric Concrete. Tool Finish To 1/2" Radius.

Design Width

1" Min. Sealed Joint Width

Form New Joint With Elastomeric Concrete. Tool Finish To 1/2" Radius.

Design Width

1" Min. Sealed Joint Width

Form New Joint With Elastomeric Concrete. Tool Finish To 1/2" Radius.

Design Width

1" Min. Sealed Joint Width

Form New Joint With Elastomeric Concrete. Tool Finish To 1/2" Radius.

Design Width

1" Min. Sealed Joint Width

Form New Joint With Elastomeric Concrete. Tool Finish To 1/2" Radius.

Design Width

TYPICAL SECTION AT SAWCUT & SEALED JOINT

Showing Sealed Joint After Sawcut And Repair With Elastomeric Concrete

1" Min. Sealed Joint Width

1" Min. Sealed Joint Width

1" Min. Sealed Joint Width

1" Min. Sealed Joint Width

1" Min. Sealed Joint Width

1" Min. Sealed Joint Width

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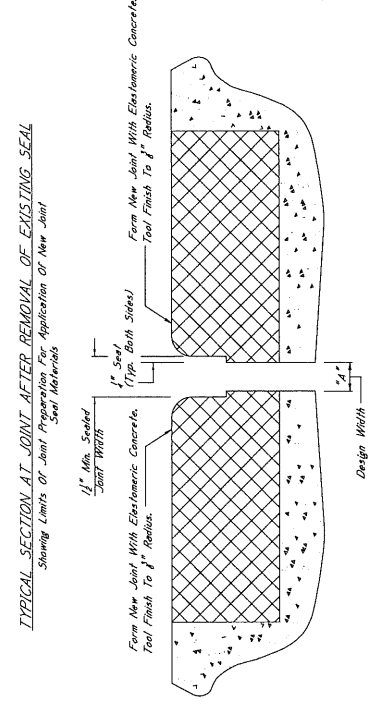
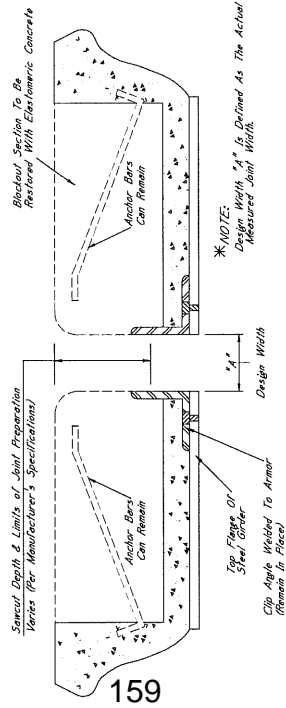
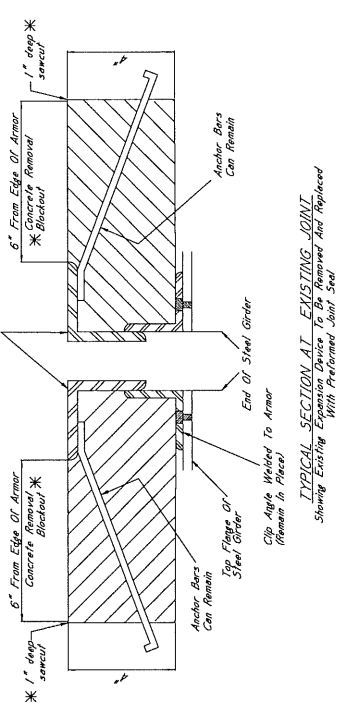
1" Min. Sealed Joint Width

1" Min. Sealed Joint Width

1" Min. Sealed Joint Width

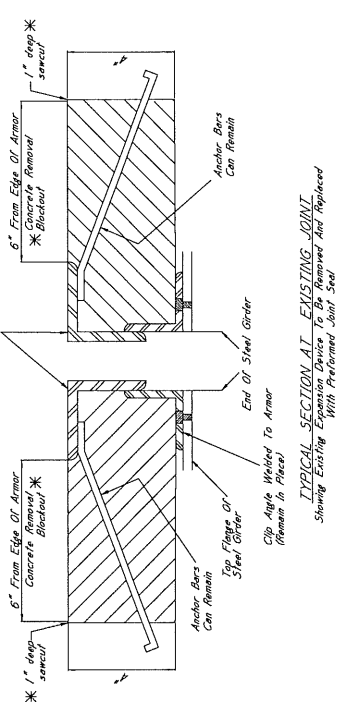
*** 1" SAWCUT NOTES:**

All 1" Sawcuts Shall Be Considered An Absorbed Item of Work. The Contractor Shall Verify Depth of Reinforcing Steel On The Siding At All Points. The Depth of The Reinforcing Steel Shall Be As Directed By The Engineer. Any Damage To Reinforcing Steel Shall Be Repaired At The Contractor's Expense 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 202-5165. The Contractor Shall Remove All Concrete Deeper Than 30 LBS To Complete This Work.



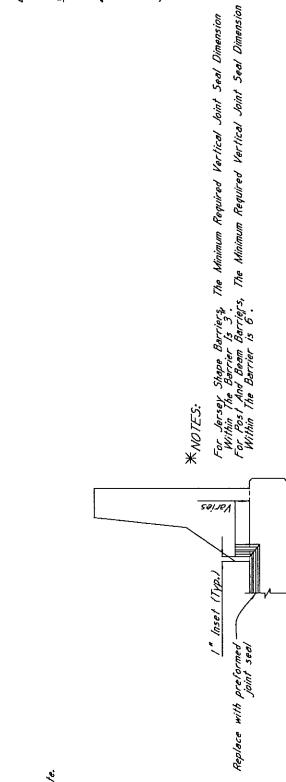
*** NOTES:**

- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
 - Silicone Joint Sealing System
www.watson.com
 - Welo SPS Joint System
Manufactured By Watson Bowman Acme Corporation In Amherst, NY
www.watson.com
 - Silicone SSS Silicone Strip Seal
www.watson.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 Assess All Installation Details And Verify Compatibility With All Other Materials Between The Specifications Provided By The Manufacturer, To Ensure That The Contractor Is Properly Sealed 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 Seal Be Used For Design Widths Less Than 2". Preformed Joint Seal Type "A" Shall Be Used For Design Widths Greater Than 2". Where Design Widths Are Greater Than 2", An Expansion Material Shall Be Applied As Directed By The Director Of Structures, Subject To The Responsibility To Ensure That The Width Of The Seal Is Sealed As Appropriate For The Width Of The Joint.

*** NOTES:**

For Jersey Slope Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 3". For All Other Slope Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6".

ELEVATION AT END OF SPAN



NOTES ON ASSOCIATED ITEMS OF WORK:

202-9169 REMOVAL OF EXISTING JOINT MATERIAL

Description: Shall include The Removal Of Material Associated With Armor, Siding Photo, And Neoprene Expansion Joints, As Designated In The Detail Drawings Provided. Removal Of The Concrete Blockout Area Shall Be Considered An Absorbed Item Of Work Under Pay Item 202-5165. The Contractor Shall Verify Depth of Reinforcing Steel On The Siding At All Points. The Depth of The Reinforcing Steel Shall Be As Directed By The Engineer. Any Damage To Reinforcing Steel Shall Be Repaired At The Contractor's Expense At No Cost To The State.

Basis Of Payment:

Removal Of Armor And Siding Photo Material Will Be Paid For In Linear Feet At The Contract Unit Price Of \$150.00 Per Linear Foot. Removal Of Neoprene 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: The Saw Cut Depth Shall Be Established To The Satisfaction Of The Engineer. The Saw Cut Depth 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

Description:

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

- Poly-Trip Elastomeric Concrete
Manufactured By R.J. Watson, Inc. In Amherst, NY
www.watson.com
- WeloCrete II
Manufactured By Watson Bowman Acme Corporation In Amherst, NY
www.watson.com
- DelaCrete Elastomeric Concrete
Manufactured By The D.S. Brown Company In North Baltimore, OH
www.dsbrown.com

Basis Of Payment:

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

GENERAL NOTES:

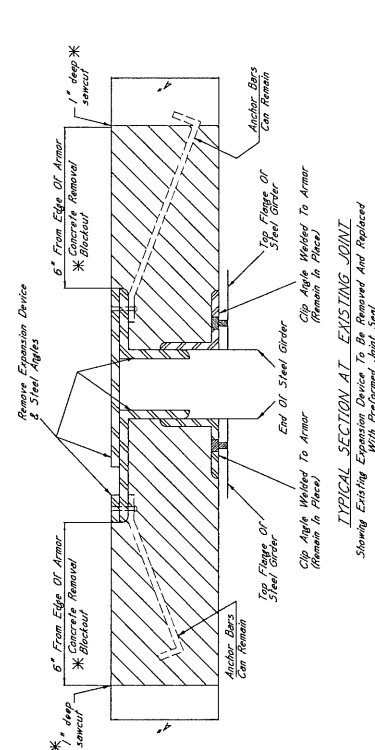
- Specifications, Minimum Standard Specifications For Road And Bridge Construction 2017.
- No Change Of Plans Will Be Permitted Except By Written Approval Of The Director Of Structures And The Engineer. Any Change Of Plans Or Construction Details May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment. Request Will Be Considered On A Case-By-Case Basis. Request Will Not Be Paid For Directly, And Shall Therefore Be Considered An Absorbed Item of Work.

*** 1" SAWCUT NOTES:**

All 1" Sawcuts Shall Be Considered An Armored Concrete Backcut Area. The Contractor Shall Be Responsible For The Work Under Item 202-0165. The Depth Below Making Any Sawcuts. The Depth Of The Reinforcing Steel Shall Be As Indicated On The Plans. Any Damage To Reinforcing Steel Shall Be Repaired To The Satisfaction Of The Engineer At No Cost To The State.

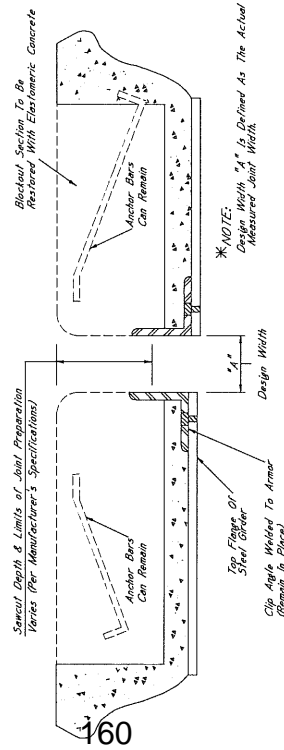
*** CONCRETE REMOVAL BACKCUT NOTES**

Concrete Removal Backcut Area Shall Be Considered As Backcut Work Under Item 202-0165. The Contractor Shall Use A Hammer No Larger Than 30 LBS To Complete This Work.



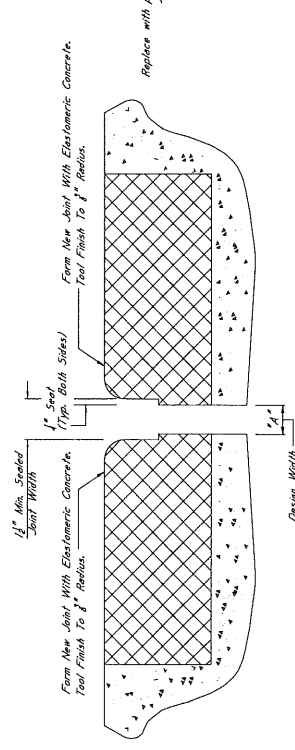
TYPICAL SECTION AT EXISTING JOINT

Showing Existing Expansion Device To Be Removed And Replaced With Preformed Joint Seal



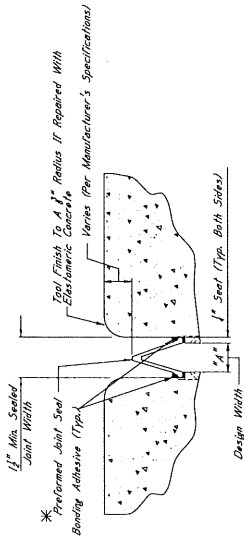
TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL

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:**

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

- A. Silicone Joint Sealing System Manufactured By R.J. Watson, Inc. In Albany, NY www.rjwatson.com
- B. White Seal Joint Sealing System Manufactured By SSI Commercial & Highway Construction Materials www.ssi.com
- C. Silcrete-SSS Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials www.ssi.com

2. For Estimating Purposes, The R.J. Watson Silicone Joint Sealing System Was Selected. However, The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System.

3. Joints Shall Be Sealed At Their Design Widths. The Dimension "A" Which Is Defined As Seal Required On Both Sides Of The Joint. The Preformed Joint Seal Type To Be Used Shall Be Determined By The Engineer. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System.

*** NOTES:**

1. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System.

ELEVATION AT END OF SPAN

NOTES ON ASSOCIATED ITEMS OF WORK:

202-0169 REMOVAL OF EXISTING JOINT MATERIAL

Description: Shall Include The Removal Of Material Associated With Existing Joint Material. The Contractor Shall Be Responsible For The Work Under Item 202-0169. The Contractor Shall Use A Hammer No Larger Than 30 LBS To Complete This Work.

Basis Of Payment:

Removal of Armor And Sealing From Joint Material Will Be Paid For In Units of Linear Feet. The Contractor Shall Be Responsible For The Work Under Item 202-0169. The Contractor Shall Use A Hammer No Larger Than 30 LBS To Complete This Work.

907-823-001 SAW CUT, TYPE I & 907-823-002 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.

907-823-001 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. The Contractor Shall Be Responsible For The Work Under Item 907-823-001.

Basis Of Payment:

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

ELASTOMERIC CONCRETE NOTES

907-824-000 BRIDGE REPAIR ELASTOMERIC CONCRETE

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

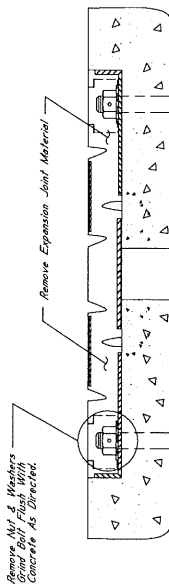
- A. Poly-Ton Elastomeric Concrete Manufactured By R.J. Watson, Inc. In Albany, NY www.rjwatson.com
- B. WhiteSeal II Manufactured By Watson Bowman Acme Corporation In Amherst, NY www.watsoncorp.com
- C. Decrete Elastomeric Concrete Manufactured By The D.S. Brown Company In North Ballwin, OH www.dsbrown.com

Basis Of Payment:

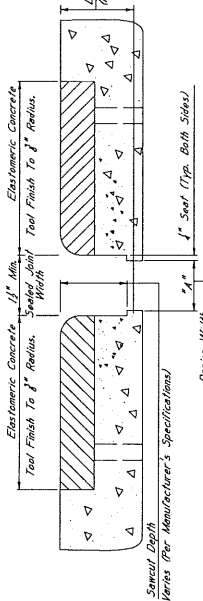
The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

GENERAL NOTES:

1. See Waterways Manual, 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. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System.
3. Approval Of The Director Of Structures, State Bridge Engineer. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System. The Contractor Shall Verify The Compatibility Of The Concrete To Be Sealed With The Silicone Joint Sealing System.

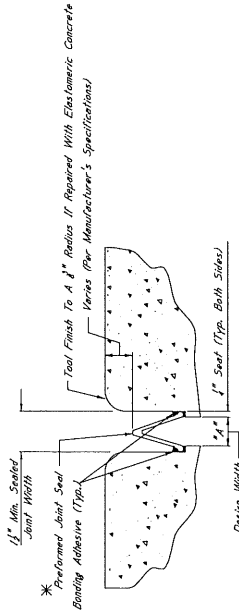


TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expanding Device To Be Removed And Replaced With Preformed Joint Seal



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

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



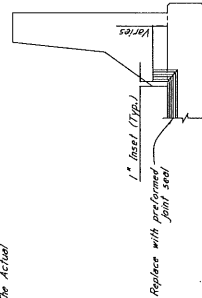
TYPICAL SECTION AT SAWCUT & SEALED JOINT
Showing Sealed Joint After Concrete Joint Repair With Elastomeric Concrete

*NOTES:

- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
 - Silicone Joint Sealing System Manufactured By P.J. Weston, Inc. In Allen, NY www.pjweston.com
 - White SPS Joint Sealing Manufactured By Weston Boman Acme Corporation In Amherst, NY www.wbacorp.com
 - Siligrac SSS Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials
- Elastomeric Concrete: The 8" Minimum Elastic Joint Sealing System Was Selected However, Should Another Superior Be Chosen, It Is The Contractor's Responsibility To Ensure That The Manufacturer's Recommendations Are Followed And That The Joint Seal Is Properly Installed. Any Other Variance Between The Specifications Provided By The Manufacturer, A Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins. The Contractor Is Properly Sourced In Installation Of The Joint Seal Material.
- Widths 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 "A" Design Width On Either Side Of The Joint. The Contractor Shall Be Responsible For Design Widths Greater Than Or Equal To 2" With The Maximum Design Width Of Expansion Material Shall Be As Required As Directed By The Director Of Structures, State Bridge Engineer. It Is The Contractor's Responsibility To Ensure That The Size Selected Is Appropriate For The Width Of The Joint.

*NOTES:

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



ELEVATION AT END OF SPAN

NOTES ON ASSOCIATED ITEMS OF WORK:

202-0109 REMOVAL OF EXISTING JOINT MATERIAL

Description:

Shall include The Removal Of Material Associated With Areas, Slab, The Joint And Expansion Joints. As Work Types Shall Not Be Included Under This Item Of Work Unless Otherwise Directed By The Engineer. (Including But Not Limited To Concrete Joints, Vegetation And Trees) Located At Any Depth Within The Joint. Shall Be Included Under This Item Of Work.

Basis Of Payment:

Remove All Old Washers And Concrete As Directed. Remove Expansion Joint Material. Remove Existing Expanding Device To Be Removed And Replaced With Preformed Joint Seal. Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint, While Removal Of Existing Joint The Contractor 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 From Of Decks 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

907-824-8001 BRIDGE 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 P.J. Weston, Inc. In Allen, NY www.pjweston.com
- White-Crete II Manufactured By Weston Boman Acme Corporation In Amherst, NY www.wbacorp.com
- Dakota Elastomeric Concrete Manufactured By The D.S. Brown Company In North Baltimore, 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 Bridge Construction, Part 1010.
- No Change Orders Will Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer. Minor Changes To Detail Of Design Or Construction Procedure Will Not Be Cause For Contract Price Adjustment. Work For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Directly. And Shall Therefore Be Considered An Included Item Of Work.

NOTES ON ASSOCIATED ITEMS OF WORK:

907-824-0000 BRIDGE REPAIR: ENDWALL REPAIR

Description: Shall include the Work Necessary To Remove And Replace The Damaged End Wall At Existing Or Proposed Location, The Specified Depth Of Limiting To The Repair To The Damaged Section, The Specified Depth Of Endwall Shall Be Removed Along The Entire Width Of The Bridge Deck.

Contract Unit Price Along The Width Of The Bridge Deck. The Accepted Quantities Will Be Paid For In Lower Feet At The Damage Cause To Other Elements Of The Structure Or Backery While Completing This Item Of 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 Bonder Designed 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 District Division. Mixture design parameters are as follows:

Required Strength: 2500 psi prior to releasing to traffic
 5 to 6 inches Minimum Slump

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 MDT's Approved Products List, and the manufacturer's recommendations shall be followed for the usage rate.

Curing is to be continuous until 2500 psi is attained. Traffic is to be allowed only after the laboratory section 907-824-0000 estimates the Contractor may use the laboratory section for the purpose of releasing the repair area to traffic.

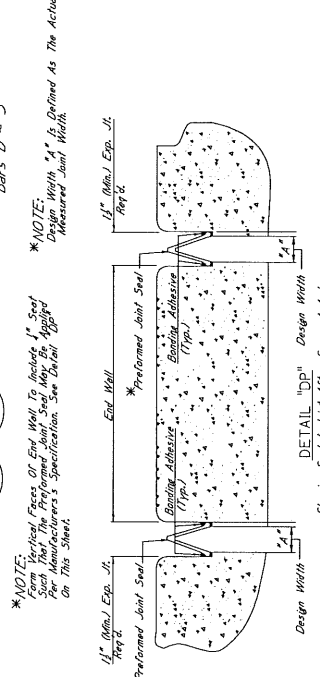
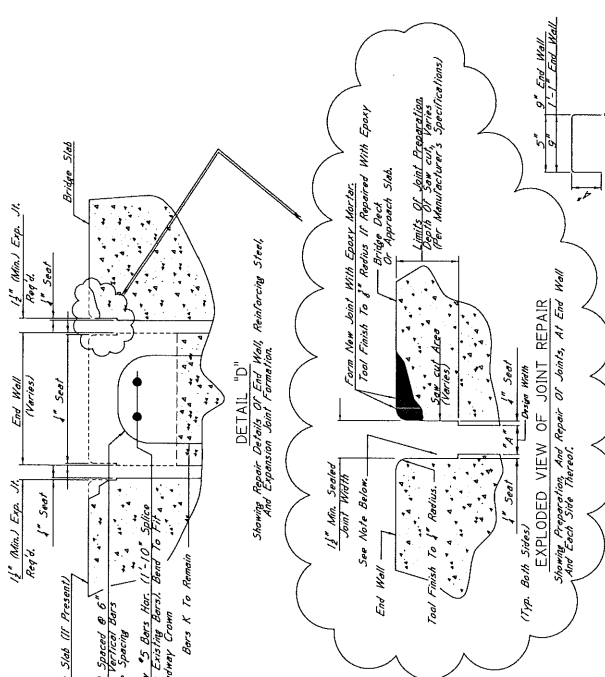
However, final acceptance of the in-place concrete shall be determined using concrete placement. Two cylinders are to be tested at 8, 16, and 24 hour intervals. The two remaining cylinders shall be used to determine the 28-day compressive strength of the concrete.

The Removal Of Existing Expansion Material May Require Any Number Of The Pay Items Listed Below. Once The Expansion Device Is Identified, Refer To The Associated Items Of Work.

- 907-809-0002 REMOVAL OF EXISTING JOINT MATERIAL
- 907-809-0003 JOINT REPAIR WITHOUT EPXY
- 907-823-0001 SAW CUT, TYPE I
- 907-823-0002 SAW CUT, TYPE II
- 907-823-0003 PREFORMED JOINT SEAL, TYPE I
- 907-823-0002 PREFORMED JOINT SEAL, TYPE II

GENERAL NOTES:

1. No Change Of Plans Will Be Permitted Except By Written Order From The District Division. All Construction Procedures Shall Be Authorized By The Bridge Engineer. Provided Such Changes Will Be Paid For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Unless It Shall Therefore Be Considered An Associated Item Of Work.
2. And Bridge Construction 2012.
3. Minor Changes To Detail Of Design Or Construction Procedure Shall Be Authorized By The Bridge Engineer. Provided Such Changes Will Be Paid For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Unless It Shall Therefore Be Considered An Associated Item Of Work.



*NOTE: Vertical Faces Of End Wall To Include 1\"/>

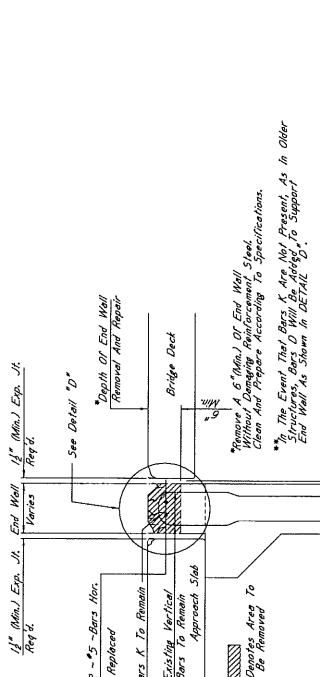
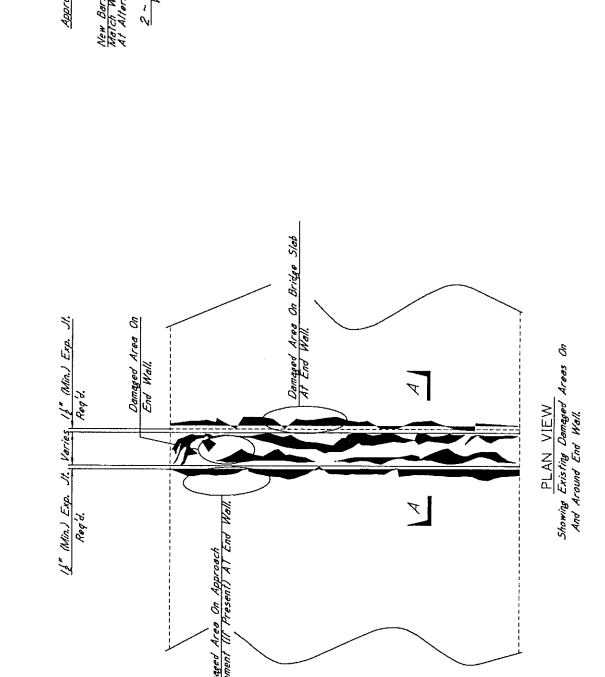
*NOTE: Design Width 'A' Is Defined As The Actual Measured Joint Width.

*NOTE: Form Vertical Faces Of End Wall To Include 1\"/>

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

*NOTE: Form Vertical Faces Of End Wall To Include 1\"/>

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



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

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MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-899-1

CODE: (SP)

DATE: 01/17/2017

SUBJECT: Railway-Highway Provisions

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

SECTION 907-899--RAILWAY-HIGHWAY PROVISIONS

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

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

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

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

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

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

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

907-899.02--Blank.

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

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

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

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

Payment will be made under:

907-899-A: Railway-Highway Provisions

- lump sum

SECTION 905 - PROPOSAL

Date _____

Mississippi Transportation Commission
Jackson, Mississippi

Sirs: The following proposal is made on behalf of _____
_____ of _____

for constructing the following designated project(s) within the time(s) 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 3 miles of SR 43 from south of I-20 to Pelahatchie, known as State Project No. MP-5043-61(011) / 307913301 in Rankin County.

Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
Roadway Items					
0010	202-B009		35	Square Yard	Removal of Asphalt Pavement, Failed Areas
0020	202-B063		47	Square Yard	Removal of Concrete Paved Ditch
0030	202-B158		2,550	Linear Feet	Removal of Guard Rail, Including Rails, Posts and Terminal Ends
0040	202-B240		1,263	Linear Feet	Removal of Traffic Stripe
0050	203-G002	(E)	300	Cubic Yard	Excess Excavation, LVM, AH
0060	221-A001	(S)	3	Cubic Yard	Concrete Paved Ditch
0070	304-D002	(GT)	557	Ton	Granular Material, Crushed Stone
0080	403-A002	(BA1)	7,924	Ton	12.5-mm, MT, Asphalt Pavement
0090	403-B002	(BA1)	50	Ton	12.5-mm, MT, Asphalt Pavement, Leveling
0100	406-D001		68,345	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0110	407-A001	(A2)	5,468	Gallon	Asphalt for Tack Coat
0120	503-C010		104	Linear Feet	Saw Cut, Full Depth
0130	605-H001	(S)	800	Linear Feet	Edge Drain
0140	605-I001	(S)	84	Linear Feet	Edge Drain Outlets/Vents
0150	606-B003		1,800	Linear Feet	Guard Rail, Class A, Type 1, 'W' Beam, Metal Post
0160	606-D012		12	Each	Guard Rail, Bridge End Section, Type D Modified
0170	606-E007		12	Each	Guard Rail, Terminal End Section, Non-Flared
0180	618-A001		1	Lump Sum	Maintenance of Traffic
0190	619-A1001		10	Mile	Temporary Traffic Stripe, Continuous White
0200	619-A2001		9	Mile	Temporary Traffic Stripe, Continuous Yellow
0210	619-A4002		6	Mile	Temporary Traffic Stripe, Skip Yellow
0220	619-A5001		29,100	Linear Feet	Temporary Traffic Stripe, Detail
0230	619-A6002		6,588	Linear Feet	Temporary Traffic Stripe, Legend
0240	619-D1001		224	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0250	619-D2001		148	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0260	619-G4001		24	Linear Feet	Barricades, Type III, Double Faced
0270	620-A001		1	Lump Sum	Mobilization
0280	626-B002		5	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous White
0290	626-D001		2	Mile	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0300	626-E001		3	Mile	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0310	626-G004		15,576	Linear Feet	Thermoplastic Double Drop Detail Stripe, White
0320	626-G005		6,757	Linear Feet	Thermoplastic Double Drop Detail Stripe, Yellow
0330	626-H001		236	Square Feet	Thermoplastic Double Drop Legend, White
0340	626-H002		2,194	Linear Feet	Thermoplastic Double Drop Legend, White
0350	627-J001		1,098	Each	Two-Way Clear Reflective High Performance Raised Markers

Line no.	Item Code	Adj Code	Quantity	Units	Description	Fixed Unit Price
0360	627-L001		541	Each	Two-Way Yellow Reflective High Performance Raised Markers	
0370	630-A001		52	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness	
0380	630-A003		63	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness	
0390	630-F006		82	Each	Delineators, Guard Rail, White	
0400	630-G004		12	Each	Type 3 Object Markers, OM-3R or OM-3L	
0410	815-A007	(S)	88	Ton	Loose Riprap, Size 300	
0420	815-E001	(S)	140	Square Yard	Geotextile under Riprap	
0430	907-420-A001		3,000	Pounds	Undersealing	
0440	907-619-B001		132	Linear Feet	Temporary Portable Rumble Strips	
0450	907-808-A003	(S)	420	Linear Feet	Joint Repair Without Epoxy	
0460	907-823-A001		210	Linear Feet	Preformed Joint Seal, Type I	
0470	907-823-B001		420	Linear Feet	Saw Cut, Type I	
0480	907-899-A001		1	Lump Sum	Railway-Highway Provisions	

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-5043-61(011)/ 307913301000**

in **Rankin** 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-5043-61(011)/ 307913301000

LOCATED IN THE COUNTY(IES) OF Rankin

STATE OF MISSISSIPPI,
COUNTY OF HINDS

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

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

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

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

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

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

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

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

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

Contractor(s)

By _____

MISSISSIPPI TRANSPORTATION COMMISSION

Title _____

By _____

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

Executive Director

Secretary to the Commission

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

SECTION 903
PERFORMANCE AND PAYMENT BOND

CONTRACT BOND FOR: MP-5043-61(011)/307913301000

LOCATED IN THE COUNTY(IES) OF: Rankin

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 3 miles of SR 43 from south of I-20 to Pelahatchie, known as State Project No. MP-5043-61(011) / 307913301 in Rankin County.**

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

Signed and sealed this _____ day of _____, 20__

(Principal) (Seal)

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

(Surety) (Seal)

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

(MS Agent)

Mississippi Insurance ID Number

