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SM No. CNHPP0020012511

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

03

Bridge Preservation on I-20 over KCS RR, (Bridge Nos. 56.8A & 56.8B), known as Federal Aid Project No. NHPP-0020-01(251) / 108284301 in Rankin County.

Project Completion: 120 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: NHPP-0020-01(251)/108284301 - Rankin

907-899-1

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OF SECTION 905 AS ADDENDA)

07/28/2020 01:48 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, August 25, 2020, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor For:

Bridge Preservation on I-20 over KCS RR, (Bridge Nos. 56.8A & 56.8B), known as Federal Aid Project No. NHPP-0020-01(251) / 108284301 in Rankin County.

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

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

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

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

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

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

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

MELINDA L. MCGRATH
EXECUTIVE DIRECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1

CODE: (IS)

DATE: 03/01/2017

SUBJECT: Governing Specifications

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

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. 2

CODE: (IS)

DATE: 03/01/2017

SUBJECT: Status of Right-of-Way

Although it is desirable to have acquired all rights-of-way and completed all railroad agreements, utility adjustments and work to be performed by others prior to receiving bids, sometimes it is not considered to be in the public interest to wait until each and every such clearance has been obtained. The bidder is hereby advised of possible unacquired rights-of-way, relocations, railroad agreements and utilities adjustments which have not been completed.

The status of right-of-way acquisition, utility adjustments, encroachments, potentially contaminated sites, railroad facilities, improvements, and asbestos contamination are set forth in the following attachments.

In the event right of entry is not available to ALL parcels of right-of-way and/or all work that is to be accomplished by others on the date set forth in the contract for the Notice to Proceed is not complete, the Department will issue a restricted Notice to Proceed.

STATUS OF RIGHT-OF-WAY
NHPP-0020-01(251)
108284/301000
Rankin County

All rights of way and legal rights of entry have been acquired **except:**

None.

ASBESTOS CONTAMINATION STATUS OF BUILDINGS
TO BE REMOVED BY THE CONTRACTOR
NHPP-0020-01(251)
108284/301000
Rankin County
May 5, 2020

Reference is made to notices to bidders entitled "Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP)" and "Removal of Obstructions".

The following pertinent information is furnished concerning asbestos containing materials (ACMs), if any, found in buildings to be removed by the Contractor.

There is no Right of Way required for this project. There are no buildings to be removed by the contractor.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Inter-Departmental Memorandum

TO: Trudi Loflin
ROW Division

DATE: April 30, 2020

FROM: Christopher M. Nail
District Five



SUBJECT OR PROJECT NO: NHPP-0020-01(251) / 108284-301000
ROW Certification Documents

INFORMATION COPY TO:

COUNTY: Rankin

Project File

District Status Report

1. STATUS OF RIGHT OF WAY: All work to be done within existing ROW.
2. RIGHT OF WAY CLEARANCE: There are no encroachments that conflict with construction.
3. STATUS OF AFFECTED RAILROAD OPERATING FACILITIES: The bridge structure spans the Kansas City Southern railroad. The applicable railway provisions will be included in the contract.
4. STATUS OF REQUIRED UTILITY RELOCATIONS: There are no known utility conflicts. Any applicable permits showing the approximate location of other utilities within or along the ROW are on file with the Department. The Department cannot and does not warrant that this information is complete and accurate. The contractor must coordinate directly with the involved utility owners to have underground utility lines field located in advance of construction.
5. STATUS OF CONSTRUCTION AGREEMENT: None required.

CMN:cmn

STATUS OF POTENTIALLY CONTAMINATED SITES
NHPP-0020-01(251)
108284/301000
Rankin County
May 5, 2020

THERE IS NO RIGHT OF WAY REQUIRED FOR THIS PROJECT. NO INITIAL SITE ASSESSMENT WILL BE PERFORMED. IF CONTAMINATION ON EXISTING RIGHT OF WAY IS DISCOVERED, IT WILL BE HANDLED BY THE DEPARTMENT.

Improvements to be included in Notice to Bidders to be removed by the Construction Contractor
FMS Construction Project No: 108284-301000
External ROW No: NHPP-0020-01(251)

Parcel No:
Station No:
Property Owner:
Description/Pictures:

NA

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

SUPPLEMENT TO NOTICE TO BIDDERS NO. 14

DATE: 7/27/2020

PROJECT: NHPP-0020-01(251) / 108284301 – Rankin County

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

Name Insured: Meridian Speedway, LLC.

Description and Designation: Repair of Overhead Bridge: Intersection of the centerline of survey of I-20 and the centerline of track near Railroad Milepost VM81.58, in Brandon, Mississippi.

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

Mr. Srikanth V. Honnur
Director, Track and Bridge Construction
Engineering Department
The Kansas City Southern Railway Company
427 West 12th Street
Kansas City, Missouri 64105

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. 246

CODE: (SP)

DATE: 06/27/2017

SUBJECT: Kansas City Southern Construction Requirements

Bidders are hereby advised that provisions which 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 application 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 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 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. 401

CODE: (SP)

DATE: 09/12/2017

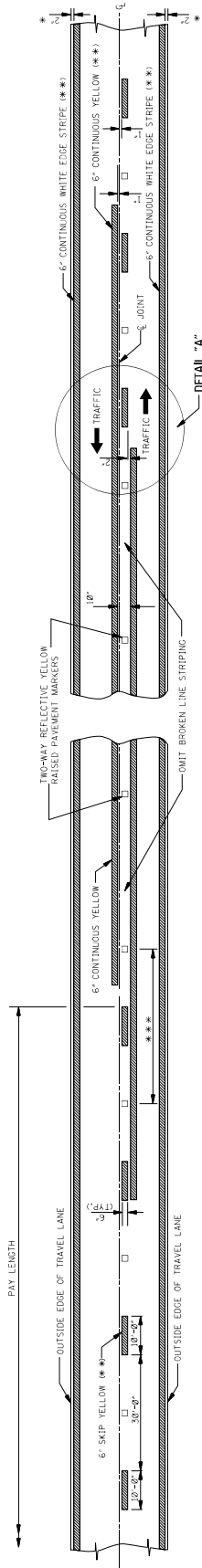
SUBJECT: Standard Drawings

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

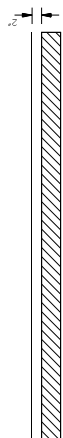
Larger copies of Standard Drawings may be purchased from:

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	PROJECT NO.
MISS.	



TWO-WAY TRAFFIC (ASPHALT OR CONCRETE PAVEMENT)



TRAFFIC ←

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

GENERAL NOTES:

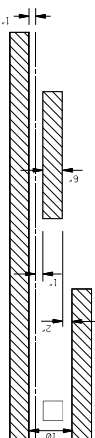
- * 1. UNLESS SHOWN ELSEWHERE ON THE PLANS, FOR SPECIALS AND PROFILES REFER TO THE SHEETS RS-1, RS-2, AND RS-3.
- ** 2. EDGE STRIPE SHALL BE SAME MATERIAL AS LANE-LINE STRIPE FOR PLASTICS INDICATED IN PAY ITEMS.
- *** 3. SOURCE OF REFLECTIVE RAISED PAVEMENT MARKERS IS AS FOLLOWS:

TANGENT SECTIONS	HORIZONTAL CURVES	INTERCHANGE LIMITS	URBAN AREA
40'-0"	40'-0"	40'-0"	40'-0"
80'-0"	80'-0"	40'-0"	80'-0"
			140'-0"

† NOTE: ON THE MAIN FACILITY, REFLECTIVE RED-CLEAR RAISED PAVEMENT MARKERS ON A 40'-0" SPACING WILL BE REQUIRED ON LANE-LINES THROUGH ALL INTERCHANGE AREAS BEGINNING WITH THE FIRST INTERCHANGE THROUGH THE MAIN RAMP TO THE INTERCHANGE THROUGH THE INTERCHANGE TO THE END OF THE ENTRANCE RAMP TAPER.

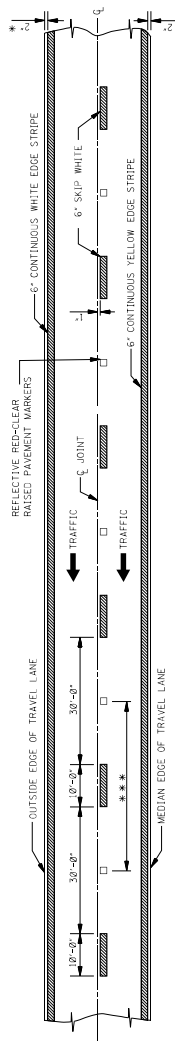
‡ PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE REFLECTIVE RAISED PAVEMENT MARKERS AS LISTED IN THE MOOT APPROVED SOURCES OF MATERIALS.

TRAFFIC →



TRAFFIC →

DETAIL "A"



4-LANE WITH ONE-WAY TRAFFIC

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN		SHEET NUMBER 6031
DATE	ISSUE DATE	
	MAY 01, 2017	
BY	REVISION	WORKING NUMBER PM-1

**PAVEMENT MARKING
DETAILS FOR
2-LANE AND 4-LANE
DIVIDED ROADWAYS**

STATE	PROJECT NO.	
MISS.		

DETAIL A
LATERAL PLACEMENT OF PAVEMENT MARKERS

DETAIL B
LATERAL PLACEMENT OF PAVEMENT MARKERS

TYPICAL TWO-WAY ARROW INSTALLATION

TYPICAL TWO-WAY ARROW INSTALLATION

NOTES: 1. CONSIDER EACH SEGMENT OF CONTINUOUS TWO-WAY LEFT TURN LANE SEPARATELY. 2. IF SEGMENT IS GREATER THAN 500' IN LENGTH, PROVIDE A ROW OF ARROWS NEAR TO 100' FROM BEGINNING AND/OR END OF SEGMENT AND SPACE ADDITIONAL SETS OF ARROWS (250' O.C.).

TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 4-LANE SECTION

TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 3-LANE SECTION

TYPICAL STRIPING AND RAISED PAVEMENT MARKERS AT LEFT TURN LANES

* NOTE: USE DETAIL STRIPING IF LENGTH < 150' AT THIS LOCATION, OTHERWISE USE CONTINUOUS STRIPING.

TYPICAL STRIPING AND RAISED PAVEMENT MARKERS FOR 3-LANE SECTION

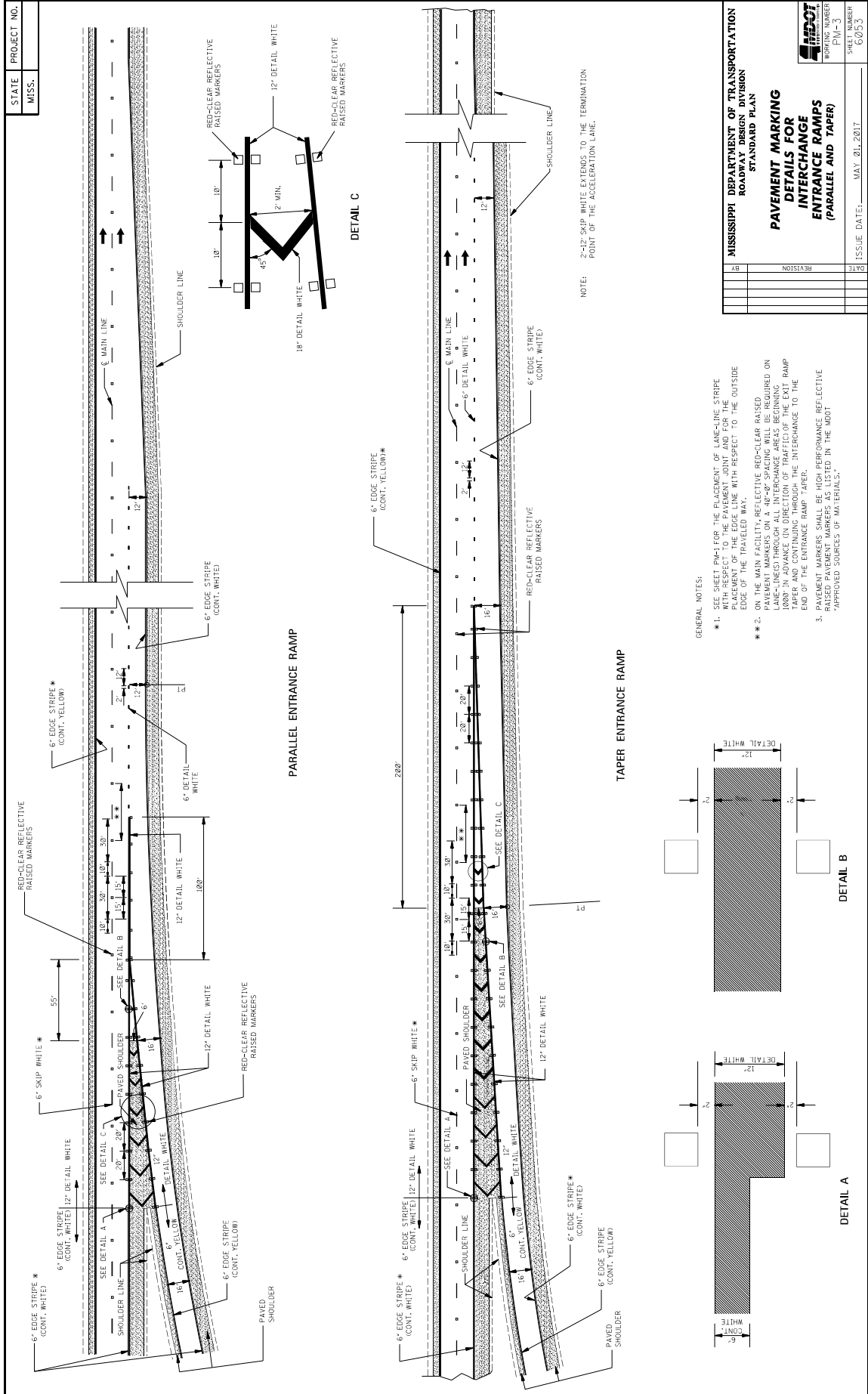
GENERAL NOTE:
1. PAVEMENT MARKERS SHALL BE HIGH PERFORMANCE RAISED SOURCE MARKERS LISTED IN THE MOST APPROVED SOURCE OF MATERIALS.

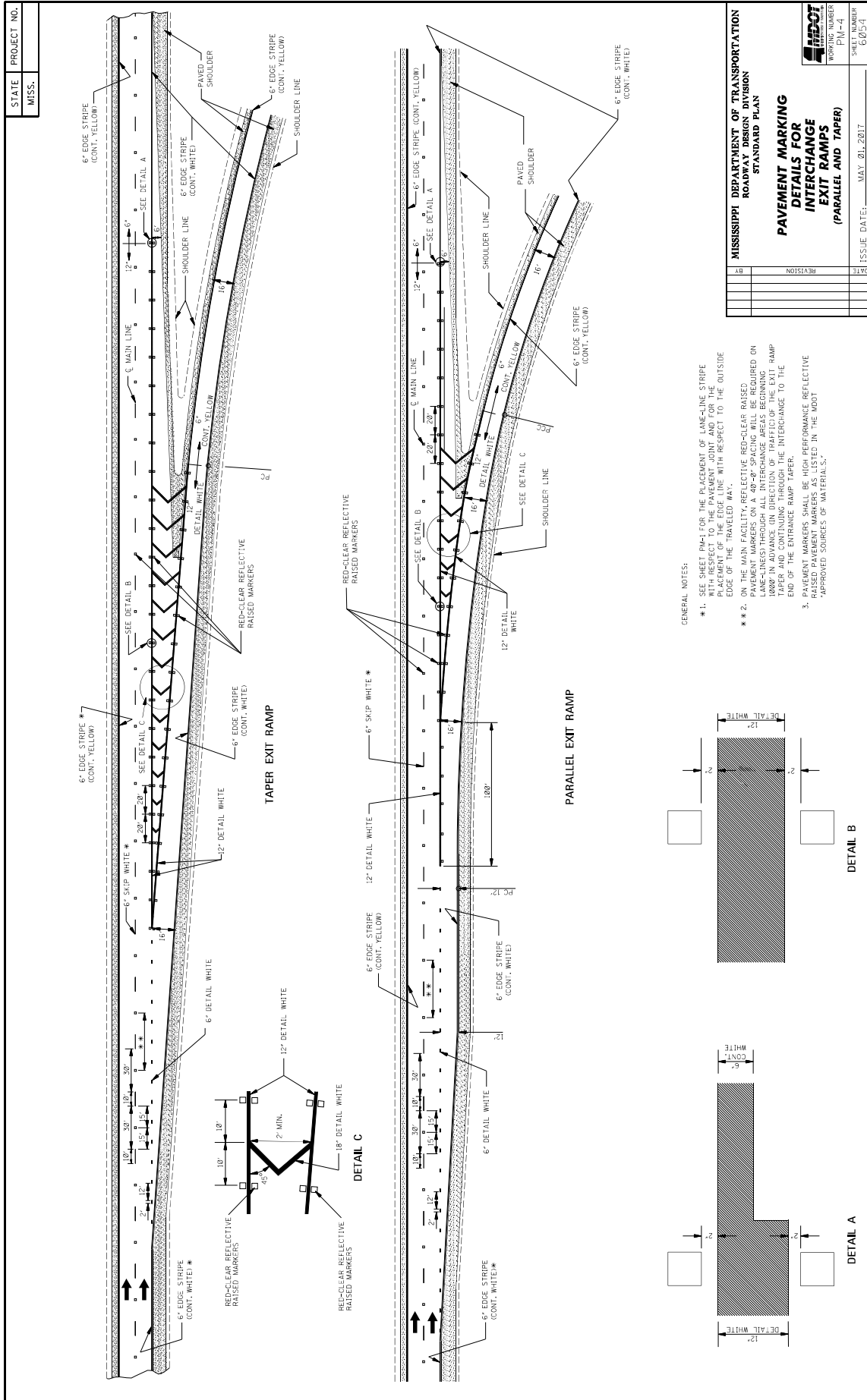
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
DETAILS FOR 3-LANE
4-LANE AND 3-LANE
UNDIVIDED ROADWAYS**

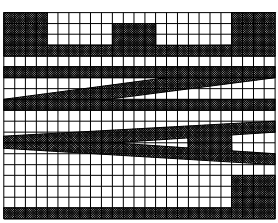
DATE	REVISION

ISSUE DATE: MAY 21, 2017
SHEET NUMBER: PIM-2
SHEET TOTAL: 60/62

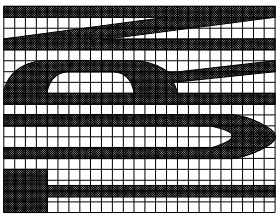




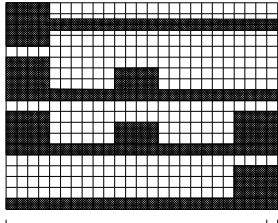
STATE MISS.	PROJECT NO.	
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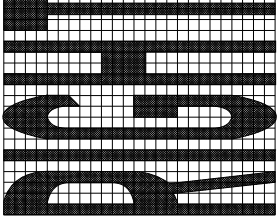
6'-4"
4"



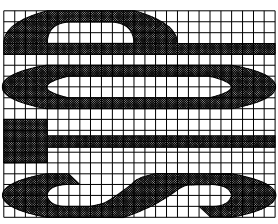
6'-4"
4"



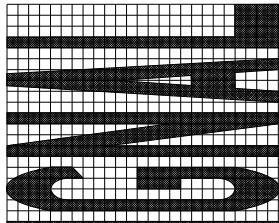
6'-4"
4"



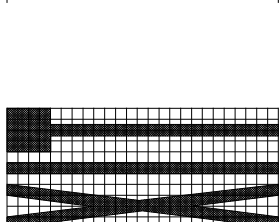
7'-0"
4"



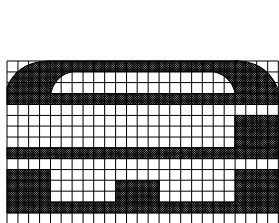
6'-4"
4"



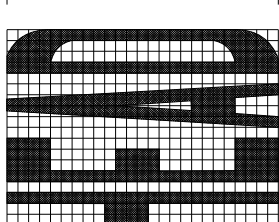
6'-8"
4"



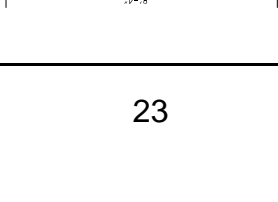
8'-8"
4"



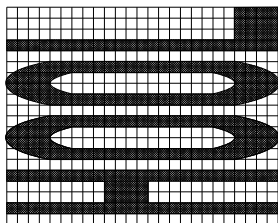
5'-4"
4"



7'-0"
4"



8'-0"
4"



9'-8"
4"

GENERAL NOTES:

- TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTIONS) OF 1/2" LESS THAN THE STRETCHING LETTERS SHALL BE SHOWN IN THE LETTERS.
- FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

LEGEND	AREA (FT ²)
STOP	24.6
RIGHT	28.6
LEFT	19.5
TRAFFIC	22.7
AHEAD	32.3
YIELD	26.8
EXIT	18.5
SIGNAL	32.5
SCHOOL	35.5

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
LEGEND DETAILS**

DATE	REVISION	BY

ISSUE DATE: MAY 01, 2017

SHEET NUMBER
PM-5
60355

STATE MISS.	PROJECT NO.	
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THRU ARROW

TURN ARROW

LANE-REDUCTION ARROW

COMBINATION ARROW

YIELD LINE

1-WAY ARROW

GENERAL NOTES:

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

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

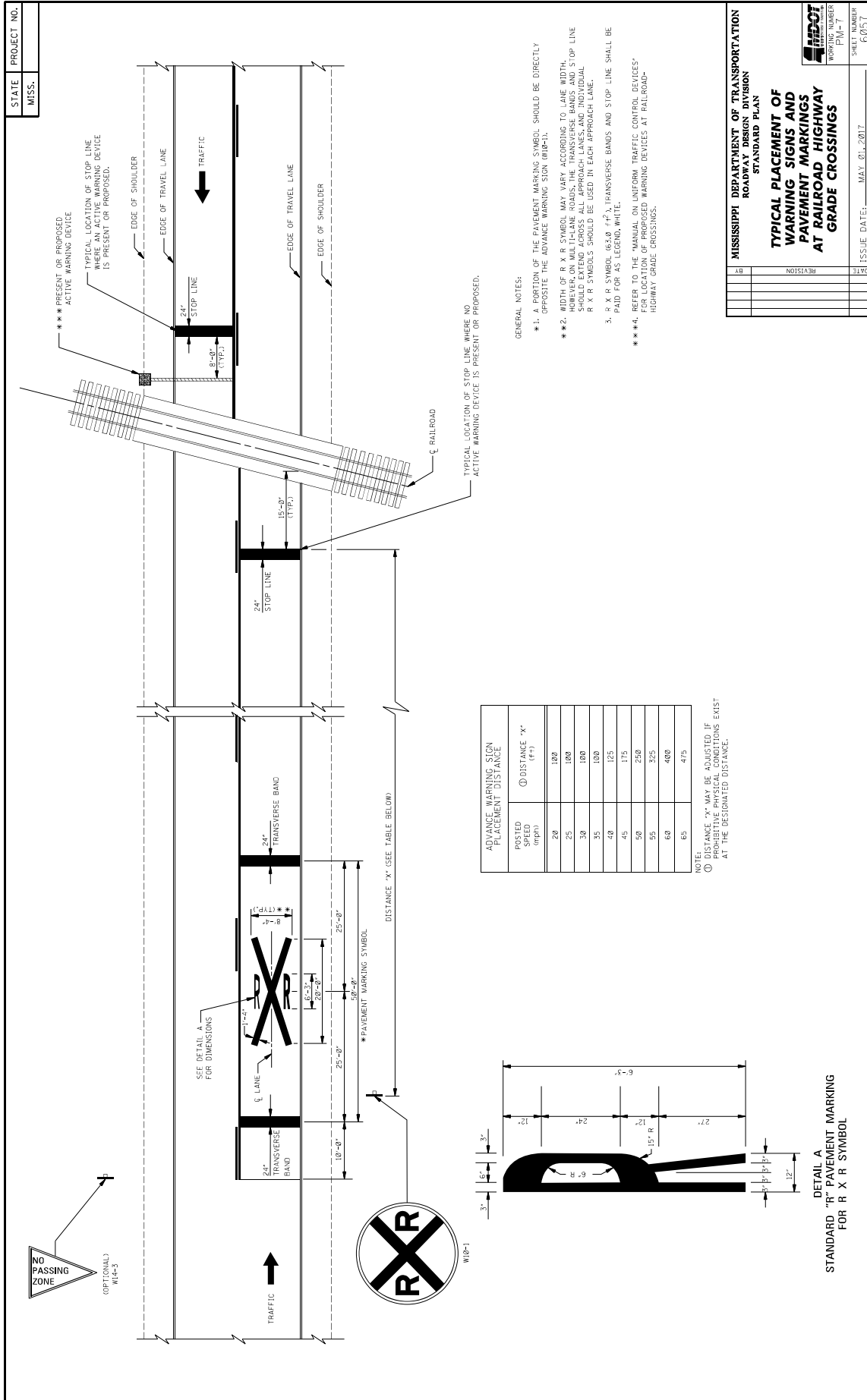
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
LEGEND DETAILS**

DATE	BY	REVISION	DATE	BY	REVISION	DATE	BY	REVISION

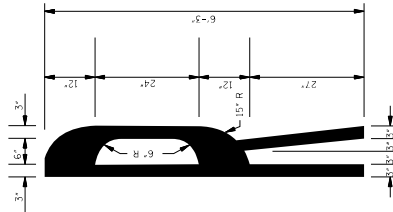
ISSUE DATE: MAY 01, 2017

SHEET NUMBER: 60/56



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

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



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

- GENERAL NOTES:
- ** 1. A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W10-1).
 - ** 2. WIDTH OF R X R SYMBOL MAY VARY ACCORDING TO LANE WIDTH. SYMBOL SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.
 - 3. R X R SYMBOL (63.8 #1), TRANSVERSE BANDS AND STOP LINE SHALL BE PAID FOR AS LEGEND, WHITE.
 - ** * 4. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR LOCATION OF PROPOSED WARNING DEVICES AT RAILROAD-HIGHWAY GRADE CROSSINGS.

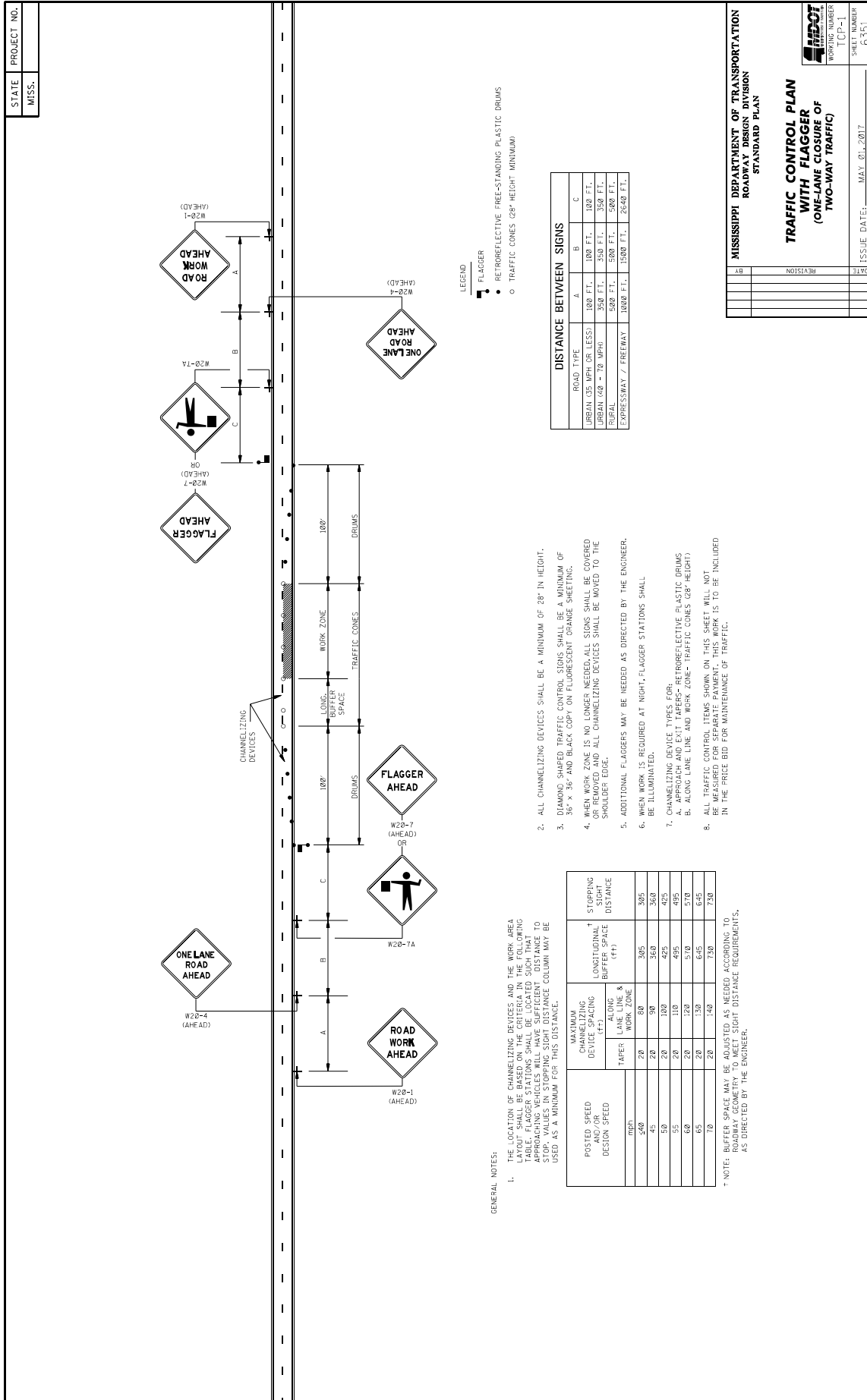
STATE PROJECT NO.
MISS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

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

WORKING NUMBER: P10-1
SHEET NUMBER: 6031

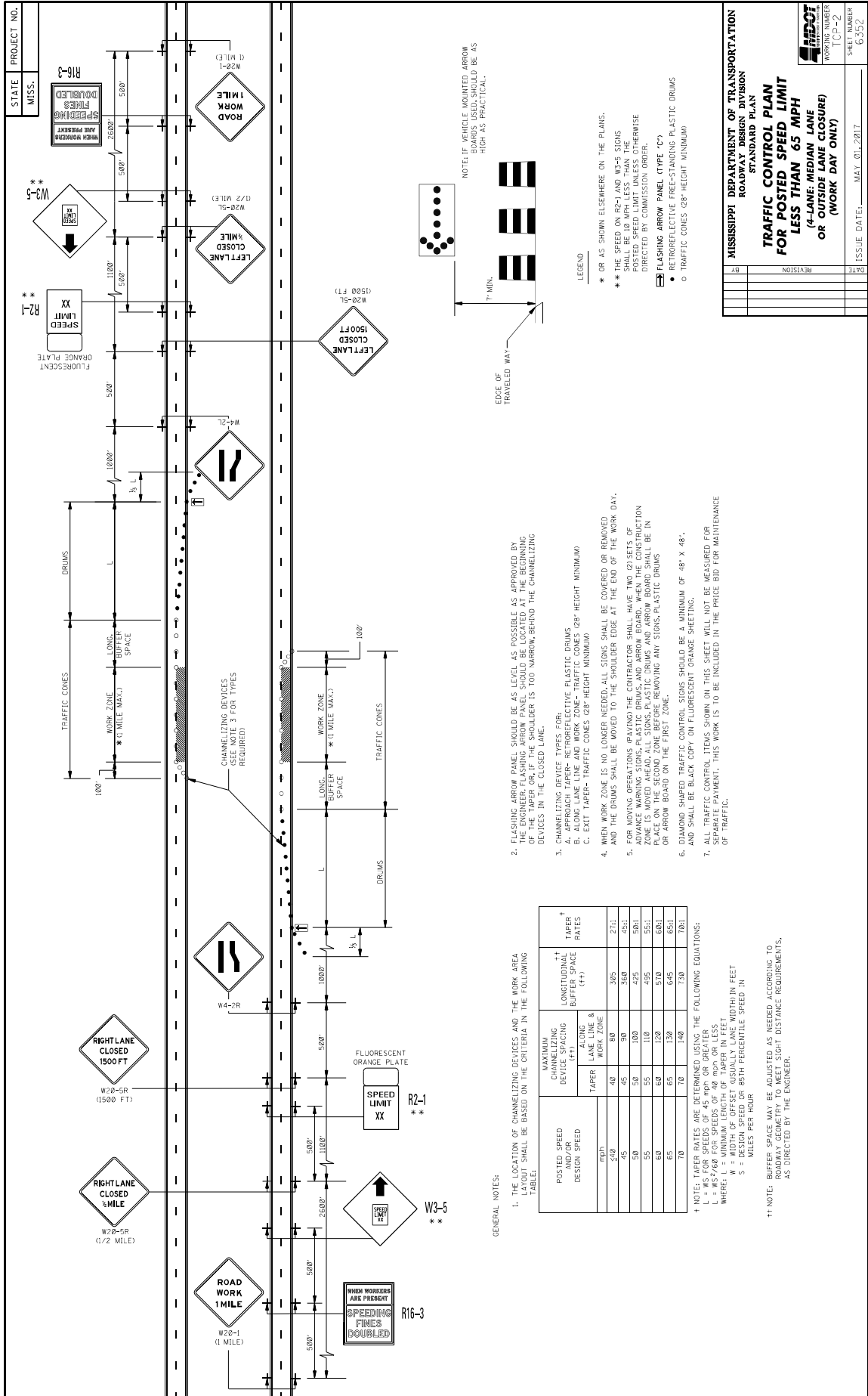
ISSUE DATE: MAY 01, 2017



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



GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE DESIGNER. PANELS SHOULD BE SET AT AN ANGLE OF 15 DEGREES TO THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. CHANNELIZING DEVICES TYPES FOR:
 - A. APPROACH TAPER- RETROREFLECTIVE PLASTIC DRUMS
 - B. ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT MINIMUM)
 - C. EXIT TAPER- TRAFFIC CONES (28" HEIGHT MINIMUM)
4. WHEN WORK ZONE IS NO LONGER NEEDED, ALL SIGNS SHALL BE COVERED OR REMOVED.
5. FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING SIGNS, PLASTIC DRUMS, AND ARROW BOARD. WHEN THE CONSTRUCTION ZONE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
6. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48" AND SHALL BE BLACK COPY ON FLOURESCENT ORANGE SHEETING.
7. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

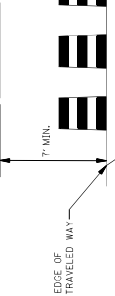
POSTED SPEED AND/OR DESIGN SPEED	MAXIMUM CHANNELIZING DEVICE SPACING (FT)		LONGITUDINAL BUFFER SPACE (FT)	TAPER RATES
	LANE LINE & WORK ZONE	EXIT TAPER		
45	40	80	305	27:1
50	45	90	360	45:1
55	50	100	425	50:1
60	55	110	495	55:1
65	60	120	570	60:1
70	65	130	645	65:1
75	70	140	730	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 L = WS FOR SPEEDS OF 45 MPH OR GREATER
 L = 5S FOR SPEEDS OF 30 TO 44 MPH
 WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
 W = WIDTH OF OFFSET (USUALLY LANE WIDTH IN FEET)
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

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

LEGEND

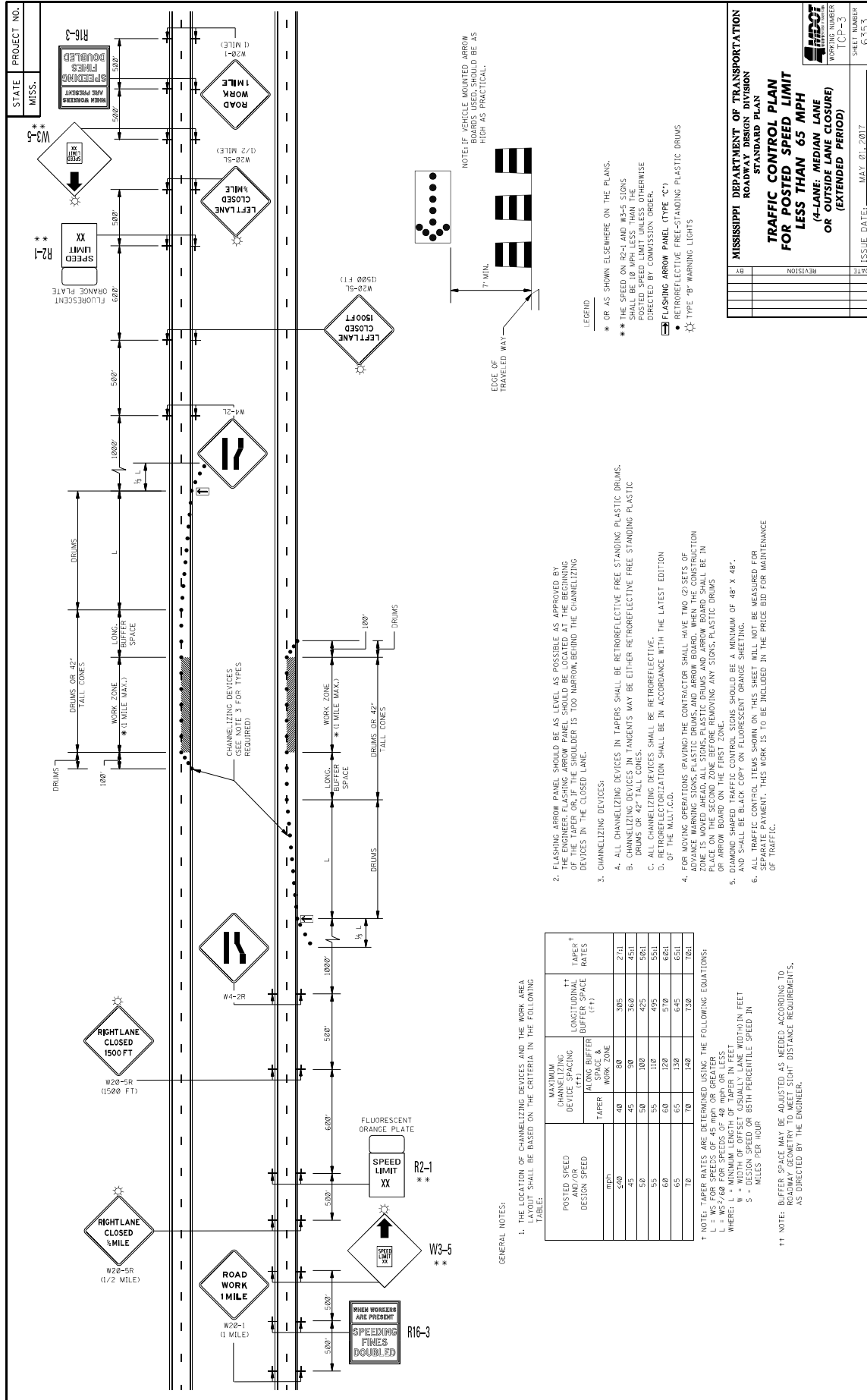
- * OR AS SHOWN ELSEWHERE ON THE PLANS.
- ** THE SPEED ON R2-1 AND W3-5 SIGNS SHALL BE 10 MPH LESS THAN THE POSTED SPEED LIMIT UNLESS OTHERWISE DIRECTED BY COMMISSION ORDER.
- ◻ FLASHING ARROW PANEL (TYPE 'C')
- RETROREFLECTIVE FREE-STANDING PLASTIC DRUMS
- TRAFFIC CONES (28" HEIGHT MINIMUM)



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

ISSUE DATE: MAY 01, 2017
 SHEET NUMBER: 60302
 WORKING NUMBER: T-CP-2

DATE	REVISION



STATE PROJECT NO. MISS. **W3-5**

ISSUE DATE: MAY 01, 2017

WORKING NUMBER TCP-3

SHEET NUMBER 6353

REVISION

BY

DATE

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

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING AND END OF THE WORK ZONE. THE BUFFER SHOULD BE 100' AHEAD, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. CHANNELIZING DEVICES:
 - A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
 - B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
 - C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
 - D. RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD.
4. FOR TAPER WORK, TANGENTS THE CONTRACTOR SHALL HAVE TWO (2) FEET OF CHANNELIZING DEVICES (RETROREFLECTIVE PLASTIC DRUMS AND ARROW BOARD). WHEN THE CONSTRUCTION PLACE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
5. ALL CHANNELIZING DEVICES SHALL BE 48" X 48".
6. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

POSTED SPEED DESIGN SPEED	MAXIMUM CHANNELIZING DEVICES SPACING (FT)		LONGITUDINAL BUFFER SPACE (FT)	TAPER RATES
	ALONG BUFFER	WORK ZONE		
10	40	30	305	2/31
20	45	30	360	4/51
30	50	100	425	5/61
40	55	110	495	5/51
50	60	120	570	6/61
60	65	130	645	6/51
70	70	140	730	7/61

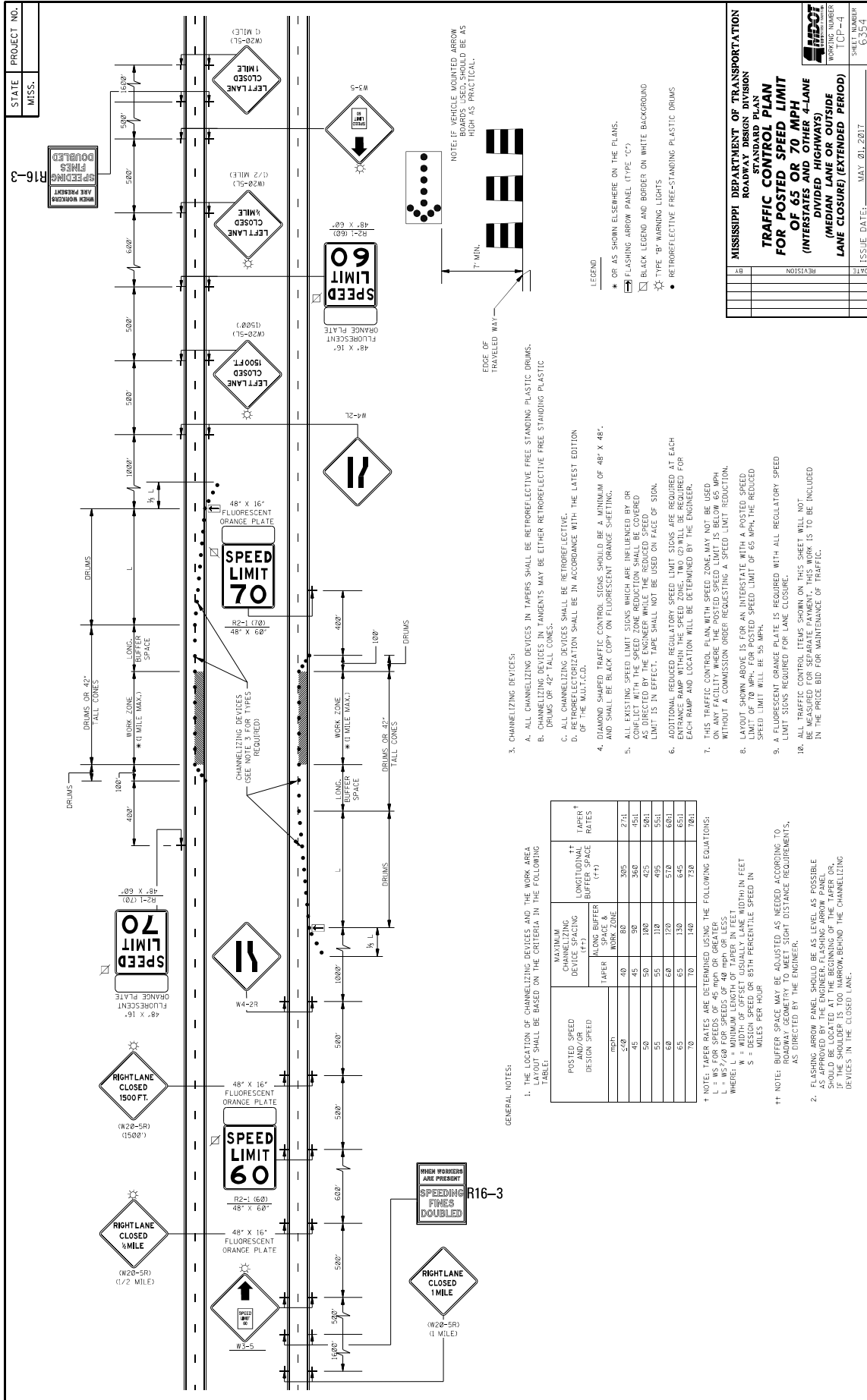
T† TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 L = 4S FOR SPEEDS OF 45 MPH OR GREATER
 L = 4S/2 FOR SPEEDS OF 40 MPH OR LESS
 WHERE: L = WIDTH OF OFFSET, USUALLY LANE WIDTH IN FEET
 S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

GENERAL NOTES:

1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA LAYOUT SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANEL SHOULD BE LOCATED AT THE BEGINNING AND END OF THE WORK ZONE. THE BUFFER SHOULD BE 100' AHEAD, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. CHANNELIZING DEVICES:
 - A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
 - B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
 - C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
 - D. RETROREFLECTORIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD.
4. FOR TAPER WORK, TANGENTS THE CONTRACTOR SHALL HAVE TWO (2) FEET OF CHANNELIZING DEVICES (RETROREFLECTIVE PLASTIC DRUMS AND ARROW BOARD). WHEN THE CONSTRUCTION PLACE IS MOVED AHEAD, ALL SIGNS, PLASTIC DRUMS AND ARROW BOARD SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
5. ALL CHANNELIZING DEVICES SHALL BE 48" X 48".
6. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

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

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



STATE PROJECT NO.
MISS. R16-3

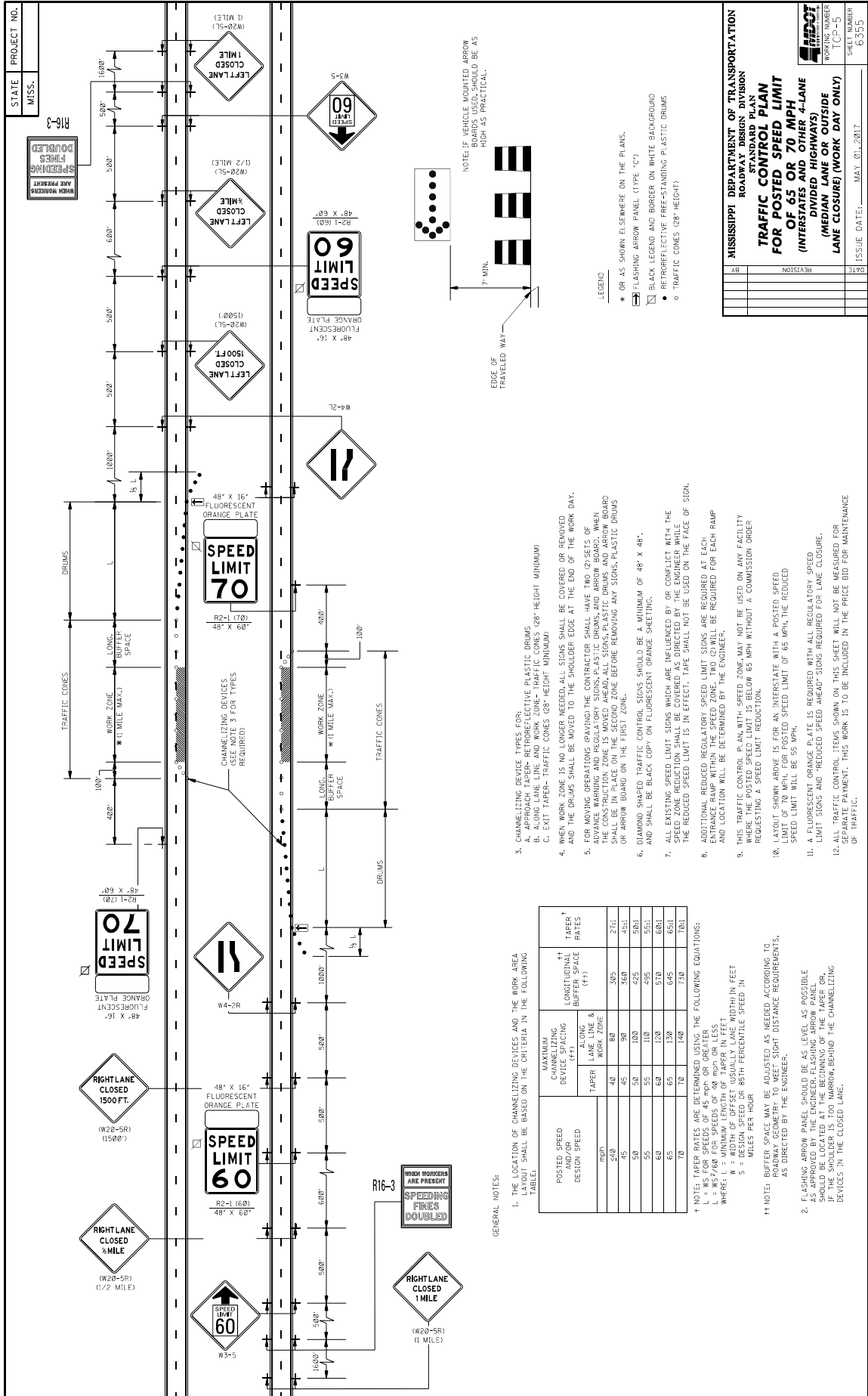
WHEN WORKERS ARE PRESENT
SPEEDING FINES DOUBLED

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)
(MEDIAN LANE OR OUTSIDE
LANE CLOSED) (EXTENDED PERIOD)

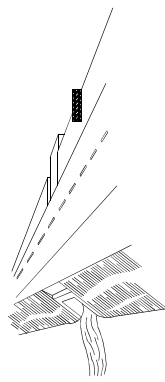
ISSUE DATE: MAY 01, 2017

WORKING NUMBER: TCP-44
SHEET NUMBER: 6534

- GENERAL NOTES:
1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
- | POSTED SPEED AND/OR DESIGN SPEED (MPH) | MAXIMUM CHANNELIZING DEVICE SPACING | | LONGITUDINAL BUFFER SPACE (FT) | TAPER RATES |
|--|-------------------------------------|------------------------|--------------------------------|-------------|
| | TAPER | WORK SPACE & WORK ZONE | | |
| 50 | 40 | 80 | 305 | 2:1 |
| 45 | 35 | 70 | 260 | 4:1 |
| 40 | 30 | 60 | 220 | 5:1 |
| 35 | 25 | 50 | 180 | 6:1 |
| 30 | 20 | 40 | 140 | 7:1 |
| 25 | 15 | 30 | 100 | 8:1 |
| 20 | 10 | 20 | 70 | 10:1 |
- †† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
 † 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 END OF THE WORK ZONE, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
2. 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.
 3. CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
 4. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
 5. ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INFLUENCED BY OR COMPLECT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED WITH RETROREFLECTIVE SHEETING. THE ORIGINAL SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON FACE OF SIGN.
 6. ADDITIONAL REQUIRED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP WITHIN THE SPEED ZONE. TWO CONES ARE REQUIRED FOR EACH RAMP AND LOCATION WILL BE DETERMINED BY THE ENGINEER.
 7. A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS REQUIRED FOR LANE CLOSURE.
 8. LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH. FOR POSTED SPEED LIMIT OF 65 MPH, THE REDUCED SPEED LIMIT WILL BE 55 MPH.
 9. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
3. CHANNELIZING DEVICES:
 A. ALL CHANNELIZING DEVICES IN TAPERS SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
 B. CHANNELIZING DEVICES IN TANGENTS MAY BE EITHER RETROREFLECTIVE FREE STANDING PLASTIC DRUMS OR 42" TALL CONES.
 C. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE.
 D. RETROREFLECTIVIZATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD-600.
 E. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48" AND SHALL BE BLACK COPY ON FLUORESCENT ORANGE SHEETING.
 F. 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.
 G. LAYOUT SHOWN ABOVE IS FOR AN INTERSTATE WITH A POSTED SPEED LIMIT OF 70 MPH. FOR POSTED SPEED LIMIT OF 65 MPH, THE REDUCED SPEED LIMIT WILL BE 55 MPH.
 H. A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS REQUIRED FOR LANE CLOSURE.
 I. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

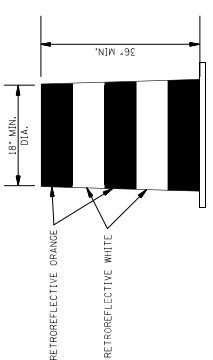


STATE	PROJECT NO.				
MISS.	MISS.	MISS.	MISS.	MISS.	MISS.



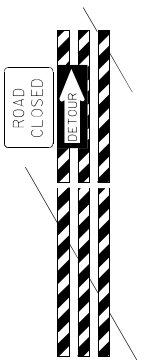
WING BARRICADES

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



PLASTIC DRUM STRIPING DETAIL

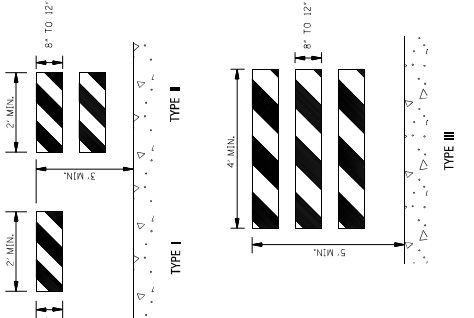
- PLASTIC DRUMS SHALL BE ON END AND USED AS AN EXPEDITED METHOD FOR TRAFFIC CHANNELIZATION. THE COLOR AND MARKING OF DRUMS SHALL BE CONSISTENT WITH THE MARKING OF THE ROADWAY. PLASTIC DRUMS SHALL BE MARKED WITH FOUR RETROREFLECTIVE, HORIZONTAL, CONSPICUOUS STRIPES 12 ORANGE & 2 WHITE 6" WIDE.
- DRUMS SHOULD NEVER BE PLACED IN THE ROADWAY WITHOUT WARNING SIGNS.
- WHERE PRACTICAL PLASTIC DRUMS SHOULD BE PLACED NO CLOSER THAN 3'-0" FROM THE EDGE OF TRAVELED LANE.



BARRICADE CLOSING A ROAD

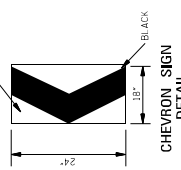
BARRICADE CHARACTERISTICS

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



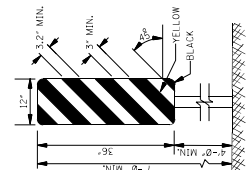
STANDARD BARRICADES

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



CHEVRON SIGN DETAIL

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



TYPE 3 OBJECT MARKER (OM-3R)

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
HIGHWAY SIGN AND BARRICADE DETAILS FOR CONSTRUCTION PROJECTS	
WORKING NUMBER TCP-5	SHEET NUMBER G535B
DATE	ISSUE DATE: MAY 01, 2017
REVISION	

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, FLASERS, SIGNS, OR ARROW PANELS.
- SHADOW VEHICLE 2 SHOULD BE EQUIPPED WITH AN ARROW PANEL AND TRUCK MOUNTED ATTENUATOR (TMA), AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE LEGIBLY DISPLAYED ON 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 30" 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 OBSCURED 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, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. THE SHADOW VEHICLE SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- ADDITIONAL SHADOW VEHICLES TO WARN AND REDUCE THE SPEED OF ONCOMING OR OPPOSING TRAFFIC MAY BE USED. POLICE PATROL CARS MAY BE USED FOR THIS PURPOSE.
- A TRUCK-MOUNTED ATTENUATOR (TMA) SHOULD BE USED ON THE SHADOW VEHICLE AND MAY BE USED ON THE WORK VEHICLE.
- THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS, AND THE SHADOW VEHICLE SHALL BE EQUIPPED WITH BEACONS. HIGH-BEAM LIGHTS AND WORK LIGHTS MOUNTED ON THE REAR, ADJACENT TO THE SIGN, SHADOW AND WORK VEHICLES SHALL DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWARD AND TO THE REAR.
- VEHICLE-MOUNTED SIGNS SHOULD BE MOUNTED WITH THE BOTTOM OF THE SIGN LOCATED AT A MINIMUM HEIGHT OF 48" ABOVE THE PAVEMENT AND SHALL NOT BE OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
- 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.

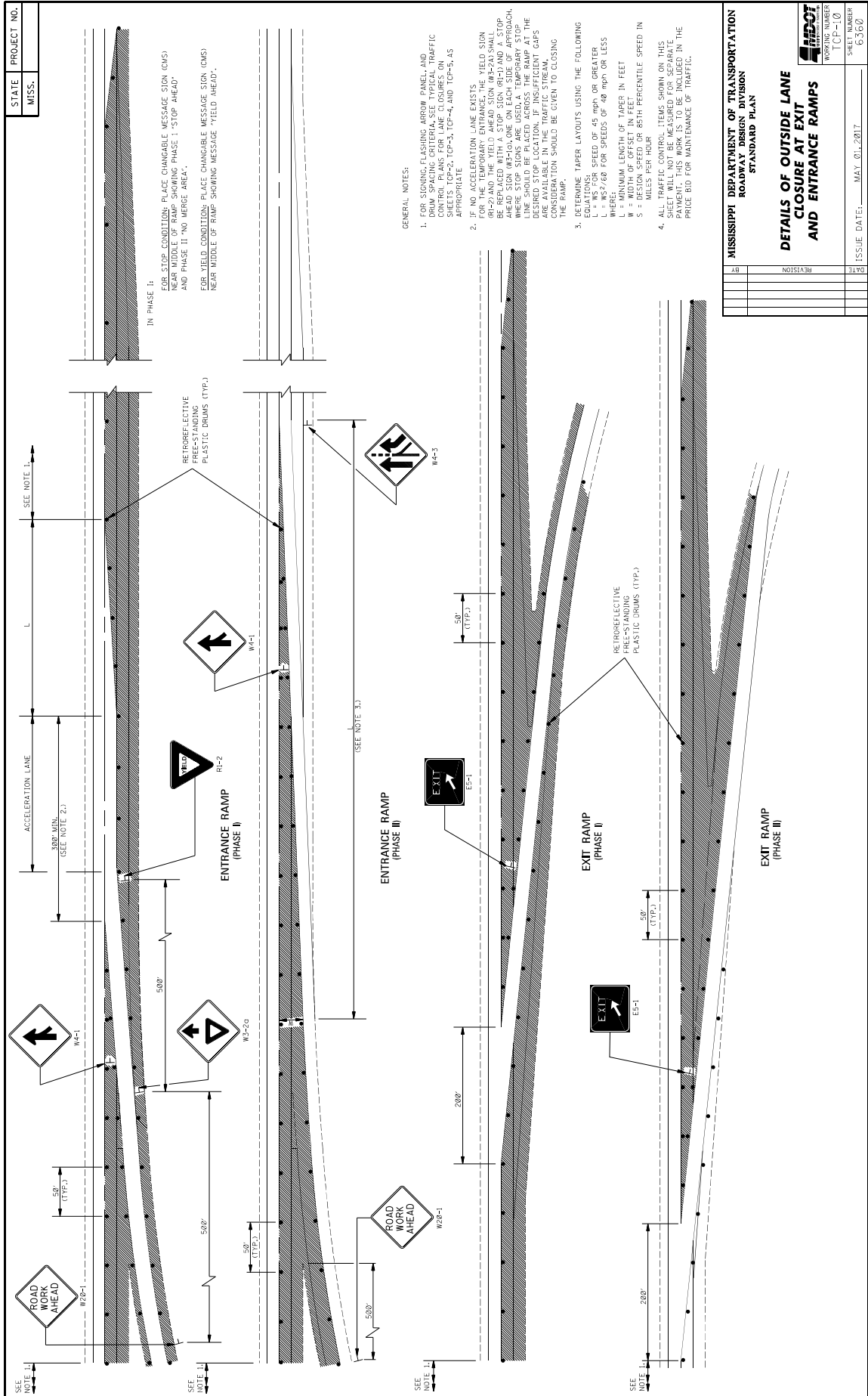
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

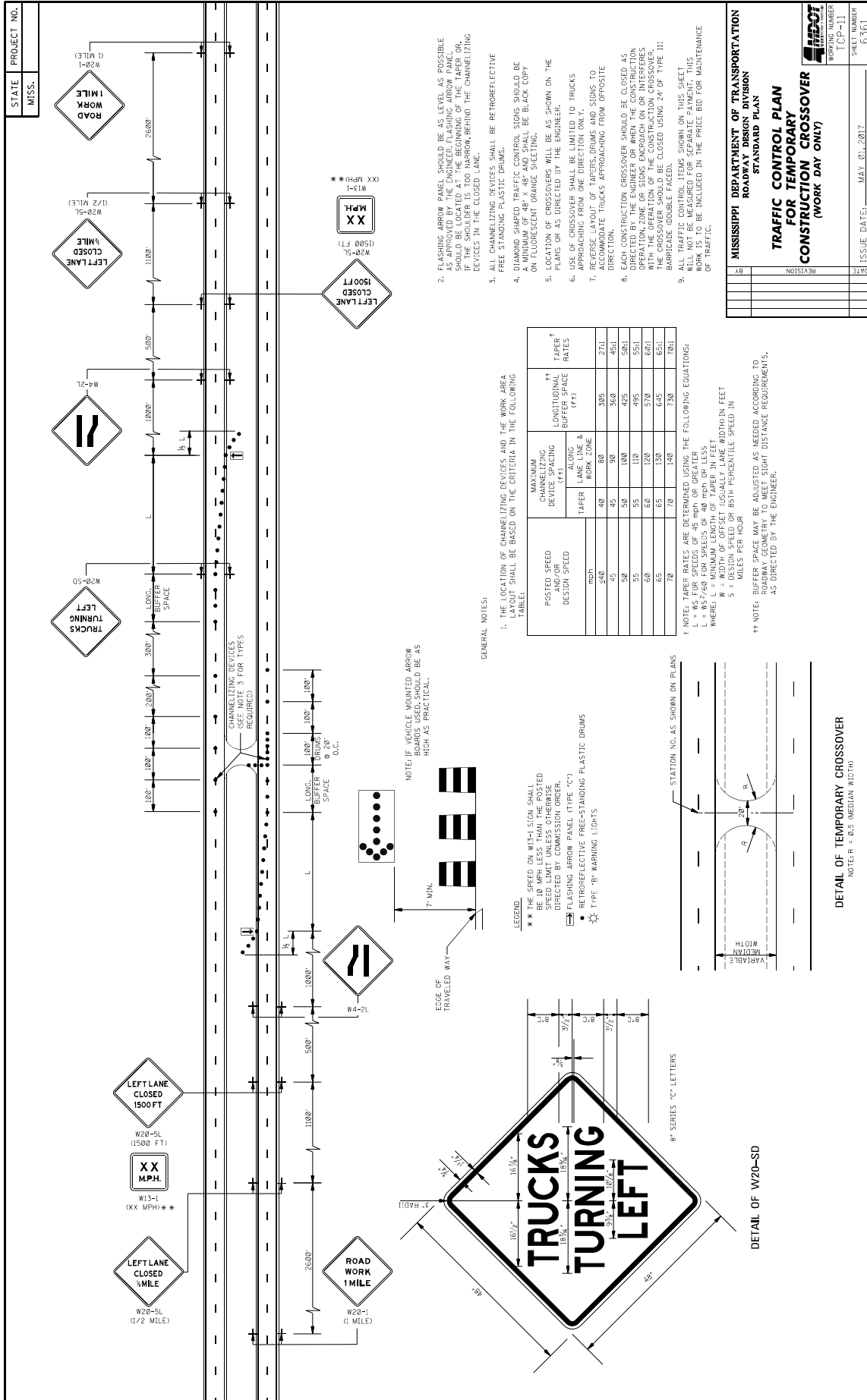
TRAFFIC CONTROL PLAN
MOBILE OPERATIONS
MULTILANE ROADS
TWO-LANE ROADS

NO.	REVISION	DATE

ISSUE DATE: MAY 01, 2017

SHEET NUMBER TCP-9	PROJECT NUMBER G339
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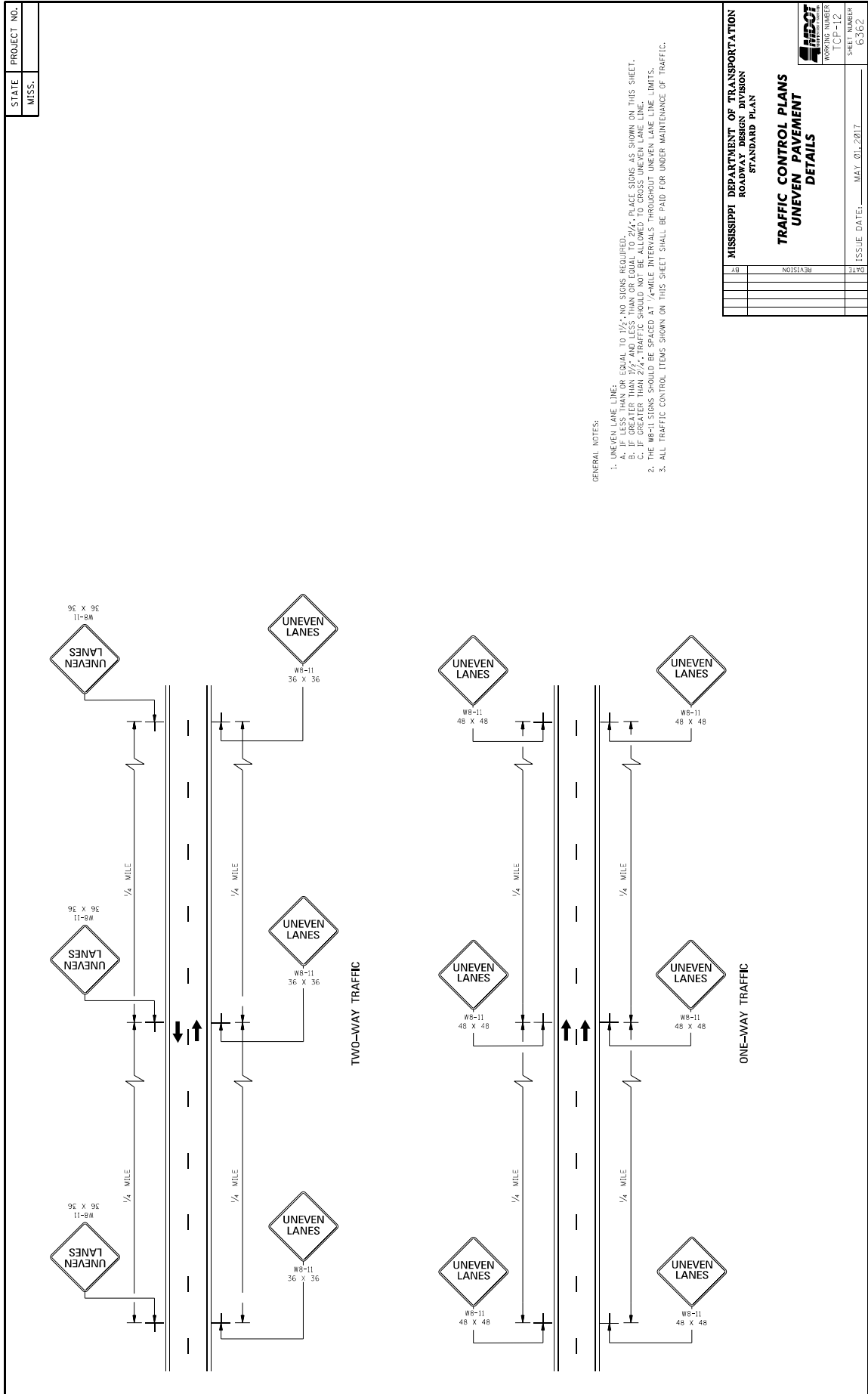


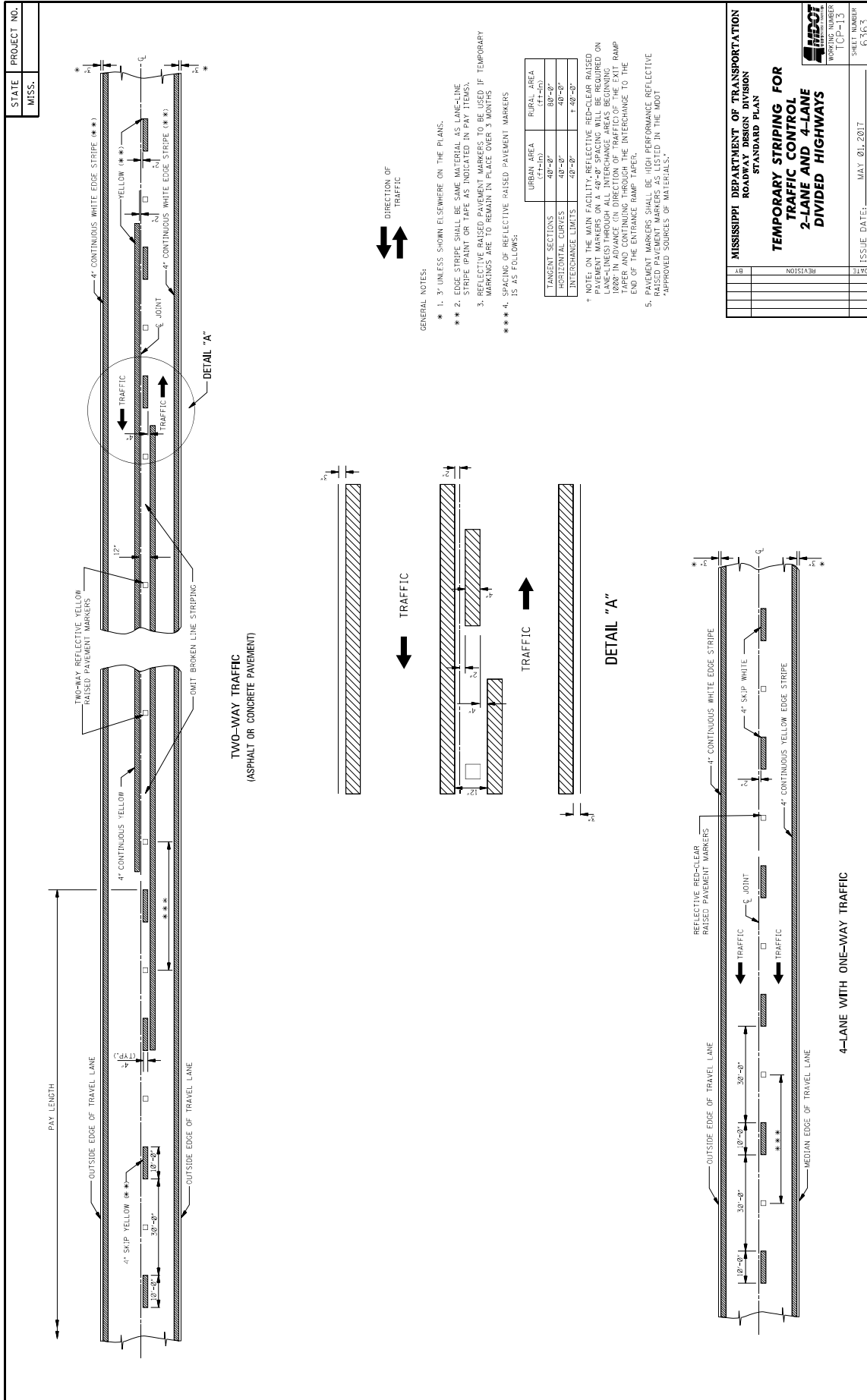


MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN
TRAFFIC CONTROL PLAN
FOR TEMPORARY
CONSTRUCTION CROSSOVER
(WORK DAY ONLY)

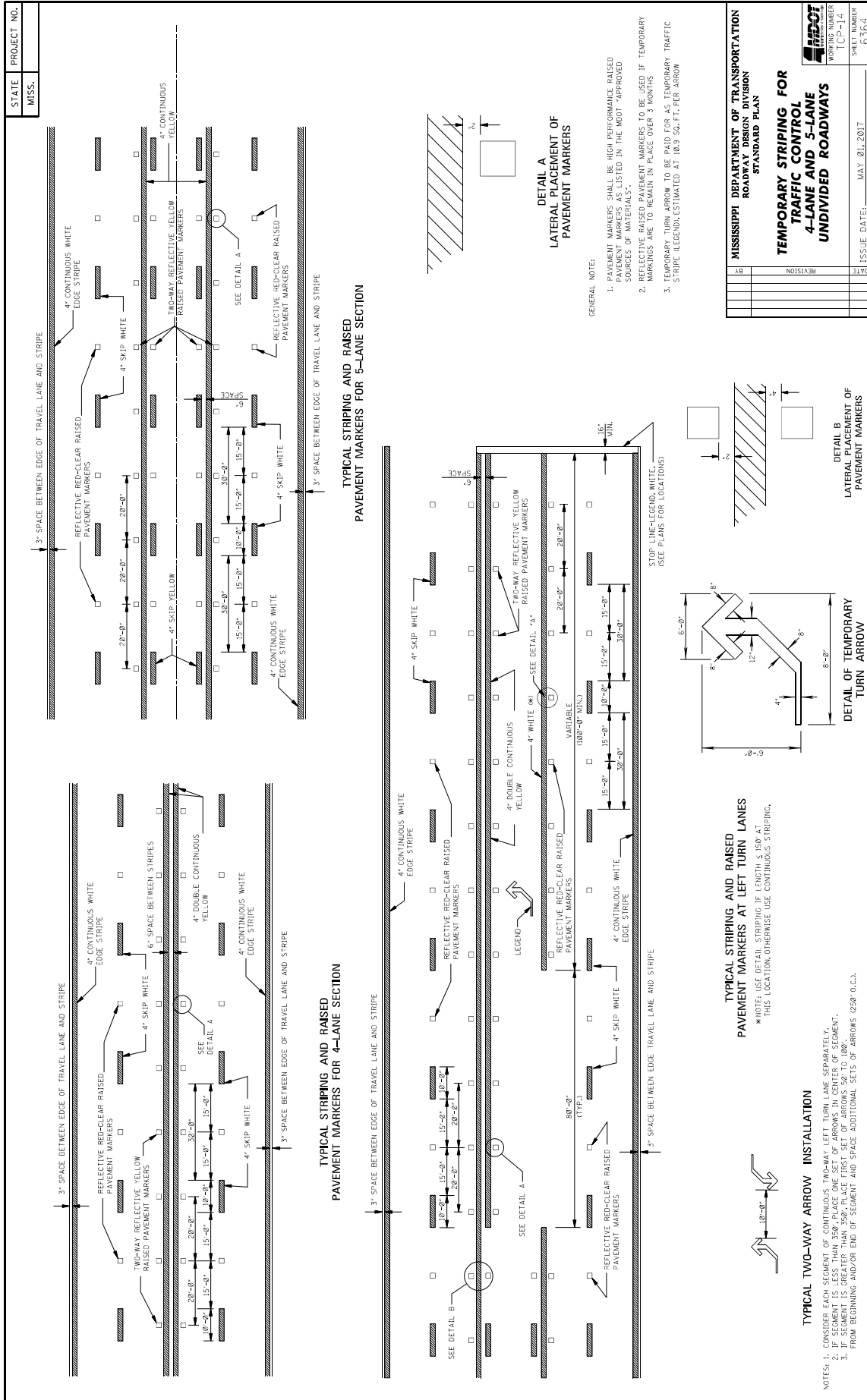
WORKING NUMBER: TCP-11
SHEET NUMBER: 6361

ISSUE DATE: MAY 01, 2017





MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
TEMPORARY STRIPING FOR	
2-LANE AND 4-LANE	
DIVIDED HIGHWAYS	
WORKING NUMBER TCP-113	SHEET NUMBER 6363
REVISION	ISSUE DATE: MAY 01, 2017



STATE	PROJECT NO.
MISS.	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN
**LOCATION OF R16-3 SIGNS
 (SPEEDING FINES DOUBLED)**

ISSUE DATE: MAY 20, 2017
 SHEET NUMBER: ICF-15
 PROJECT NUMBER: G-3563

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

INTERCHANGE DETAIL

NOTES:

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

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

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

SIGN		DIMENSIONS (INCHES)												
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
STD.	6-00	48	36	1 1/4	5 1/4	4	4	1 1/4	3	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
STD.	3	1 5/8	1 1/4	2 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
SIGN		DIMENSIONS (INCHES)												
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
STD.	3	47/8	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4

STATE MISS.	PROJECT NO.	
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TYPICAL SHOULDER CLOSURE

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

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

TYPICAL SHOULDER WORK #2

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

DETAIL OF DRUM PLACEMENT AT PAVEMENT EDGE DROP-OFF

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

NOTES:

- * A. PAVEMENT EDGE DROP-OFF
 1. IF LESS THAN TWO AND ONE QUARTER (2.25) INCHES-NO PROTECTION REQUIRED. PLACE A SHOULDER SIGN (W21-5) 500 FEET IN ADVANCE OF WORK ZONE SHOULDER AND A LOW SHOULDER SIGN (W8-9) AT THE BEGINNING AND THROUGHOUT THE WORK ZONE B (1538'+O.C.).
 2. TWO AND ONE QUARTER TO THREE INCHES-PLACE DRUMS, VERTICAL PANELS OR BARRICADES EVERY 120 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MILES PER HOUR OR GREATER. CONES MAY BE USED IN PLACE OF DRUMS, PANELS, AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MILES PER HOUR AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING FOR TAPERS SHOULD BE IN ACCORDANCE WITH THE MULTIPLIER $L/3L$, WHERE L IS THE TAPER LENGTH IN FEET.
 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. TANGENTS = $2 \times S$
 2. WHERE $S =$ SPEED IN MPH (POSTED OR 85 PERCENTILE)
 3. WHERE $L =$ TAPER LENGTH IN FEET
 4. WHERE $W =$ WIDTH OF OFFSET IN FEET
- C. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER MAINTENANCE OF TRAFFIC.

TABLE V-1. GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE	
X = SPEED (MPH)	LENGTH (FEET)
25	35
30	45
35	55
40	65
45	75
50	85
55	95
60	105
65	115

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

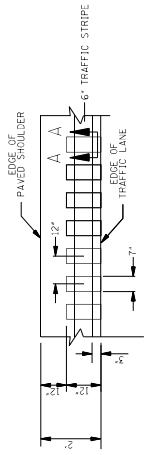
TRAFFIC CONTROL DETAILS
DRUM PLACEMENT
SHOULDER CLOSURE

REVISION	DATE

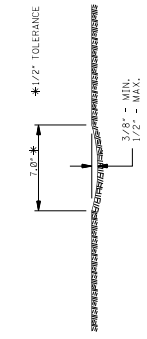
ISSUE DATE: MAY 01, 2017
SHEET NUMBER: T-CP-16
PROJECT NUMBER: G5366

STATE	PROJECT NO.
MISS.	

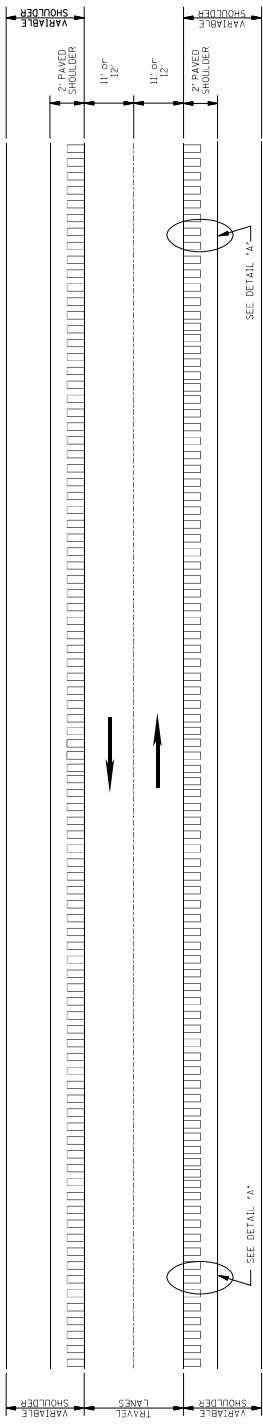
- GENERAL NOTES
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED ON LEFT AND RIGHT SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT.
 - GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS ON ROADWAYS OR OTHER INTERUPTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
 - COST TO BE PAID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



DETAIL "A"



SECTION "A-A"



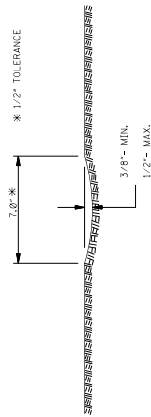
PLAN
NOT TO SCALE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN	
RUMBLE STRIPES 2-LANE HIGHWAYS (ASPHALT LANES, 2-FT ASPHALT SHOULDERS)	
WORKING NUMBER RS-1	SHEET NUMBER 606-1
DATE	ISSUE DATE: MAY 21, 2017
BY	REVISION

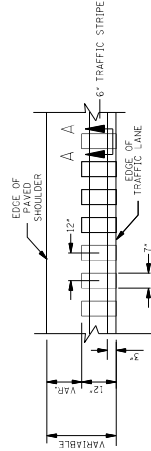
STATE	PROJECT NO.
MISS.	

GENERAL NOTES

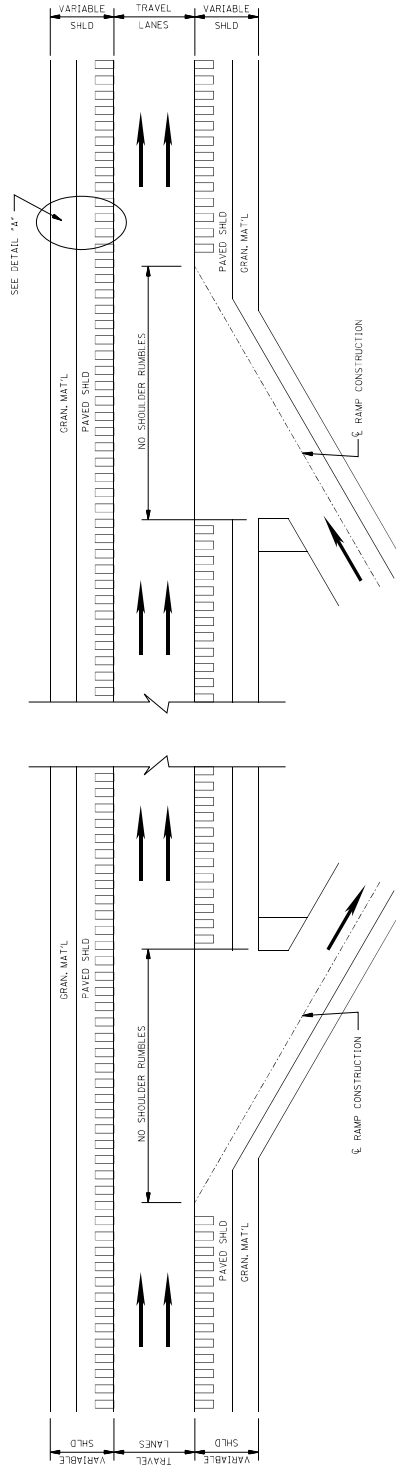
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED ON LEFT AND RIGHT SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT.
- GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS ON ROADWAYS OR OTHER INTERRUPTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
- COST TO BE PAID FOR USING APPROPRIATE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




SECTION "A-A"



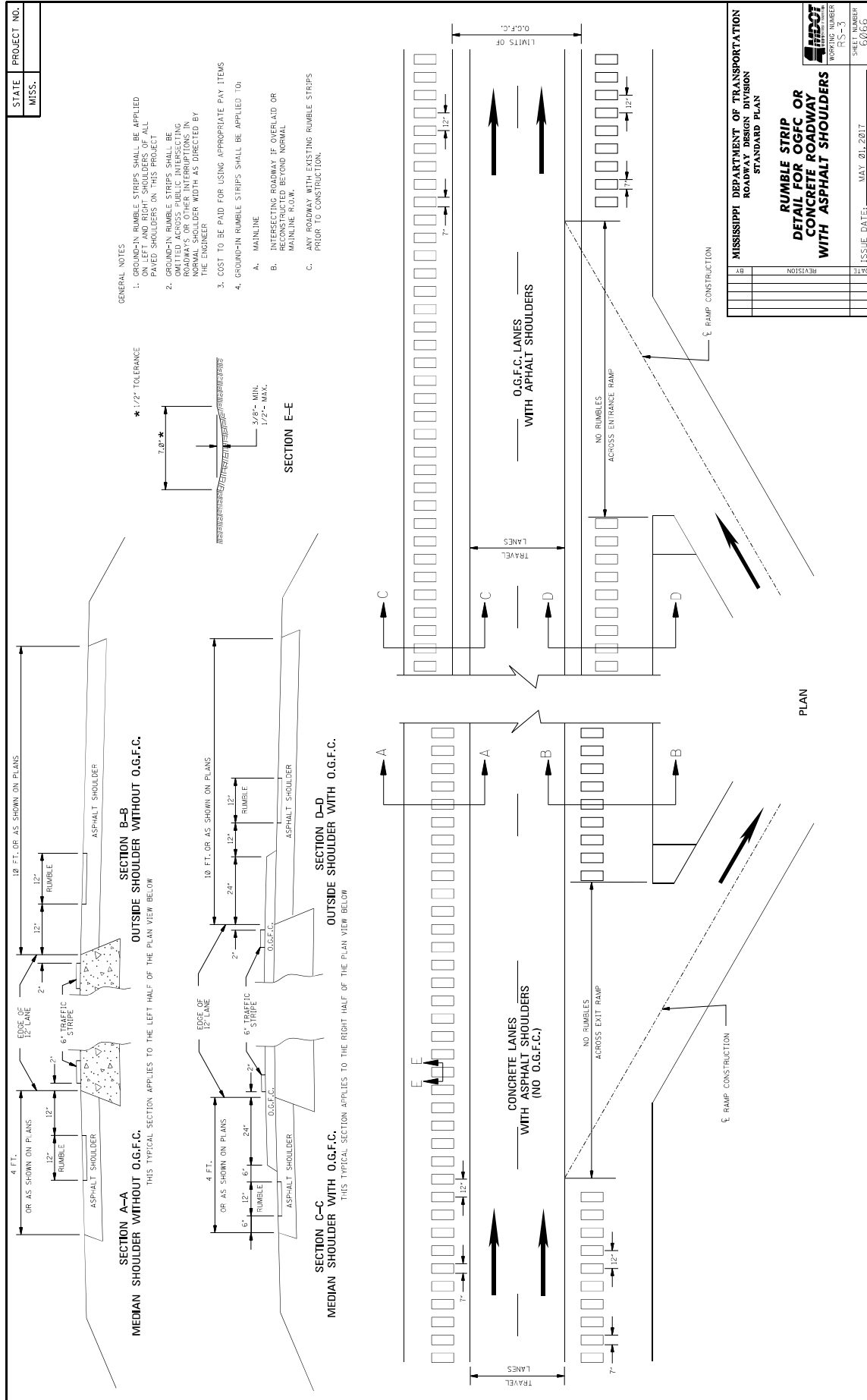
DETAIL "A"



PLAN
NOT TO SCALE
DETAILS OF
RUMBLE STRIPES

MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN		 WORKING NUMBER R-3-2 SHEET NUMBER 6065	
BY	REVISION	DATE	ISSUE DATE: MAY 01, 2017

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



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 445

CODE: (SP)

DATE: 10/10/2017

SUBJECT: Mississippi Agent or Qualified Nonresident Agent

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 516

CODE: (IS)

DATE: 11/28/2017

SUBJECT: Errata and Modifications to the 2017 Standard Specifications

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 977

CODE: (IS)

DATE: 07/25/2018

SUBJECT: DUNS Requirement for Federal Funded Projects

Bidders are advised that the Prime Contractor must maintain a current registration in the System for Award Management (<http://www.sam.gov>) at all times during this project. A Dun and Bradstreet Data Universal Numbering System (DUNS) Number (<http://www.dnb.com>) is one of the requirements for registration in the System for Award Management.

Bidders are also advised that prior to the award of this contract, they MUST be registered, active, and have no active exclusions in the System for Award Management.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1225

CODE: (SP)

DATE: 11/13/2018

SUBJECT: Early Notice to Proceed

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1226

CODE: (IS)

DATE: 11/16/2018

SUBJECT: Material Storage Under Bridges

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1241

CODE: (IS)

DATE: 11/27/2018

SUBJECT: Fuel and Material Adjustments

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2206

CODE: (IS)

DATE: 01/14/2020

SUBJECT: MASH Compliant Devices

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

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2207

CODE: (IS)

DATE: 01/08/2020

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, fluorescent yellow, and fluorescent yellow/green sheeting shall be Type XI sheeting.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2273

CODE: (SP)

DATE: 02/12/2020

SUBJECT: Mississippi Special Fuel Tax Law

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

Gasoline and Dyed Diesel Used for Non-Highway Purposes

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

Gasoline Used for Non-Highway Purposes

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

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

Refund Gasoline User

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

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

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

Refund Gasoline Dealer

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

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

Dyed Diesel Used for Non-Highway Purposes

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

Dyed Diesel Used on the Highway

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

Identifying Dyed Diesel

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



Special Fuel Used on Government Contracts

State and Local Government Contracts

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

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

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

Special Fuel Direct Pay Permit

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

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

Special Fuel Distributors

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

Environmental Protection Fee

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

Penalties

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



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO NOTICE TO BIDDERS NO. 2611

DATE: 05/02/2020

The goal is 1 percent for the Disadvantaged Business Enterprise. All Bidders are required to submit Form OCR-481 for all DBEs. Bidders are advised to check the bid tabulation link for this project on the MDOT website at:

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

Bid tabulations are usually posted by 3:00 pm on Letting Day.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2611

CODE: (IS)

DATE: 05/21/2020

SUBJECT: Disadvantaged Business Enterprises In Federal-Aid Highway Construction

This contract is subject to the "Moving Ahead for Progress in the 21st Century Act (MAP-21)" and applicable requirements of "Title 49, Code of Federal Regulations, Part 26." Portions of the Act are set forth in this Notice as applicable to compliance by the Contractor and all of the Act, and the MDOT DBE Program, is incorporated by reference herein.

The Department has developed a Disadvantaged Business Enterprise Program that is applicable to this contract and is made a part thereof by reference.

Copies of the program may be obtained from:

Office of Civil Rights
Mississippi Department of Transportation
P. O. Box 1850
Jackson, Mississippi 39215-1850

POLICY

It is the policy of the Mississippi Department of Transportation to provide a level playing field, to foster equal opportunity in all federally assisted contracts, to improve the flexibility of the DBE Program, to reduce the burdens on small businesses, and to achieve that amount of participation that would be obtained in a non-discriminatory market place. In doing so, it is the policy of MDOT that there will be no discrimination in the award and performance of federally assisted contracts on the basis of race, color, sex, or national origin.

ASSURANCES THAT CONTRACTORS MUST TAKE

MDOT will require that each contract which MDOT signs with a sub-recipient or a Contractor, and each subcontract the Prime Contractor signs with a Subcontractor, includes the following assurances:

“The Contractor, sub-recipient or Subcontractor shall not discriminate on the basis of race, color, sex, or national origin in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR 26 in the award and administration of federally assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as MDOT deems appropriate.”

DEFINITIONS

For purposes of this provision the following definitions will apply:

"Disadvantaged Business" means a small business concern: (a) which is at least 51 percent owned by one or more socially and economically disadvantaged individual(s) or in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more socially and economically disadvantaged individual(s); and (b) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individual(s) who own it. It is important to note that the business owners themselves must control the operations of the business. Absentee ownership or title ownership by an individual who does not take an active role in controlling the business is not consistent with eligibility as a DBE under 49 CFR Part 26.71.

CONTRACTOR'S OBLIGATION

The Contractor and all Subcontractors shall take all necessary and reasonable steps to ensure that DBE firms can compete for and participate in the performance of a portion of the work in this contract and shall not discriminate on the basis of race, color, sex, or national origin. Failure on the part of the Contractor to carry out the DBE requirements of this contract constitutes a breach of contract and after proper notification the Department may terminate the contract or take other appropriate action as determined by the Department.

When a contract has a zero percent (0%) DBE goal, the Contractor still has the responsibility to take all necessary and reasonable steps to ensure that DBE firms can compete for and participate in the performance of the work in the contract. In this case, all work performed by a certified DBE firm is considered to be a “race neutral” measure and the Department will receive DBE credit towards the overall State goals when the DBE firm is paid for their work. If the Prime Contractor is a certified DBE firm, the Department can receive DBE credit only for the work performed by the Prime Contractor’s work force or any work subcontracted to another DBE firm. Work performance by a non-DBE Subcontractor is not eligible for DBE credit.

CONTRACT GOAL

The goal for participation by DBEs is established for this contract in the attached Supplement. The Contractor shall exercise all necessary and reasonable steps to ensure that participation is equal to or exceeds the contract goal.

If the percentage of the contract that is proposed for DBEs is 1% or greater, the Contractor shall agree to meet or exceed the contract goal on the last bid sheet of the proposal.

All Bidders shall submit to the Office of Civil Rights Form OCR-481, signed by the Prime Contractor and the DBE Subcontractors, no later than the 3rd business day after opening of the bids.

Form OCR-481 is available on the MDOT website at www.mdot.ms.gov under the Civil Rights tab, or by calling 601-359-7466.

The OCR-481 Form must contain the following information:

The name and address of each certified DBE Contractor / Supplier;

The Reference Number, percent of work to be completed by the DBE subcontractor and the dollar amount of each item. If a portion of an item is subcontracted, a breakdown of that item including quantities and unit price must be attached, detailing what part of the item the DBE firm is to perform and who will perform the remainder of the item.

If the DBE Commitment shown on the last bid sheet of the proposal, does not equal or exceed the contract goal, the bidder must submit, to MDOT Contract Administration Division prior to bid opening, information to satisfy the Department that adequate good faith efforts have been made to meet the contract goal.

Failure of the lowest bidder to furnish acceptable proof of good faith efforts, submitted to MDOT Contract Administration Division prior to bid opening, shall be just cause for rejection of the proposal. Award may then be made to the next lowest responsive bidder or the project may be re-advertised.

GOOD FAITH EFFORTS

The following factors are illustrative of matters the Department will consider in judging whether or not the bidder has made adequate good faith effort to satisfy the contract goal.

- (1) Whether the bidder attended the pre-bid meeting that was scheduled by the Department to inform DBEs of subcontracting opportunities;
- (2) Whether the bidder advertised in general circulation, trade association, and minority-focus media concerning the subcontracting opportunities;
- (3) Whether the bidder provided written notice to a reasonable number of specific DBEs that their interest in the contract is being solicited;
- (4) Whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainty whether they were interested;
- (5) Whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goal;
- (6) Whether the bidder provided interested DBEs with adequate information about the plans, specifications and requirements of the contract;

- (7) Whether the bidder negotiated in good faith with interested DBEs and did not reject them as unqualified without sound reasons based on a thorough investigation of their capabilities; and
- (8) Whether the bidder made efforts to assist interested DBEs in obtaining any required bonding or insurance.
- (9) Whether the bidder has written notification to certified DBE Contractors soliciting subcontracting for items of work in the contract.
- (10) Whether the bidder has a statement of why an agreement was not reached.
- (11) Proof of written notification to certified DBE Contractors by certified mail that their interest is solicited in subcontracting the work defaulted by the previous DBE or in subcontracting other items of work in the contract.

The bidder’s execution of the signature portion of the proposal shall constitute execution of the following assurance:

The bidder hereby gives assurance pursuant to the applicable requirements of "Moving Ahead for Progress in the 21st Century Act (MAP-21)" and applicable requirements of "Title 49, Code of Federal Regulations, Part 26" that the bidder has made a good faith effort to meet the contract goal for DBE participation for which this proposal is submitted.

DIRECTORY

A list of “Certified DBE Contractors” which have been certified as such by the Mississippi Department of Transportation and other Unified Certification Partners (UPC) can be found on the Mississippi Department of Transportation website at www.mdot.ms.gov. The list is in the top left corner of the current Letting Calendar under Contracts & Letting. The DBE firm must be certified at the time the project is let and approved by MDOT to count towards meeting the DBE goal.

REPLACEMENT

If a DBE Subcontractor cannot perform satisfactorily, and this causes the OCR-481 commitment to fall below the contract goal, the Contractor shall take all necessary reasonable steps to replace the DBE with another certified DBE Subcontractor or submit information to satisfy the Mississippi Department of Transportation that adequate good faith efforts have been made to replace the DBE. The good faith efforts outlined previously in this document still apply. The replacement DBE must be a DBE who was on the Department's list of "Certified DBE Contractors" when the job was let, and who is still active. All DBE replacements must be approved by the Department.

Under no circumstances shall the Prime or any Subcontractor perform the DBE's work (as shown on the OCR-481) without prior written approval from the Department. See "Sanctions" at the end of this document for penalties for performing DBE's work.

When a Contractor proposes to substitute/replace/terminate a DBE that was originally named on the OCR-481, the Contractor must obtain a release, in writing, from the named DBE explaining why the DBE Subcontractor cannot perform the work. A copy of the original DBE's release must be attached to the Contractor's written request to substitute/replace/terminate along with appropriate Subcontract Forms for the substitute/replacement/terminated Subcontractor, all of which must be submitted to the DBE Coordinator and approved, in advance, by MDOT.

PRE-BID MEETING

A pre-bid meeting will be held in the [Commission Room on the 1st Floor](#) of the [MDOT Administration Building](#) in Jackson, at 2:00 P.M. on the day preceding the date of the bid opening.

This meeting is to inform DBE firms of subcontracting and material supply opportunities. Attendance at this meeting is considered of prime importance in demonstrating good faith effort to meet the contract goal.

PARTICIPATION / DBE CREDIT

Participation shall be counted toward meeting the goal in this contract as follows:

- (1) If the Prime Contractor is a certified DBE firm, only the value of the work actually performed by the DBE Prime can be counted towards the project goal, along with any work subcontracted to a certified DBE firm.
- (2) If the Contractor is not a DBE, the work subcontracted to a certified DBE Contractor will be counted toward the goal.
- (3) The Contractor may count toward the goal a portion of the total dollar value of a contract with a joint venture eligible under the standards of this provision equal to the percentage of the DBE partner in the joint venture.
- (4) Expenditures to DBEs that perform a commercially useful function may be counted toward the goal. A business is considered to perform a commercially useful function when it is responsible for the execution of a distinct element of the work and carries out its responsibilities by actually performing, managing, and supervising the work involved.
- (5) The Contractor may count 100% of the expenditures for materials and supplies obtained from certified DBE suppliers and manufacturers that produce goods from raw materials or substantially alters them for resale provided the suppliers and manufacturers assume the actual and contractual responsibility for the provision of the materials and supplies. The Contractor may count sixty percent (60%) of the expenditures to suppliers that are not

manufacturers, provided the supplier performs a commercially useful function in the supply process. Within 30 days after receipt of the materials, the Contractor shall furnish to the DBE Coordinator invoices from the certified supplier to verify the DBE goal.

- (6) Any work that a certified DBE firm subcontracts or sub-subcontracts to a non-DBE firm will not count towards the DBE goal.
- (7) Only the dollars actually paid to the DBE firm may be counted towards the DBE goal. The participation of a DBE Firm cannot be counted towards the Prime Contractor's DBE goal until the amount being counted towards the goal has been paid to the DBE.

AWARD

Award of this contract to the low bidder will be contingent upon the following conditions:

- (1) Concurrence from Federal Highway Administration, when applicable.
- (2) **All Bidders** must submit to the Office of Civil Rights for approval, Form OCR-481 (DBE Commitment) no later than the 3rd business day after opening of the bids to satisfy the Department and that adequate good faith efforts have been made to meet the contract goal. For answers to questions regarding Form OCR-481, contact the MDOT Office of Civil Rights at (601) 359-7466.
- (3) Bidder must include OCR-485 information with their bid proposal listing all firms that submitted quotes for material supplies or items to be subcontracted. OCR-485 information must be **signed and** included with the bid proposal. If the OCR-485 information is not included as part of bid proposal, your bid will be deemed irregular.

Prior to the start of any work, the bidder must notify the Project Engineer, in writing, of the name of the designated "DBE Liaison Officer" for this project. This notification must be posted on the bulletin board at the project site.

DEFAULT

If the contract goal established by MDOT in this proposal is 1% or greater, it must be met to fulfill the terms of the contract. The Contractor may list DBE Subcontractors and items that exceed MDOT's contract goal, but should unforeseen problems arise that would prevent a DBE from completing its total commitment percentage, the Contractor will meet the terms of the contract as long as it meets or exceeds MDOT's Contract Goal. For additional information, refer to "Replacement" section of this Notice.

DBE REPORTS

- (1) OCR-481: Refer to "CONTRACT GOAL" section of this Notice to Bidders for information regarding this form.

- (2) OCR-482: At the conclusion of the project, before the final estimate is paid and the project is closed out, the Prime Contractor will submit to the Project Engineer for verification of quantities and further handling Form OCR-482 whereby the Contractor certifies to the amounts of payments made to all Contractors / Suppliers over the life of the contract. The Project Engineer shall submit the completed Form OCR-482 to the DBE Coordinator (Office of Civil Rights). Final acceptance of the project is dependent upon Contract Administration Division's receipt of completed Form OCR-482 which they will receive from the Office of Civil Rights.
- (3) OCR-483: The Project Engineer/Inspector will complete Form OCR-483, the Commercially Useful Function (CUF) Performance Report, in accordance with MDOT S.O.P. No. OCR-03-05-02-483. Evaluations reported on this form are used to determine whether or not the DBE firm is performing a CUF. The Prime Contractor should take corrective action when the report contains any negative evaluations. DBE credit may be disallowed and/or other sanctions imposed if it is determined the DBE firm is not performing a CUF. This form should also be completed and returned to the DBE Coordinator (Office of Civil Rights).
- (4) OCR-484: Each month, the Prime Contractor will submit to the Project Engineer OCR-484 that certifies payments to all Subcontractors and shows all firms even if the Prime Contractor has paid no monies to the firm during that estimate period (negative report). The Project Engineer will attach the form to the monthly estimate before forwarding to the Contract Administration Division for further processing. Failure of the Contractor to submit the OCR-484 will result in the estimate not being processed and paid.
- (5) OCR-485: ALL BIDDERS must submit signed form with bid proposal of all firms that submitted quotes for material supplies or items to be subcontracted. If the OCR-485 information is not included as part of bid proposal, the bid will be deemed irregular.
- (6) OCR-487: Only used by Prime Contractors that are certified DBE firms. This form is used in determining the exact percentage of DBE credit for the specified project. The low Bidder should return this form to MDOT with the OCR-481 form, or can also be returned with the Permission to Subcontract Forms (CAD-720, CAD-725 and CAD-521).

DBE Forms, can be obtained from the Office of Civil Rights Division, MDOT Administration Building, 401 North West Street, Jackson, MS, or at www.mdot.ms.gov under the Civil Rights tab.

SANCTIONS

The Department has the option to enforce any of the following penalties for failure of the Prime Contractor to fulfill the DBE goal as stated on the OCR-481 form or any violations of the DBE program guidelines:

- (1) Disallow credit towards the DBE goal

(2) Withhold progress estimate payments

(3) Deduct from the final estimate or recover an amount equal to the unmet portion of the DBE goal which may include additional monetary penalties as outlined below based on the number of offenses and the severity of the violation as determined by MDOT.

1 st Offense	10% of unmet portion of goal	or	\$5,000 lump sum payment	or	Both
2 nd Offense	20% of unmet portion of goal	or	\$10,000 lump sum payment	or	Both
3 rd Offense	40% of unmet portion of goal	or	\$20,000 lump sum payment	or	\$20,000 lump sum payment and debarment

(4) Debar the Contractor involved from bidding on MDOT federally funded projects for a period of up to 12 months after notification by certified email.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2689

CODE: (SP)

DATE: 7/17/2020

SUBJECT: Contract Time

PROJECT: NHPP-0020-01(251) / 108284301 – 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 September 8, 2020 and the date for Notice to Proceed / Beginning of Contract Time will be October 8, 2020.

Should the Contractor request a Notice to Proceed earlier than October 8, 2020 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.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2690

DATE: July 15, 2020

SUBJECT: Specialty Items

PROJECT: NHPP-0020-01(251)/108284301 - RANKIN

Pursuant to the provisions of Section 108, the following work items are hereby designated as "Specialty Items" for this contract. Bidders are reminded that these items must be subcontracted in order to be considered as specialty items.

CATEGORY: GUARDRAIL, GUIDERAIL

Line No	Pay Item	Description
0030	606-B003	Guard Rail, Class A, Type 1, 'W' Beam, Metal Post
0040	606-D005	Guard Rail, Bridge End Section, Type A
0050	606-E005	Guard Rail, Terminal End Section, Flared

CATEGORY: TRAFFIC CONTROL - TEMPORARY

Line No	Pay Item	Description
0070	619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet
0080	619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More
0090	619-F3001	Delineators, Guard Rail, White
0100	619-G4005	Barricades, Type III, Single Faced

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 -NOTICE TO BIDDERS NO. 2691

CODE: (SP)

DATE: 07/15/2020

SUBJECT: Scope of Work

PROJECT: NHPP-0020-01(251) / 108284301 – 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." All other references to plans in the contract documents and Standard Specifications for Road and Bridge Construction are to be disregarded.

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

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

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

During construction, care shall be exercised to ensure that no debris falls into the roadway and/or railroad crossing below the structures. All debris, including any material that has accumulated on the bridge caps, shall become the property of the Contractor and shall be removed from the construction site.

Work on the project shall consist of the following:

Clearing and Grubbing:

The bridge site shall have all small brush and growth removed to the satisfaction of the Project Engineer. This work includes, but is not limited to, the brush and growth at the end bents and slope paving. This item of work shall be paid for under pay item 201-A: Clearing and Grubbing.

Bridge End Post Repair:

The bridge end post at the northeast corner of Bridge 14194 (Left Lane Bridge) at Bent 8 shall be repaired according to the provided as-built plans. The concrete used shall be Type AA. Prior to placing new concrete, all surfaces that will be in contact with new concrete shall be painted with

an epoxy binder designed to bond new concrete to old. Care shall be taken to ensure that the existing reinforcement is not damaged. Any damaged reinforcement shall be repaired by a method approved by the Director of Structures, State Bridge Engineer at no additional cost to the State. All labor and material associated with this item of work, including but not limited to concrete, reinforcement, and saw cutting shall be paid for under pay item 907-824-PP: Bridge Repair, Bridge End Post Repair.

Joint Repair & Sealing:

The joint repair shall include installation of the preformed joint seal and other necessary work per the included standard drawings or as directed by the Engineer. All concrete approach slab joints shall be sealed.

All existing joint material shall be removed within the existing joint. This includes, but is not limited to, existing joint seal, embedded trash, debris, vegetation, dirt, and asphalt at any depth within the joint.

The joints shall be sealed by one of the three approved manufacturers listed in Special Provision 907-823 and installed according to the Manufacturer's specifications.

Cap Cleaning:

The surface of all caps shall be cleaned to the satisfaction of the Engineer. All large debris shall be removed by hand. All other debris (dirt and rust) shall be removed by pressure washing to the satisfaction of the Project Engineer. All pressure washers shall be able to maintain 3,500 psi. This item of work shall be paid for under pay item 907-824-PP: Bridge Repair, Cap Cleaning.

Epoxy Repairs:

Repair concrete spalls on the bridge according to the Epoxy Repair Details to the satisfaction of the Project Engineer.

All areas of the bridge repaired with epoxy mortar shall be restored to the original dimensions and details as shown in the as-built plans, unless noted otherwise.

Materials:

- a. Epoxy Resin: Resin shall be selected from the MDOT approved materials list
- b. Silica Sand: Silica sand material shall be bagged general purpose blast cleaning sand
- c. Epoxy Mortar Mix: Epoxy mortar mix shall consist of part liquid epoxy and part clean, dry sand mixed in the ratio recommended by the manufacturer

Application:

- a. A representative of the epoxy manufacturer must be present for sufficient time to ensure the Contractor is properly schooled in the use of the epoxy materials.
- b. Prior to placement of the mortar mix, the prepared surface shall be lightly primed with neat epoxy.
- c. Curing time shall be in accordance with manufacturer's recommendations.

All work and material required to perform this item of work shall be paid for under pay item 907-

824-PP: Bridge Repair, Epoxy Repair.

This item shall be bid such that this item may be increased, decreased, or eliminated as directed by the Project Engineer.

Field Painting:

Areas of minor section loss shall be cleaned and coated in an encapsulating paint. All pack rust and scale within the designated areas shall be removed by using small hand tools, mechanical process, or needle gun. All areas required to be painted containing grease films after the initial cleaning shall be cleaned with a biodegradable solvent. All debris removed from the existing structure shall become property of the Contractor and shall be disposed of properly. The Contractor shall provide technical data for the proposed encapsulating paint to be used on this project to the Project Engineer for approval by the Director of Structures, State Bridge Engineer. New paint shall be applied by hand, with either a brush or roller. All work and materials associated with debris, cleaning, and field painting shall be paid for under pay item 907-823-PP: Bridge Repair, Field Paint.

End Wall Repair:

The end walls at Bent 1 of Bridge 14194 and Bent 8 of Bridge 14187 shall be removed and replaced as shown in the provided standard drawings. The new end wall concrete shall conform to the specifications shown in the standard drawings provided. All work and materials associated with removal and repair of the end walls shall be paid for under pay item 907-824-PP: Bridge Repair, End Wall Repair.

Approach Slab Repair:

The approach slab at Bent 1 of Bridge 14194 shall be repaired concurrently with the end wall. All existing loose material shall be removed according to the Spall Repair Details provided. Once all unsound material is removed, all concrete surfaces that will be in contact with new concrete shall be painted with an approved epoxy binder designed to bond new concrete to old. The new concrete shall meet the same requirements of the end wall repair concrete. All work and materials associated with removal and repair of the approach slab shall be paid for under pay item 907-824-PP: Bridge Repair, Approach Slab Repair.

Undersealing:

Voids under the approach slabs and end bents for Bridges 14194 and 14187 shall be filled with an injectable urethane compound material meeting the requirements provided in the details provided. Prior to injection, the site shall be prepared according to the manufacturer's recommendations. Urethane shall be installed in strict accordance with the manufacturer's recommendations. All work and materials associated with filling voids under the approach slabs and end bents shall be paid for under pay item 907-420-A: Undersealing Concrete Pavement.

Transverse Stiffeners:

New transverse stiffeners shall be installed according to the details provided. All structural steel shall conform to ASTM A709 Grade 50. All steel shall be new. The new transverse stiffeners shall be vertical in final position, and shall be connected to the existing beams as shown in Detail "A". Once transverse stiffeners are installed, the new welds shall be coated in an encapsulating

paint in accordance with the field paint notes provided. All transverse stiffeners shall be installed prior to repair of the existing connection plates.

The new transverse stiffeners shall be cleaned and painted with one shop coat of inorganic zinc, one field intermediate coat of acrylic latex, and one field top coat of acrylic latex per Section 814 of the Specifications.

All labor and materials associated with this item of work shall be included under pay item 907-824-PP: Bridge Repair, Transverse Stiffeners.

Connection Plate Repair:

After new transverse stiffeners are placed as shown in the details provided, the existing damaged connection plates shall be repaired as shown in Detail "B". The areas of section loss shall be removed by used of small hand tools or mechanical process. Once the damaged portion of the connection plate is removed and finished smooth, the connection plate shall be coated in an encapsulating paint in accordance with the field painting notes provided. All labor and materials for this item of work shall be paid for under pay item 907-824-PP: Bridge Repair, Connection Plate Repair.

Weld Repair:

Welds shall be repaired in accordance with the Detail "C" and Detail "D". All welds shall be discontinued ¼" or ½" from the edge of the connected parts. All new welds shall be coated in an encapsulating paint in accordance with the field painting notes provided. All labor and materials associated with this item of work shall be paid for under pay item 907-824-PP: Bridge Repair, Weld Repair.

Pressure Relief Joint:

Pressure relief joints shall be installed at the east and west ends of Bridges 14194 and 14187. The pressure relief joints shall be installed adjacent to the approach slabs according to the details provided. All labor and materials associated with this item of work shall be paid for under pay item 907-824-PP: Bridge Repair, Pressure Relief Joint.

Riser Repair:

The risers located at Bent 4 of Bridge 14194, under Beams 1 and 2 (27 WF 94), shall be repaired according to the riser repair details provided. The damaged concrete shall be removed and repaired in accordance with the Epoxy Mortar Repair Notes and Spall Repair Details provided. All work and materials associated with the repair of the risers shall be paid for under pay item 907-824-PP: Bridge Repair, Riser Repair.

Bearing Replacements:

The bearings located at Bent 4 of Bridge 14194, under Beams 1 and 2 (27 WF 94), shall be removed and replaced after completion of the riser repairs according to the details provided. All structural steel shall conform to ASTM A709 Grade 50. All steel shall be new. The existing rocker plates shall remain in place. Existing anchor bolts shall be ground to ¼" below the concrete surface and grouted with epoxy mortar.

The bottom of the existing rocker plates shall be finished smooth to accommodate the new steel plates and painted with approved encapsulating paint in accordance with the field painting notes provided. All debris removed from the existing structure shall become property of the Contractor and shall be disposed of properly.

The new steel plates shall be cleaned and painted with one shop coat of inorganic zinc, one field intermediate coat of acrylic latex, and one field top coat of acrylic latex per Section 814 of the Specifications.

The Contractor shall be responsible for adjusting the elements of the new construction to ensure a proper fit with the existing structure.

The Contractor shall provide adequate bracing and jacking arrangements as required to replace the existing bearings. The beam end shall only be raised to ¼" from its original position. Traffic shall be maintained on the bridge during the duration of the repair.

Jacks shall be coupled to a common manifold. Jacking point shall be under the bottom flange of the beam at the bent and no jacking points will be allowed under any diaphragm or bay. After the beam is raised into position, temporary blocking shall be provided to secure the beam in this position while work is being performed. Temporary blocking points shall be under the bottom flange of the beam at the bent and no temporary blocking will be allowed under any diaphragm or bay.

Any damage to the bridge resulting from uneven or improper jacking shall be repaired by the Contractor at no additional cost to the State.

Payment for this work shall be made under pay item 907-824-PP: Bridge Repair, Bearing Replacement.

Anchor System:

Swedge anchor bolts shall meet or exceed ASTM F3125 and shall be galvanized in accordance with ASTM A153. Swedge bolt anchoring system shall be one of the following products:

- A. "HIT RE 500-V3 Epoxy Adhesive Anchor" shall be as manufactured by Hilti, Inc. www.us.hilti.com
- B. "EPCON C6+" shall be manufactured by ITW Ramset/Red Head. www.itwredhead.com
- C. "Ultrabond 1300" shall be as manufactured by Adhesives Technology Corp. www.atcepoxy.com

Installation of the anchoring system shall be in accordance with the manufacturer's recommendations. A representative of the manufacturer shall be present for sufficient time to assure that the Contractor is properly schooled in the installation of the anchoring system.

All costs associated with the anchor system shall be included in the costs under pay item 907-824-PP: Bridge Repair, Bearing Replacement.

Contractor Submittals:

Prior to any construction or fabrication, the Contractor shall comply with the following submittal requirements.

Field Verification Submittal:

All locations of the existing repair items, all dimensions of the existing bearing assemblies to be replaced, dimensions of damaged connection plates to be repaired, and all dimensions of the risers to be repaired.

Shop Drawing Submittal:

The Contractor shall submit shop drawings of the new bearing assemblies, riser repair plates, and new transverse stiffener plates to the Director of Structures, State Bridge Engineer for approval.

Welding Submittal:

- a. Certification for all welders
- b. Welding procedures
- c. Procedure for storage and handling of welding electrodes, wires, and flux
- d. A flux recovery procedure if applicable

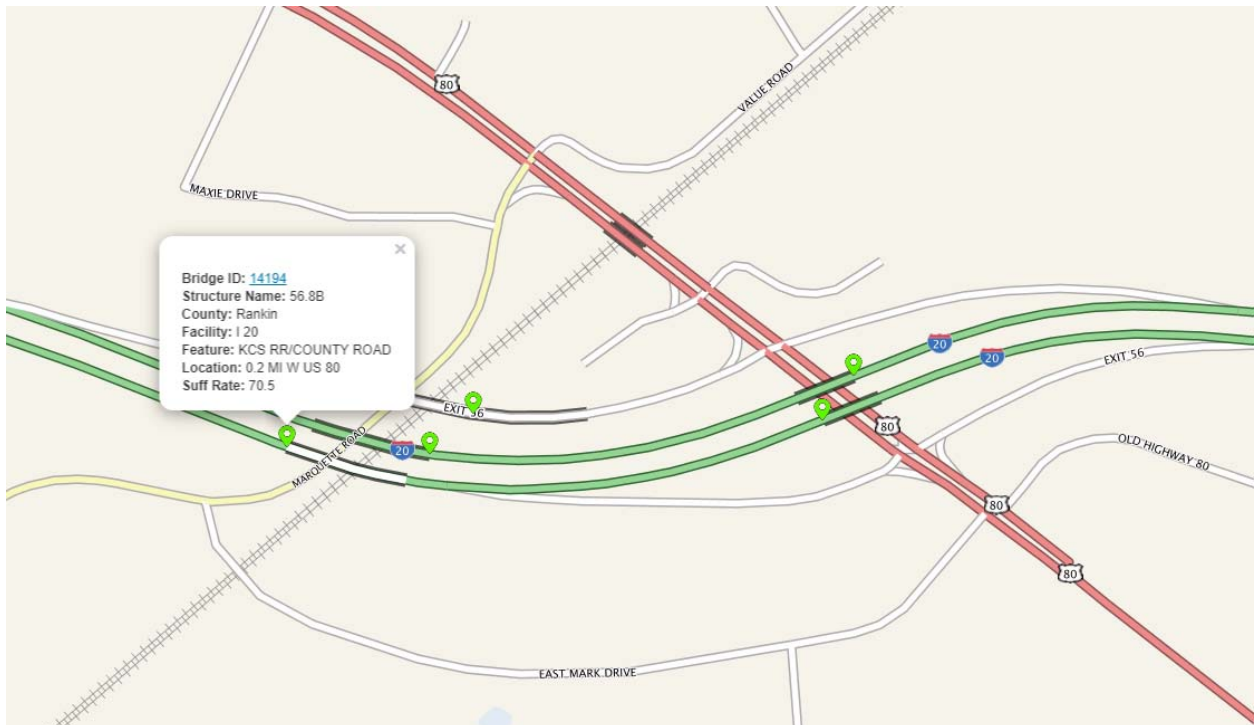
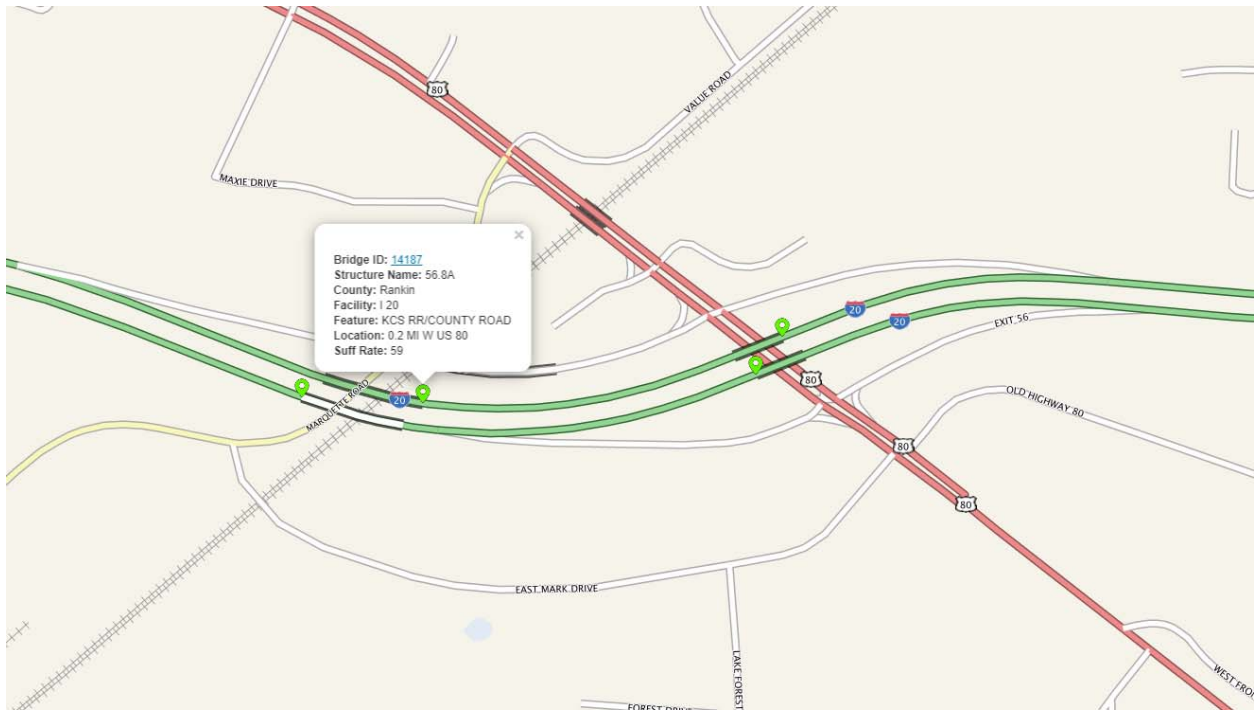
Jacking Plan Submittal:

The Contractor shall submit a set of bracing and jacking arrangement plans along with design calculations. The Contractor shall employ the services of a Mississippi registered Professional Engineer knowledgeable in the field of bridge design. The submitted plans shall bear the seal of the Professional Engineer.

Traffic Control Plan:

The Contractor shall erect and maintain construction signing and provide all signs and traffic handling devices necessary to safely maintain traffic around or through the work areas in accordance with the Traffic Control Plan. Payment shall be included in the price bid for pay item 618-A: Maintenance of Traffic.

NHPP-0020-01(251)/108284 Rankin County Project Location Map



PAY ITEM NO.	DESCRIPTION	Bridge 14194	Bridge 14187	UNITS
201-A001	Clearing and Grubbing	1	0	LS
202-B158	Removal of Guardrail, Including Rails, Posts and Terminal Ends	200	0	LF
606-B003	Guard Rail, Class A, Type 1, 'W' Beam, Metal Post	138	0	LF
606-D005	Guard Rail, Bridge End Section Type A	1	0	EA
606-E005	Guard Rail, Terminal End Section, Flared	1	0	EA
619-F3001	Delineators, Guard Rail, White	7	0	EA
907-420-A002	Undersealing Concrete Pavement	20,000	20,000	LBS
907-808-A002	Joint Repair	584	584	LF
907-823-A001	Preformed Joint Seal, Type I	292	292	LF
907-823-B001	Saw Cut, Type I	584	584	LF
907-823-PP003	Bridge Repair, Approach Slab Repair	5	0	SF
907-823-PP003	Bridge Repair, Epoxy Repair	20	20	SF
907-823-PP003	Bridge Repair, Field Paint	50	0	SF
907-824-PP006	Bridge Repair, Bridge End Post Repair	1	0	EA
907-824-PP006	Bridge Repair, Cap Cleaning	8	8	EA
907-824-PP006	Bridge Repair, Bearing Replacement	2	0	EA
907-824-PP006	Bridge Repair, Weld Repair	26	23	EA
907-824-PP006	Bridge Repair, Riser Repair	2	0	EA
907-824-PP006	Bridge Repair, Transverse Stiffeners	2	0	EA
907-824-PP006	Bridge Repair, Connection Plate Repair	2	0	EA
907-824-PP006	Bridge Repair, Pressure Relief Joint	2	2	EA
907-824-PP008	Bridge Repair, Endwall Repair	28	28	LF

PRESSURE RELIEF JOINT NOTES:
 907-B24-PP008 BRIDGE REPAIR, PRESSURE RELIEF JOINT

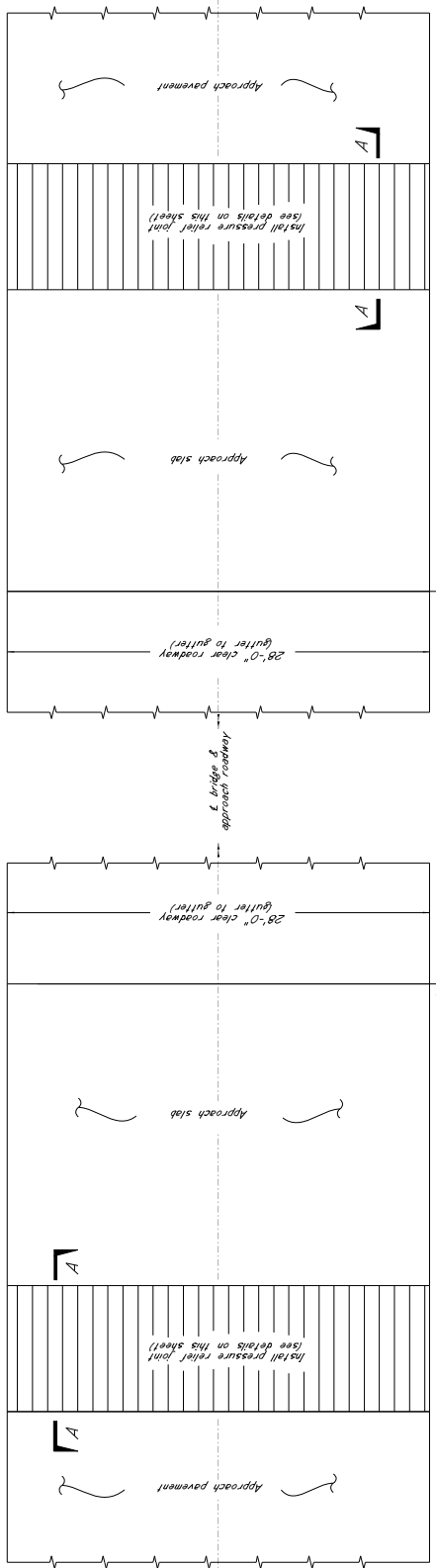
1. Pressure relief joints shall be installed on both sides of the approach pavement of each bridge end in accordance with the recommendations of the manufacturer. The repair area shall include the approach pavement in preparation for the placement of the repair material. The repair joint, as directed by the manufacturer, provided it is used with water reducing and accelerating admixtures. The joint construction shall be in accordance with the manufacturer's instructions.
2. All incidental items of work associated with the installation of the pressure relief joint, including but not limited to, sawcutting, asphalt, shall be included under this pay item.
3. The Contractor shall be aware that additional minor items of repair and payments for bid items and that compensation therefore will be included in the prices and payments for bid items, as in accordance with the applicable provisions of Section 8109 of the Specifications and any other sections specified therein.

Basis of payment: The accepted quantities shall be paid for per each pressure relief joint.

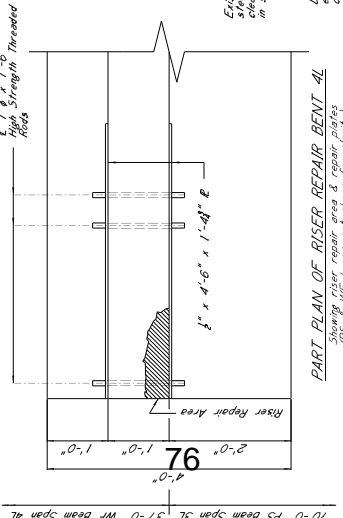
UNDERSEALING NOTES

1. Gaps under end bent caps and approach pavement are to be filled with injectable urethane compound meeting the required properties and recommendations of the manufacturer.
2. Prior to injection, the site shall be prepared according to Manufacturer's recommendations. Urethane compound shall be installed in strict accordance with urethane compound shall be included in the price for Undersealing.
3. All costs associated with filling voids underneath and behind end bent caps with urethane compound shall be included in the price for Undersealing.
4. Material as reported on packaging.

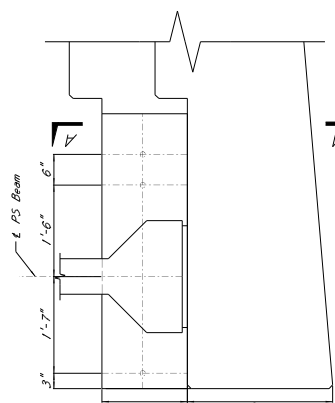
PROPERTY	MINIMUM REQUIREMENT	ASTM TEST METHOD
Density	4.0 pcf	D 1622
Tensile Strength	90 psi	D 1622
Compressive Strength	80 psi	D 1621



PLAN OF PRESSURE RELIEF JOINT PLACEMENT



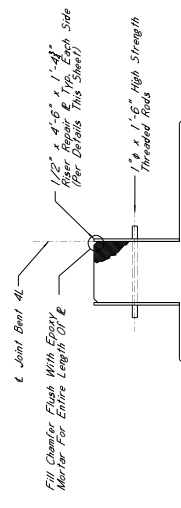
PART PLAN OF RISER REPAIR BENT 4L
 Showing riser repair area & repair plates (Riser repair for Beam 2 similar) (WP beam not shown for clarity)



PART ELEVATION OF RISER REPAIR BENT 4L
 Showing riser repair area & repair plates (Riser repair for Beam 2 similar) (WP beam not shown for clarity)



SPALL REPAIR DETAILS

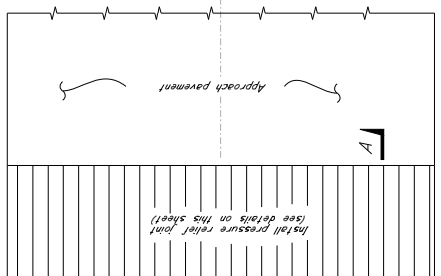


SECTION A-A
 Showing riser repair (Riser repair for Beam 2 similar) (WP beam not shown for clarity)

NOTE:
 Saw cut existing concrete 1" deep into existing reinforcement area. All existing reinforcement shall be carefully preserved and blast cleaned.

Remove all deteriorated concrete behind the existing reinforcing steel.
 Existing reinforcing steel to be cleaned and remain in structure.
 Densify area of existing spalled concrete.
 Fill new surface flush with adjacent concrete surface.
 * 90° (typ.)

Remove all deteriorated concrete behind the existing reinforcing steel.
 Existing reinforcing steel to be cleaned and remain in structure.
 Densify area of existing spalled concrete.
 Fill new surface flush with adjacent concrete surface.
 * 90° (typ.)

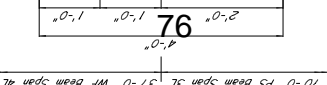


SECTION A-A

SECTION A-A

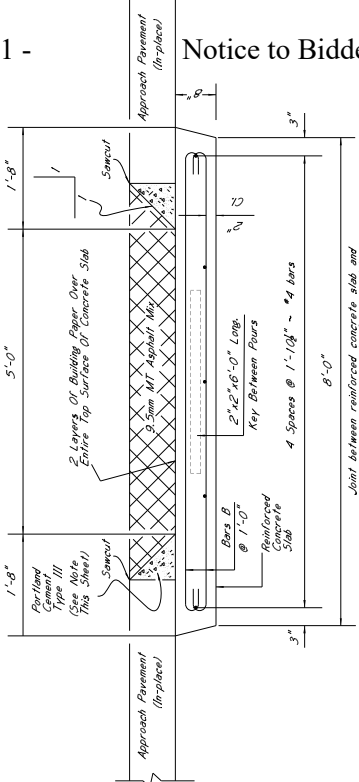
SECTION A-A

SECTION A-A



76

70'-0" PS Beam Span 3L 37'-0" WF Beam Span 4L



SECTION A-A
 Showing typical section of pressure relief joint. Install at each bridge end across full width of approach roadway.

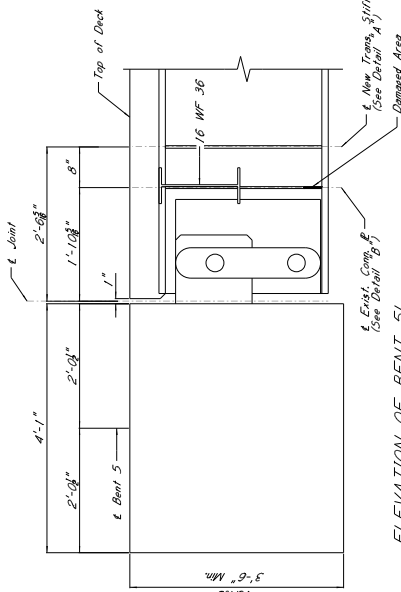
180 Hrs. (7")
 BAR B ~ #5
 BAR BENDING DETAILS
 Dimensions Are Out To Out

1/4" x 1/4" Holes For High Strength Threaded Rods

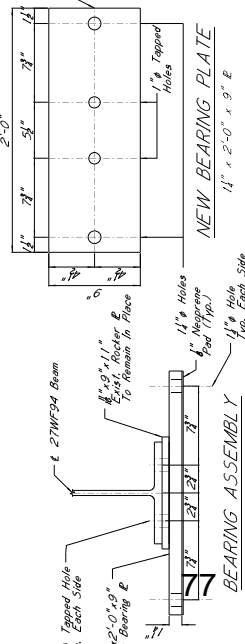
RISER REPAIR PLATE
 1/2" x 4'-6" x 1'-4 1/2" E

SECTION A-A
 Showing riser repair (Riser repair for Beam 2 similar) (WP beam not shown for clarity)

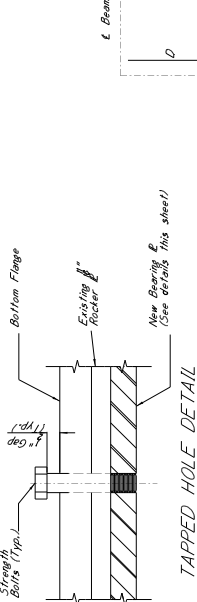
NOTE:
Discontinue all welds 1/4" or 5/8" from
originating edges & clipped corners.



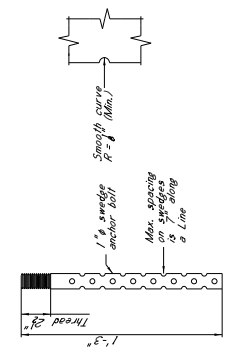
ELEVATION OF BENT 5L
Showing splayed stiffener holes & new
transverse stiffener placement.



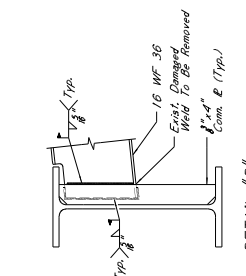
BEARING ASSEMBLY
Showing bearing assembly for
27WF36 beam at Bent 4L



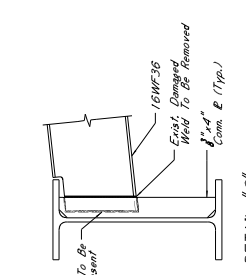
TAPPED HOLE DETAIL



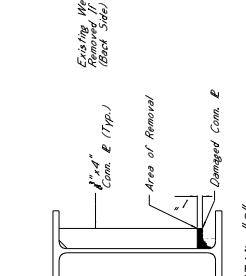
SWEDGE ANCHOR
BOLT DETAILS



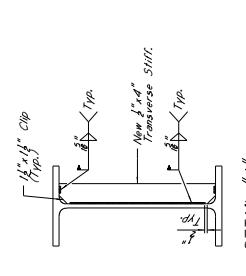
DETAIL "A"
Showing to be installed
prior to repair of damaged
connection details.



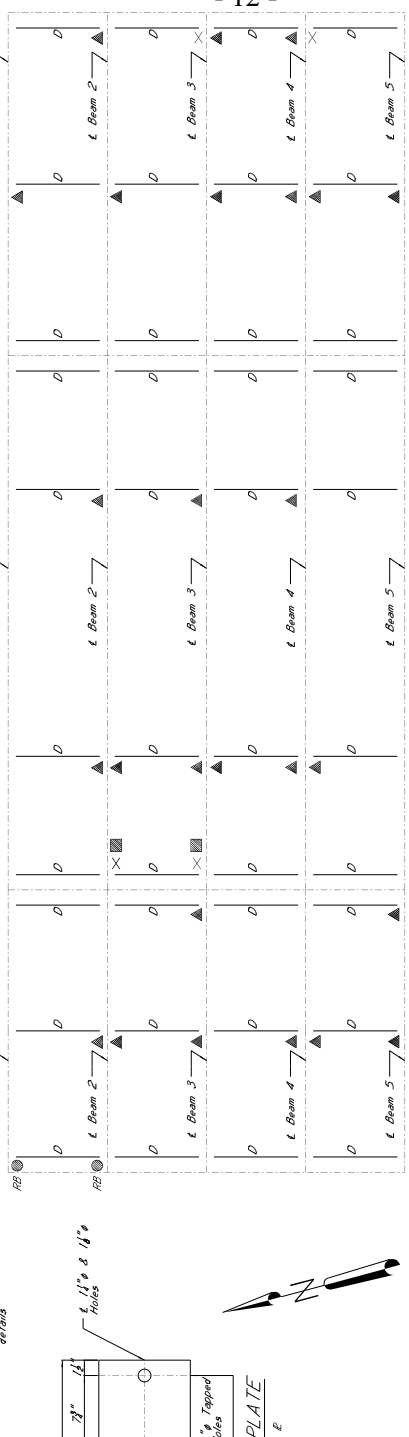
DETAIL "B"
Showing damaged
connection E.



DETAIL "C"
Showing the welds
to be removed.



DETAIL "D"
Showing new welds details.



PLAN OF LEFT LANE
Showing splayed stiffener holes, conn. E repair,
weld repair, & sledge anchor locations

PLAN OF RIGHT LANE
Showing splayed stiffener holes, conn. E repair,
weld repair, & sledge anchor locations

- LEGEND
- D - Digging
 - ▲ - Weld Repair
 - - Conn. E Repair
 - - Riser Repair
 - × - Minor Section Loss
 - RB - Replace Existing

BENT 4L BENT 5L BENT 6L BENT 7R BENT 8R BENT 5R BENT 4R

NOTES ON ASSOCIATED ITEMS OF WORK:

907-808-A002 JOINT REPAIR

Description: Shall include the Work Necessary To Repair Joints In Preparation For The Placement Of New Expansion Material, As Designated In The Detail Drawings Provided. Epoxy Mortar Shall Also Be Included Under This Item Of Work. Removal Of Existing Epoxy Mortar From The Joint Shall Be Considered As Absorbent 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-A003 JOINT REPAIR WITHOUT EPOXY

Description: Shall include the Work Necessary To Repair Joints In Preparation For The Placement Of New Expansion Material, As Designated In The Detail Drawings Provided. Removal Of Existing Epoxy Mortar From The Joint Shall Be Considered As Absorbent Under This Item Of Work. All Other Requirements Shall Be In Accordance With The Applicable Provisions Of Section 808 Of The Specifications And Any Other Sections Specified Therein.

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

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

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

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

907-823-A001 PREFORMED JOINT SEAL, TYPE I

907-823-A002 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.

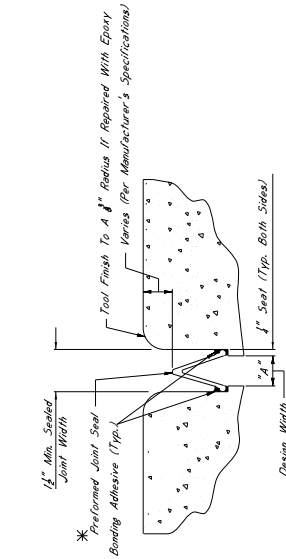
Basis Of Payment: The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

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, *MassDOT 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, or the Bridge Engineer. Any Change Of Plans That May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment.
3. Work For Which No Pay Item Is Provided In The Proposal Will Be Considered As Part Of The Contract Price. Work For Which No Pay Item Is Provided In The Proposal Will Be Considered As Part Of The Contract Price.

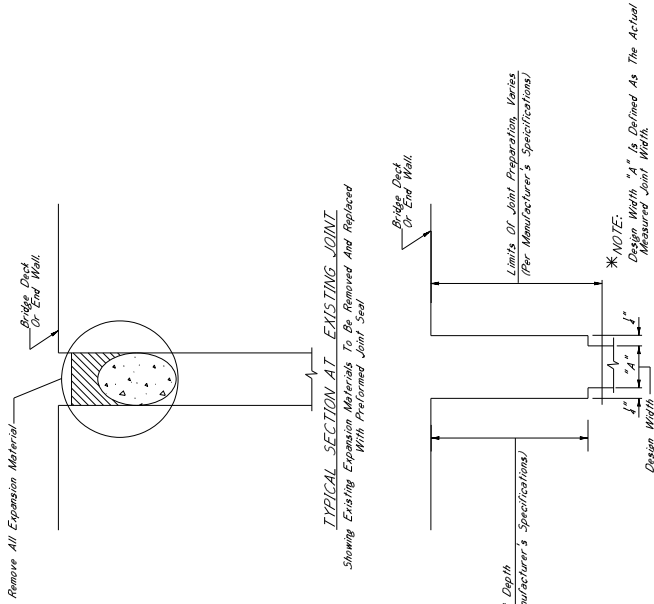


TYPICAL SECTION AT SAWCUT & SEALED JOINT

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. Silcoflex Joint Sealing System Manufactured By R.J. Watson, Inc. In Alden, NY www.jointseal.com
 B. Mido SPS Joint Sealing System Manufactured By SSI Commercial & Highway Construction Materials www.ssi.com
 C. Silseal SSS Silseal Strip Seal Manufactured By SSI Commercial & Highway Construction Materials www.ssi.com
2. For Estimating Purposes, The R.J. Watson Silcoflex Joint Sealing System Was Selected. However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Verify That The Installation Details And Details, Adhesive Sealing 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 Actual Width Of The Joint Opening. This Width Does Not Account For The Sealant. For Design Widths Less Than 2", Preformed Joint Seal Type "A" Shall Be Used For Design Widths Greater Than Or Equal To 2". For Design Widths Greater Than Or Equal To 2", Sealant Type "B" Shall Be Used For Design Widths Greater Than Or Equal To 2". The Minimum 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.



TYPICAL SECTION AT EXISTING JOINT

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

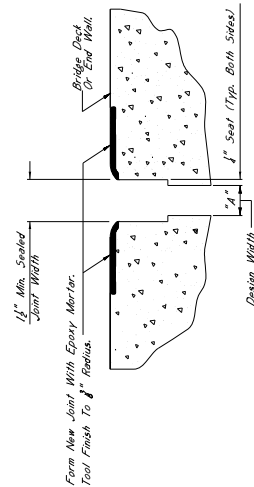
Sawcut Depth
 Varies (Per Manufacturer's Specifications)

Limits Of Joint Preparation, Varies
 (Per Manufacturer's Specifications)

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

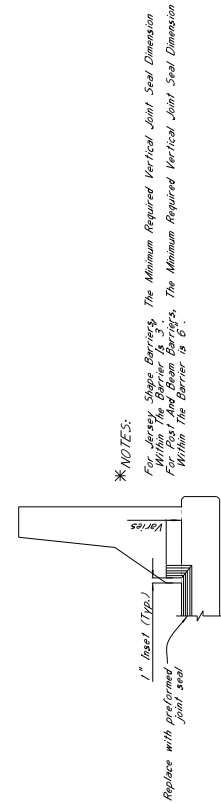
TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT

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



TYPICAL SECTION AT SAWCUT & JOINT REPAIR

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



ELEVATION AT END OF SPAN

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

NOTES ON ASSOCIATED ITEMS OF WORK:

907-809-4002 JOINT REPAIR

Description:

Shall include the work necessary to repair joints in preparation for the placement of new expansion material, as designated in the detail drawings provided. Epoxy mortar of Class B shall be used for all joints. Epoxy mortar materials will not be paid for directly and shall be considered as absorbed under this item of work. All other requirements shall be in accordance with the applicable provisions of Section 809 of the specifications and any other sections specified therein.

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.

907-809-4003 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 provided. Removal of existing epoxy mortar shall be included under this item of work. All other requirements shall be in accordance with the applicable provisions of Section 809 of the specifications and any other sections specified therein.

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

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

Description:

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

Basis of Payment:

The accepted quantities will be paid for in linear feet at the contract unit price along the length of the bridge deck on each side of the centerline joint. It is the contractor's responsibility to ensure that the proper depth is selected based on the manufacturer's recommendations.

907-823-4001 PREFORMED JOINT SEAL, TYPE I

907-823-4002 PREFORMED JOINT SEAL, TYPE II

Description:

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

Basis of Payment:

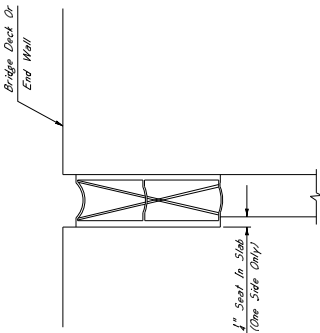
The accepted quantities will be paid for in linear feet at the contract unit price along the length of the centerline joint.

EPOXY MORTAR AND POLYMER CONCRETE NOTES:

Filler for mortar or polymer concrete may be washed, gradations and specifications can be found in section 809 of the specifications.

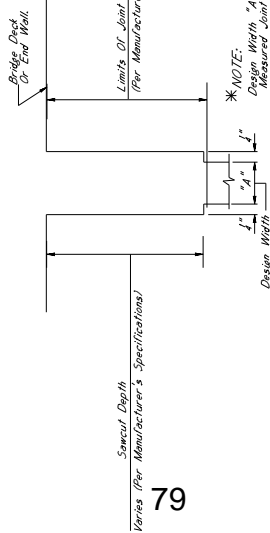
GENERAL NOTES:

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



TYPICAL SECTION AT EXISTING JOINT

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



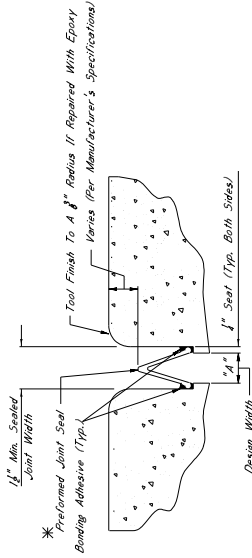
TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT

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



TYPICAL SECTION AT SAWCUT & JOINT REPAIR

Showing Joint Repair To Be Made After Sawcut With Epoxy Mortar Or Approved Equivalent

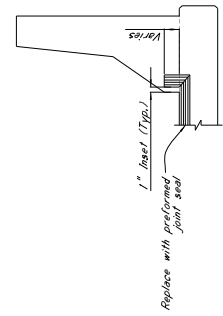


TYPICAL SECTION AT SAWCUT & SEALED JOINT

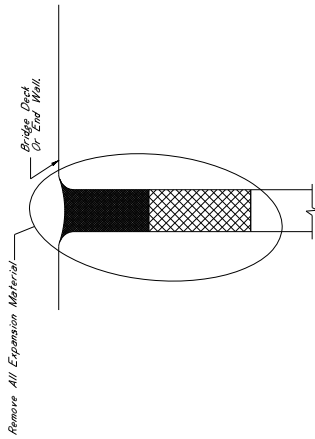
Showing Sealed Joint After Sawcut And Repair With Epoxy Mortar

***NOTES:**

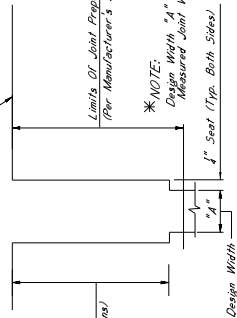
1. The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
 - A. Silcoflex Joint Sealing System
www.jointseal.com
 - B. Wika SBS Joint Sealing System
www.wika.com
 - C. Silgoe SSS Silicone Strip Seal
www.silgoe.com
2. For Estimating Purposes, The R.J. Watson Silcoflex Joint Sealing System Was Used For Joint Preparation, Installation Depths, And Widths, Adhesive Sealing Times, And Manufacturer Recommendations. The Contractor Shall Be Responsible For Obtaining The Joint Seal Manufacturer's Recommendations To Ensure That The Contractor Is Properly Trained In Installation Of The Joint Material.
3. Joints shall be sealed at their design width, dimension 'A', which is defined as the actual width with 3/8" of sawcut. This width does not include the sawcut. The seal shall be used for design widths less than 2". Preformed joint seal, Type II, shall be used for design widths greater than or equal to 2". With the design width, the epoxy mortar shall be placed on both sides of the joint. The minimum required vertical joint seal dimension within the barrier is 6".



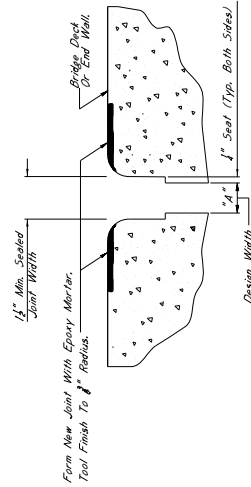
ELEVATION AT END OF SPAN



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



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



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

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, as designated in the detail drawings provided. Epoxy mortar of existing silicone based compression and AC sealed joint materials will not be paid for directly. All other requirements as absorbed under this item of work. All other requirements shall be in accordance with the applicable provisions of Section 808 of the specifications and any other sections specified therein.

Basis of Payment:

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

907-808-4003 JOINT REPAIR WITHOUT EPOXY

Description:

Shall include the work necessary to repair joints in preparation for the placement of new expansion material, as designated in the detail drawings provided. Cementitious materials shall be included under this item of work. All other requirements shall be in accordance with the applicable provisions of Section 808 of the specifications and any other sections specified therein.

Basis of Payment:

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

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

Description:

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

Basis of Payment:

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

907-823-4001 REFORMED JOINT SEAL, TYPE I

907-823-4002 REFORMED 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.

EPOXY MORTAR AND POLYMER CONCRETE NOTES:

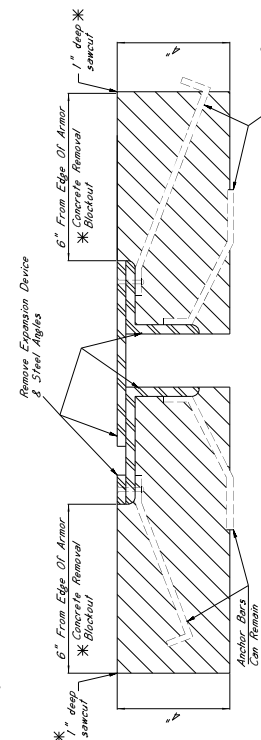
Either Epoxy Mortar Or Polymer Concrete May Be Used. Guidelines For Selection Of Materials Can Be Found In Section 808 of The Specifications.

GENERAL NOTES:

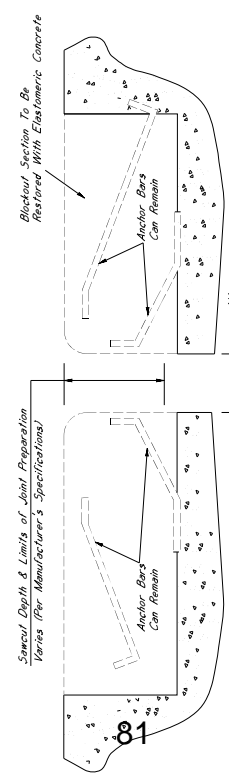
- Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.
- Approval Of The Director Of Structures, State Bridge Engineer, Minor Changes To Detail Of Design Or Construction Procedure May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Affect The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

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

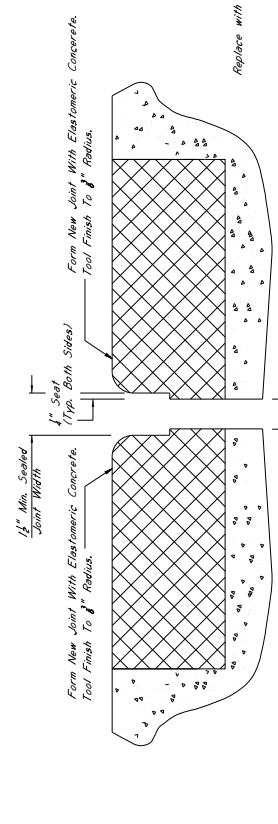
*** CONCRETE REMOVAL BLOCKOUT NOTES**
 Removal Of The Concrete Blockout Area Shall Be Considered An Absorbed Item Of Work Under Pay Item 202-B169. The Contractor Shall Use Hand Tools To Cut A Length Than 30" LB. To Complete This Work.



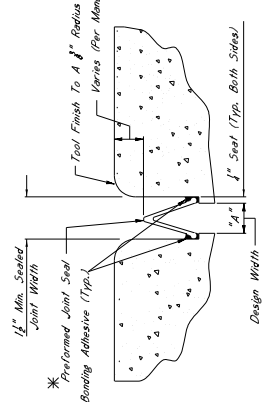
TYPICAL SECTION AT EXISTING JOINT
 Showing Existing Expansion Device To Be Removed And Replaced With Performed Joint Seal



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



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



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

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

2. For Estimating Purposes, The R.J. Watson Silicone Joint Sealing System Was Selected. It Is The Contractor's Responsibility To Ensure That The Manufacturer's Recommendations Are Followed For All Applications. All Applications, Repairs, Repairs, Sealings, And Other Applications To All Types of Joints, Repairs, Sealings, And Other Applications Shall Be Performed At The Time Joint Sealing Begins To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint Material.
 3. Joints Shall Be Sealed At Their Design Width. Dimension "A", Which Is Defined As Seal Applied On Both Sides Of The Joint. Performed Joint Seal, Type I, Shall Be Used For Design Widths Less Than 2". Performed Joint Seal, Type II, Shall Be Used For Design Widths Greater Than 2". In Cases Where Design Widths Are Greater Than 2", Another Type Of Expansion Material Shall Be Required As Directed By The Director Of Structures. The Contractor Shall Be Responsible For The Selection Of Seal Material To Ensure That The Seal Is Selected As Appropriate For The Width Of The Joint.

*** NOTES:**
 For Anchor, Signs, Barriers, The Minimum Required Vertical Joint Seal Dimension With The Expansion Device For Post And Beam Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier is 6".

ELEVATION AT END OF SPAN

NOTES ON ASSOCIATED ITEMS OF WORK:
 202-B169 REMOVAL OF EXISTING JOINT MATERIAL

Description: Shall Include The Removal Of Material Associated With Armor, Sliding Plates and Mappings Provided. Removal As Designated In The Detail Drawings Provided. Removal Of The Concrete Blockout Area Shall Be Absorbed Under This Item Of Work. Other Joint Types Shall Not Be Included Under This Item Of Work Unless Otherwise Directed By The Engineer.

Basis Of Payment: Removal of Armor and Sliding Plate Joint Material Will Be Paid For In Place Along The Length Of Each Side Of The Centerline Joint, While Removal Of Negative Joint Material Will Only Be Paid For As The Length Along The Centerline Of The Joint.

907-B23-B001 SAW CUT, TYPE I & 907-B23-B002 SAW CUT, TYPE II

Description: This 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 On Each Side Of The Centerline Joint.

907-B23-A001 PERFORMED JOINT SEAL, TYPE I
 907-B23-A002 PERFORMED JOINT SEAL, TYPE II

Description: Seal Includes The Manufacturer's Required Joint Preparation, The Joint Form Or Device With Compressed Air And Placement Of The New Performed Joint Seal

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

ELASTOMERIC CONCRETE NOTES

907-B24-P007 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
- WeloCrete II Manufactured By Watson Bowman Acme Corporation In Amherst, NY www.wbcorp.com
- Delecto Elastomeric Concrete Manufactured By The D.S. Brown Company In North Baltimore, MD www.dsbrown.com

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

GENERAL NOTES:

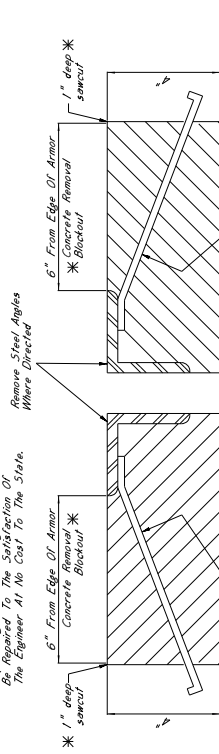
- Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017.
- No Change Of Plans Will Be Permitted Except By Written Approval Of The Engineer. The Engineer's Approval May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment. Approval 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 Absorbed Item of Work. The Contractor Shall Be Responsible For Determining The Balance Making Any Sawcuts No More Than The Depth Of The Reinforcing Steel. The Damage To The Reinforcing Steel Shall Be Limited To The Sawing Operation Of The Engineer At No Cost To The State.

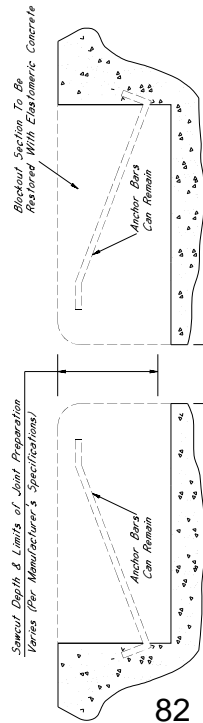
*** CONCRETE REMOVAL BLOCKOUT NOTES**

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



TYPICAL SECTION AT EXISTING JOINT

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

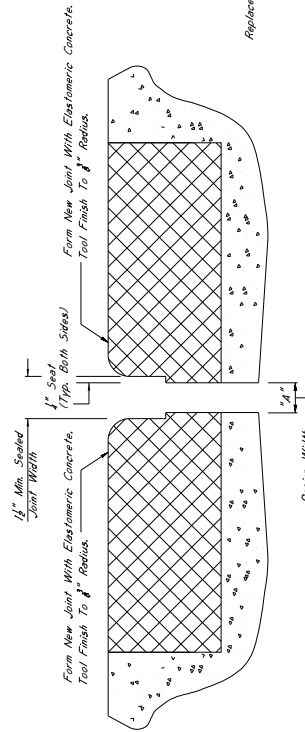


*** NOTE:**

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

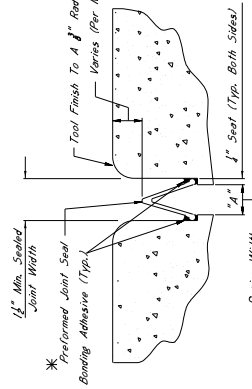
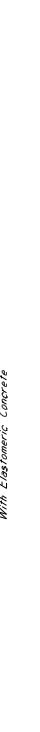
TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL

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



TYPICAL SECTION AT SAWCUT & JOINT REPAIR

Showing Area Where Repairs Are Made After Sawcut With Elastomeric Concrete



TYPICAL SECTION AT SAWCUT & SEALED JOINT

Showing Sawcut Used After Sawcut And Repair With Elastomeric Concrete

*** NOTES:**

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

A. Silicoflex Joint Sealing System Manufactured By R.L. Watson, Inc. In Alden, NY www.rlwatson.com

B. Wiko SP3 Joint Sealing System Manufactured By SSI Commercial & Highway Construction Materials www.ssi.com

C. Silsecc 555 Silicone Strip Seal Manufactured By SSI Commercial & Highway Construction Materials www.ssi.com

2. For Estimating Purposes, The R.L. Watson Silicoflex Joint Sealing System Was Selected. However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Verify That The Supplier's Product Meets The Manufacturer's Specifications For Joint Preparation, Installation Depths And Widths, Adhesive Setting Times, And Any Other Variables Between The Specifications Provided By The Manufacturer, To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint Sealant.

3. Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As The Actual Width Of The Joint Opening. This Width Does Not Account For Sealant Compression. However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Verify That The Supplier's Product Meets The Manufacturer's Specifications For Joint Preparation, Installation Depths And Widths, Adhesive Setting Times, And Any Other Variables Between The Specifications Provided By The Manufacturer, To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint Sealant.

*** NOTES:**

For Jersey Sign Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Bottom Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6".

ELEVATION AT END OF SPAN



NOTES ON ASSOCIATED ITEMS OF WORK:

202-8169 REMOVAL OF EXISTING JOINT MATERIAL

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

Basis Of Payment:

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

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

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

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

Basis Of Payment:

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

ELASTOMERIC CONCRETE NOTES

907-824-4007 BRIDGE REPAIR ELASTOMERIC CONCRETE

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

A. Poly-Ton Elastomeric Concrete Manufactured By R.L. Watson, Inc. In Alden, NY www.rlwatson.com

B. Wiko-Crete II Manufactured By Watson Bowman Acme Corporation In Amherst, NY www.wbcorp.com

C. Poltek Elastomeric Concrete Manufactured By The U.S. Brem Company In North Baltimore, MD www.sbr.com

Basis Of Payment:

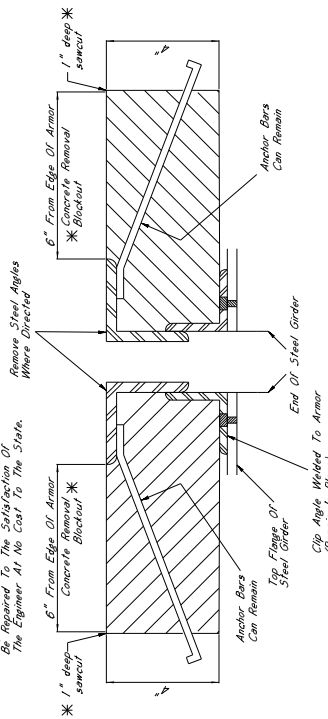
The Accepted Quantities Will Be Paid For In Cubic Yards The Contract Unit Price.

GENERAL NOTES:

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

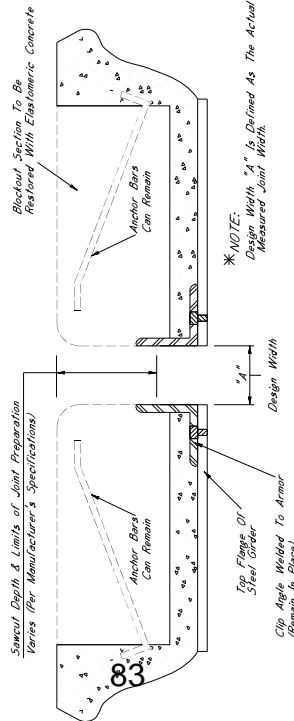
*** 1" SAWCUT NOTES:**

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



TYPICAL SECTION AT EXISTING JOINT

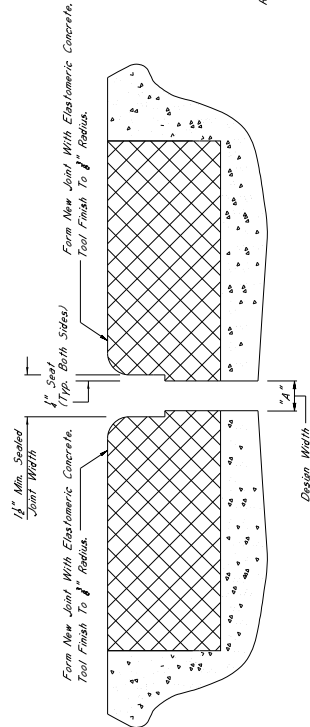
Showing Existing Existing Joint Seal To Be Removed And Replaced With Preformed Joint Seal



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

TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL

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

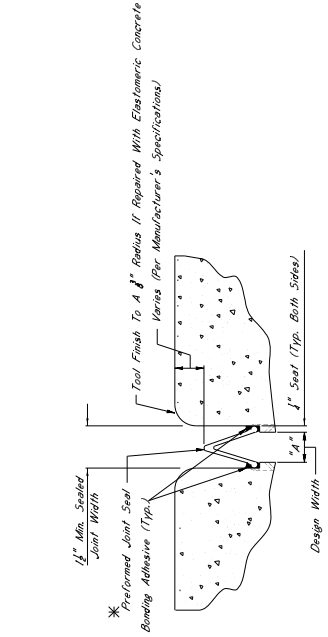


TYPICAL SECTION AT SAWCUT & JOINT REPAIR

Showing Area Where Repairs Are Made After Sawcut With Elastomeric Concrete

*** CONCRETE REMOVAL BLOCKOUT NOTES**

Removal Of The Concrete Blockout Area Shall Be Considered An Absorbed Item Of Work Under Item 202-8169. The Contractor Shall Remove All Material No Larger Than 30 Lbs To Complete This Work.



TYPICAL SECTION AT SAWCUT & SEALED JOINT

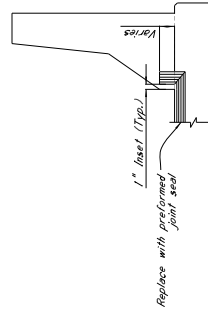
Showing Sealed Joint After Sawcut And Repair With Elastomeric Concrete

*** NOTES:**

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

*** NOTES:**

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



ELEVATION AT END OF SPAN

NOTES ON ASSOCIATED ITEMS OF WORK:

202-8169 REMOVAL OF EXISTING JOINT MATERIAL

Description:

Shall Include The Removal Of Material Associated With Armor, Slicing Bars, And Neoprene Expansion Joints, As Specified In The Contract Documents. The Contractor Shall Remove All Material No Larger Than 30 Lbs To Complete This Work. The Concrete Blockout Area Shall Be Absorbed Under This Item Of Work. Other Joint Types Shall Not Be Included Under This Item Of Work Unless Otherwise Directed By The Engineer.

Basis Of Payment:

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

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

Description:

The Saw Cut Depth Shall Be Equivalent To The Installation Depth Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The 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 Of Debris With Compressed Air And Placement Of The New Preformed Joint Seal.

Basis Of Payment:

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

ELASTOMERIC CONCRETE NOTES

907-824-8007 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.L. Watson, Inc. In Allen, NY www.rjwatson.com
- WaleCrete II Manufactured By Watson Bowman Acme Corporation In Amherst, NY www.watsonb.com
- Delcrete Elastomeric Concrete Manufactured By The U.S. Brown Company In North Beloit, WI www.usbrown.com

Basis Of Payment:

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

GENERAL NOTES:

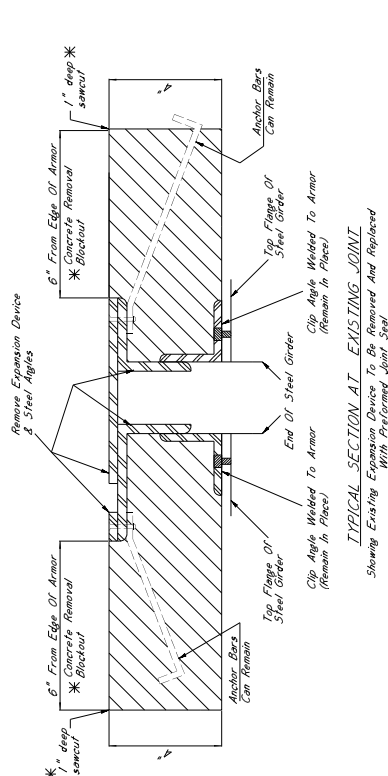
- Specifications, Manufacturer Standard Specifications For Road And Bridge Construction, 2017.
- No Change Of Plans Will Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer. Any Change In Specifications, Materials, Or Methods May Be Authorized By The Bridge Engineer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

*** 1" SAWCUT NOTES:**

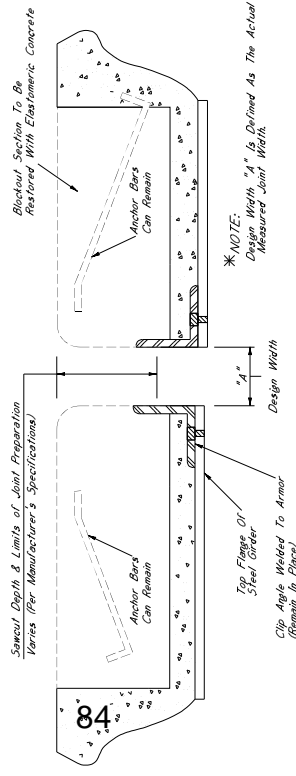
All 1" sawcuts shall be considered in Absorbed Item 202-9169. The Contractor Shall Verify Depth Of Reinforcing Steel Before Making Any Sawcuts. The Depth Of The Sawcut Shall Be No More Than 1/2" From Edge Of Armor. The Contractor Shall Repair To The Satisfaction Of The Engineer At No Cost To The State.

*** CONCRETE REMOVAL BLOCKOUT NOTES**

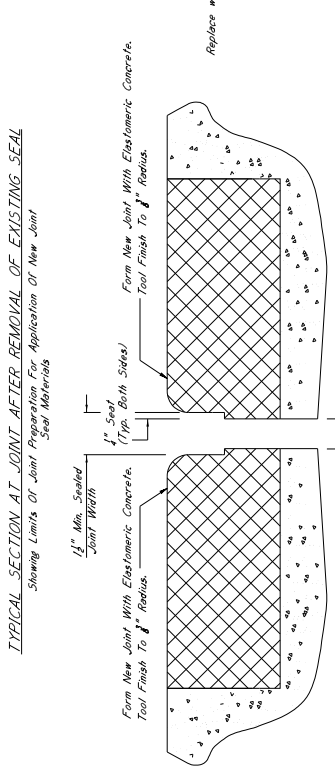
All concrete removal blockouts shall be considered in Absorbed Item 202-9169. The Contractor Shall Use A Hammer No Larger Than 30 Lbs. To Complete This Work.



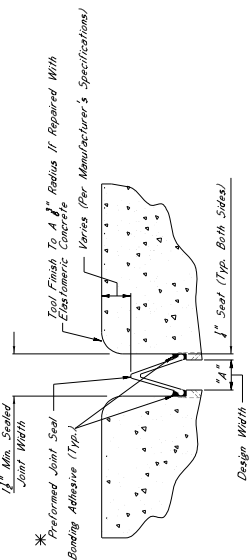
TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expansion Device To Be Removed And Replaced With Preformed Joint Seal



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



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



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

- * NOTES:**
- The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
 - A. Silcoflex Joint Sealing System www.jackson.com
 - B. Wako SPS Joint System Manufactured By Wako Bowman Acme Corporation In Amherst, NY www.wbcorp.com
 - C. Silagoc S55 Silagoc Strip Seal Manufactured By SSI Commercial & Highway Construction Materials www.ssi.com
 - For Estimating Purposes, The R.J. Watson Silcoflex Joint Sealing System Was Used For Design Purposes. The Contractor Shall Be Responsible For Ensuring That The Manufacturer's Recommendations Are Followed For Joint Preparation, Installation, Depth, And Width, Adhesive, Sealing Times, And Cure Times. The Contractor Shall Be Responsible For Ensuring That The Manufacturer's Representative Shall Be Present At The Time Joint Sealing Begins To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint Material.
 - Joints Shall Be Sealed At Their Design Widths, Dimension "A", Which Is Defined As Seal Prepared On Both Sides Of The Joint. The Preformed Joint Seal Type Shall Be Used For Design Widths Less Than 2". Preformed Joint Seal Type 111 Shall Be Used For Design Widths Greater Than 2". Design Widths Are Greater Than Design Widths In Cases Where Design Widths Are Greater Than Design Widths. Sealant Material Shall Be Required As Directed By The Director Of Structures. Sealant Material Shall Be Applied In A Manner That Ensures Responsibility To Ensure That The Sealant Is Applied To The Width Of The Joint.

NOTES ON ASSOCIATED ITEMS OF WORK:

202-9169 REMOVAL OF EXISTING JOINT MATERIAL

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

Basis Of Payment:

Removal Of Armor And Sliding Plate Joint Material Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The Joint. The Contractor Shall Be Responsible For Removing Material Will Not Be Paid For As The Length Along The Centerline Of The Joint.

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

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

Basis Of Payment:

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

907-823-8001 PREFORMED JOINT SEAL, TYPE I

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

Basis Of Payment:

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

907-823-8002 PREFORMED JOINT SEAL, TYPE II

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

Basis Of Payment:

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

ELASTOMERIC CONCRETE NOTES

907-824-8007 BRIDGE REPAIR, ELASTOMERIC CONCRETE

Installed According To The Manufacturer's Specifications:

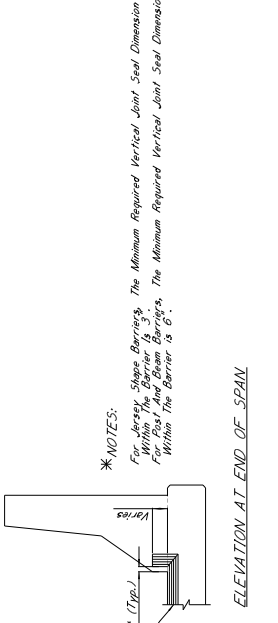
- Poly-Ton Elastomeric Concrete Manufactured By R.J. Watson, Inc. In Alden, NY www.jackson.com
- WakoCrete II Manufactured By Wako Bowman Acme Corporation In Amherst, NY www.wbcorp.com
- Delcrete Elastomeric Concrete Manufactured By The D.S. Brown Company In North Baltimore, OH www.dsbrown.com

Basis Of Payment:

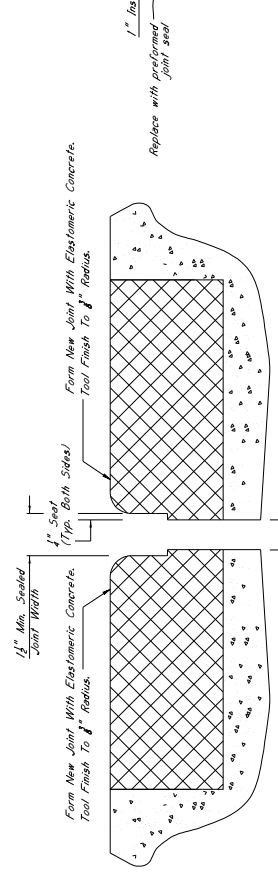
The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

GENERAL NOTES:

- Specifications: Mississippi Standard Specifications For Road And Bridge Construction, 2017 Edition, Section 202.01, Absorbed Item 202-9169.
- Approval Of The Director Of Structures, State Bridge Engineer, May Be Authorized By The Bridge Engineer Provided Such Changes Do Not Affect The Safety Or Structural Integrity Of The Work For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.



ELEVATION AT END OF SPAN



ELEVATION AT END OF SPAN

NOTES ON ASSOCIATED ITEMS OF WORK:
907-824-PP008 BRIDGE REPAIR, ENDWALL REPAIR

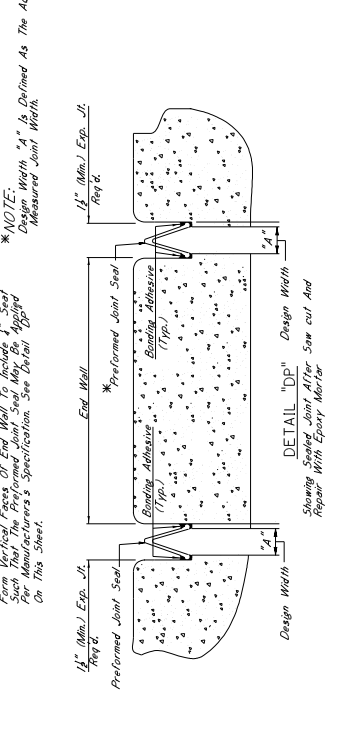
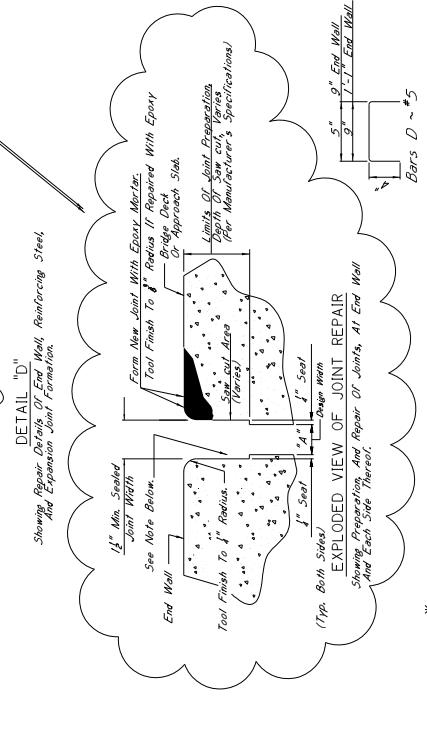
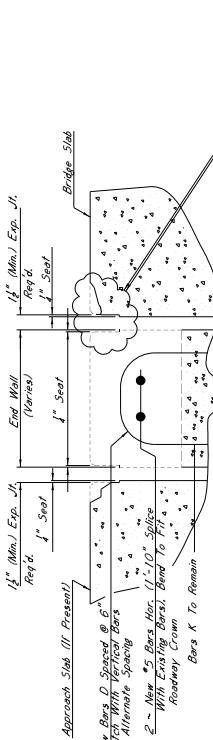
Description: Shall include the Work Necessary To Remove And Replace The Damaged Concrete On The End Wall At The Damaged Section, The Specified Depth Of Limiting The Repair To The Damaged Section, The Entire Width Of The Bridge Deck. Endwall Shall Be Removed Along The Entire Width Of The Bridge Deck.
Basis of Payment: The Associated Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Width Of The Bridge Deck.
 Damage Caused To Other Elements Of The Structure Or Roadway While Completing Work 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 Primer 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 Materials Division. Mixture design parameters are as follows:
 Required Strength: 5000 psi
 Maximum Slump: 6 inches

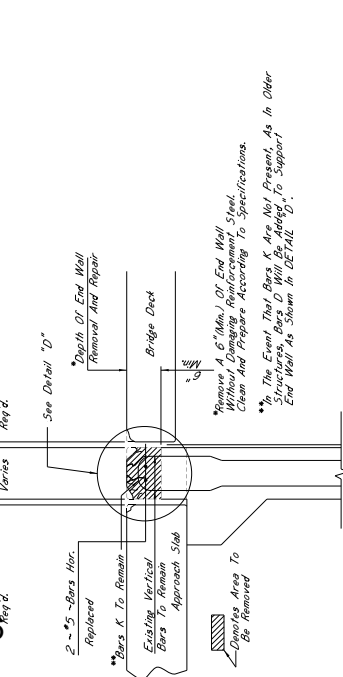
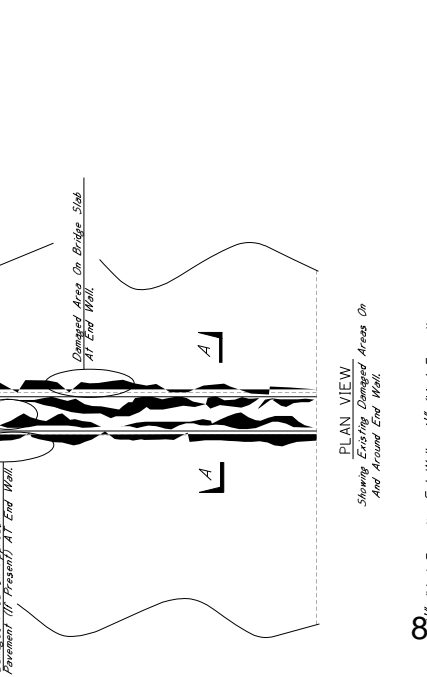
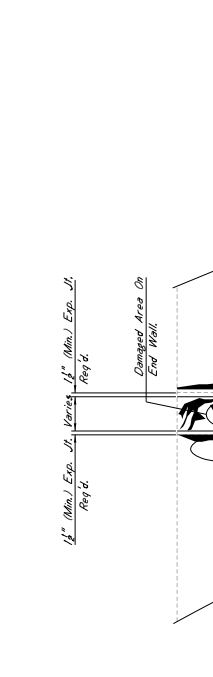
Non-chloride based accelerator may be used if the ambient temperature is 50°F or less, but shall not be used if the ambient temperature is greater than 50°F. Synthetic structural fibers shall be used. The Contractor shall select a manufacturer from ADOT's Approved Products List, and the manufacturer's recommendations shall be followed for the dosage rate.
 Curing to be continuous until 2500 psi is attained. Traffic is to be diverted from the repair area until this value is reached. The Contractor may use the Ministry of Transportation 307 submittal to estimate the curing time. However, final acceptance of the in-place concrete shall be determined using eight concrete test cylinders, which shall be cured in a container next to the concrete placement. Two cylinders are to be tested at 3, 16, and 24-hour intervals. The remaining cylinders shall be used to determine the 28-day compressive strength of the concrete.

The Removal Of Existing Expansion Material May Require Any Number Of The Pay Items Listed In The Bid Schedule. The Contractor Shall Submit A Detailed Estimate Corresponding Joint Repair Detail Sheet For Additional Details On The Associated Items Of Work.
908-816D JOINT REPAIR OF EXISTING JOINT MATERIAL
907-808-A002 JOINT REPAIR WITHOUT EPOXY
907-823-B001 SAW CUT, TYPE I
907-823-A001 PREFORMED JOINT SEAL, TYPE I
907-823-A002 PREFORMED JOINT SEAL, TYPE II

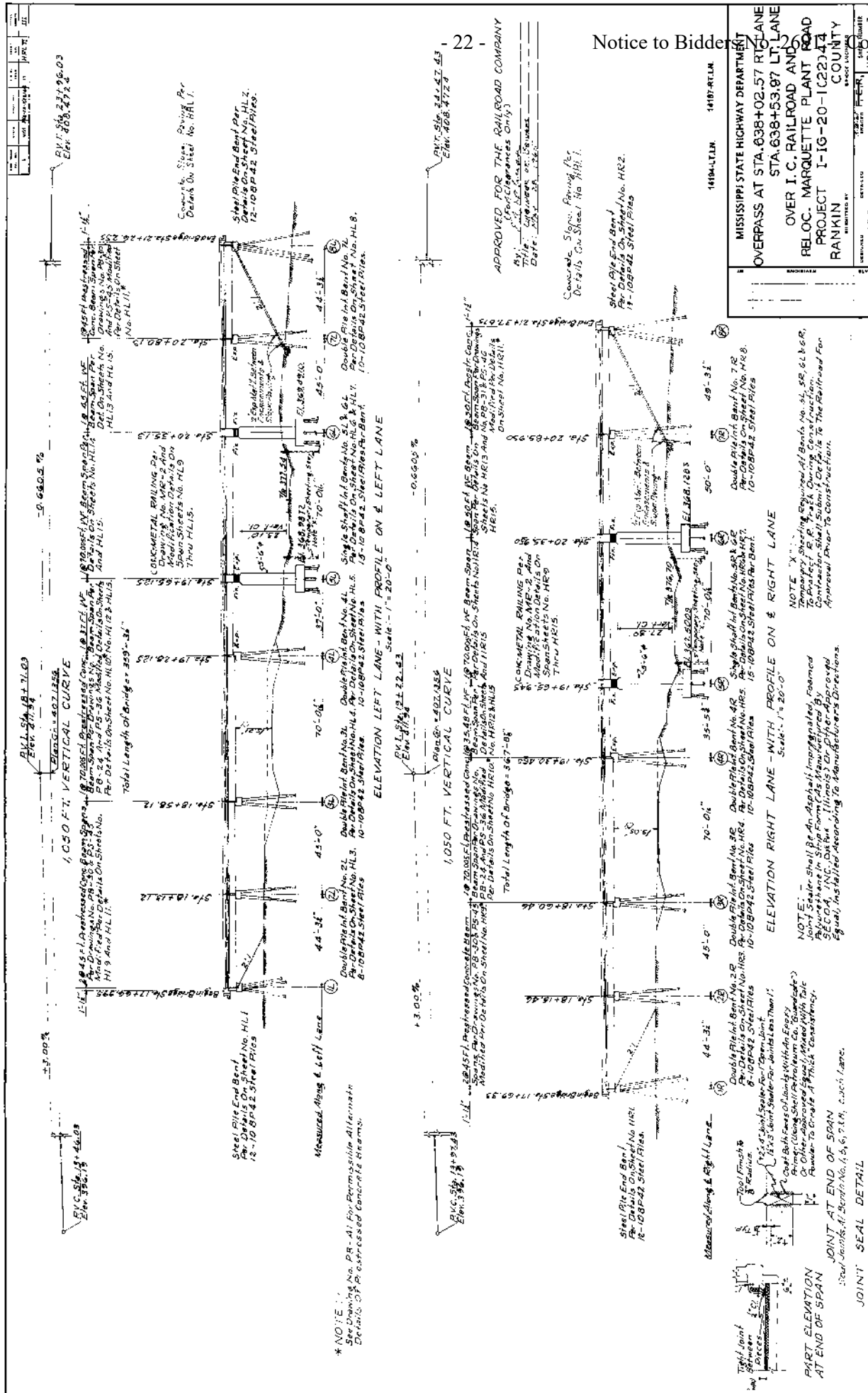
GENERAL NOTES:
 1. And Bridge Construction 2017.
 No Change Of Plans Will Be Permitted Except By Writing.
 Approved Changes To Detail Of Design Construction.
 May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Cause For Contract Price Adjustment.
 Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.



*** NOTE:**
 Design Width 'A' Is Defined As The Actual Measured Joint Width.
 Vertical Faces Of End Wall To Be Sealed As Per Manufacturer's Specification. See Detail 'DP' On This Sheet.
 Vertical Faces Of End Wall To Be Sealed As Per Manufacturer's Specification. See Detail 'DP' On This Sheet.
 For Estimating Purposes, The RJ Wilson Silicoflex Joint Sealing System Was Used For Joint Preparation, Installation Details, And Widths. Adhesive Sealing Times, And Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins To Ensure That The Contractor Is Properly Schooled In Installation Of The Joint Material.
 Joints Shall Be Sealed At Their Design Widths, Dimension 'A', Which Is Defined As: Seal Provided On Both Sides Of The Preformed Joint Seal. Type I Seal To Be Used For Design Widths Less Than 2\"/>



*** NOTES:**
 1. The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
 A. Silicoflex Joint Sealing System Manufactured By RJ Wilson, Inc. www.rjwilson.com
 B. Width SSS Joint Sealer Manufactured By Watson Bowman Acme Corporation www.watsoncorp.com
 C. Slopec SSS Silicone Strip Seal Manufactured By SSS Commercial & Highway Construction Materials www.ssscm.com
 2. In The Event That Bars K Are Not Present, As In Older Structures, Bars D Will Be Added To Support End Wall As Shown In Detail 'D'.



NOTE: See Drawing No. PR-41 For Dimensions, Alternates & Details of Prestressed Concrete Beams.

NOTE: Steel Pile End Band Per Details On Sheet No. HL 1, 12-10BP42 Steel Piles.

NOTE: Double Ribbed Beam No. 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Per Details On Sheet No. HL 8, 10-10BP42 Steel Piles.

NOTE: Steel Pile End Band Per Details On Sheet No. HL 1, 12-10BP42 Steel Piles.

NOTE: Double Ribbed Beam No. 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Per Details On Sheet No. HL 8, 10-10BP42 Steel Piles.

NOTE: Steel Pile End Band Per Details On Sheet No. HL 1, 12-10BP42 Steel Piles.

NOTE: Double Ribbed Beam No. 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Per Details On Sheet No. HL 8, 10-10BP42 Steel Piles.

NOTE: Steel Pile End Band Per Details On Sheet No. HL 1, 12-10BP42 Steel Piles.

NOTE: Double Ribbed Beam No. 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Per Details On Sheet No. HL 8, 10-10BP42 Steel Piles.

NOTE: Steel Pile End Band Per Details On Sheet No. HL 1, 12-10BP42 Steel Piles.

NOTE: Double Ribbed Beam No. 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Per Details On Sheet No. HL 8, 10-10BP42 Steel Piles.

Notice to Bidder

MISSISSIPPI STATE HIGHWAY DEPARTMENT

OVERPASS AT STA. 638+02.57 RT. LANE

STA. 638+53.97 LT. LANE

OVER I. C. RAILROAD AND

RELOC. MARQUETTE PLANT ROAD

PROJECT I-1G-20-1C22)43

RANKIN COUNTY

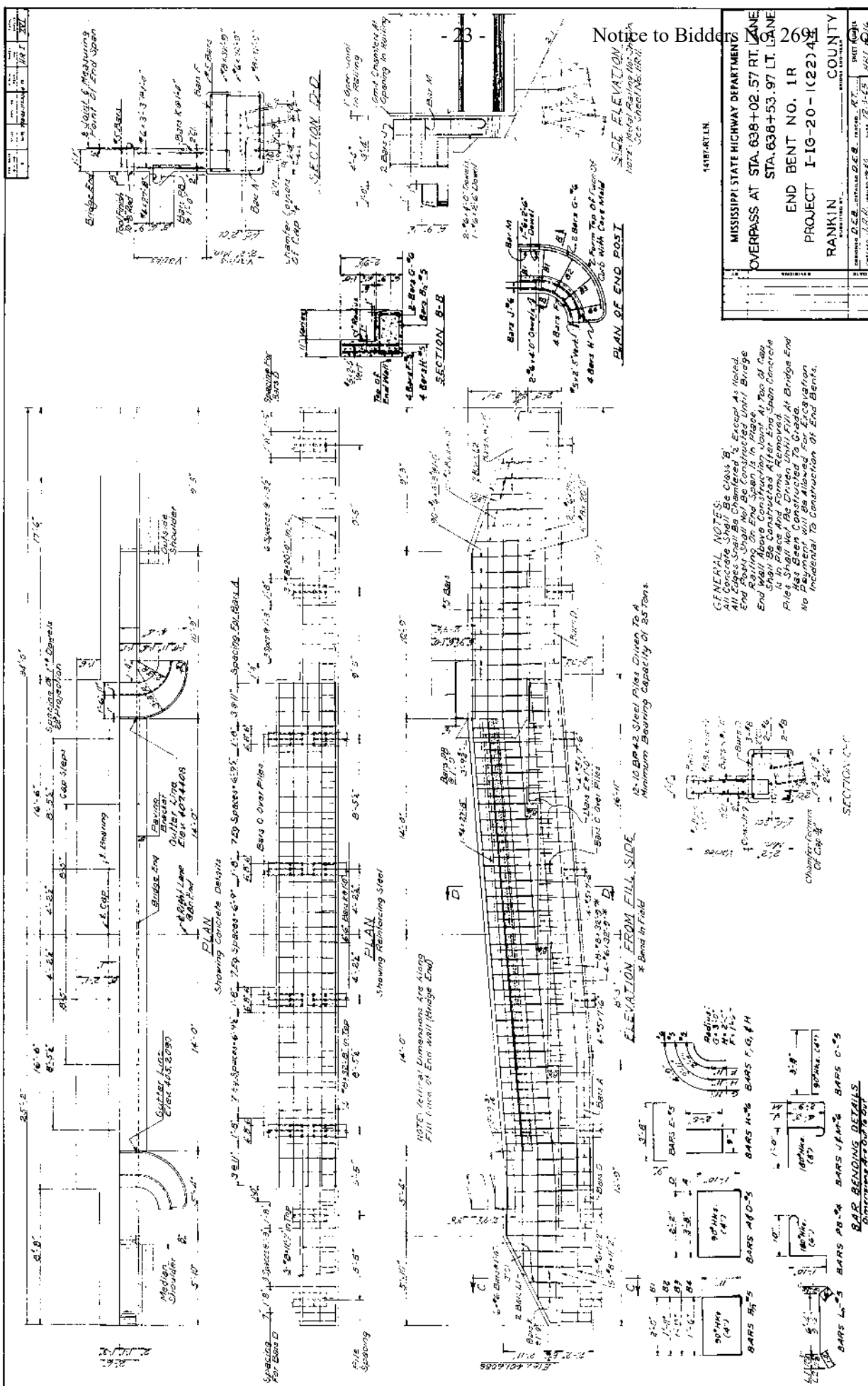
DATE: 12-1-65

SCALE: 1" = 20'-0"

14187-RT.L.M.

14184-LT.L.M.

DATE	12-1-65
BY	W. J. ...
CHECKED	...
APPROVED	...
SCALE	1" = 20'-0"
PROJECT	I-1G-20-1C22)43
NO.	87



Notice to Bidder

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+02.57 RT. LANE
 STA. 638+53.97 LT. LANE
 END BENT NO. 1R
 PROJECT I-IG-20-(1C22)49

15187-ARTLN

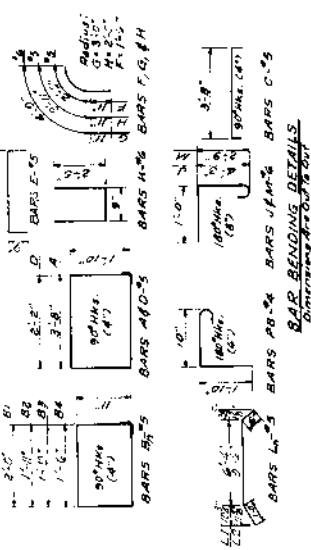
RANKIN COUNTY

DESIGNED BY: D.C.B. DATE: 12-15-68
 CHECKED BY: J.R.R. DATE: 12-15-68

PLAN OF END POST

GENERAL NOTES:
 All Concrete Shall Be Class "B"
 End Post Shall Not Be Constructed Until Bridge
 End Wall Above Construction Joint At Top of Cap
 Is in Place and Forms Removed.
 Piles Shall Not Be Driven Until Fill At Bridge End
 Has Been Constructed To Grade.
 Any Incidental Excavation
 Is Incidental To Construction of End Bents.

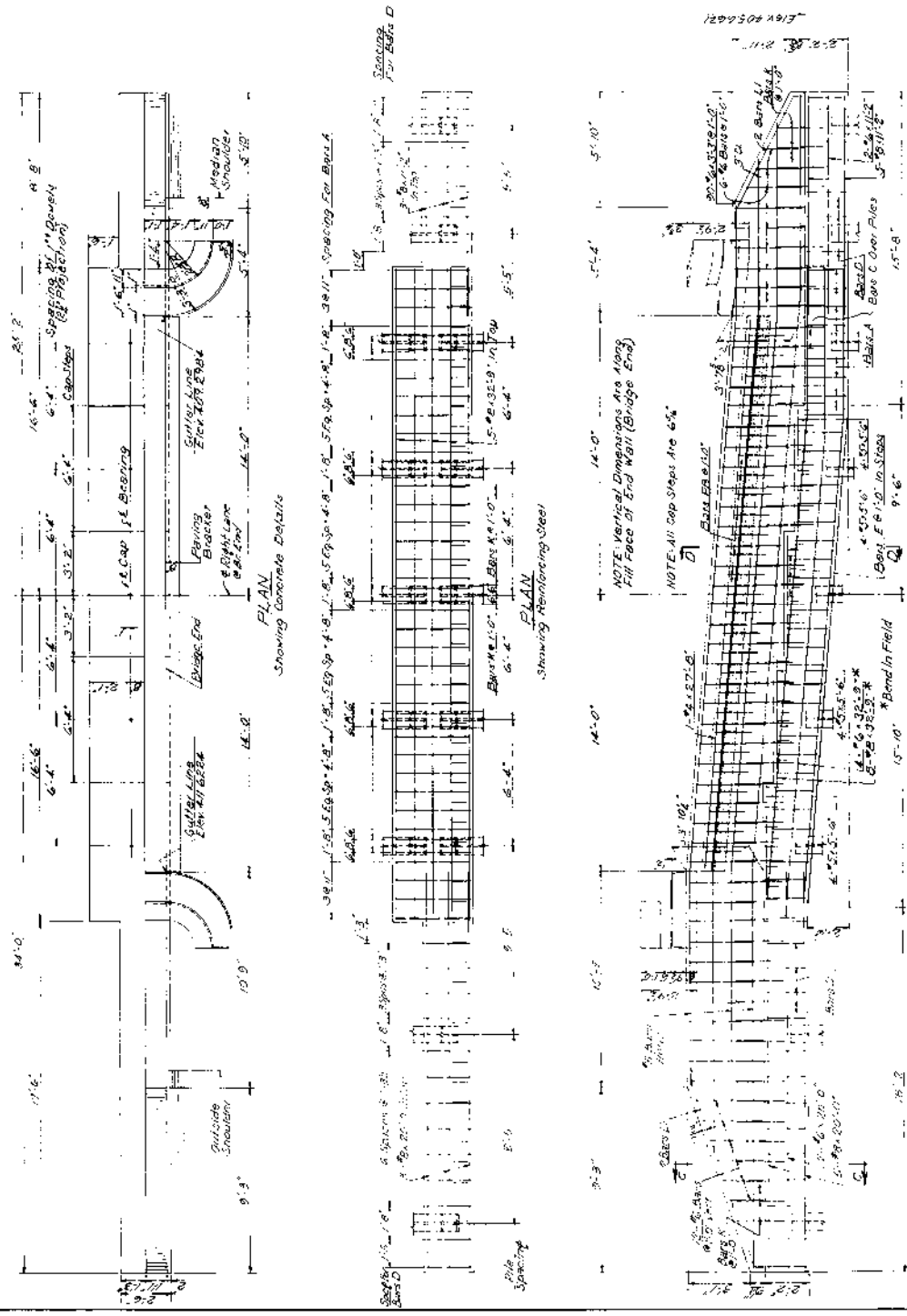
ELEVATION FROM FILL SIDE
 * Bond in Field



For GENERAL NOTES, See Sheet No. HR-1
For Sections, Bar Bending And Other Details, See
Sheet No. HR-2.

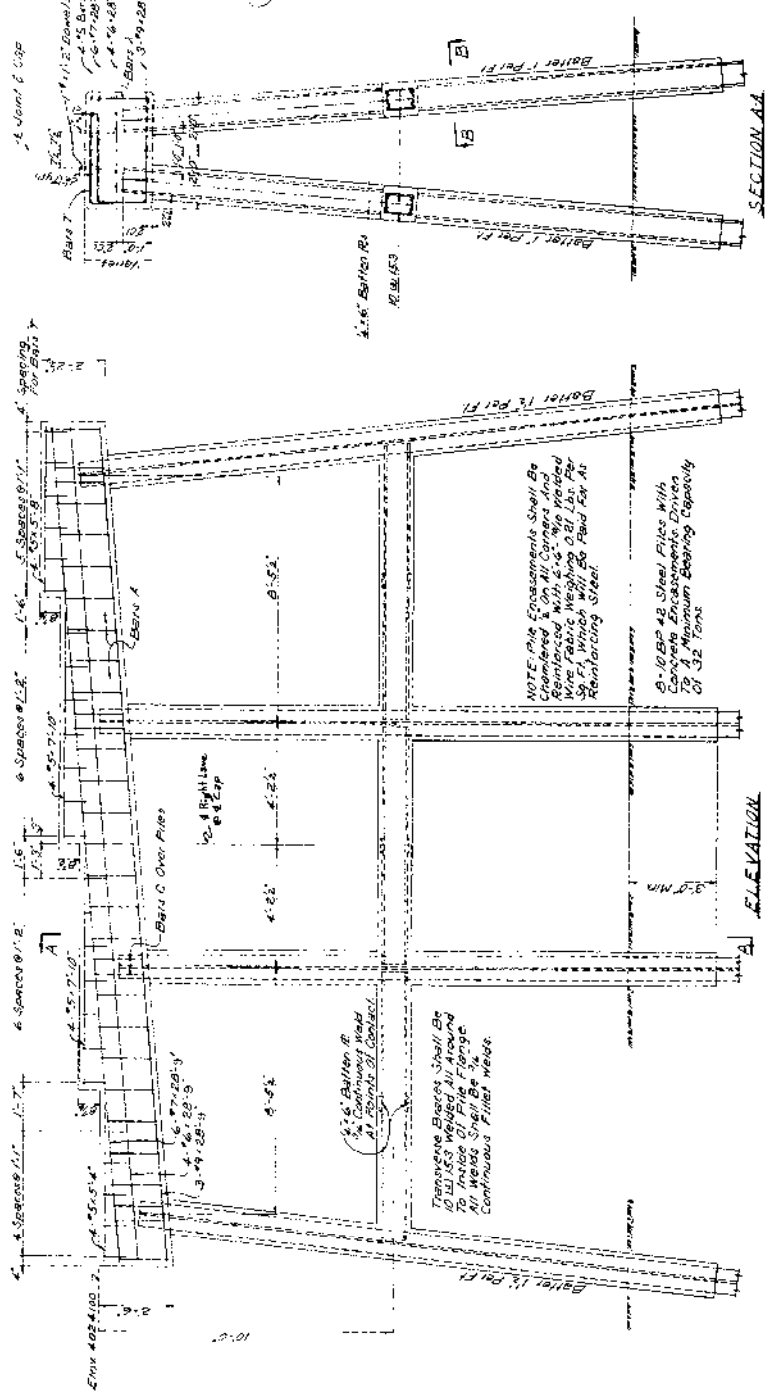
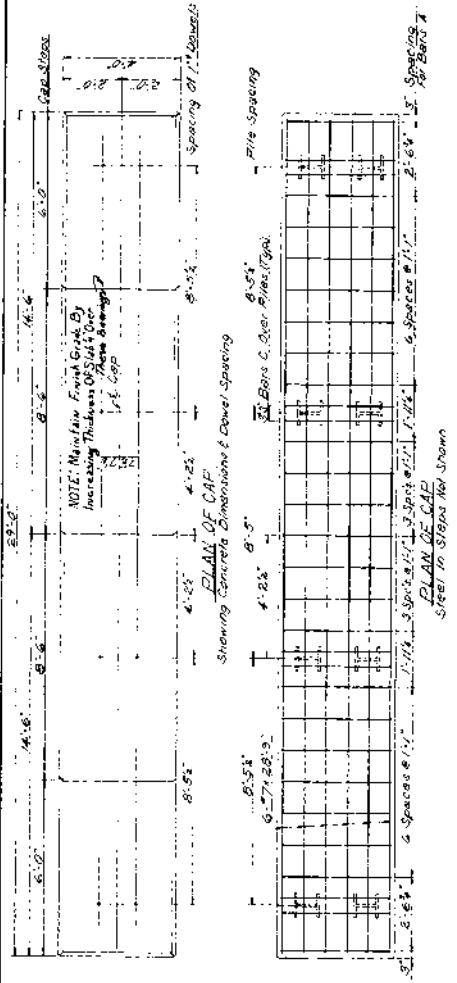
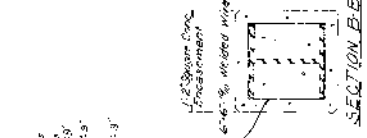
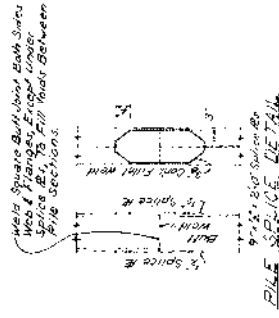
MISSISSIPPI STATE HIGHWAY DEPARTMENT	
OVERPASS AT STA. 638+02.57 RT. LANE	END BENT NO. 8R
STA. 638+53.97 LT. LANE	PROJECT I-10-20-(122)
RANKIN COUNTY	
DESIGNED BY: W.R. MOORE	DRAWN BY: J.E.B.
CHECKED BY: W.R. MOORE	DATE: 4/25/64

DATE: 4/25/64	SCALE: AS SHOWN	PROJECT: I-10-20-(122)
NO. 1	NO. 2	NO. 3

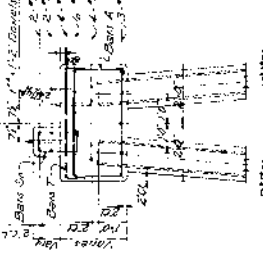
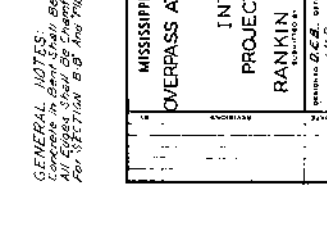
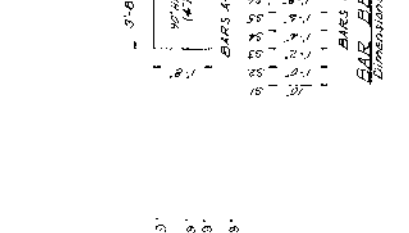
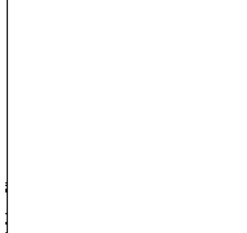


MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+02.57 RT. LANE
 INT. BENT NO. 2R
 PROJECT I-10-20-(1C22)
 RANKIN COUNTY
 SHEET NUMBER 1487-RT-LK
 DATE 12-3-65

GENERAL NOTES:
 1. All Encasements Shall Be Chaired & Shored Otherwise
 2. All Edges Shall Be Chamfered & Shored Otherwise



DATE	BY	CHECKED	APPROVED
1/18/68	J.E.E.		

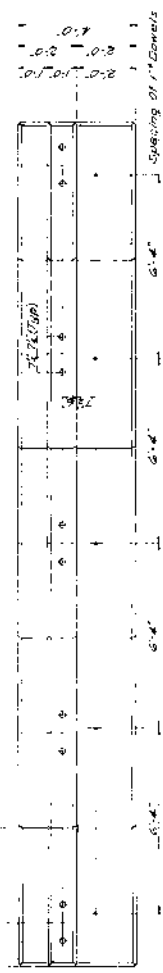


GENERAL NOTES:
 Concrete in Bent shall be Class 2.
 All Edges shall be Chamfered & Unless Otherwise Noted
 Per SECTION B-B And PILE SECTION DETAIL See Uncolored

14187-RT.LN.	
MISSISSIPPI STATE HIGHWAY DEPARTMENT	
OVERPASS AT STA. 638+02.57 RT. LANE	NAME
STA. 638+53.97 LT. LANE	22697
INT. BENT NO. 3R	
PROJECT 1-IG-20 - (K22)	
RANKIN COUNTY	COUNTY
DATE	SCALE
1/18/68	1/4\"/>

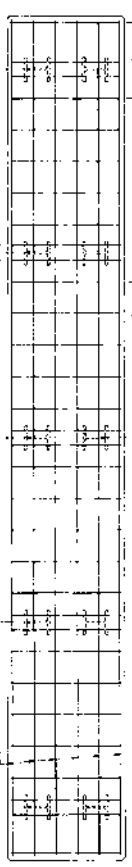
DATE	BY	CHECKED	APPROVED
11/14/14	J.M.	J.M.	J.M.

Spacing of L₂ Anchor Bolt Holes
Steps in Cap & Riser



PLAN OF CAP
Showing Concrete Dimensions, Dowel Spacing
And Spacing of Anchor Bolt Holes.

1/2" Bars C Over Piles (Typ)



PLAN OF CAP
Showing Reinforcing Steel
Steel in Steps & Riser Not Shown

5 Spacing for Bars 3 & 7



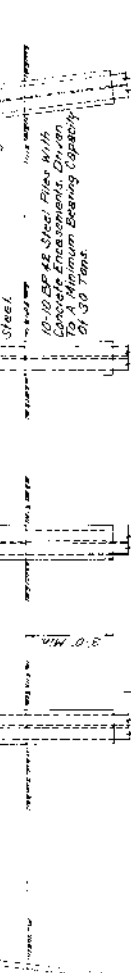
SECTION AA

2" Count of Cap



SECTION AA

1/2" Bars C Over Piles (Typ)



SECTION AA

1/2" Bars C Over Piles (Typ)



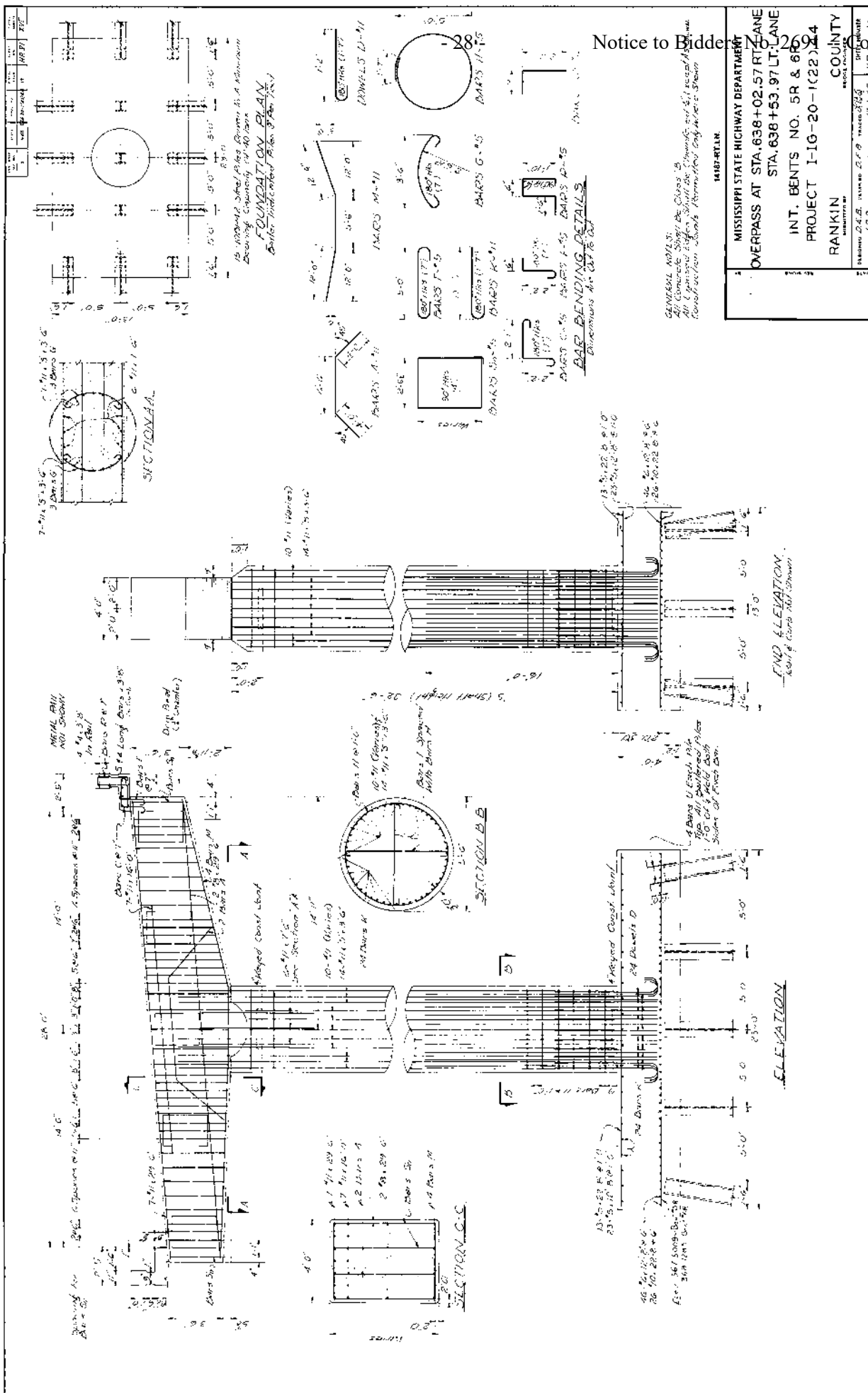
SECTION AA

Plan 403 2974

GENERAL NOTES:
Concrete in Cap & Riser Shall Be Class 'B'
All Edges Shall Be Chamfered Unless Otherwise Noted
For SECTION B-B & PILE SPACING DETAIL See Sheet No. 1418 RTLN.

MISSISSIPPI STATE HIGHWAY DEPARTMENT	
OVERPASS AT STA. 638 + 02.57 RT. LANE	
STA. 638 + 53.97 LT. LANE	
INT. BENT NO. 4 R	
PROJECT 1-IG-20-(122) 24	
RANKIN COUNTY	
DESIGNED BY	ENGINEER
CHECKED BY	DATE
APPROVED BY	DATE

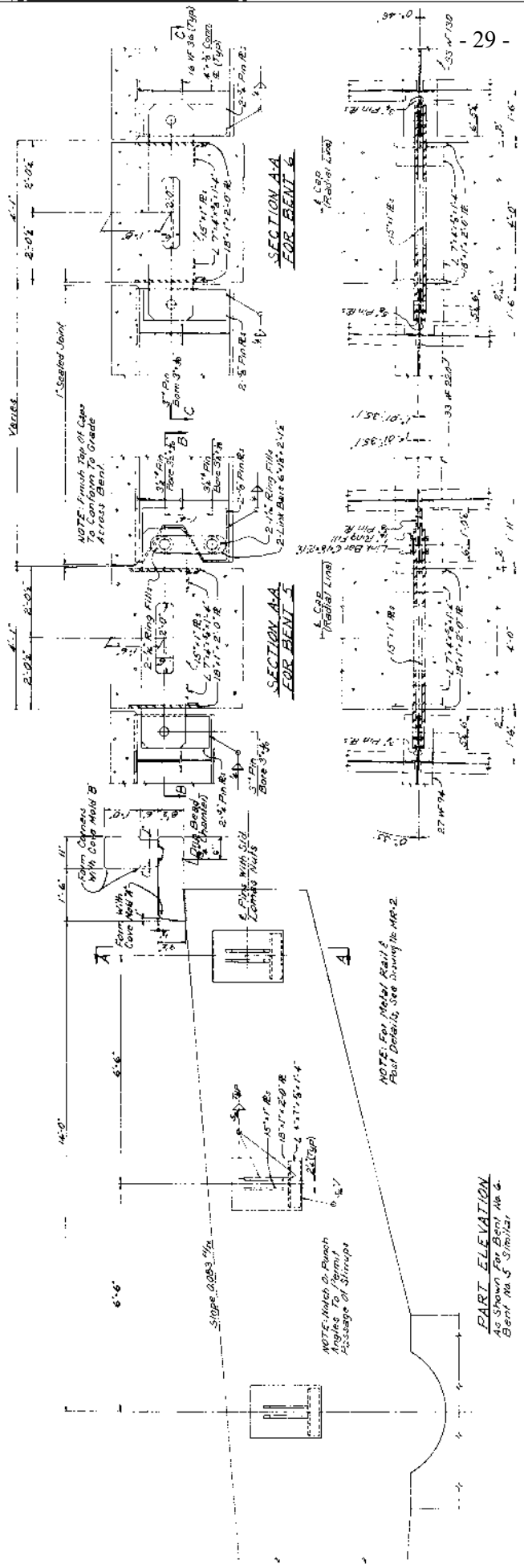
1418 RTLN.
DATE: 11/14/14
BY: J.M.



Notice to Bidder

Cont'd.

NO.	DATE	BY	CHKD.	APP.
1	11-1-58	J.S.	J.S.	J.S.
2	11-1-58	J.S.	J.S.	J.S.
3	11-1-58	J.S.	J.S.	J.S.
4	11-1-58	J.S.	J.S.	J.S.
5	11-1-58	J.S.	J.S.	J.S.



NOTE: Finish Top of Caps To Conform To Grade Across Bent.

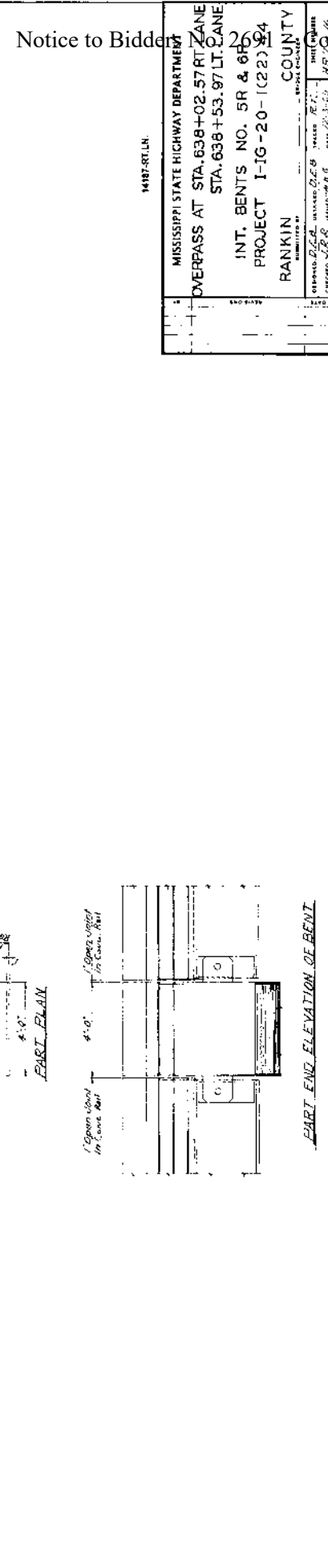
NOTE: For Metal Rails, Rail Details, See Drawing No. MR-2.

NOTE: Match D. Punch Angles To Permit Passage of Straps

NOTE: For Metal Rails, Rail Details, See Drawing No. MR-2.

NOTE: (See Structural Schedules For All Members Detailed on This Sheet)

NOTE: General Notes See Sheet No. HR-6 For Cove Mold Details, See Sheet No. HR-14 For Details of Metal Post & Railings, See Drawing No. MR-2.



Notice to Bidders

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+02.57 RT. 24
 STA. 638+53.97 LT. CANE
 INT. BENTS NO. 5R & 6R
 PROJECT I-IG-20-(122) 94

RANKIN COUNTY

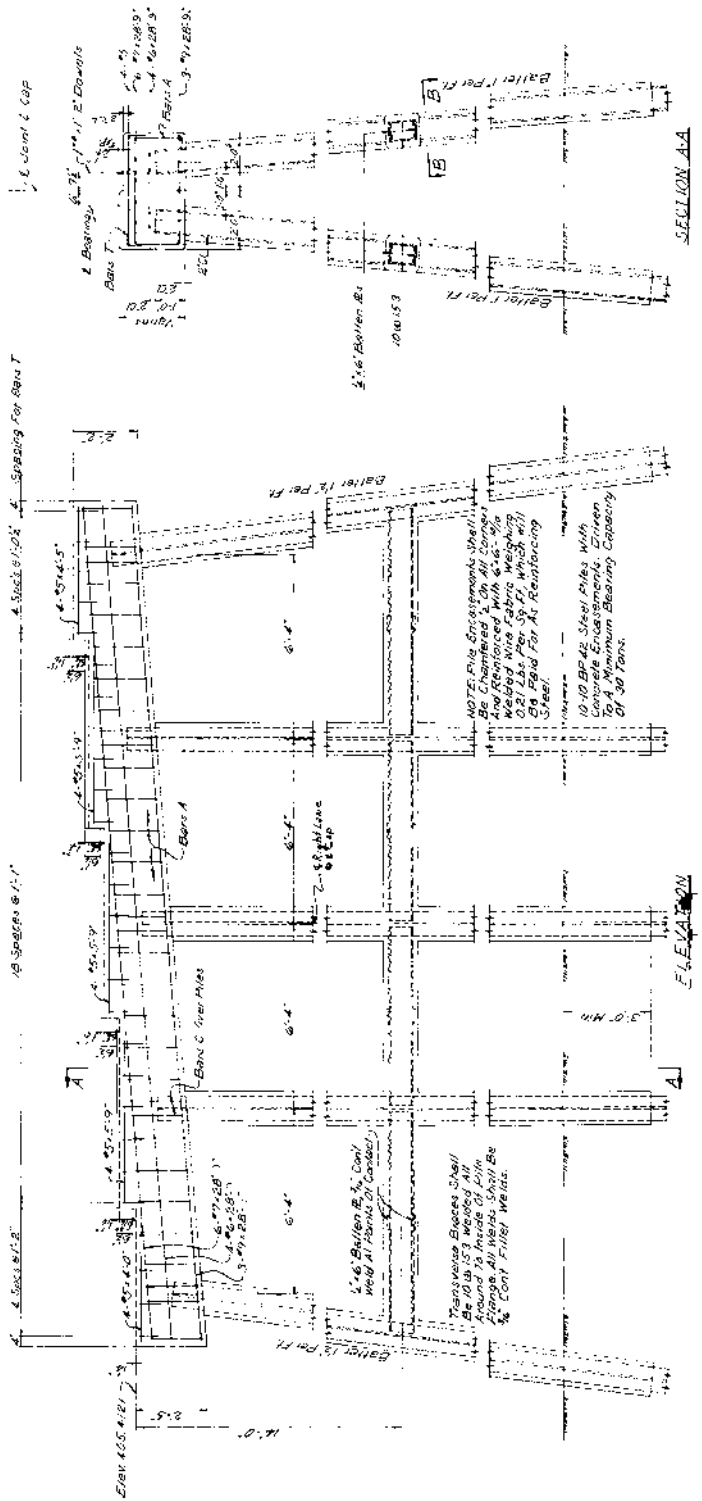
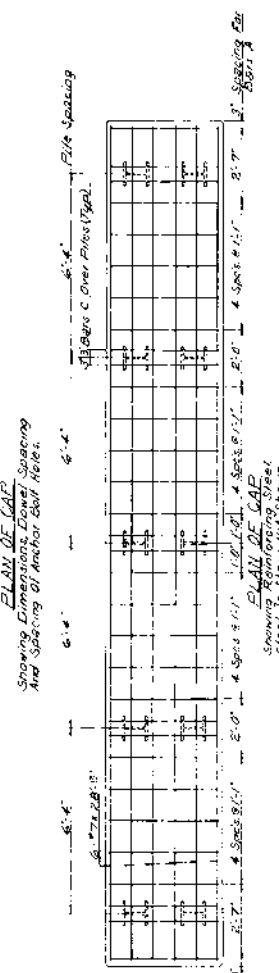
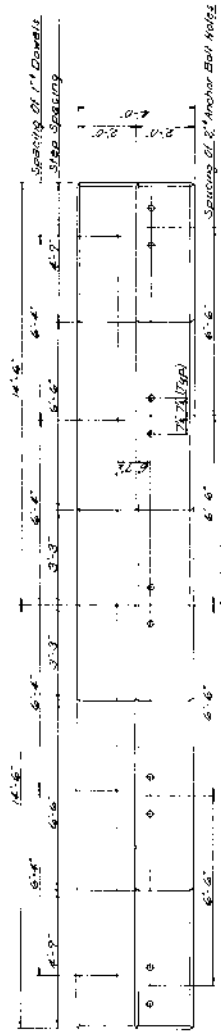
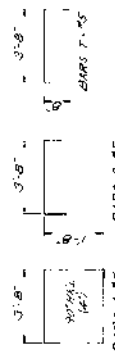
APPROVED: DATE: 11-1-58
 CHECKED: DATE: 11-1-58
 DRAWN: DATE: 11-1-58

DATE	BY	CHECKED	DATE
10/1/54	J.P.	J.P.	10/1/54
10/1/54	J.P.	J.P.	10/1/54
10/1/54	J.P.	J.P.	10/1/54

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+02.57 RT. 6 LANE
 STA. 638+53.97 LT. LANE
 INT. BENT NO. 7R
 PROJECT 1-IG-20-(122) 24
 RANKIN COUNTY

14187-ATLN
 DRAWN BY J.P. DATE 10/1/54
 CHECKED BY J.P. DATE 10/1/54
 SCALE 1/8" = 1'-0"

GENERAL NOTES:
 Concrete to Bent Shall Be Class B.
 All Eggs Shall Be Cleaned & Unset Otherwise Void.
 For SECTION B-5 & PILE GULCH DETAILS See Sheet 1003



DATE	NO.	BY	REVISION
10/15/11	1	WJ	ISSUE FOR BIDDING

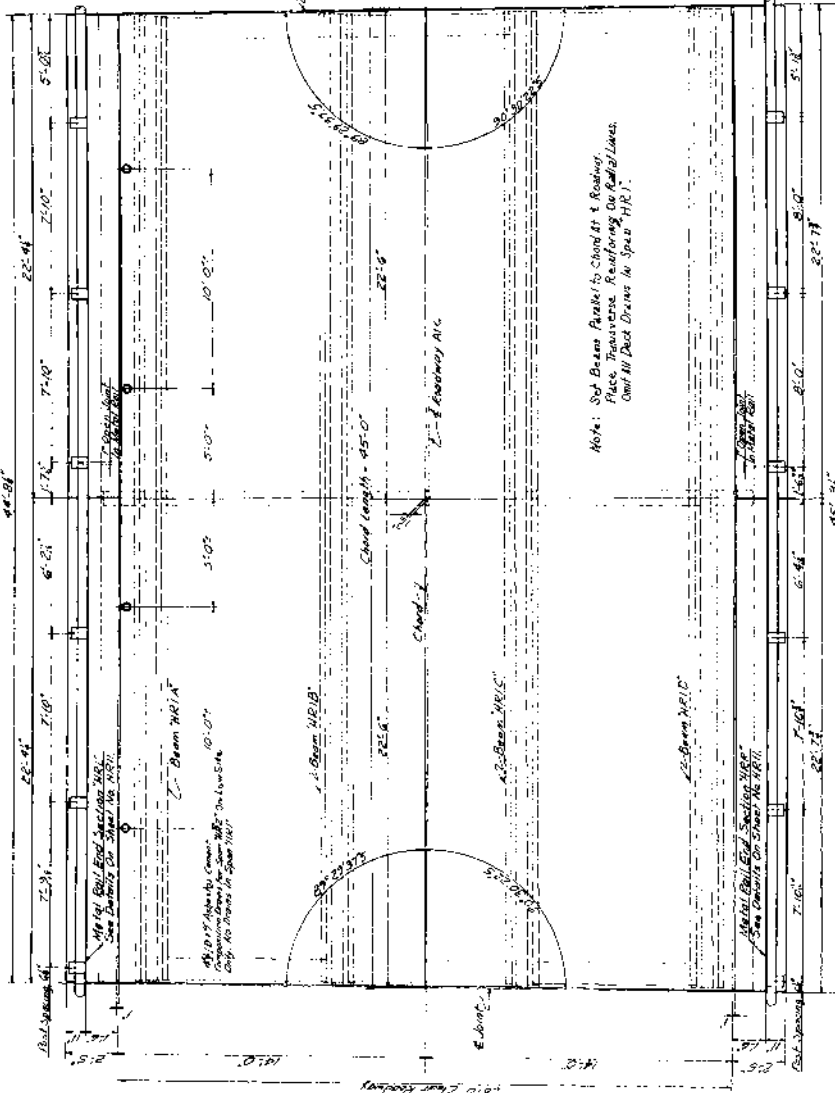
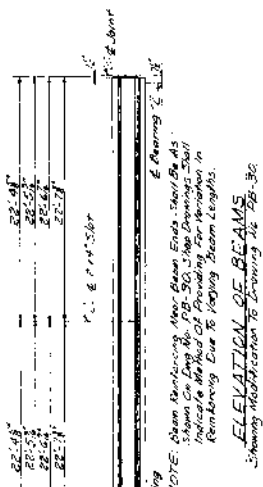


CHART "A" SPAN HR1

SUPPORT ELEVATIONS FOR

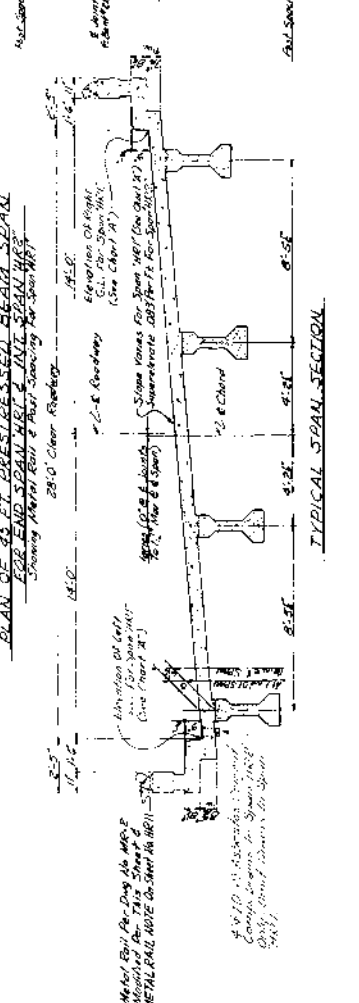
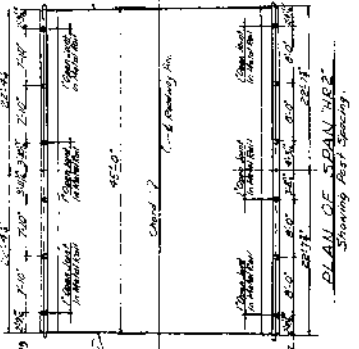
Location	Span HR1	Span HR2	Span HR3
Left End	426.6498	427.2579	427.8660
Right End	426.6498	427.2579	427.8660



NOTE: Beam Reinforcing Near Beam Ends Shall Be As Shown On Drawing PB-30. Shop Drawings Shall Indicate Method Of Providing Reinforcing In Remaining Part Of Span Lengths.

ELEVATION OF BEAMS

Showing Modification To Drawing PB-30



All Reinforcing Compressive, Tensile Debris And General Requirements Of Drawings No. PB-30 & PB-45 Shall Apply Unless Specifically Modified By Curve Details On This Sheet

14187-RT LN.

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+02.57 RT LANE
 MODIFICATION FOR 45 FT SPANS
 HR1 & HR2

PROJECT FIG-20-(22)44

RANKIN COUNTY

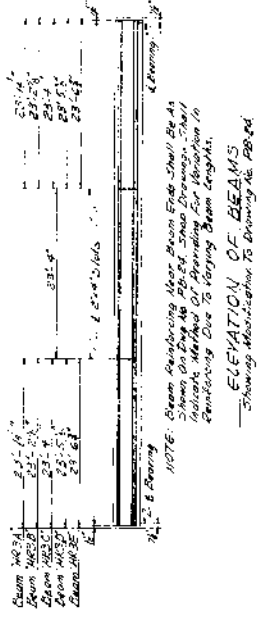
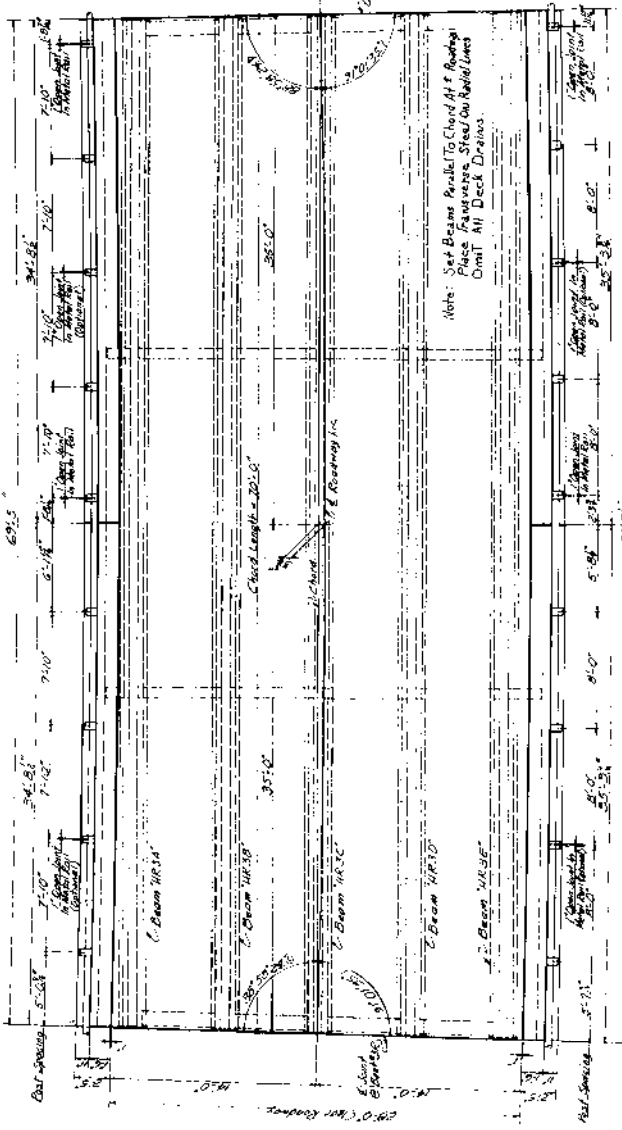
DATE: 10/15/11

DESIGNED BY: WJ

CHECKED BY: J.P.R.

SCALE: AS SHOWN

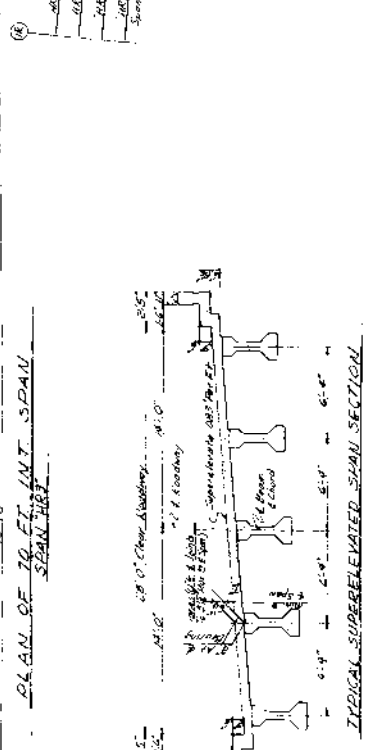
NO.	DATE	BY	REVISION
1	10/10/88
2	10/10/88



All Covering Dimensions, Types, Grades and General Requirements Drawings 40, 41, 42, 43 and 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

NO.	DATE	BY	REVISION
1	10/10/88
2	10/10/88

ERECTOR PLAN
Showing Location of Beams & Joists

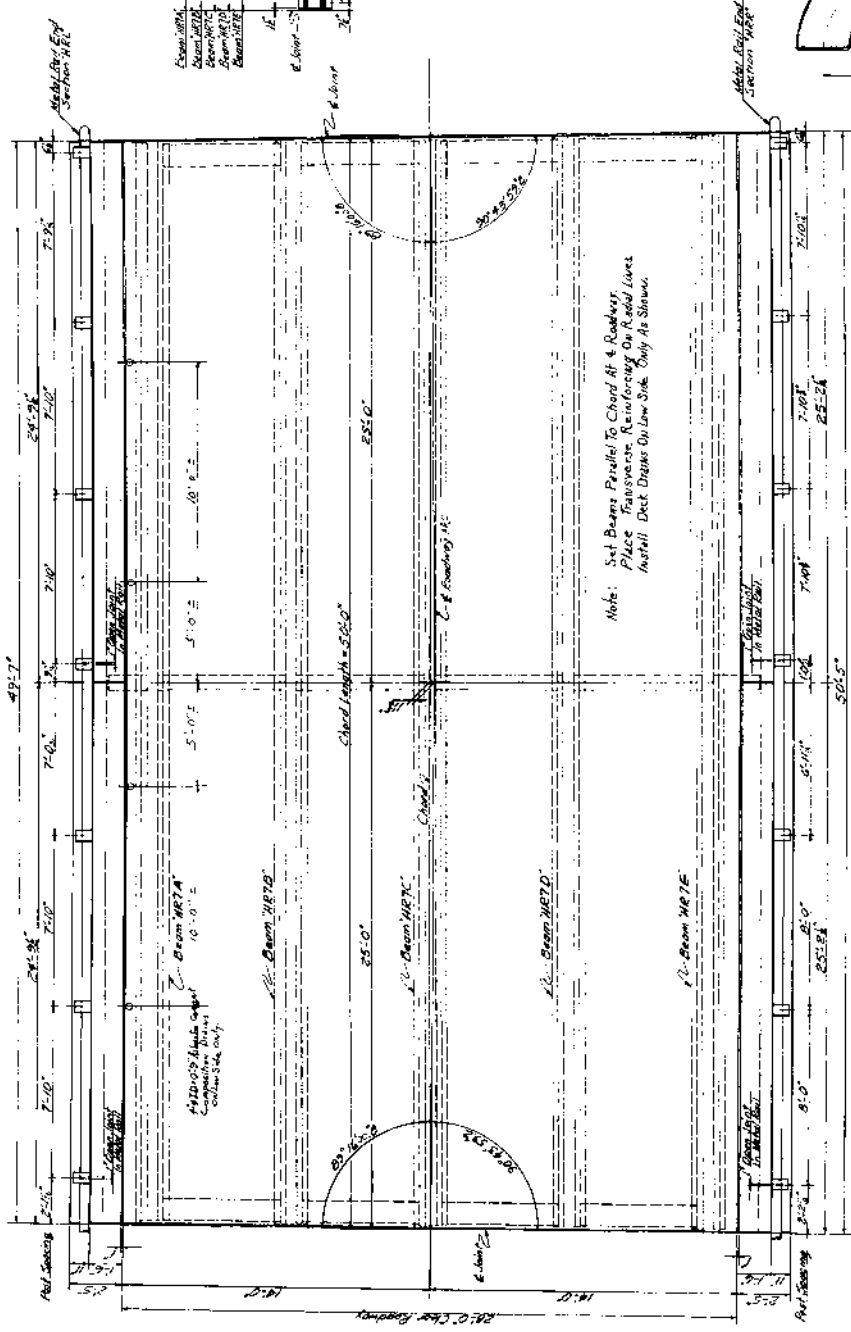


MISSISSIPPI STATE HIGHWAY DEPARTMENT
OVERPASS AT STA 638+02.57 RT LANE
MODIFICATION FOR 70 FT. SPAN "HR 3"
PROJECT HG-20-(22)44
RANKIN COUNTY

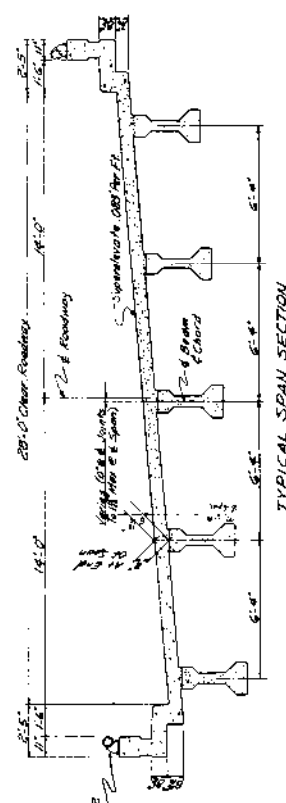
14837 RT L.N.

DESIGNED BY: ...
CHECKED BY: ...
DATE: 10/10/88

DATE	BY	CHKD	APP'D
10/1/88	J.R.S.	J.R.S.	J.R.S.
10/1/88	J.R.S.	J.R.S.	J.R.S.
10/1/88	J.R.S.	J.R.S.	J.R.S.



PLAN OF 30 FT PRESTRESSED BEAM SPAN



TYPICAL SPAN SECTION

Beam No.	24-104
Beam Length	24'-0"
Beam Height	24'-0"
Beam Width	24'-0"
Beam Spacing	24'-0"
Beam No.	24-105
Beam Length	24'-0"
Beam Height	24'-0"
Beam Width	24'-0"
Beam Spacing	24'-0"

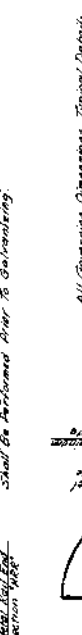
ELEVATION OF BEAMS
Showing Modification To Drawing No. 24-104

DETAIL OF METAL RAIL END SECTIONS



METAL RAIL NOTE: All dimensions shown on the plans pertaining to metal rails are measured horizontally along the outside face of curbs. Actual fabrication lengths of metal rails shall be determined by the fabricator. Where applicable, transition splicing shall be performed in accordance with the provisions of the American Institute of Steel Construction, Inc. Metal rails shall be aligned parallel to the face of the curb. Curbs shall be constructed of concrete or masonry corresponding to the span radius bending of steel rails. Splicing shall be performed prior to bolting.

PIPE ELBOW RAIL RETURN
Standing 5' minimum. See Welding Elevation for details. This detail shall be used for all spans. Allow for welding. This detail shall be used for all spans. Drawing No. MR-2, Detail 'B'.



PIPE ELBOW RAIL RETURN
Standing 5' minimum. See Welding Elevation for details. This detail shall be used for all spans. Allow for welding. This detail shall be used for all spans. Drawing No. MR-2, Detail 'B'.

NOTE: Beam Endings Near Beam Ends Shall Be As Shown On Drawing No. 24-104. Shop Drawings Shall Indicate Method Of Splicing For Members In Alignment Due To Varying Beam Lengths.

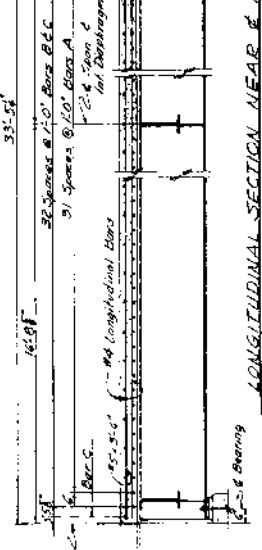
NOTE: Beam Endings Near Beam Ends Shall Be As Shown On Drawing No. 24-104. Shop Drawings Shall Indicate Method Of Splicing For Members In Alignment Due To Varying Beam Lengths.

NOTE: Beam Endings Near Beam Ends Shall Be As Shown On Drawing No. 24-104. Shop Drawings Shall Indicate Method Of Splicing For Members In Alignment Due To Varying Beam Lengths.

NOTE: Beam Endings Near Beam Ends Shall Be As Shown On Drawing No. 24-104. Shop Drawings Shall Indicate Method Of Splicing For Members In Alignment Due To Varying Beam Lengths.

MISSISSIPPI STATE HIGHWAY DEPARTMENT
OVERPASS AT STA 658+02.57 FT. L&M
MODIFICATION FOR 50 FT SPAN HR. 6
PROJECT HG-20(22)44
RANKIN COUNTY

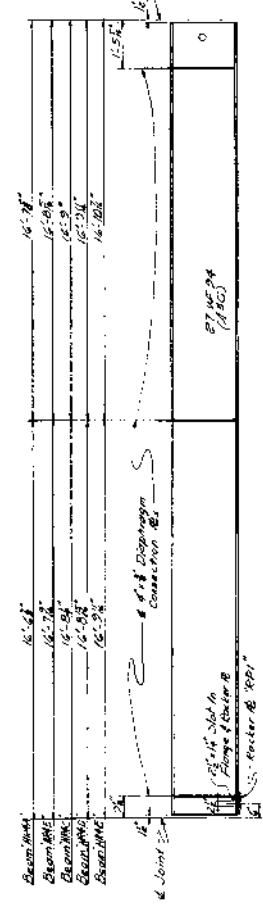
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NOTE: See Sheet No. H-10 For Beam Connection Details.

LONGITUDINAL SECTION NEAR & ROADWAY

All Dimensions Shown Are Along & Perpendicular

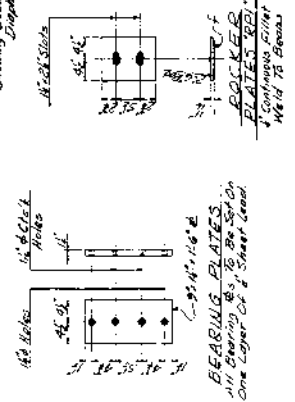


ELEVATION OF BEAMS

Showing Beam Lengths & Location Of Diaphragm Connection Etc.

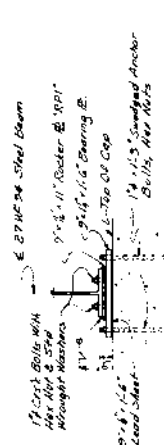
FOR GENERAL NOTES AND DETAILS OF BEARING & CONNECTION SEE SHEET H-10A.

FOR TYPICAL SPAN SECTIONS AND DETAILS OF BEARINGS, BRACING & JOINTS SEE SHEET H-10B.

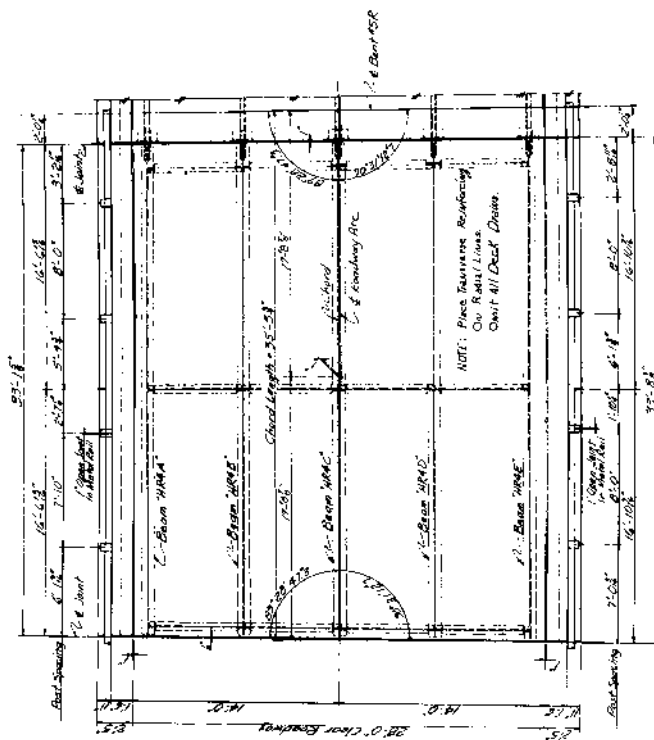


BEARING PLATES

One Layer Of & Steel Deck

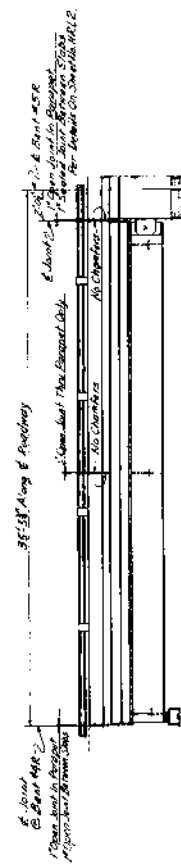


TYPICAL BEARING ASSEMBLY

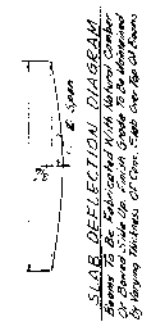


PLAN OF 35'-5 1/2\"/>

NOTE: Place Reinforcing On Right Lines Over All Deck Drains.



ELEVATION



Beams To Be Reinforced With Heavy Curbs. Slab To Be Reinforced With Heavy Curbs. Slab To Be Reinforced With Heavy Curbs.

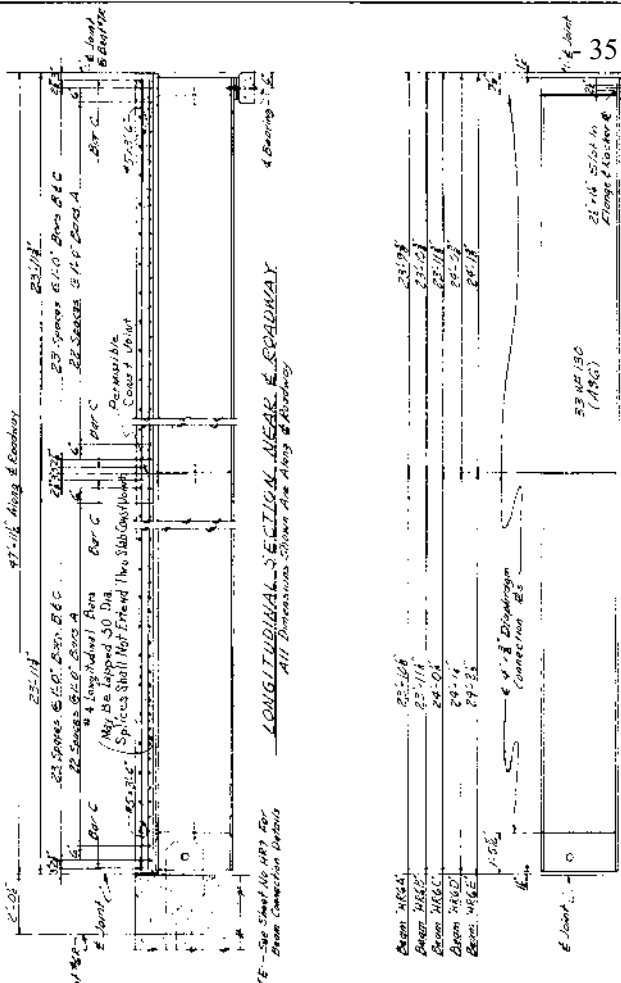
H-10B-RT-10

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA 638+02.57 RT LANE
 DETAILS OF 35'-5 1/2" SPAN 'H-10' PROJECT H-10(2) 10/2/54

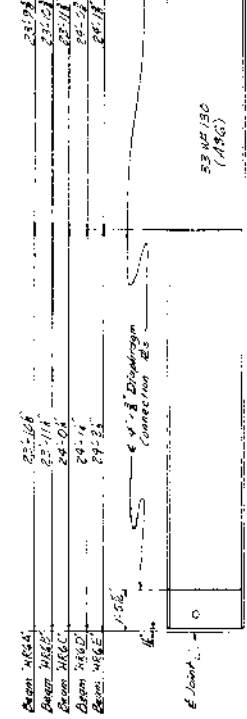
RANKIN COUNTY

REVISIONS
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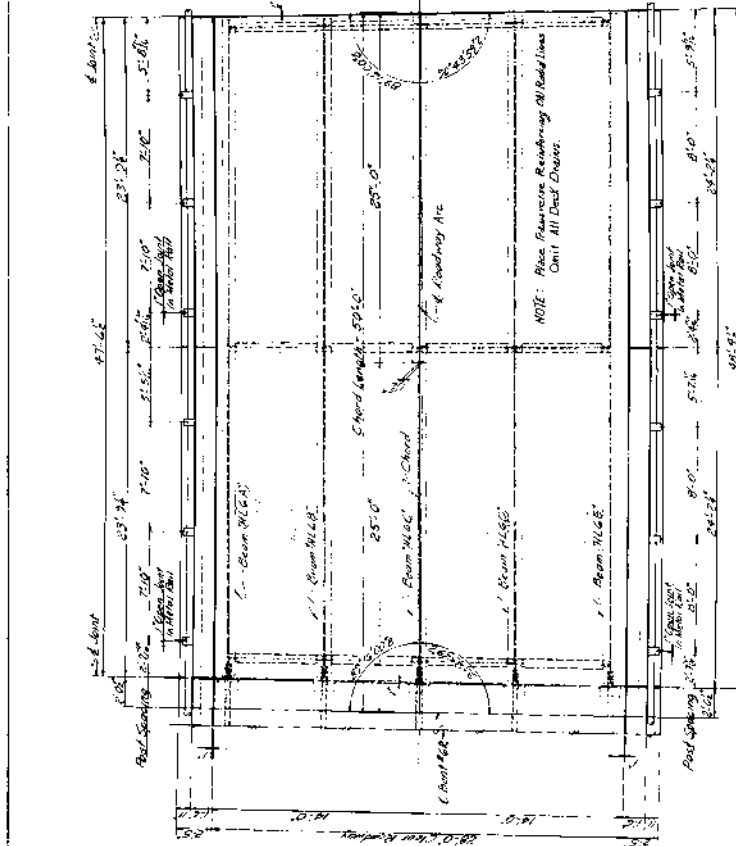
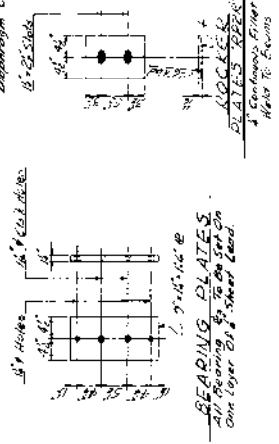
DATE	BY	CHKD	APP'D	REV.
11/15/65	J.P.P.	J.P.P.	J.P.P.	1



NOTE - See Sheet No. 107 for Beam Connection Details
All Dimensions Shown are Along Roadway

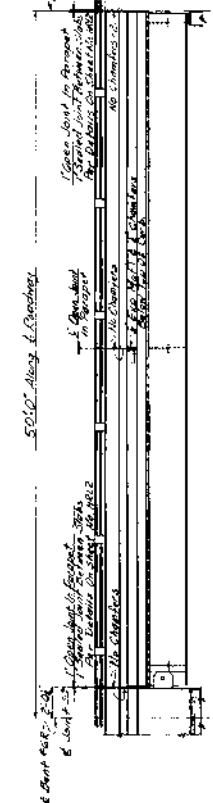


NOTE: For General Notes and Details of Railings & Concrete See Sheet No. 106
For Joists' Spacing and Details of Diaphragms, Refer to Sheet No. 105

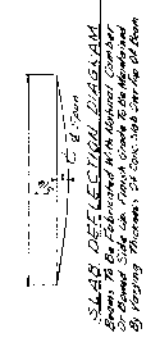


NOTE: Place Reinforcing Railings on Roadway Only All Deck Details

PLAN OF SPILT STEEL BEAM SPAN



ELEVATION

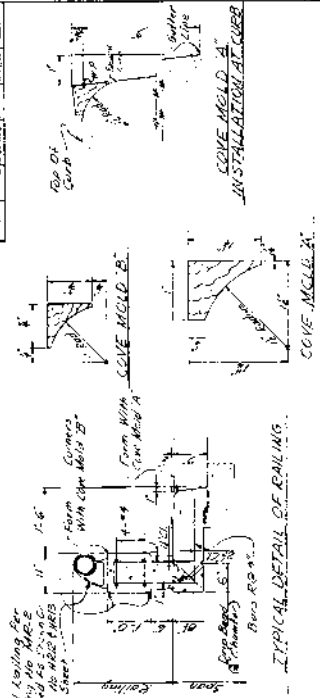


SLAB DEFLECTION DIAGRAM
Beams to be Reinforced with Topical Concrete
to Accommodate Deflection of Slab
By Paying Thickness of Concrete Slab 2\"/>

MISSISSIPPI STATE HIGHWAY DEPARTMENT
OVERPASS AT STA 638+02.57 RT LANE
PROJECT FIG-20-(22)4
RANKIN COUNTY

DESIGNED BY	DATE	SCALE	REV.
J.P.P.	11/15/65	AS SHOWN	1

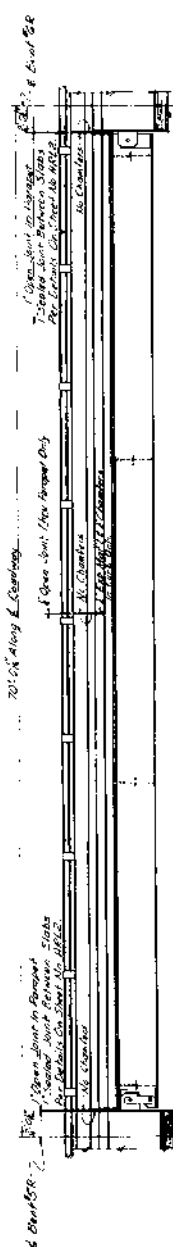
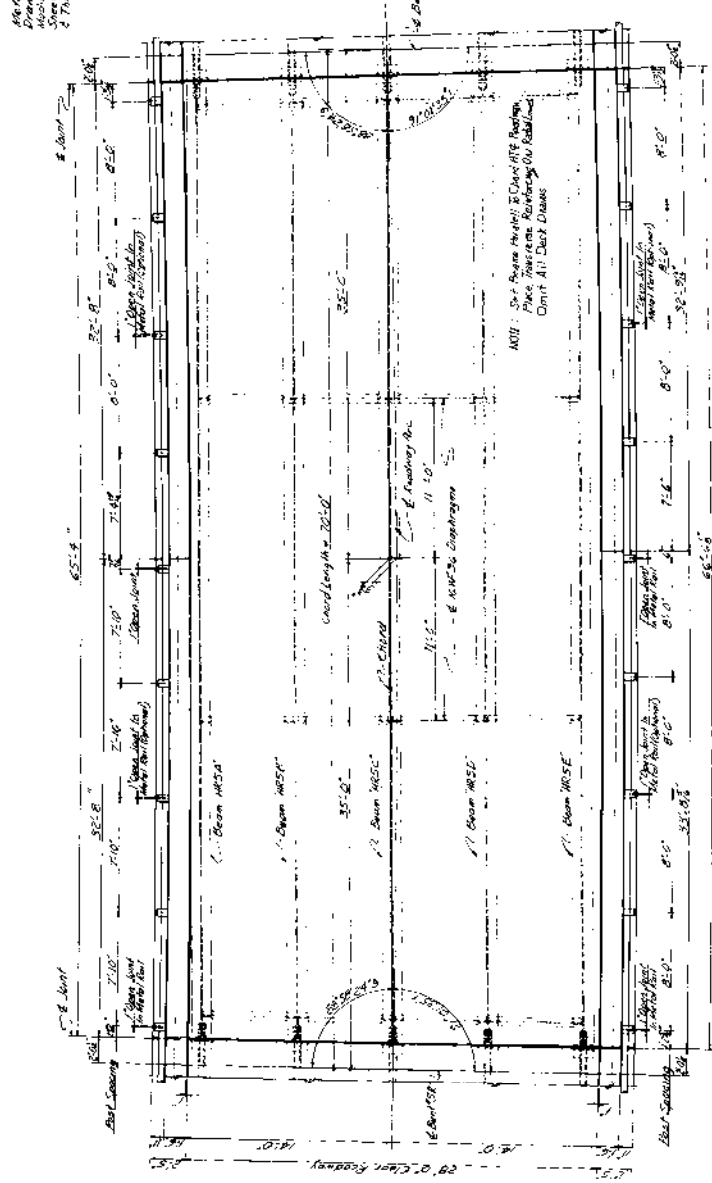
DATE	BY	CHKD	APP'D
11/15/00	J.M.	J.M.	J.M.
11/15/00	J.M.	J.M.	J.M.
11/15/00	J.M.	J.M.	J.M.



For Detail Iron Sections And Details Of Beams, Trussways, Ruminating & Stab Elements See Sheet No. 4015.

- 36 -

GENERAL NOTES:
Concrete in Pumping Small Ex. Class 2. All Other Concrete Shall Be Class 2.
All Edges Shall Be Chamfered 1/4" Except As Noted.
All Structural Steel Shall Be From One Shop. Shop Of Steel Fabricator Shall Be Responsible For All Steel Fabrication.
After Fabrication, All Steel Members Shall Be Galvanized.
Aluminum For Curb Or A
Inaccessible Parts Shall Be Only Painted Once To Protect
Bearing And Connections to Be Made In Advance. All Welds
All Welds And Connections to Be Made In Advance. All Welds
To Be Made In Advance. All Welds To Be Made In Advance.
Railway Bridges And Special Approaches To Be Made In Advance.
Metal Joists Shall Conform To The Requirements of AISC.
As Shown On Plans, All Metal Shall Be Galvanized.



NOTE: See Sheet No. 4015 For Beam Connection Details.

65/11" Along & Perpendicular

SLAB DEFLECTION DIAGRAM

1. Deflection of Slab Due to Self Weight

2. Deflection of Slab Due to Live Load

3. Deflection of Slab Due to Finish Grade To Be Achieved

4. Working Thickness of Concrete Slab Over Top of Beams

NOTE: See Sheet No. 4015 For Beam Connection Details.

14187 PART L.N.

MISSISSIPPI STATE HIGHWAY DEPARTMENT
OVERPASS AT STA 638+02.57 RT LANE
DETAILS OF 70 FT. SPAN HR 5'

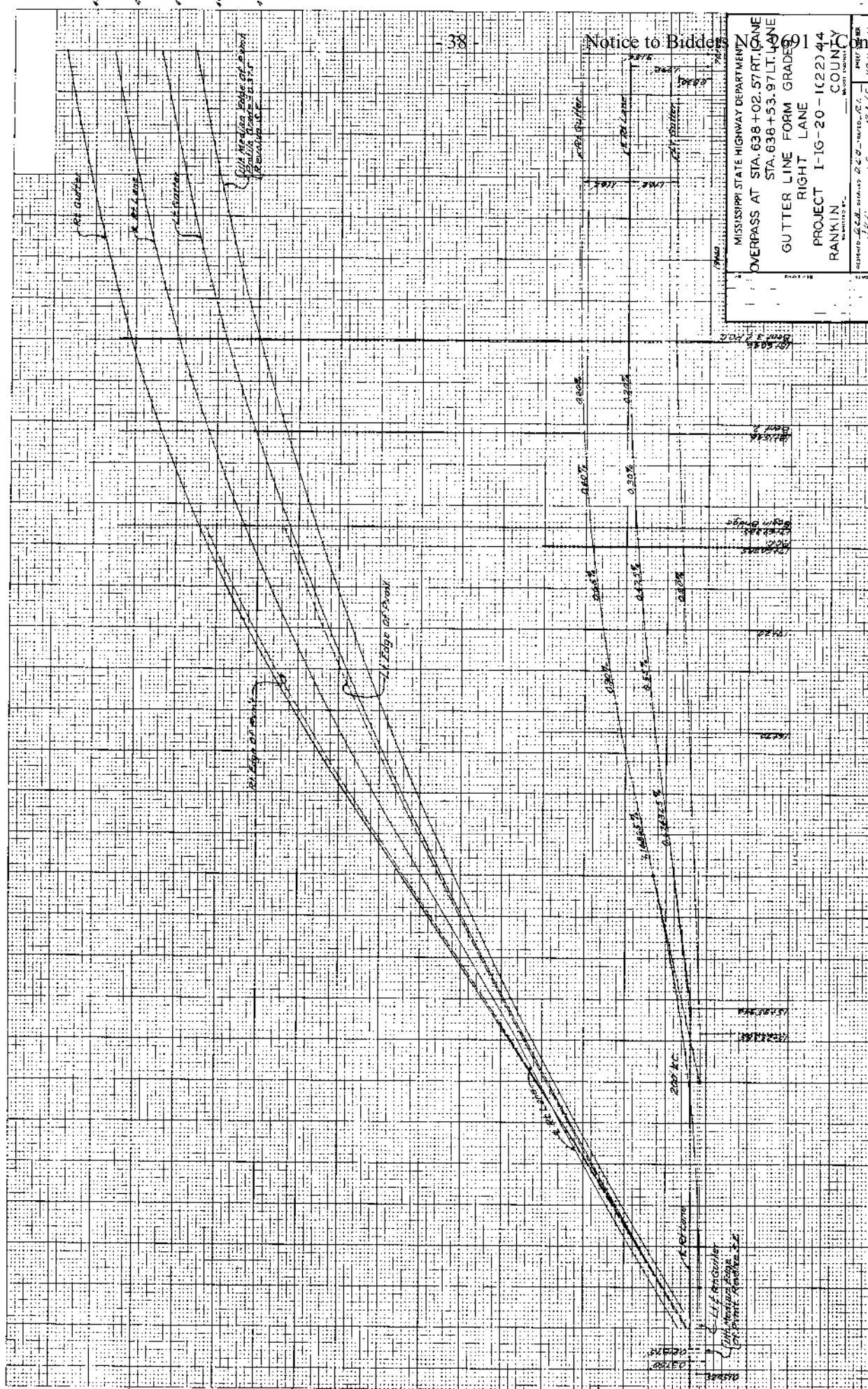
PROJECT: HG-20(122)44
RANKIN COUNTY

DATE: 11/15/00

BY: J.M.

CHKD: J.M.

APP'D: J.M.

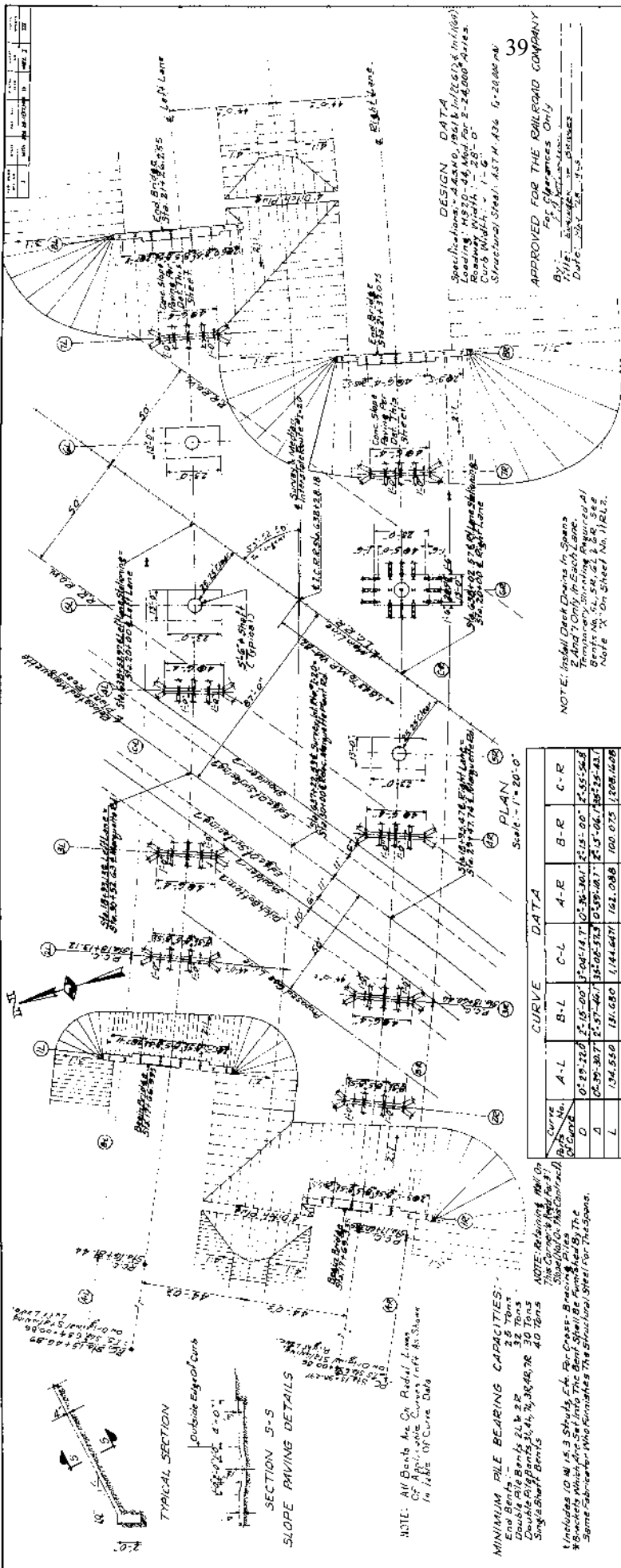


MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+02.57 RT. 104 NE
 STA. 638+53.97 LT. 406
 GUTTER LINE FORM GRADES
 RIGHT LANE
 PROJECT I-10-20-1622/44
 RANKIN COUNTY
 MISSISSIPPI
 DRAWN BY: [Name] DATE: [Date]
 CHECKED BY: [Name] DATE: [Date]
 APPROVED BY: [Name] DATE: [Date]

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FINAL SHEET
 DATE: [Date]
 SCALE: [Scale]



CURVE DATA

Curve No.	A-L	B-L	C-L	A-R	B-R	C-R
D	0° 29' 22.0"	2° 05' 00"	1° 04' 11.7"	0° 36' 30.1"	2° 15' 20"	2° 55' 56.8"
A	25° 39' 30.7"	2° 57' 40.7"	35° 06' 57.3"	0° 59' 48.7"	2° 57' 06.7"	35° 25' 43.1"
L	134.550	181.080	1,144.847	100.075	1,208.108	1,208.108
R	1,706.477	2,546.479	1,864.86	945.077	2,546.479	1,253.86

NOTE: Simple Curves C-L & C-R Have Been Extended Mainly And Combined Curves Have Been Used In Lieu Of Spirals As Shown On Roadway Plans.

ESTIMATED QUANTITIES - LEFT LANE

ITEM	Quantity	Unit	Price	Total
Concrete	172.11	cu. yds.	4.00	688.44
Reinforcing Steel	125.05	tons	28.00	3,501.40
Formwork	1,144.85	sq. ft.	0.10	114.48
Excavation	1,144.85	cu. yds.	1.00	1,144.85
Backfill	1,144.85	cu. yds.	1.00	1,144.85
Gravel	1,144.85	cu. yds.	1.00	1,144.85
Asphalt	1,144.85	sq. yds.	0.10	114.48
Paint	1,144.85	sq. ft.	0.05	57.24
Other	1,144.85	sq. ft.	0.05	57.24
Total				10,000.00

ESTIMATED QUANTITIES - RIGHT LANE

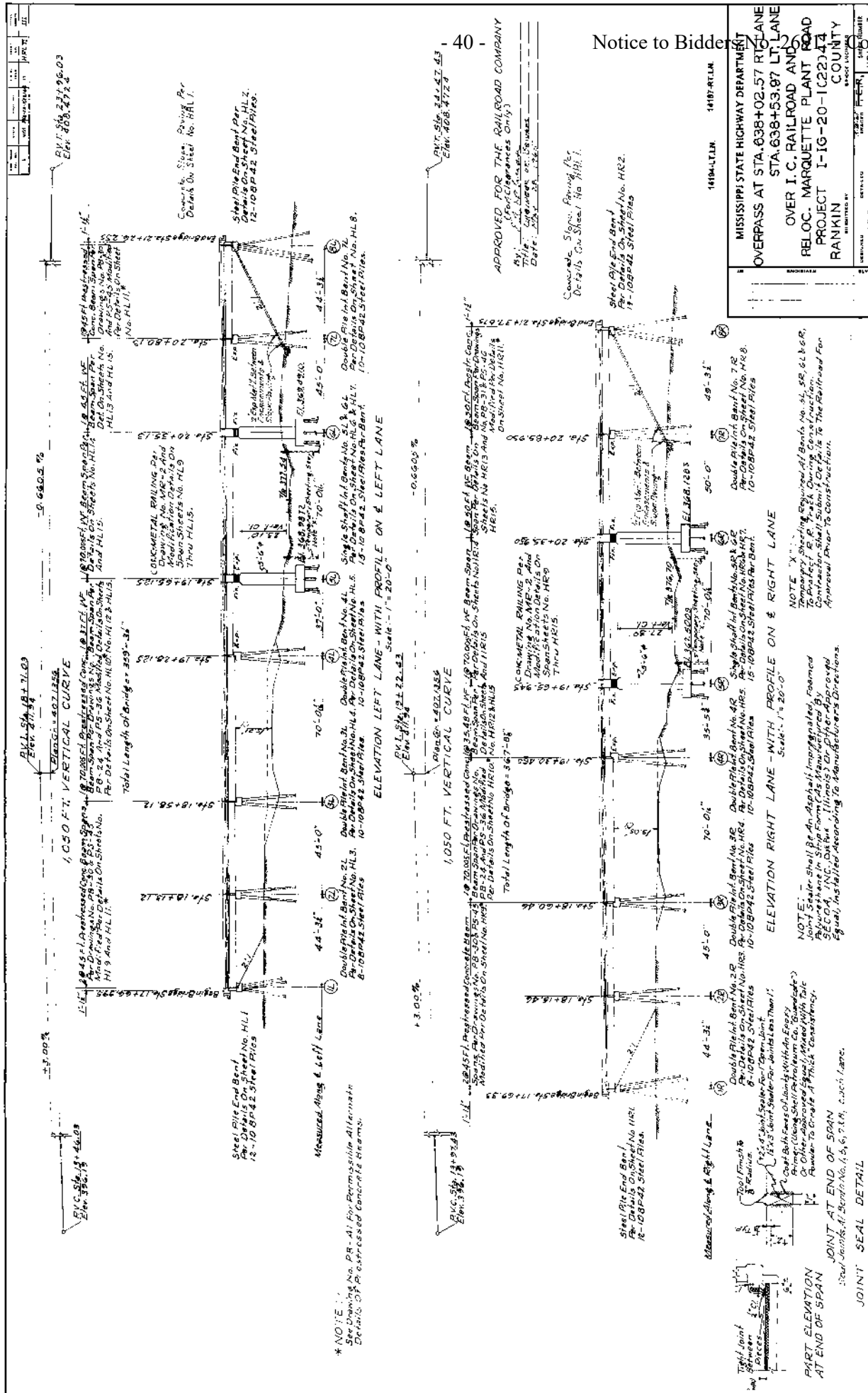
ITEM	Quantity	Unit	Price	Total
Concrete	172.11	cu. yds.	4.00	688.44
Reinforcing Steel	125.05	tons	28.00	3,501.40
Formwork	1,144.85	sq. ft.	0.10	114.48
Excavation	1,144.85	cu. yds.	1.00	1,144.85
Backfill	1,144.85	cu. yds.	1.00	1,144.85
Gravel	1,144.85	cu. yds.	1.00	1,144.85
Asphalt	1,144.85	sq. yds.	0.10	114.48
Paint	1,144.85	sq. ft.	0.05	57.24
Other	1,144.85	sq. ft.	0.05	57.24
Total				10,000.00

Notice to Bidders

SPECIAL PROVISION NUMBERS REQUIRED:
 Provisions 1070-10, 1070-11, 1070-12, 1070-13, 1070-14, 1070-15, 1070-16, 1070-17, 1070-18, 1070-19, 1070-20, 1070-21, 1070-22, 1070-23, 1070-24, 1070-25, 1070-26, 1070-27, 1070-28, 1070-29, 1070-30, 1070-31, 1070-32, 1070-33, 1070-34, 1070-35, 1070-36, 1070-37, 1070-38, 1070-39, 1070-40, 1070-41, 1070-42, 1070-43, 1070-44, 1070-45, 1070-46, 1070-47, 1070-48, 1070-49, 1070-50, 1070-51, 1070-52, 1070-53, 1070-54, 1070-55, 1070-56, 1070-57, 1070-58, 1070-59, 1070-60, 1070-61, 1070-62, 1070-63, 1070-64, 1070-65, 1070-66, 1070-67, 1070-68, 1070-69, 1070-70, 1070-71, 1070-72, 1070-73, 1070-74, 1070-75, 1070-76, 1070-77, 1070-78, 1070-79, 1070-80, 1070-81, 1070-82, 1070-83, 1070-84, 1070-85, 1070-86, 1070-87, 1070-88, 1070-89, 1070-90, 1070-91, 1070-92, 1070-93, 1070-94, 1070-95, 1070-96, 1070-97, 1070-98, 1070-99, 1070-100.

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+02.57 RT. LANE
 STA. 638+53.97 LT. LANE
 OVER I.C. RAILROAD AND
 RELOC. MARQUETTE PLANT ROAD
 PROJECT I-IG-20-1(22)47
 RANKIN COUNTY

DATE: 10/2/55
SCALE: 1" = 20'-0"
BY: _____
CHECKED: _____
APPROVED: _____



105

End of Span - 10'0" Seal Detail

Single Span - 10'0" Seal Detail

Double Span - 10'0" Seal Detail

APPROVED FOR THE RAILROAD COMPANY
 BY: [Signature]
 Title: [Title]
 Date: [Date]

Concrete Slabs: Reinforcing Bar Details On Sheet No. HR11.

Steel Pile End Band Per Details On Sheet No. HL2.

12-10BP42 Steel Piles.

APPROVED FOR THE RAILROAD COMPANY
 BY: [Signature]
 Title: [Title]
 Date: [Date]

Concrete Slabs: Reinforcing Bar Details On Sheet No. HR11.

Steel Pile End Band Per Details On Sheet No. HL2.

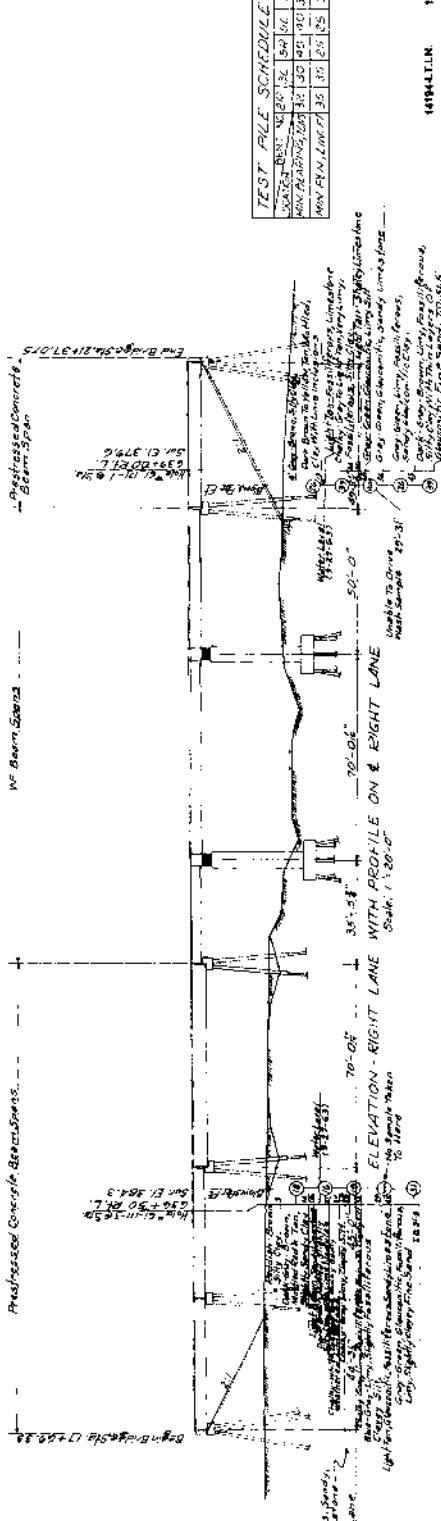
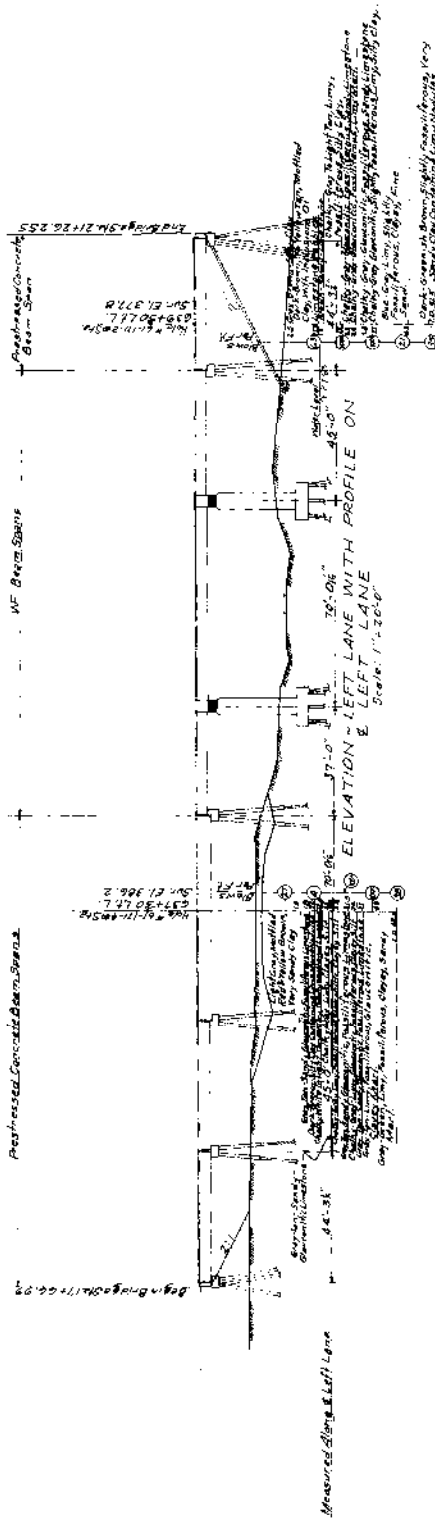
12-10BP42 Steel Piles.

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+02.57 RT. LANE
 OVER I. C. RAILROAD AND
 RELOC. MARQUETTE PLANT ROAD
 PROJECT I-IG-20-1C22)43
 RAINKIN COUNTY

DATE: 12-23-65
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 SCALE: AS SHOWN

14187-RTLM
 14187-RTLM

NO.	DATE	BY	REVISION
1	10/20/11	WJ	ISSUE FOR BIDDING
2	11/15/11	WJ	REVISED PER COMMENTS



TEST PILE SCHEDULE

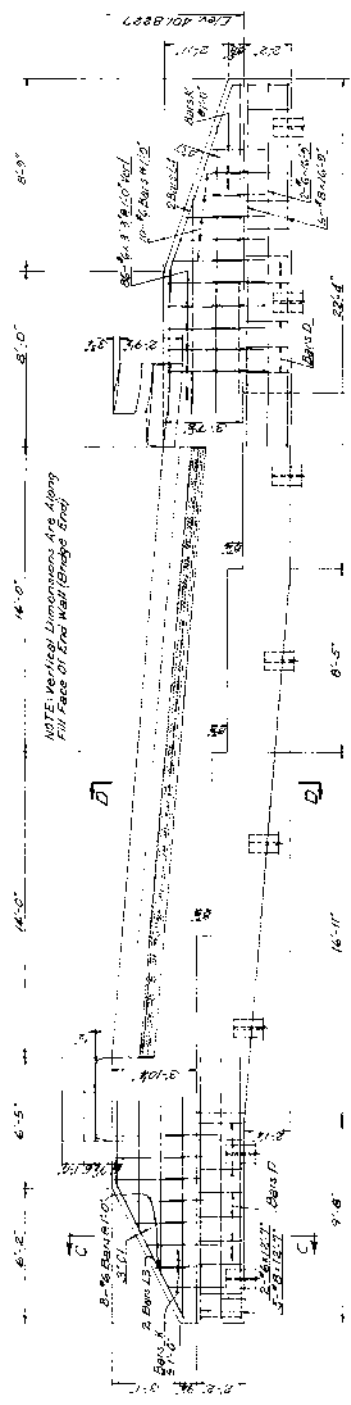
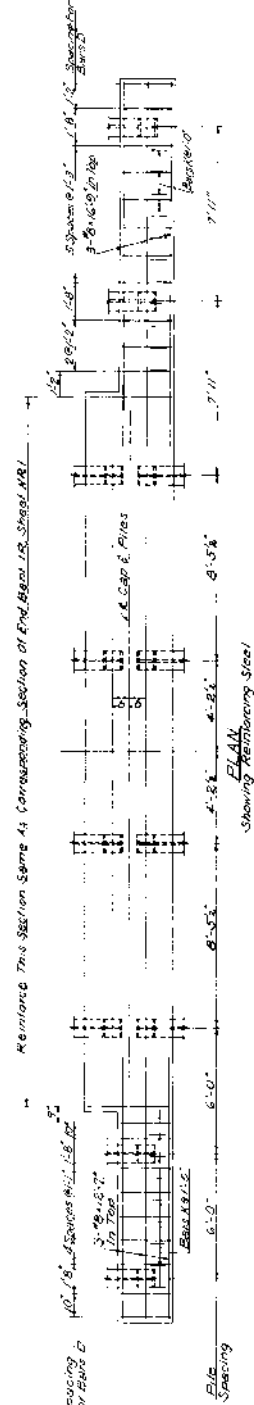
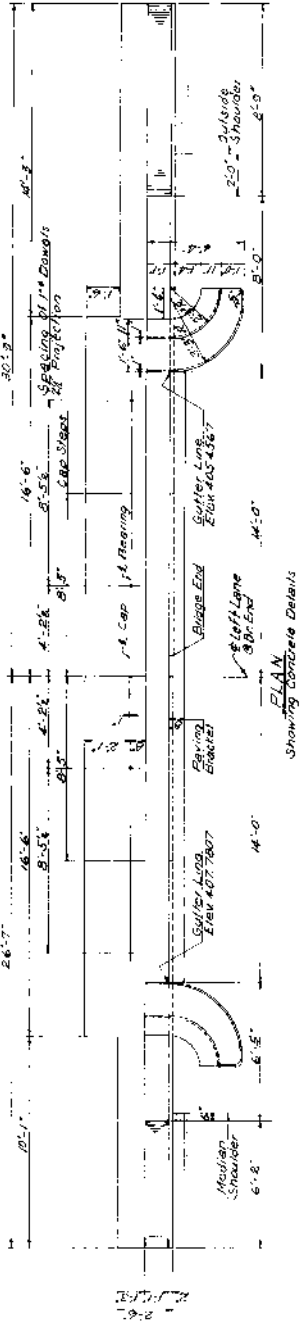
NO.	DATE	BY	REVISION
1	10/20/11	WJ	ISSUE FOR BIDDING
2	11/15/11	WJ	REVISED PER COMMENTS

FOUNDATION NOTE :-
 Boring Data Shown Above is Provided for Information Only and
 is Not to be Used for Construction Purposes is Not to be Used. The Above
 Boring Data is Only Representative. These and Other Borings are on
 File in the Bridge Division.

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+02.57 R/T LANE
 STA. 638+53.97 L.T. LANE
 OVER I.C. RAILROAD AND
 RELOC. MARQUETTE PLANT ROAD
 PROJECT I-10-20-1C(2)4A
 RANKIN COUNTY

DATE: 11/15/11
 DRAWN: WJ
 CHECKED: WJ
 SCALE: AS SHOWN

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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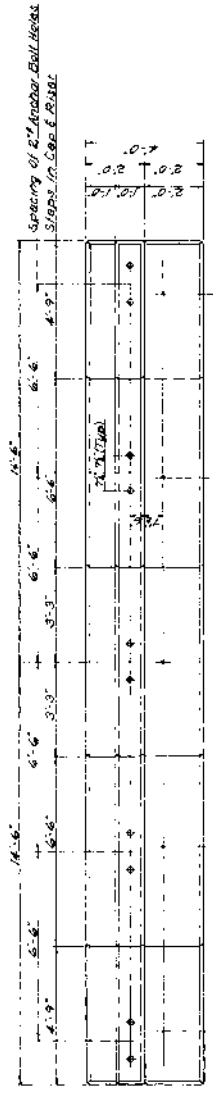


For GENERAL NOTES, See Sheet No. MR-1
For SHOWING OF REINFORCING STEEL, See Sheet No. MR-2
See Sheet No. MR-3

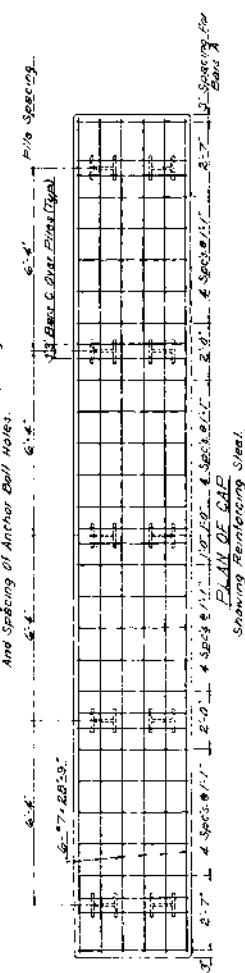
14194-LTUN

MISSISSIPPI STATE HIGHWAY DEPARTMENT	
OVERPASS AT STA. 638+02.57 RT. 16	
STA. 638+53.97 LT. LANE	
END BENT NO. 8L	
PROJECT I-IG-20-1(22)44	
RANKIN COUNTY	
DATE: 04/24/85	SCALE: 1/4" = 1'-0"
DESIGNED BY: J.E. HARRIS	CHECKED BY: J.E. HARRIS
APPROVED BY: J.E. HARRIS	DATE: 04/24/85

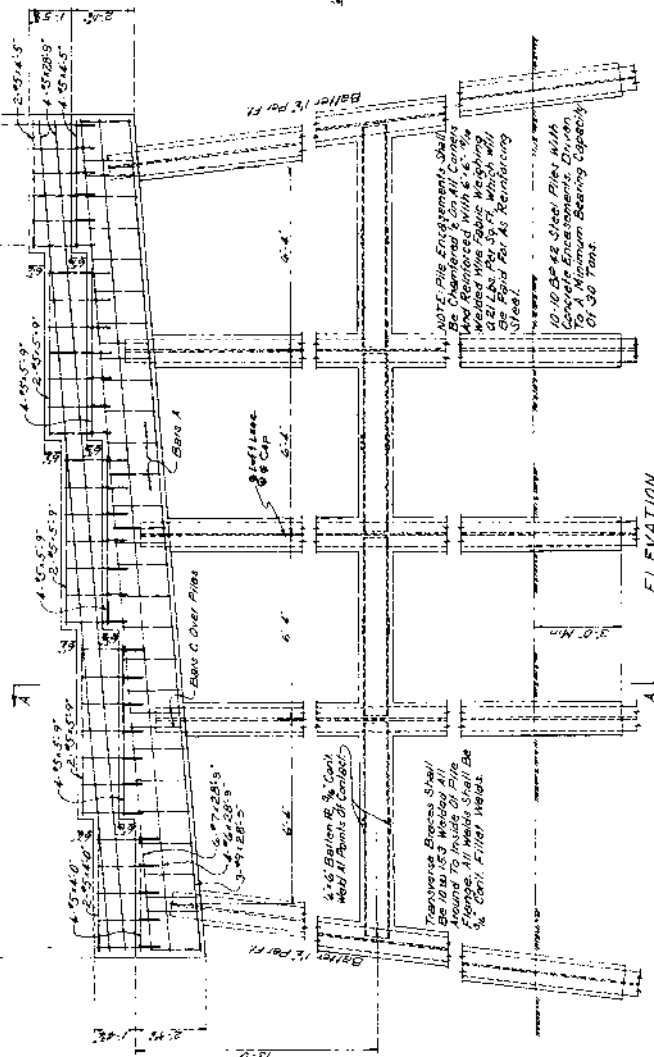
DATE	BY	CHKD	APP'D
11/15/11	J.P.	J.P.	J.P.



PLAN OF CAP
Showing Concrete Dimensions, Dowel Spacing
And Spacing of Anchor Bolt Heads.

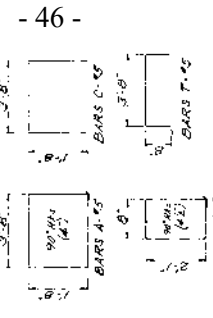


PLAN OF CAP
Showing Reinforcing Steel,
Steel In Steps & Riser Not Shown
26 Spacing of 1\"/>



ELEVATION

EWK 3998927



BAR BENDING DETAILS
Dimensions Are Not To Scale

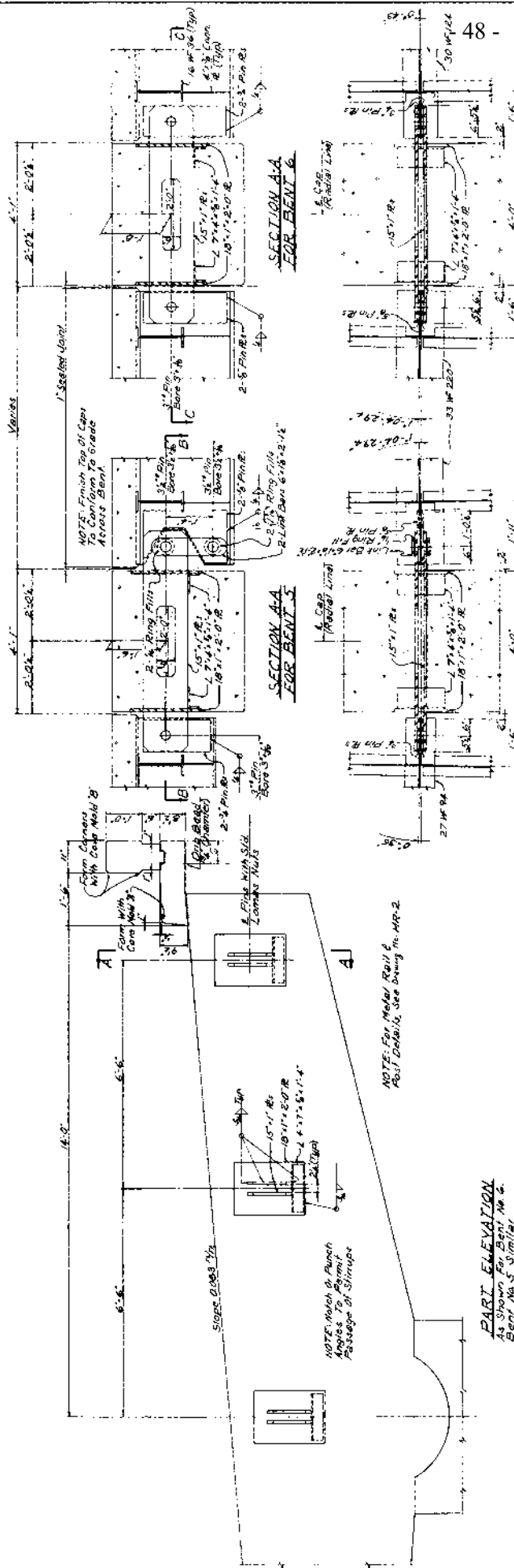
GENERAL NOTES:
Concrete In Bars Shall Be Class 25
All Rebar Shall Be Charbonnais Unless Otherwise Noted
For SECTION B-B & PILE SPACING DETAIL, SEE SHEET 100

MISSISSIPPI STATE HIGHWAY DEPARTMENT
OVERPASS AT STA. 638+02.57 RT. 28
INT. BENT NO. 4L 26
PROJECT I-IG-20-1(22)4A
RANKIN COUNTY

1419411.LIN.

DESIGNED: D.E.B. DATE: 11/15/11
CHECKED: J.P.R. DATE: 11/15/11
DRAWN: J.P.R. DATE: 11/15/11

DATE	BY	CHKD	APP'D
11/21/54	J.S. [Signature]	[Signature]	[Signature]



48 -

SECTION AA FOR BENT 5

SECTION AA' FOR BENT 6

SECTION BB

SECTION BB'

SECTION CC

SECTION CC'

NOTE: Finish Top of Caps To Conform To Grade Across Bent.

NOTE: For Metal Rail & Post Details, See Drawing No. MR-2

NOTE: Match & Punch Angles To Permit Passage of Shimrod

NOTE: (150 Structural Steel Beams For All Members Detailed on This Sheet)

NOTE: For General Notes See Sheet No. H-6. For Concrete Details See Sheet No. H-14. For Details of Metal Rail & Post See Sheet No. MR-2.

14184 L.L.R.

MISSISSIPPI STATE HIGHWAY DEPARTMENT

OVERPASS AT STA. 638+02.57 RT. LANE

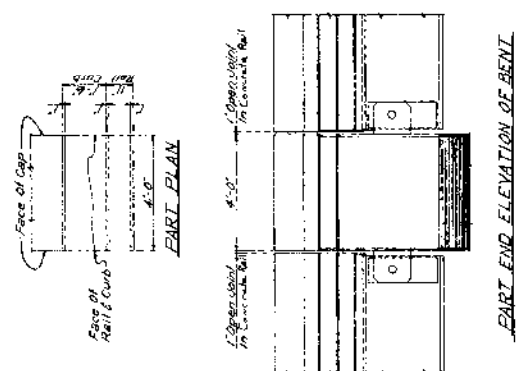
INT. BENTS NO. 5L & 6L

PROJECT I-IG-20 - (C22) 4

RANKIN COUNTY

DESIGNED BY: J.R. [Signature] DATE: 10-25-54

CHECKED BY: J.R. [Signature] DATE: 11-7-54



PART PLAN

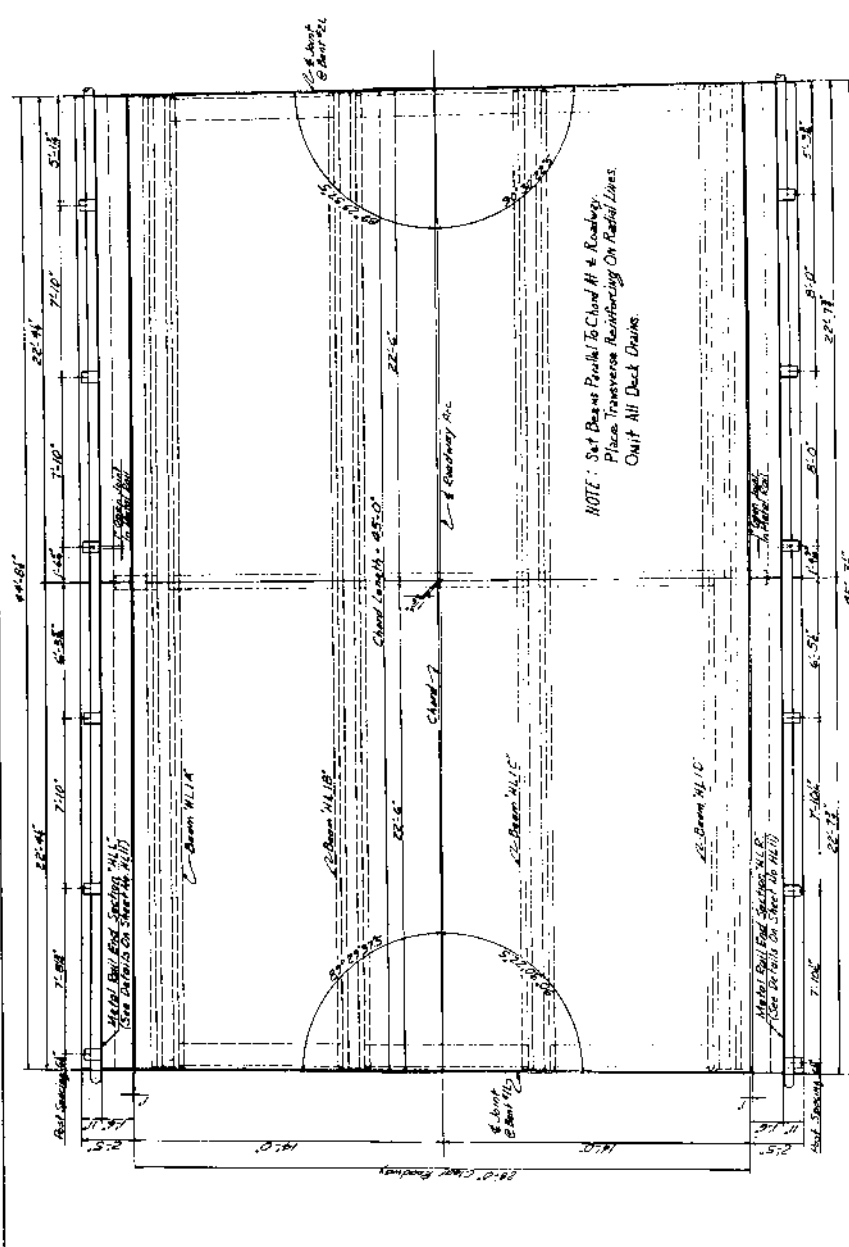
PART END ELEVATION OF BENT

NOTE: For Metal Rail & Post Details, See Drawing No. MR-2

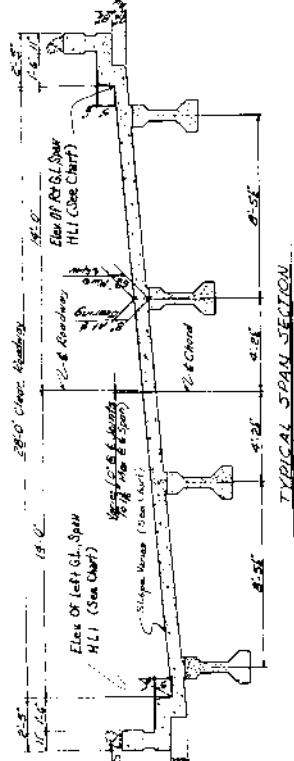
NOTE: Match & Punch Angles To Permit Passage of Shimrod

NOTE: (150 Structural Steel Beams For All Members Detailed on This Sheet)

NOTE: For General Notes See Sheet No. H-6. For Concrete Details See Sheet No. H-14. For Details of Metal Rail & Post See Sheet No. MR-2.



PLAN OF 45 FT. PRESTRESSED BEAM SPAN - SPAN H/L



TYPICAL SPAN SECTION

Beam No.	Elev.	Span	Notes
Beam No. 1	22'-6"	45'-0"	Span
Beam No. 2	22'-6"	45'-0"	Span
Beam No. 3	22'-6"	45'-0"	Span
Beam No. 4	22'-6"	45'-0"	Span
Beam No. 5	22'-6"	45'-0"	Span
Beam No. 6	22'-6"	45'-0"	Span
Beam No. 7	22'-6"	45'-0"	Span
Beam No. 8	22'-6"	45'-0"	Span
Beam No. 9	22'-6"	45'-0"	Span
Beam No. 10	22'-6"	45'-0"	Span
Beam No. 11	22'-6"	45'-0"	Span
Beam No. 12	22'-6"	45'-0"	Span
Beam No. 13	22'-6"	45'-0"	Span
Beam No. 14	22'-6"	45'-0"	Span
Beam No. 15	22'-6"	45'-0"	Span
Beam No. 16	22'-6"	45'-0"	Span
Beam No. 17	22'-6"	45'-0"	Span
Beam No. 18	22'-6"	45'-0"	Span
Beam No. 19	22'-6"	45'-0"	Span
Beam No. 20	22'-6"	45'-0"	Span
Beam No. 21	22'-6"	45'-0"	Span
Beam No. 22	22'-6"	45'-0"	Span
Beam No. 23	22'-6"	45'-0"	Span
Beam No. 24	22'-6"	45'-0"	Span
Beam No. 25	22'-6"	45'-0"	Span
Beam No. 26	22'-6"	45'-0"	Span
Beam No. 27	22'-6"	45'-0"	Span
Beam No. 28	22'-6"	45'-0"	Span
Beam No. 29	22'-6"	45'-0"	Span
Beam No. 30	22'-6"	45'-0"	Span
Beam No. 31	22'-6"	45'-0"	Span
Beam No. 32	22'-6"	45'-0"	Span
Beam No. 33	22'-6"	45'-0"	Span
Beam No. 34	22'-6"	45'-0"	Span
Beam No. 35	22'-6"	45'-0"	Span
Beam No. 36	22'-6"	45'-0"	Span
Beam No. 37	22'-6"	45'-0"	Span
Beam No. 38	22'-6"	45'-0"	Span
Beam No. 39	22'-6"	45'-0"	Span
Beam No. 40	22'-6"	45'-0"	Span
Beam No. 41	22'-6"	45'-0"	Span
Beam No. 42	22'-6"	45'-0"	Span
Beam No. 43	22'-6"	45'-0"	Span
Beam No. 44	22'-6"	45'-0"	Span
Beam No. 45	22'-6"	45'-0"	Span
Beam No. 46	22'-6"	45'-0"	Span
Beam No. 47	22'-6"	45'-0"	Span
Beam No. 48	22'-6"	45'-0"	Span
Beam No. 49	22'-6"	45'-0"	Span
Beam No. 50	22'-6"	45'-0"	Span
Beam No. 51	22'-6"	45'-0"	Span
Beam No. 52	22'-6"	45'-0"	Span
Beam No. 53	22'-6"	45'-0"	Span
Beam No. 54	22'-6"	45'-0"	Span
Beam No. 55	22'-6"	45'-0"	Span
Beam No. 56	22'-6"	45'-0"	Span
Beam No. 57	22'-6"	45'-0"	Span
Beam No. 58	22'-6"	45'-0"	Span
Beam No. 59	22'-6"	45'-0"	Span
Beam No. 60	22'-6"	45'-0"	Span
Beam No. 61	22'-6"	45'-0"	Span
Beam No. 62	22'-6"	45'-0"	Span
Beam No. 63	22'-6"	45'-0"	Span
Beam No. 64	22'-6"	45'-0"	Span
Beam No. 65	22'-6"	45'-0"	Span
Beam No. 66	22'-6"	45'-0"	Span
Beam No. 67	22'-6"	45'-0"	Span
Beam No. 68	22'-6"	45'-0"	Span
Beam No. 69	22'-6"	45'-0"	Span
Beam No. 70	22'-6"	45'-0"	Span
Beam No. 71	22'-6"	45'-0"	Span
Beam No. 72	22'-6"	45'-0"	Span
Beam No. 73	22'-6"	45'-0"	Span
Beam No. 74	22'-6"	45'-0"	Span
Beam No. 75	22'-6"	45'-0"	Span
Beam No. 76	22'-6"	45'-0"	Span
Beam No. 77	22'-6"	45'-0"	Span
Beam No. 78	22'-6"	45'-0"	Span
Beam No. 79	22'-6"	45'-0"	Span
Beam No. 80	22'-6"	45'-0"	Span
Beam No. 81	22'-6"	45'-0"	Span
Beam No. 82	22'-6"	45'-0"	Span
Beam No. 83	22'-6"	45'-0"	Span
Beam No. 84	22'-6"	45'-0"	Span
Beam No. 85	22'-6"	45'-0"	Span
Beam No. 86	22'-6"	45'-0"	Span
Beam No. 87	22'-6"	45'-0"	Span
Beam No. 88	22'-6"	45'-0"	Span
Beam No. 89	22'-6"	45'-0"	Span
Beam No. 90	22'-6"	45'-0"	Span
Beam No. 91	22'-6"	45'-0"	Span
Beam No. 92	22'-6"	45'-0"	Span
Beam No. 93	22'-6"	45'-0"	Span
Beam No. 94	22'-6"	45'-0"	Span
Beam No. 95	22'-6"	45'-0"	Span
Beam No. 96	22'-6"	45'-0"	Span
Beam No. 97	22'-6"	45'-0"	Span
Beam No. 98	22'-6"	45'-0"	Span
Beam No. 99	22'-6"	45'-0"	Span
Beam No. 100	22'-6"	45'-0"	Span

NOTE: Beam Reinforcing Near Beam Ends Shall Be As Shown On Draw No. P.B.-30. Shop Drawings Shall Indicate Method of Providing Reinforcing in Remaining Due to Varying Beam Lengths.

ELEVATION OF BEAMS
Showing Modification to Spanning At AB-33

CHART OF G.L. ELEVATIONS FOR SPAN "H/L"

Location	Left S.L.	Right S.L.	Super-elevation
E. End of Span "H/L"	402.3052	402.3022	0.002000 W.F.A.
E. Span "H/L"	402.5963	404.8713	0.004333 W.F.A.
E. End of Span "H/L"	402.8707	402.8677	0.003000 W.F.A.

All Governing Dimensions, Typical Details And General Requirements Of Drawings No. 2691-50 & P.B.-45 Shall Apply Unless Specifically Modified By Curve Details On This Sheet.

14194171.LN.

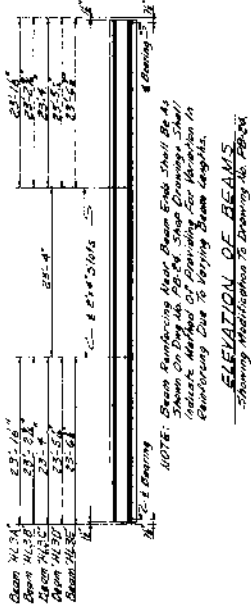
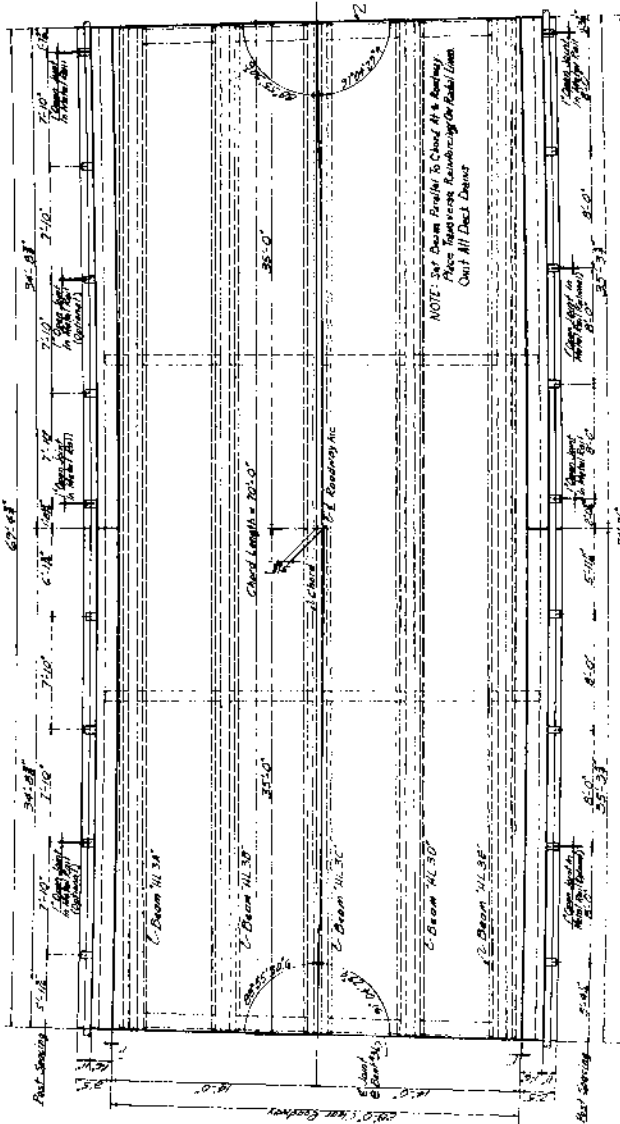
MISSISSIPPI STATE HIGHWAY DEPARTMENT
OVERPASS AT STA. 63815397 LANE
MODIFICATION FOR 45 FT. SPAN (

PROJECT 1-10-20-1(22)44

RANKIN COUNTY

REVISED BY: [Signature] DATE: 11/15/02
DRAWN BY: [Signature] DATE: 11/15/02
CHECKED BY: [Signature] DATE: 11/15/02

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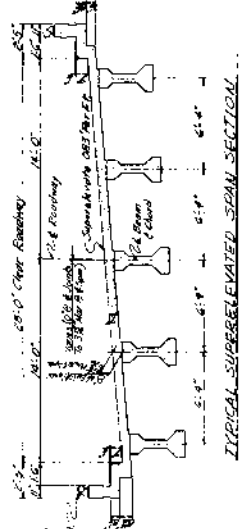
NOTE: Beams Reinforcing Near Beam Ends Shall Be As Shown On Drawing No. 48. Shop Drawings Shall Show Reinforcing Due To Varying Beam Lengths. Showing Modifications To Drawing No. 48.

ELEVATION OF BEAMS

Showing Modifications To Drawing No. 48.

All Governing Dimensions, Types, Duties And General Requirements Of Drawings No. 48-50 And No. 48-50 Shall Apply Unless Specifically Modified By Curve Details On This Sheet.

PLAN OF 10 FT. INT. SPAN



TYPICAL SUPERELEVATED SPAN SECTION

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ELEVATION PLAN

Showing Beam & Reinforcing Location

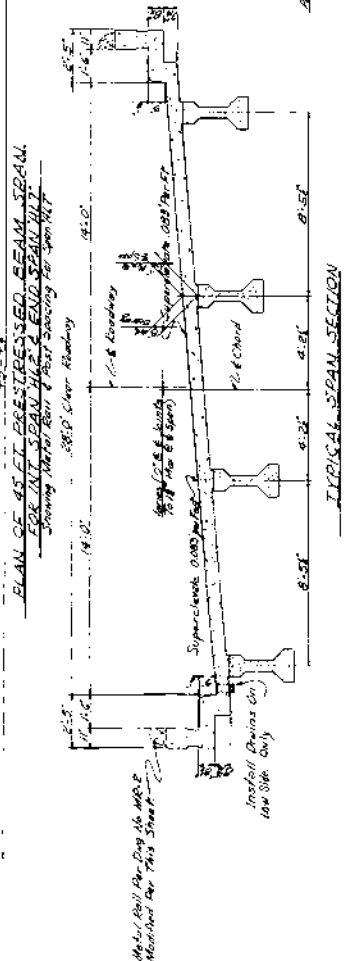
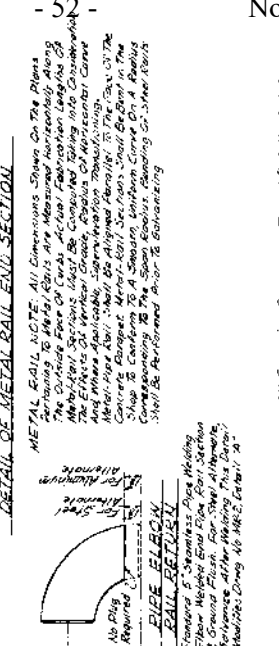
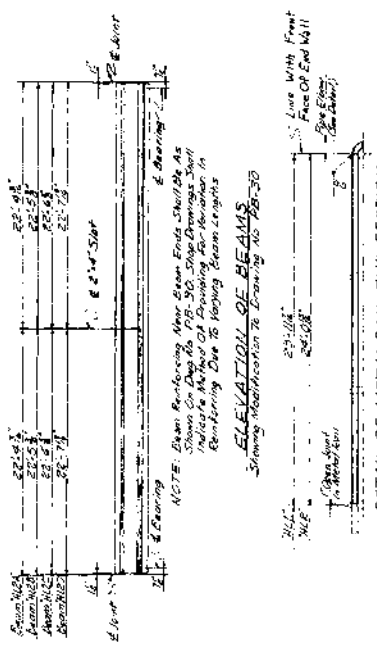
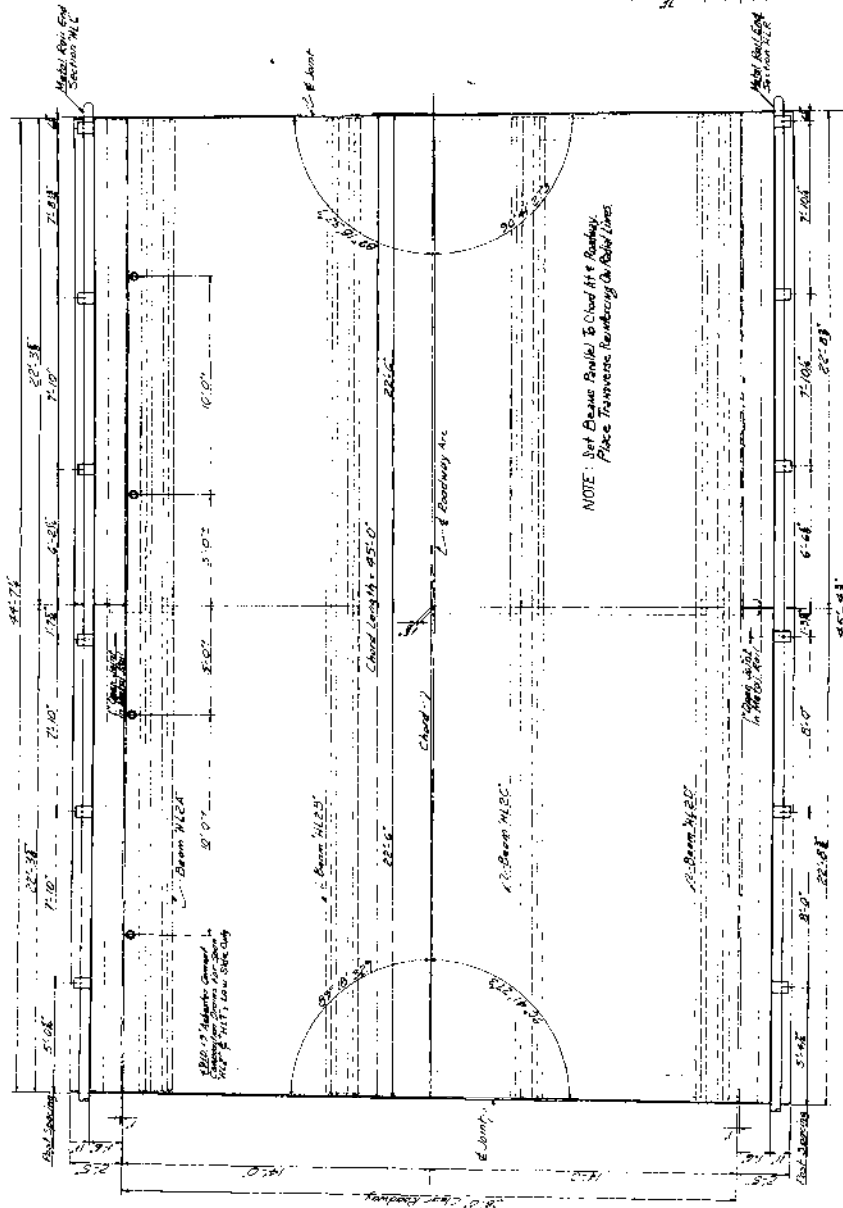
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MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA 636+53.97/LT LANE
 MODIFICATION FOR 70 FT SPAN '103'

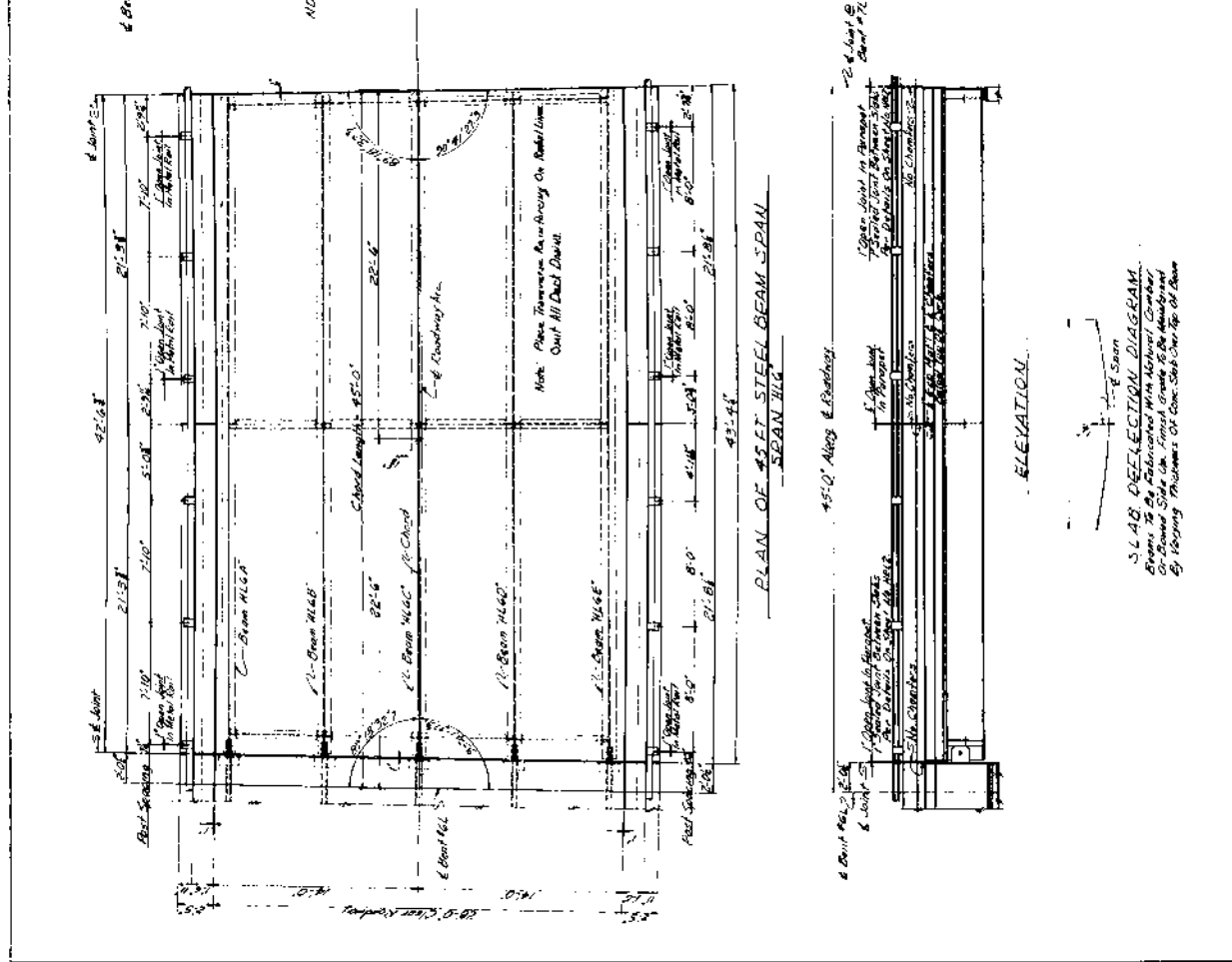
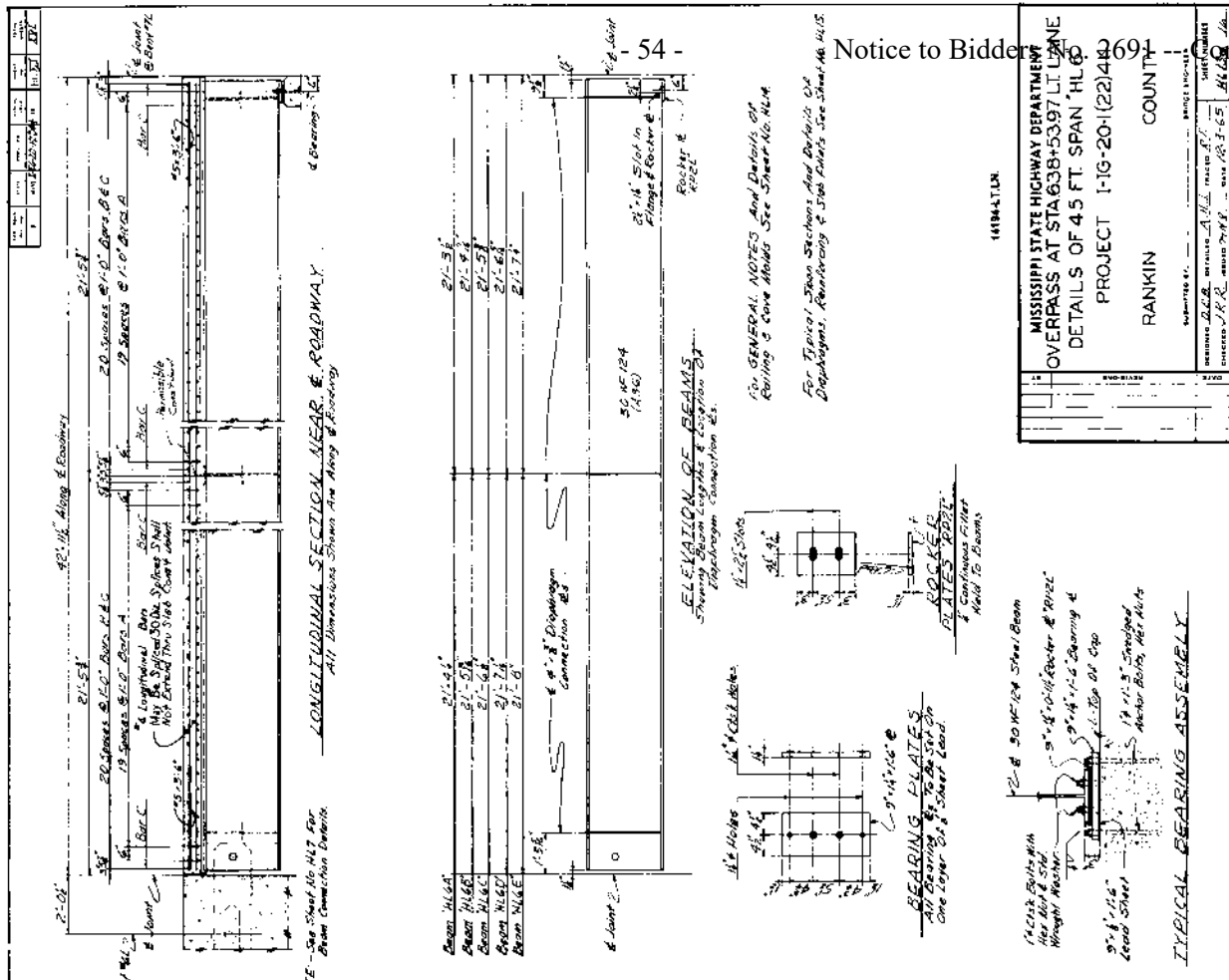
PROJECT 1-10-20-(22)44
 RANKIN COUNTY

APPROVED: J.P.R. DATE: 10/20/23
 DRAWN: J.P.R. DATE: 10/20/23

NO.	DATE	BY	REVISION
1	10/15/03	WJL	REVISED
2	11/11/03	WJL	REVISED



MISSISSIPPI STATE HIGHWAY DEPARTMENT
OVERPASS AT STA. 638+53.97 LT. LA. 65
MODIFICATION FOR 45 FT SPANS
HL 2 & HL 7
PROJECT #16-20-(22)44
RANKIN COUNTY, MISSISSIPPI



MISSISSIPPI STATE HIGHWAY DEPARTMENT
OVERPASS AT STA 638+03.97 LI LYANE
DETAILS OF 45 FT. SPAN HL 6

PROJECT 1-19-201-(22)410

RANKIN COUNTY

DESIGNED BY: J.R.R. BRADY JR. DATE: 10-3-65

CHECKED BY: J.R.R. BRADY JR. DATE: 10-3-65

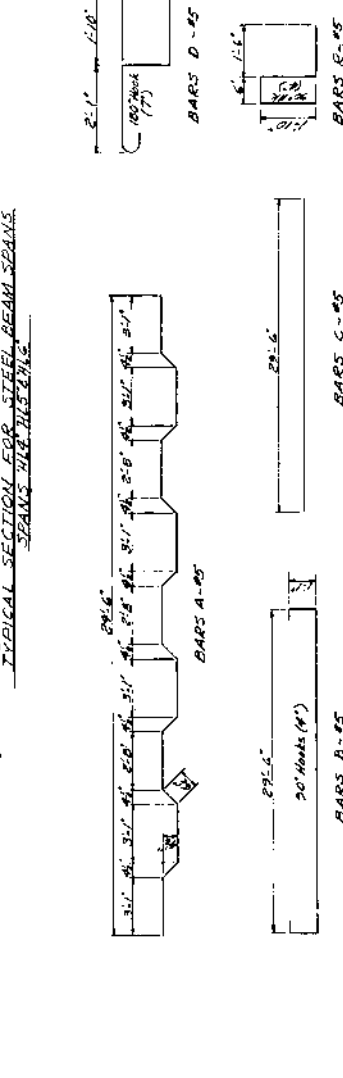
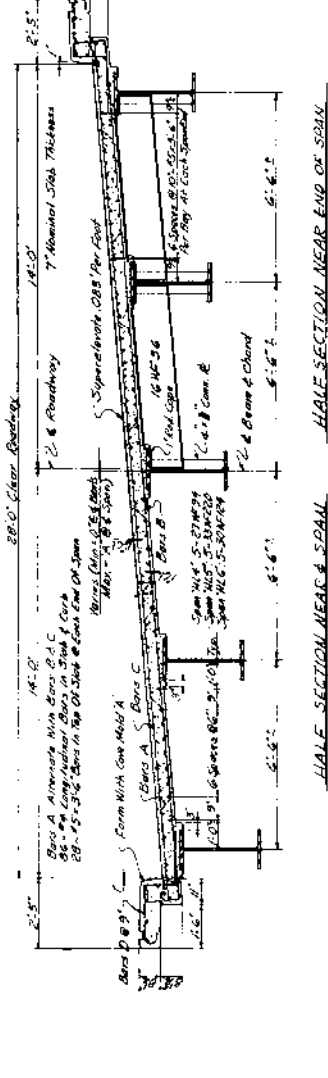
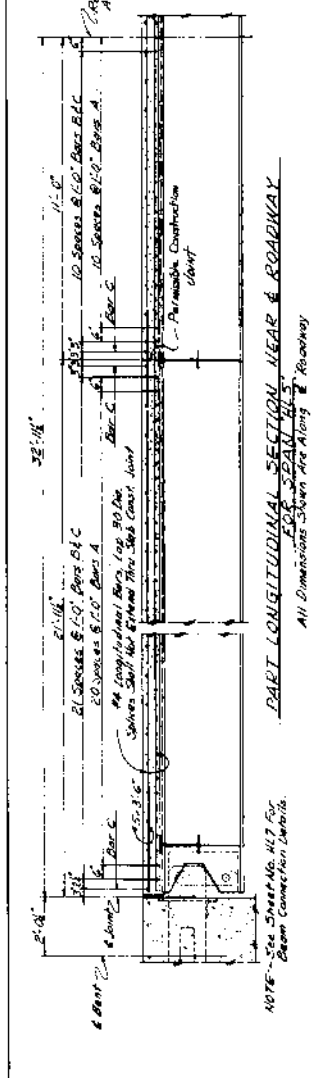
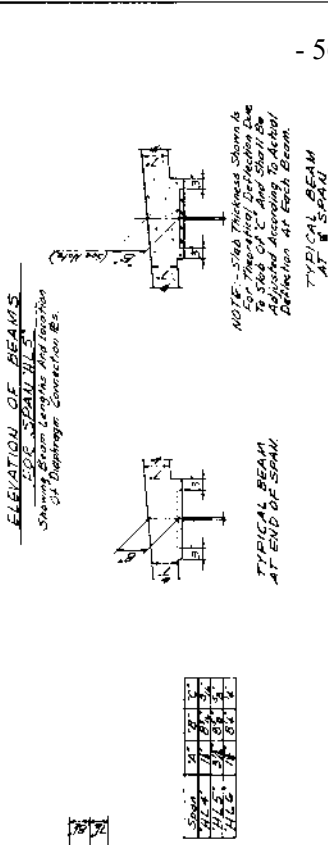
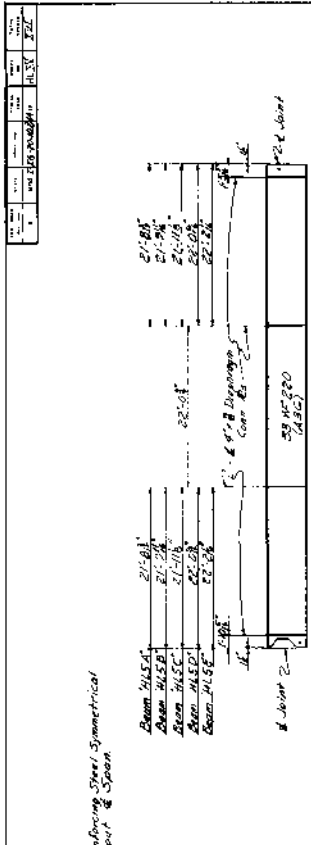
SCALE: AS SHOWN

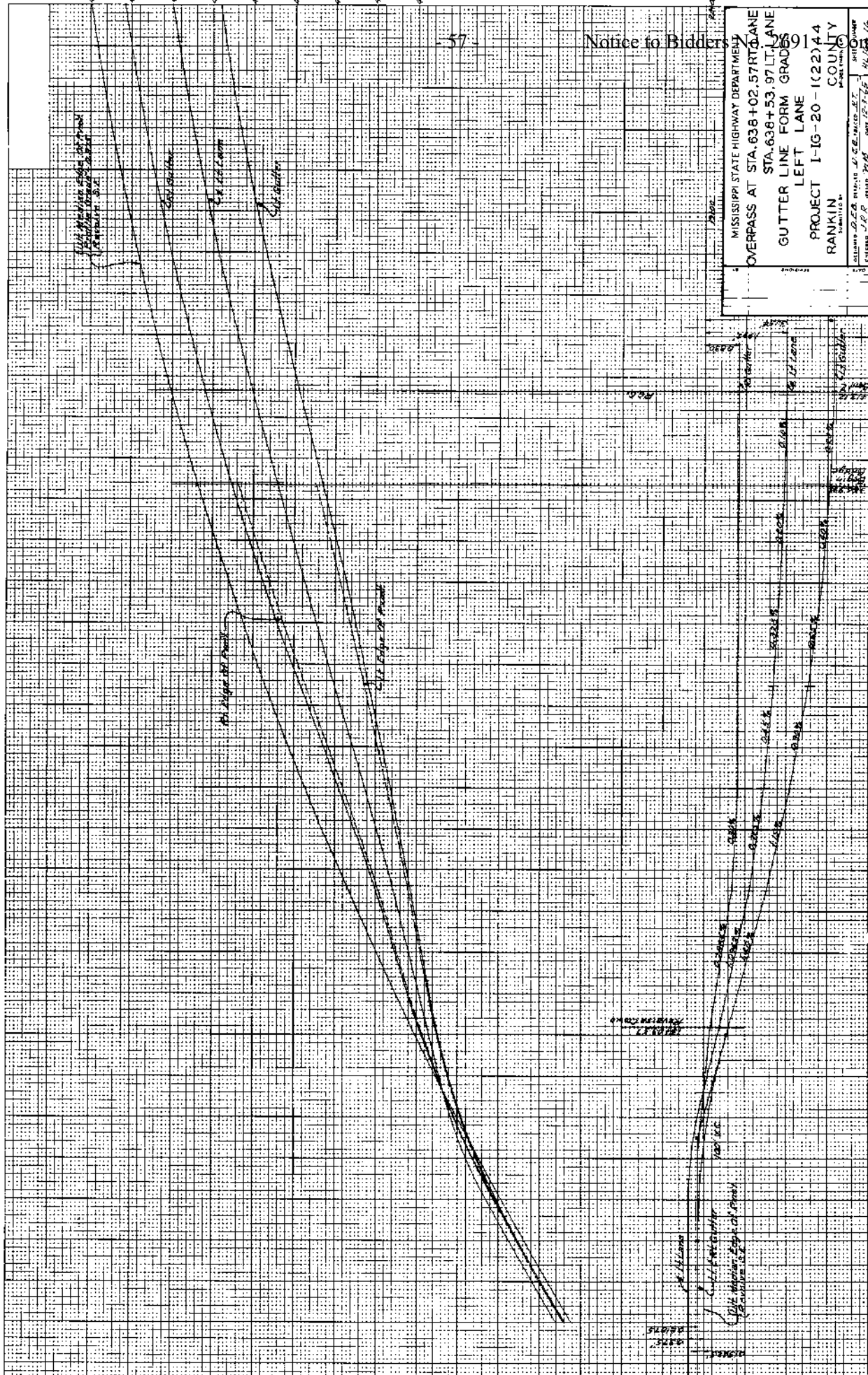
MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 638+53.97 LANE
 DETAILS OF STEEL BEAM SPANS

PROJECT 1-16-20-1(2)4269
 RANKIN COUNTY

14184-LTLN

DATE: 02-28-20
 DRAWN BY: J.A.V.
 CHECKED BY: J.P.R.
 SCALE: AS SHOWN
 SHEET NO. 14184-LTLN-16





Notice to Bidders

MISSISSIPPI STATE HIGHWAY DEPARTMENT
 OVERPASS AT STA. 636+02.57 RT. LANE
 STA. 636+53.97 LT. LANE
 GUTTER LINE FORM GRADES
 LEFT LANE
 PROJECT I-IG-20-(122)A4
 RANKIN COUNTY
 MISSISSIPPI
 DRAWN J.P.P. CHECKED J.C.E. REVISIONS
 DATE 12-1-66 SHEET NO. 12

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MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2692

CODE: (SP)

DATE: 06/18/2019

SUBJECT: Temporary Construction Signs

PROJECT: NHPP-0020-01(251) / 108284301 – 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. 2693

CODE: (SP)

DATE: 7/16/2019

SUBJECT: Underground Utilities

PROJECT: NHPP-0020-01(251) / 108284301 – 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. The contacts for MDOT utility lines are as follows:

Underground Power Lines:

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

Vince Herrington – 601-683-3341 – vherrington@mdot.ms.gov

Underground Communication Lines:

Celina Sumrall – 601-359-1454 – csumrall@mdot.ms.gov

Lauren Landers – 601-359-1454 – llanders@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

SECTION 904 - NOTICE TO BIDDERS NO. 2718

CODE: (SP)

DATE: 7/27/2020

SUBJECT: Lane Closure Restrictions

PROJECT: NHPP-0020-01(251) / 108284301 – Rankin County

Bidders are hereby advised that lane closure restrictions on the above project shall be as follows:

Monday through Friday: --

Lane closures will NOT be allowed between the hours of 6:00 AM to 7:00 PM on I-20.
Lane closures will NOT be allowed between the hours of 6:00 AM to 8:00 AM on Marquette Rd.

No exceptions to the above restrictions will be allowed unless specifically approved by the Project Engineer.

Also, no lane closures will be permitted on the following holidays or the day preceding them: New Year's Day, Memorial Day, Easter, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. In the event that one of the above mentioned holidays falls during the weekend or on a Monday, no lane closures will be allowed during that weekend or the Friday immediately preceding that holiday. In addition, no lane closures will be allowed the Friday, Saturday, and Sunday following Thanksgiving.

If the lane closure restriction listed above is violated, the Contractor will be charged a fee of **\$500.00** for each full or partial five minute period until the roadway is back in compliance with the lane closure restriction requirement.

Work requiring a lane closure shall begin within one (1) hour of the completion of the lane closure setup. Lane closures will be allowed only at times when work requiring a lane closure is underway. Failure to begin work within this 1-hour period will result in the Contractor being charged a lane rental fee of **\$500.00** for each full or partial five-minute period until work has begun.

For the purposes of this contract, official time shall be the announced time available at the Jackson area telephone number (601) 355-9311.

"General Decision Number: MS20200140 03/20/2020

Superseded General Decision Number: MS20190140

State: Mississippi

Construction Type: Highway

County: Rankin County in Mississippi.

HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	03/20/2020

* ELEC0480-010 01/01/2020

	Rates	Fringes
TRAFFIC SIGNALIZATION		
Electrician.....	\$ 25.90	9.56

SUMS2010-063 08/04/2014

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 15.47	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 14.02	0.00
ELECTRICIAN.....	\$ 24.04	5.87
HIGHWAY/PARKING LOT STRIPING:		
Truck Driver (Line Striping Truck).....	\$ 12.04	0.00
INSTALLER - GUARDRAIL.....	\$ 12.07	0.00

INSTALLER - SIGN.....	\$ 11.92	0.00
IRONWORKER, REINFORCING.....	\$ 15.47	0.00
LABORER: Common or General, Including Asphalt Raking, Shoveling, Spreading; and Grade Checking.....	\$ 10.65	0.00
LABORER: Flagger.....	\$ 10.22	0.00
LABORER: Luteman.....	\$ 12.88	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 11.27	0.00
LABORER: Pipelayer.....	\$ 13.44	0.00
LABORER: Laborer-Cones/ Barricades/Barrels - Setter/Mover/Sweeper.....	\$ 11.29	0.00
OPERATOR: Asphalt Spreader.....	\$ 14.71	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 15.36	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 11.64	0.00
OPERATOR: Broom/Sweeper.....	\$ 11.57	0.00
OPERATOR: Bulldozer.....	\$ 15.41	0.00
OPERATOR: Concrete Saw.....	\$ 14.38	0.00
OPERATOR: Crane.....	\$ 19.22	0.00
OPERATOR: Distributor.....	\$ 10.95	0.00
OPERATOR: Grader/Blade.....	\$ 14.41	0.00
OPERATOR: Grinding/Grooving Machine.....	\$ 15.90	0.00
OPERATOR: Loader.....	\$ 12.57	0.00
OPERATOR: Mechanic.....	\$ 19.27	0.00
OPERATOR: Milling Machine.....	\$ 14.68	0.00
OPERATOR: Mixer.....	\$ 14.25	0.00
OPERATOR: Oiler.....	\$ 12.35	0.00
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 12.15	0.00
OPERATOR: Roller (All Types)....	\$ 12.64	0.00
OPERATOR: Scraper.....	\$ 12.25	0.00
OPERATOR: Tractor.....	\$ 11.22	0.00

TRUCK DRIVER: Flatbed Truck.....	\$ 14.06	0.00
TRUCK DRIVER: Lowboy Truck.....	\$ 11.00	0.00
TRUCK DRIVER: Mechanic.....	\$ 13.00	0.00
TRUCK DRIVER: Water Truck.....	\$ 10.98	0.00
TRUCK DRIVER: Dump Truck (All Types).....	\$ 12.56	0.00
TRUCK DRIVER: Semi/Trailer Truck.....	\$ 14.60	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of

the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

SUPPLEMENT TO FORM FHWA-1273

DATE: 12/17/2018

SUBJECT: **Federal Contract Provisions for Subcontracts and Cargo Preference Act**

Federal Contract Provisions for Subcontracts

All subcontracts shall be in writing and contain all pertinent provisions and requirements of the prime contract.

Each “Request for Permission to Subcontract” (Mississippi Department of Transportation Form CAD-720) shall include a copy of the subcontract. The federal contract provisions (FHWA-1273, SUPPLEMENT TO FORM FHWA-1273, NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246), DAVIS-BACON AND RELATED ACT PROVISIONS (WAGE RATES)) must be physically incorporated as part of the subcontract. A completed Mississippi Department of Transportation Form CAD-521 and Form CAD-725 must be attached to the CAD-720.

Cargo Preference Act

The Contractor is hereby advised of the requirements set forth in the following Attachment (Title 46 - Shipping) as it pertains to the implementation of Cargo Preference Act (CPA) requirements in the Federal-aid Highway Program.

By signing this contract, the Contractor agrees to conform to the requirements of the CPA.

Attachment

Title 46- Shipping

Volume: 8

Date: 2014-10-01

Original Date: 2014-10-01

Title: Section 381.7 - Federal Grant, Guaranty, Loan and Advance at Funds Agreements.

Context: Title 46- Shipping. CHAPTER II- MARITIME ADMINISTRATION, DEPARTMENT OF TRANSPORTATION. SUBCHAPTER J - MISCELLANEOUS. PART 381 - CARGO PREFERENCE-U.S.- FLAG VESSELS.

§ 381.7 Federal Grant, Guaranty, Loan and Advance of Funds Agreements.

In order to insure a fair and reasonable participation by privately owned United States-flag commercial vessels in transporting cargoes which are subject to the Cargo Preference Act of 1954 and which are generated by U.S. Government Grant, Guaranty, Loan and/or Advance of Funds Programs, the head of each affected department or agency shall require appropriate clauses to be inserted in those Grant, Guaranty, Loan and/or Advance of Funds Agreements and all third party contracts executed between the borrower/grantee and other parties, where the possibility exists for ocean transportation of items procured, contracted for or otherwise obtained by or on behalf of the grantee, borrower, or any of their contractors or subcontractors. The clauses required by this part shall provide that at least 50 percent of the freight revenue and tonnage of cargo generated by the U.S. Government Grant, Guaranty, Loan or Advance of Funds be transported on privately owned United States-flag commercial vessels. These clauses shall also require that all parties provide to the Maritime Administration the necessary shipment information as set forth in § 381.3. A copy of the appropriate clauses required by this part shall be submitted by each affected agency or department to the Secretary, Maritime Administration, for approval no later than 30 days after the effective date of this part. The following are suggested acceptable clauses with respect to the use of United States-flag vessels to be incorporated in the Grant, Guaranty, Loan and/or Advance of Funds Agreements as well as contracts and subcontracts resulting therefrom:

(a) *Agreement Clauses.* "Use of United States-flag vessels:

"(1) Pursuant to Pub. L 664 (43 U.S.C. 1241(b)) at least 50 percent of any equipment, materials or commodities procured, contracted for or otherwise obtained with funds granted, guaranteed, loaned, or advanced by the U.S. Government under this agreement, and which may be transported by ocean vessel, shall be transported on privately owned United States-flag commercial vessels, if available.

"(2) Within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (a)(1) of this section shall be furnished to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590."

(b) *Contractor and Subcontractor Clauses.* "Use of United States-flag vessels: The contractor agrees --

"(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.

"(2) To furnish within 20 days following the date of loading for shipments originating within the United

States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b) (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.

"(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract."

(Reorganization Plans No.21 of 1950(64 Stat. 1273) and No. 7 of 1961 (75 Stat. 840) as amended by Pub. L 91.469 (84 Stat 1036) and Department of Commerce Organization Order 10-8 (38 FR 19707, July 23, 1973)) (42 FR 57126, Nov. 1, 1977]

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages

paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise

the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contacting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the

contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contractor). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**NOTICE OF REQUIREMENTS FOR AFFIRMATIVE
ACTION TO ENSURE EQUAL EMPLOYMENT
OPPORTUNITY (EXECUTIVE ORDER 11246)**

1. The Offeror’s or Bidder’s attention is called to the “Equal Opportunity Clause” and the “Standard Federal Equal Employment Opportunity Construction Contract Specifications” set forth herein.

2. The goal for female participation, expressed in percentage terms for the Contractor’s aggregate workforce in each trade on all construction work, is 6.9%.

Until further notice	Goals for minority participation for each trade (percent)
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SHSA Cities:	
Pascagoula - Moss Point -----	16.9
Biloxi - Gulfport -----	19.2
Jackson -----	30.3

SMSA Counties:	
Desoto -----	32.3
Hancock, Harrison, Stone-----	19.2
Hinds, Rankin -----	30.3
Jackson -----	16.9

Non-SMSA Counties:	
George, Greene-----	26.4

Alcorn, Benton, Bolivar, Calhoun, Carroll, Chickasaw, Clay, Coahoma, Grenada, Itawamba, Lafayette, Lee, Leflore, Marshall, Monroe, Montgomery, Panola, Pontotoc, Prentiss, Quitman, Sunflower, Tallahatchie, Tate, Tippah, Tishomingo, Tunica, Union, Washington, Webster, Yalobusha -----	26.5
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Attala, Choctaw, Claiborne, Clarke, Copiah, Covington, Franklin, Holmes, Humphreys, Issaquena, Jasper, Jefferson, Jefferson Davis, Jones Kemper, Lauderdale, Lawrence, Leake, Lincoln, Lowndes, Madison, Neshoba, Newton, Noxubee, Oktibbeha, Scott, Sharkey, Simpson, Smith, Warren, Wayne, Winston, Yazoo-----	32.0
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Forrest, Lamar, Marion, Pearl River, Perry, Pike, Walthall-----	27.7
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Adams, Amite, Wilkinson -----	30.4
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These goals are applicable to all the Contractor’s construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

The Contractor’s compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor’s goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4.2(d). Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor, estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.

4. As used in this Notice, and in the contract resulting from this solicitation, the “covered area” is to the county and city (if any), stated in the advertisement.

5. The notification required in Paragraph 3 shall be addressed to the following:

Contract Compliance Officer
Mississippi Department of Transportation
P.O. Box 1850
Jackson, Mississippi 39215-1850

(12/04/2018)

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. 907-109-1

CODE: (IS)

DATE: 05/08/2019

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.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-420-2

CODE: (SP)

DATE: 01/17/2017

SUBJECT: Undersealing Concrete Pavement

Section 907-420, Undersealing Concrete Pavement, 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 CONCRETE PAVEMENT

907-420.01--Description. Undersealing concrete pavement shall consist of placing a polyurethane foam mixture beneath existing concrete pavement at the locations shown in the plans, or directed by the Engineer.

The intent of the undersealing process is to lift, underseal, and fill the voids under existing concrete pavement, or bridge end slabs. When raising concrete pavement/slabs, care shall be taken to assure that the final elevation of the concrete pavement/slab is aligned vertically with the adjacent and surrounding pavement.

907-420.02--Materials. Material for undersealing shall meet 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	90	ASTM D 1622
Compression Strength, psi (at yield point), minimum	80	ASTM D 1621

Material for undersealing shall achieve 90% of its compressive strength in 15 minutes.

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.

907-420.03.1--General. All undersealing will be done at the locations specified in the plans, or as directed by the Engineer. The equipment shall be that customarily used in undersealing. It shall consist of no less than the following:

1. A pneumatic or electric drill capable of drilling holes in the concrete pavement. The equipment shall be in satisfactory operating condition and operated in such a manner as to prevent unnecessary damage to the pavement.

- 2. A pump capable of injecting the high density polyurethane between the concrete pavement and the underlying material while controlling the rate of rise of the pavement.
- 3. A leveling unit to ensure the concrete pavement is raised to the desired elevation.

907-420.03.2--Drilling Holes. Unless otherwise shown in the plans, the injection holes shall be drilled at six to eight-foot intervals throughout the concrete pavement. The holes shall be a maximum of 3/4 inch in diameter. Any other size hole must be approved by the Engineer.

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. As the polyurethane reacts, it expands and hardens resulting in a lift of the pavement. The amount of rise shall be controlled by regulating the rate of injection. 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 from the pavement.

A leveling device (survey level, laser level, string line, etc.) shall be used to monitor and verify the elevation of the pavement as it rises. After the pavement is raised, it shall meet a 1/4 inch in 25-foot string line requirement. The Contractor will be required to correct any pavement out of tolerance or raised in excess of the required elevation. Any necessary repairs due to out of tolerance or over height pavement shall be corrected at no additional cost to the State.

907-420.03.4--Curing Time and Opening to Traffic. Traffic shall not use the undersealed pavement within 30 minutes after the injection process has been completed. Any deposits of urethane on the pavement or shoulders shall be removed and the surface cleaned prior to opening to traffic.

907-420.04--Method of Measurement. Undersealing concrete pavement, 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 concrete pavement, as measured above, will be paid for at the contract price per pound, which price shall include all mobilization, labor, equipment, traffic control, materials, and incidentals necessary to complete the required work.

Unless otherwise indicated in the plans, costs for maintenance of traffic and individual traffic control devices as required by the plans 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 Concrete Pavement - per pound

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-701-2

CODE: (IS)

DATE: 01/08/2020

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.

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

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

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

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

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

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

Table 1- Cementitious Materials for Soluble Sulfate Conditions or Seawater

Sulfate Exposure	Water-soluble sulfate (SO 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.

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. 907-707-2

CODE: (IS)

DATE: 06/05/2019

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.

907-707.02.3--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. 907-720-2

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. 907-721-2

CODE: (IS)

DATE: 01/08/2020

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

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. 907-823-6

CODE: (SP)

DATE: 07/18/2019

SUBJECT: **Preformed Joint Seal**

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

SECTION 907-823--PREFORMED JOINT SEAL

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

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

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

1. Silicoflex Joint Sealing System
Manufactured by R.J. Watson, Inc. in Alden, NY
www.rjwatson.com
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 As Designed In The Detail Drawings Provided. Epoxy Mortar Shall Also Be Included Under This Item Of Work. Removal Of Existing Mortar, Cleaning, Compression And Sealant Joint, Or Existing Mortar, Compression And Sealant Joint, Shall Be Included Under This Item Of Work. All Other Requirements Shall Be In Accordance With The Applicable Provisions 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, Or Existing Mortar, Compression And Sealant Joint, Or Existing Mortar, Compression And Sealant Joint, Materials Shall Be Included Under This Item Of Work. All Other Requirements Shall Be In Accordance With The Applicable Provisions 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.

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

Description:

The Saw Cut Depth Shall Be Established To The Indicated Depth From The Top Surface Of The Concrete. The Saw Cut Type Shall Be The Same As The Preformed Joint Seal Selected.

Basis Of Payment:

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

907-823-4001 PREFORMED JOINT SEAL, TYPE I

Description:

Shall include the Manufacturer's Required Joint Preparation Including Sweeping, Both Sides Of The Joint And Blowing The Joint Free Of Debris. The Preformed Joint Seal Compressed Air And Placement Of The Preformed Joint Seal.

Basis Of Payment:

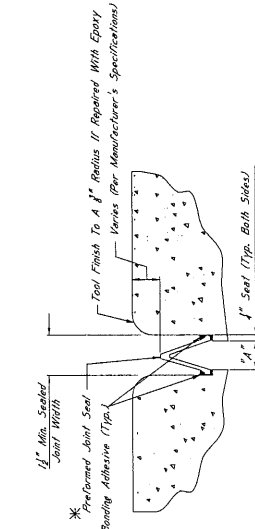
The Accepted Quantities Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Centerline Joint.

EPOXY MORTAR AND POLYMER CONCRETE NOTES:

Either Epoxy 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: Minimum Standard Specifications For Road And Bridge Construction 2017.
2. No Change Of Plans Will Be Permitted Except By Written Approval Of The Engineer. Any Change In Construction Procedure May Be Authorized By The Bridge Engineer Provided Such Changes Will Not Be Caused By Contractor's Error. The Contractor Will Not Be Paid For Directly And Shall Therefore Be Considered An Assumed Item Of Work.

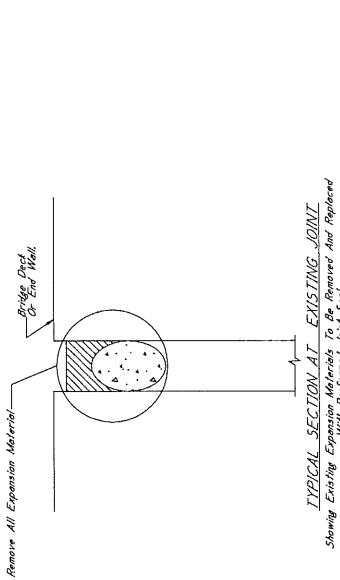


TYPICAL SECTION AT SAWCUT & SEALED JOINT

Showing Sealed Joint After Sawcut

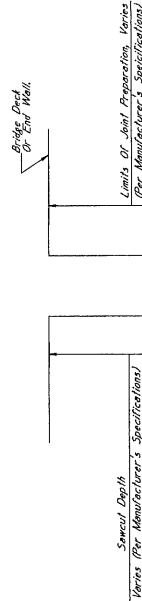
***NOTES:**

1. The Preformed Joint Seal Shall Be One Of The Following, Installed According To The Manufacturer's Specifications:
 a. Manufactured By R.J. Wilson, Inc. In Alam, NY
 www.rjwilson.com
 b. Welo SFS Joint System
 Manufactured By Welo Bannum Alamo Corporation In Amherst, NY
 www.welocorp.com
 c. Silgru SFS-SSV Strip Seal
 Manufactured By R.J. Wilson, Inc. In Alam, NY
 www.silgru.com
 d. Highway Construction Materials
 www.hcm.com
2. For Estimating Purposes, The R.J. Wilson Silcoflex Joint Sealing System Was Selected. However, Should Another Supplier Be Chosen, It Is The Contractor's Responsibility To Provide The Manufacturer's Recommended Installation Details And Venes, Adhesive Sealing Times, And Any Other Parameters Between The Specifications Provided By The Manufacturer, To Ensure That The Contractor Is Properly Selected In Installation Of The Joint Material.
3. Joints Shall Be Sealed At Their Design Width, Dimension "A", Which Is Defined As Seal Depth On Both Sides Of The Joint. The Preformed Joint Seal Type To Be Used For Design Purposes, Shall Be The Preformed Joint Seal Type To Be Used In Cases Where Design Widths Are Greater Than The Manufacturer's Design Width. The Sealant Material Shall Be Applied As Directed By The Director Of Structures. Sealant Is Appropriate For The Width Of The Joint.



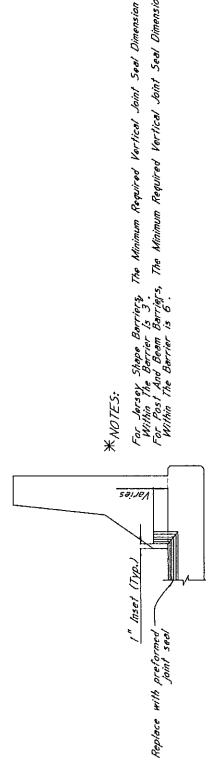
TYPICAL SECTION AT EXISTING JOINT

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



TYPICAL SECTION AT JOINT AFTER REMOVAL OF EXISTING SEAL AND SAWCUT

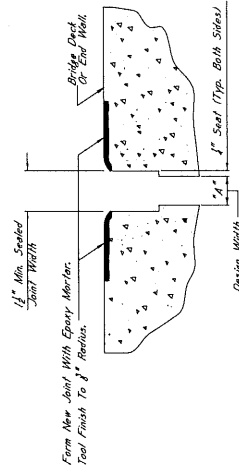
Showing Limits Of Joint Preparation For Application Of New Joint Seal Materials And Sealant



***NOTES:**

Replace with preformed joint seal. Slope, Berms, The Minimum Required Vertical Joint Seal Dimension For First And Beam Barriers. The Minimum Required Vertical Joint Seal Dimension Within The Barrier is 6\"/>

ELEVATION AT END OF SPAN



TYPICAL SECTION AT SAWCUT & JOINT REPAIR

Showing Area Where Repairs Are Made After 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 bridge deck on each side of the centerline joint. As Directed in the Detail Drawings Provided, Epoxy Mortar Shall Also be Included Under This Item of Work. Removal of Existing Silicone Sealant, Compression, and Expansion Materials 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 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. This includes the removal of existing silicone sealant, compression, and expansion materials 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 Contract Unit Price Along the Length of the Bridge Deck on Each Side of the Centerline Joint.

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

Description:

The Saw Cut Depth Shall be Equivalent to the Installation Depth of the Sealant. The Saw Cut Depth Shall be the Same as the Performed Joint Seal Selected.

Basis of Payment:

The Accepted Quantities Will be Paid For in Linear Feet At 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 Recommendation.

907-823-4001 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 All Debris. The Contractor Shall Provide the Preformed Joint Seal.

Basis of Payment:

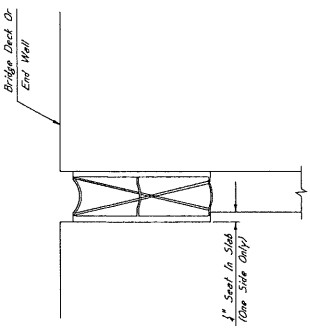
The Accepted Quantities Will be Paid For in Linear Feet At Contract Unit Price Along the Length of the Centerline Joint.

EPOXY MORTAR AND POLYMER CONCRETE NOTES:

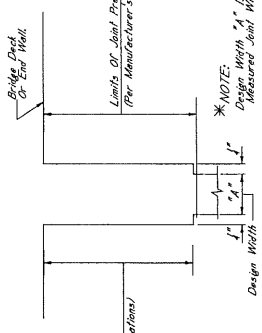
Either Epoxy Mortar or Polymer Concrete May be Used. Questions Regarding Specifications.

GENERAL NOTES:

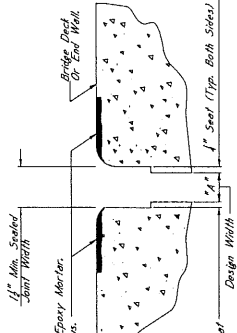
1. Specifications, Mississippi Standard Specifications For Road Construction, shall apply to all work unless otherwise specified.
2. No Change of Plans Will be Permitted Except by Written Approval of the Director of Structures, State Bridge Engineer. Minor Changes To Detail or Design or Construction Procedures May be Made by the Contractor, Provided Such Changes Will Not be Greater Than Contract Price Adjustments.
3. Work For Which No Pay Item is Provided in the Proposal Will Not be Paid For. Correctly and Shall Therefore be Considered an Abstract Item of Work.



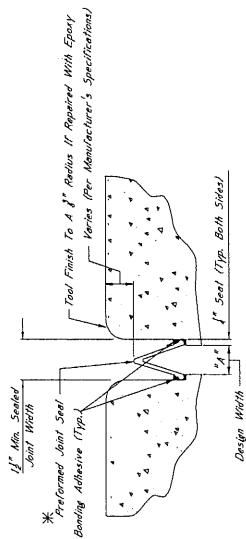
TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expansion Device To Be Removed and Replaced With Performed Joint Seal



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



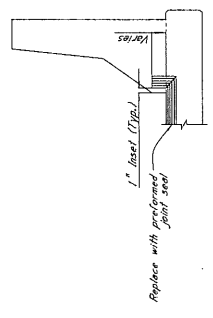
TYPICAL SECTION AT SAWCUT & JOINT REPAIR
Showing Area Where Repairs are Made After Sawcut, With Epoxy Mortar or Approved Equivalent



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

***NOTES:**

1. The Performed Joint Seal Shall be One of the Following, Installed According to the Manufacturer's Specifications:
 - A. Silicone Joint Sealing System Manufactured by R.J. Wilson, Inc. in Allen, NY www.rjwilson.com
 - B. Wido SFS Joint Sealing System Manufactured by SSI Commercial & Highway Construction Materials www.ssi.com
 - C. Silicone SSS Silicone High Seal Manufactured by SSI Commercial & Highway Construction Materials www.ssi.com
2. For Estimating Purposes, the R.J. Wilson Silicone Joint Sealing System Was Selected However, Show Another System, Such as SSI, in the Bid. Changes to the System Shall be Made Before Final Bid Submission. Installation Details and Methods, Adhesive, Sealing Times, and Material Quantities Shall be Provided by the Manufacturer. A Manufacturer Representative Shall be Present at the Time Joint Sealing Begins to Ensure that the Contractor is Properly Schooled in Installation of the Joint Material.
3. Joints Shall be Sealed at their Design Width, Dimension "A", Which is Defined as Seal Required on Both Sides of the Joint. Performed Joint Seal, Type I, Shall be Used for Joints with Widths Less Than 2". For Joints with Widths Greater Than 2", Shall be Used for Joints in Cases Where Design Widths are Greater Than 2". Another Type of Expansion Material Shall be the Contractor's Responsibility to Ensure that the Size Selected is Appropriate for the Width of the Joint.



ELEVATION AT END OF SPAN

*NOTES:
Provide Shop Details for the Minimum Required Vertical Joint Seal Dimension For Post and Beam Barrages. The Minimum Required Vertical Joint Seal Dimension Within the Barrage is 6".

NOTES ON ASSOCIATED ITEMS OF WORK:

907-808-002 JOINT REPAIR

Description:

Shall include the Work Necessary To Repair Joints In Preparation For The Placement Of New Expansion Material As Detailed In The Detail Drawing Provided. Epoxy Mortar Shall Also Be Included Under This Item Of Work. Epoxy Mortar Shall Be Applied Directly To The Existing Concrete. Epoxy Mortar Will Not Be Paid For Directly And Shall Be Considered As Absorbed Under This Item Of Work. All Other Requirements Shall Be As Stated In The Specifications And Any Other Sections Specified Therein.

Basis Of Payment:

The Accepted Quantities Will Be Paid For In Linear Feet Al On Each Side Of The Centerline Joint.

907-808-003 JOINT REPAIR WITHOUT EPOXY

Description:

Shall include the Work Necessary To Repair Joints In Preparation For The Placement Of New Expansion Material Or Existing Silicone Seals, Compression And AC Seals. Joint Materials Shall Be Included Under This Item Of Work. All Other Requirements Shall Be As Stated In The Specifications And Any Other Sections Specified Therein.

Basis Of Payment:

The Accepted Quantities Will Be Paid For In Linear Feet Al On Each Side Of The Centerline Joint.

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 Performed Joint Seal Selected.

Basis Of Payment:

The Accepted Quantities Will Be Paid For In Linear Feet Al On Each Side Of The Centerline Joint. It Is The Contractor's Responsibility To Obtain The Manufacturer's Recommendations.

907-823-001 SAW CUT, TYPE I

Description:

Shall include the Manufacturer's Required Joint Preparation Including Sawcutting Both Sides Of The Placement Of The New Performed Joint Seal.

Basis Of Payment:

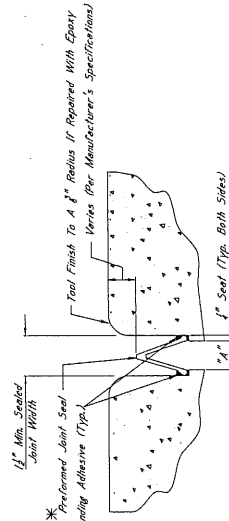
The Accepted Quantities Will Be Paid For In Linear Feet Al On Each Side Of The Centerline Joint.

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 (MS-SS).
2. Approval Of The Director Of Structures, State Bridge Engineer. Minor Changes To Detail Of Design Or Construction Procedure Shall 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 Absorbed Item Of Work.



TYPICAL SECTION AT SAWCUT & SEALED JOINT

Showing Sealed Joint After Sawcut And Repair With Epoxy Mortar

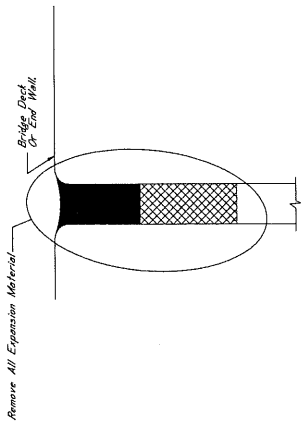
***NOTES:**

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

- A. Silastic Joint Sealing System
Manufactured By: R.J. Watson, Inc. In Albany, NY
www.rjwatson.com
- B. Wega 555 Joint System
Manufactured By: Wega Systems, Inc. In Albany, NY
www.wegasystems.com
- C. Silastic 555 Silicone Strip Seal
Manufactured By: SSI Commercial & Highway Construction Materials
www.ssi.com

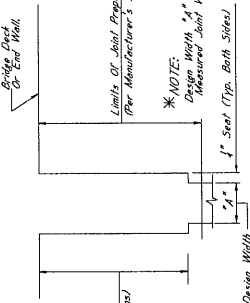
2. For Estimating Purposes, The R.J. Watson Silastic Joint Sealing System Was Selected. However, The Manufacturer's Recommendations Are Followed For Joint Preparation, Installation Depth, And Width, Adhesive, Setting Times, And Curing Times. In Cases Where Design Details Are Conflicting, The Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins To Ensure That The Contractor Is Properly Scheduled In Installation Of The Joint Material.

3. Joints Shall Be Sealed At Their Design Widths, Quantities *1, Which Is Defined As Seal Required On Both Sides Of The Joint. Preformed Joint Seal Type II Shall Be Used For Joints Greater Than 1/2\"/>



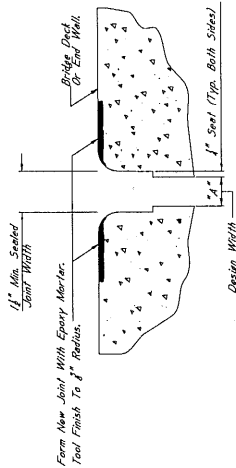
TYPICAL SECTION AT EXISTING JOINT

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

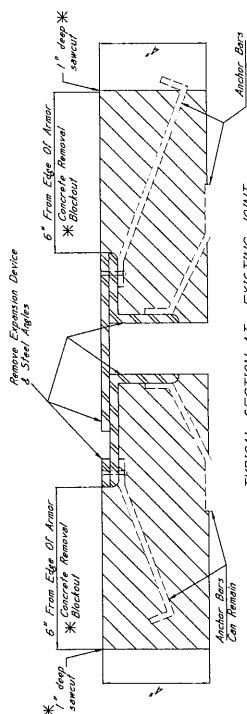
***NOTES:**

1. For Jersey Slab Bearings, The Minimum Required Vertical Joint Seal Dimension Within The Bearing Is 3/4\"/>

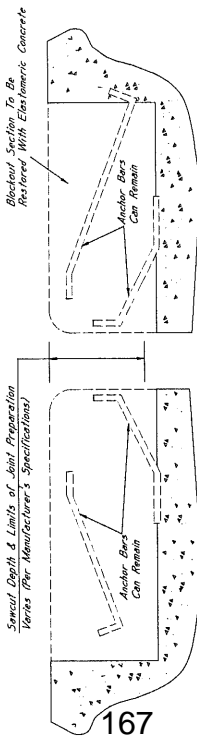
ELEVATION AT END OF SPAN

*** 1" SAWCUT NOTES:**
 All sawcuts shall be considered for concrete removal. The contractor shall verify the depth of reinforcing steel before making any sawcuts. The depth of the reinforcing steel shall be determined by the contractor and approved by the Engineer at the cost to the State.

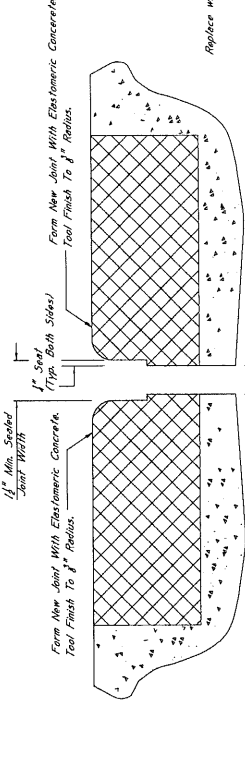
*** CONCRETE REMOVAL BLOCKOUT NOTES**
 All concrete shall be considered for removal. The contractor shall verify the depth of reinforcing steel before making any sawcuts. The depth of the reinforcing steel shall be determined by the contractor and approved by the Engineer at the cost to the State.



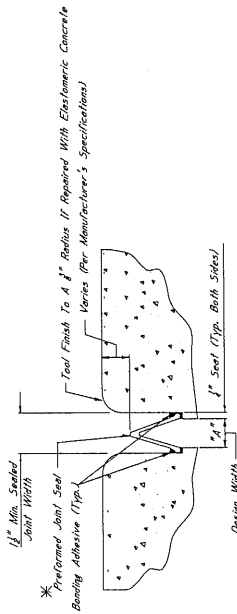
TYPICAL SECTION AT EXISTING JOINT
 Showing Existing Expansion Device To Be Removed And Replaced With Performed Joint Seal



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



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



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

*** NOTES:**
 1. The Performed Joint Seal Shall Be One Of The Following Installed According To The Manufacturer's Specifications:
 A. Silcoflex Joint Sealing System Manufactured By R.C. Watson, Inc. In Akron, NY
 B. W-1000 Sealed Surface Manufactured By Welton Bowman Acme Corporation In Amherst, NY
 C. Silgox 555 Silicone Strip Seal Manufactured By SST Commercial & Highway Construction Materials

2. For Estimating Purposes, The 6\"/>

3. Joints Shall Be Sealed At Their Design Width, Dimension 'A', Which Is Defined As The Actual Width Of The Joint Opening. This Width Does Not Account For The Seal Required On Widths Greater Than 2\"/>

NOTES ON ASSOCIATED ITEMS OF WORK:

907-823-8001 REMOVAL OF EXISTING JOINT MATERIAL
 Description:
 Shall Include The Removal Of Material Associated With Anomalous Joint Material, Expansion Device, Removal Of Concrete Blockout Area Shall Be Absorbed Under This Item Of Work. Other Joint Types Shall Not Be Included In This Item Of Work Unless Otherwise Directed By The Engineer.

Basis Of Payment:
 Removal of Anomalous Joint Material Will Be Paid For In Linear Feet Along The Length Of The Bridge Deck On Each Side Of The Centerline Joint, While Removal Of Anomalous Joint Material Will Be Paid For As The Length Along The Centerline Of The Joint.

907-823-8001 SAW CUT, TYPE I & 907-823-8002 SAW CUT, TYPE II
 Description:
 The Saw Cut Depth Shall Be Equivalent To The Installation Depth Required By The Manufacturer's Specifications. The Saw Cut Type Shall Be The Same As The Performer 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 Sawcut, Joint Seal, And Placement Of The New Performed Joint Seal.

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

ELASTOMERIC CONCRETE REPAIR NOTES
 907-823-PROOT BRIDGE REPAIR ELASTOMERIC CONCRETE
 Description:
 Elastomeric Concrete Shall Be One Of The Following Products, Subject To Meeting The Manufacturer's Specifications:
 A. Poly-Ton Elastomeric Concrete, Inc. In Akron, NY
 B. Welton-Bowman Acme Corporation In Amherst, NY
 C. Dabco Elastomeric Concrete, Inc. In North Baltimore, OH
 Manufactured By The U.S. Brown Company In North Baltimore, OH
 Basis of Payment:
 The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

GENERAL NOTES:
 1. Specifications, Manufacturer Standard Specifications For Road And Bridge Construction Shall Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer. Any Changes To Detail Of Design Or Construction Procedure Shall Be Made In Advance Of Construction. Such Changes Will Not Be Cause For Contract Price Adjustment. Such Changes Will Be Paid For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item Of Work.

2. Jersey Slabs Bearing The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 3'.

3. The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

4. The Contractor's Responsibility To Ensure That The Size Specified Is Appropriate For The Width Of The Joint.

5. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 3'.

6. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

7. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

8. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

9. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

10. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

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28. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

29. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

30. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

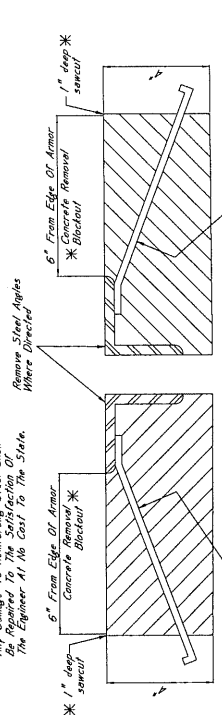
31. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

32. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

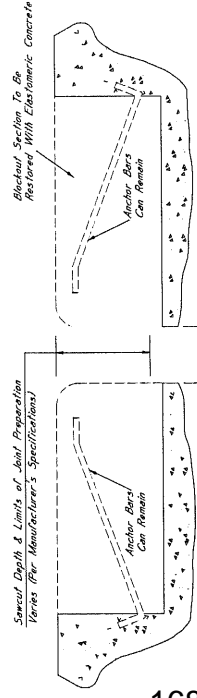
33. The Contractor Shall Be Responsible For The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6\"/>

*** 1" SAWCUT NOTES:**
 All 1" Sawcuts Shall Be Considered As Absorbed Item of Work. The Contractor Shall Verify Depth of Reinforcing Steel At The Depth Of The Sawcut Shall Be No More Than 6" From Edge Of Slab. Any Change To Reinforcing Steel Shall Be Made At The Cost To The State.

*** CONCRETE REMOVAL BLOCKOUT NOTES**
 Removal Of The Concrete Blockout Area Shall Be Considered An Absorbed Item Of Work. The Contractor Shall Verify Depth Of Reinforcing Steel At The Depth Of The Sawcut Shall Use A Hammer No Larger Than 30 LBS To Complete This Work.

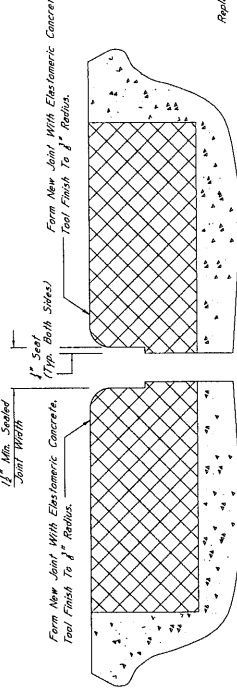


TYPICAL SECTION AT EXISTING JOINT
 Showing Existing Expansion Devices To Be Removed And Replaced With Preformed Joint Seal

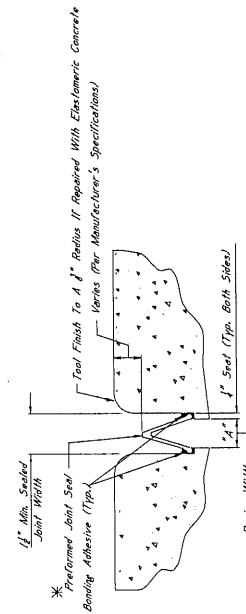


*** NOTE:**
 Sawcut Depth 5/8" Is Defined As The Actual Measured Joint Width.

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



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. Silibond Joint Sealing System, Manufactured By R.J. Watson, Inc. In Akron, NY
 B. Wobol SPS Joint System, Manufactured By Watson-Bowman Acme Corporation In Amherst, NY
 C. Silibond SSS 650000 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, Should Another Supplier Be Used, The Contractor Shall Verify That The Joint Sealant Meets The Following Requirements:
 A. Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins To Ensure That The Contractor Is Properly Scheduled In Installation Of The Joint Sealant.
 B. Joints Shall Be Sealed At Their Design Widths. Dimension "A" Which Is Defined As Seal Required On Both Sides Of The Joint, For Preformed Joint Seals, Type Is, Shall Be Used For Design Widths Less Than Seal Required Sealant. Dimension "B" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "C" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "D" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "E" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "F" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "G" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "H" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "I" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "J" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "K" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "L" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "M" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "N" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "O" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "P" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "Q" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "R" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "S" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "T" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "U" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "V" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "W" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "X" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "Y" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant. Dimension "Z" Which Is Defined As Seal Required On One Side Of The Joint, Shall Be Used For Design Widths Greater Than Seal Required Sealant.

*** NOTES:**
 For Design Widths, The Minimum Required Vertical Joint Seal Dimension For Post-And Beam Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6".

ELEVATION AT END OF SPAN

NOTES ON ASSOCIATED ITEMS OF WORK:

202-B169 REMOVAL OF EXISTING JOINT MATERIAL

Description:
 Shall Include The Removal Of Material Associated With Joint Sealing, Plates And Expansion Joints, As Designated In The Detail Drawings. Removal Of The Concrete Blockout Area Shall Be Absorbed Under This Item Of Work Unless Otherwise Directed By The Engineer.

Basis Of Payment:
 Removal Of Armor And Sliding Plate Joint Material Will Be Paid For In Linear Feet At The Contract Unit Price Along The Length Of The Bridge Deck On Each Side Of The 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 Equivalent To The Installation Depth Required By The Manufacturer's Specifications. The Type Seal 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

Description:
 Shall Include The Manufacturer's Required Joint Preparation Including Sealing 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

Description:
 Elastomeric Concrete Shall Be One Of The Following Products, Installed According To The Manufacturer's Specifications:
 A. Poly-Ton Elastomeric Concrete, Manufactured By R.J. Watson, Inc. In Akron, NY
 B. Wobol-Crete II, Manufactured By Watson-Bowman Acme Corporation In Amherst, NY
 C. Ductile Elastomeric Concrete, Manufactured By The R.L. Brown Company In North Baltimore, OH
 www.ducton.com

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

GENERAL NOTES:

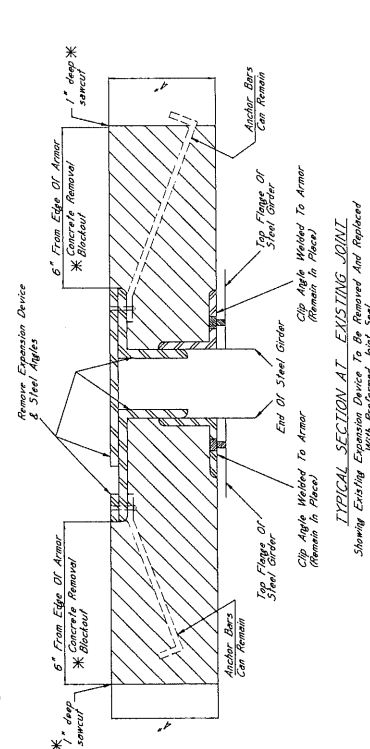
- Specifications: Massachusetts Standard Specifications For Road And Bridge Construction, 2012.
- As Change Of The Direction Of Structures, State Bridge Engineers, Minor Changes To Detail Of Design Or Construction Procedures May Be Authorized By The Bridge Engineer. Provided Such Changes Will Be Authorized In Writing. The Contractor Shall Be Responsible For Work For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Directly And Shall Therefore Be Considered An Absorbed Item of Work.

*** 1" SAWCUT NOTES:**

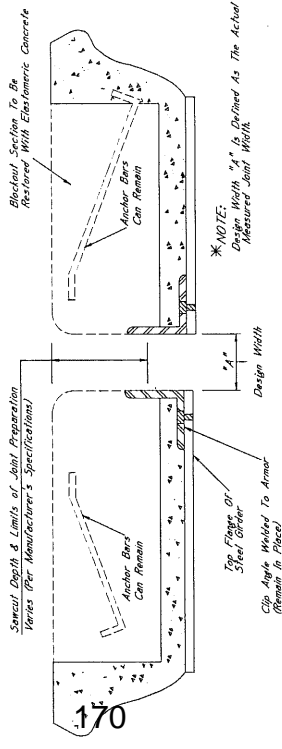
All 1" Sawcuts Shall Be Considered An Absorbed Item of Work. The Contractor Shall Obtain Approval From 202-91169, The Engineer, Before Making Any Sawcuts. The Depth Of The Sawcut Shall Be No More Than The Depth Of The Reinforcing Steel Shall Be Required To The Satisfaction Of The Engineer. At No Cost To The State.

*** CONCRETE REMOVAL BLOCKOUT NOTES:**

Removed Of The Concrete Blockout Area Considered An Item of Work. The Contractor Shall Obtain Approval From 202-91169, The Engineer, Before Making Any Sawcuts. The Depth Of The Sawcut Shall Be No More Than 30 LBS To Complete This Work.

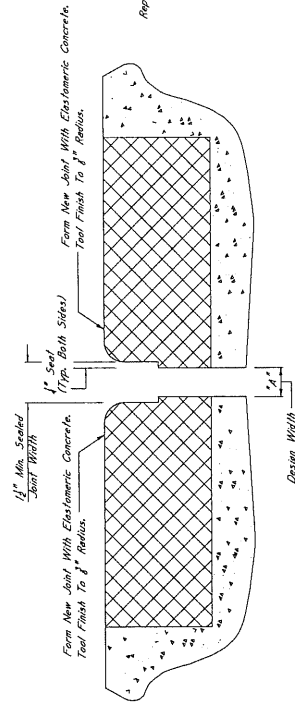


TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expansion Device To Be Removed And Replaced With Preformed Joint Seal

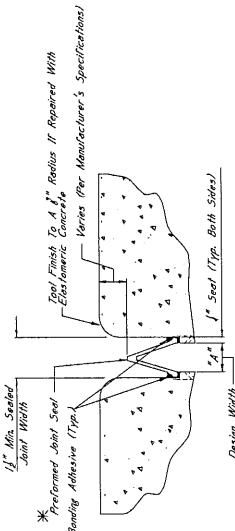


*** NOTE:**
Design Width "4" Is Defined As The Actual Measured Joint Width

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



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



TYPICAL SECTION AT SAWCUT & SEALED JOINT
Showing 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 Adels, NY www.rjwatson.com
- B. Water Stop Joint Sealing System Manufactured By W.S. Commercial & Highway Construction Materials www.wssm.com
- C. Silicone 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 Responsible To Ensure That The Manufacturer's Recommendations Are Followed For Joint Preparation, Installation Depth, And Width, Adhesive Sealing Times, And Material Application. The Contractor Shall Be Responsible For Ensuring That The Manufacturer Representative Shall Be Present At The Time Joint Sealing Begins To Ensure That The Contractor Is Properly Scheduled In Installation Of The Joint Material.

3. Joints Shall Be Sealed At Their Design Width. The Width Does Not Account For The Seal Required On Both Sides Of The Joint. The Preformed Joint Seal Type To Be Used For Each Joint Width Greater Than Or Equal To 2" With The Maximum Design Width Being 2". In Cases Where Design Widths Are Greater Than 2", Another Sealing System Shall Be Used. The Contractor Shall Be Responsible To Ensure That The Size Selected Is Appropriate For The Width Of The Joint.

*** NOTES:**

For Jersey Shape Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 3" For Post And Beam Barriers, The Minimum Required Vertical Joint Seal Dimension Within The Barrier Is 6".

ELEVATION AT END OF SPAN

NOTES ON ASSOCIATED ITEMS OF WORK:

202-91169 REMOVAL OF EXISTING JOINT MATERIAL

Description: Shall include The Removal Of Material Associated With Armor, Sliding Plates, And Negative Expansion Joints, As Designated In The Detail Drawings. The Contractor Shall Be Responsible For Removing All Material From The Joint Area That Is Not To Be Replaced Under This Item Of Work Unless Otherwise Directed By The Engineer.

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 Material Will Only Be Paid For As The Length Along The Centerline Of The Joint.

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

Description: The Saw Cut Depth Shall Be Equivalent To The Installation Depth Of The Material To Be Installed. The Preformed Joint Seal Selected 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.

907-823-0001 PREFORMED JOINT SEAL, TYPE I

907-823-0002 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 NOTES

907-824-0000 BRIDGE REPAIR ELASTOMERIC CONCRETE

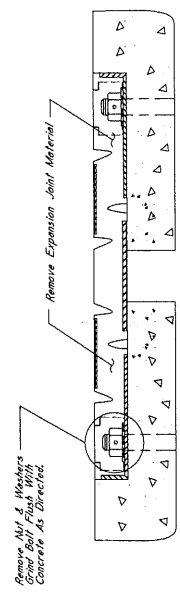
Description: Elastomeric Concrete Shall Be One Of The Following Products, Installed According To The Manufacturer's Specifications:

- A. Poly-Ton Elastomeric Concrete manufactured by R.J. Watson, Inc. In Adels, NY www.rjwatson.com
- B. Mole-Crete II By Weston Bruman Acme Corporation In Amherst, NY www.wbruman.com
- C. Dakota Elastomeric Concrete manufactured By The D.S. Brown Company In North Ballwin, OH www.dsbrown.com

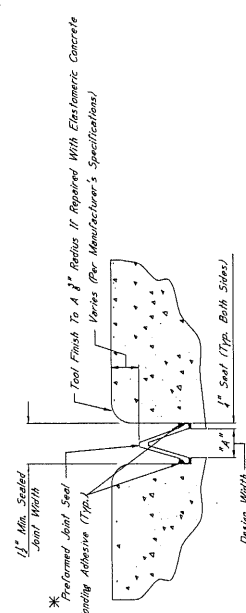
Basis Of Payment: The Accepted Quantities Will Be Paid For In Cubic Yards At The Contract Unit Price.

GENERAL NOTES:

1. Specifications: Mississippi Standard Specifications For Road And Bridge Construction Shall Apply Unless Otherwise Stated.
2. No Change Of Plans Will Be Permitted Except By Written Approval Of The Director Of Structures, State Bridge Engineer. Minor Changes To Detail Drawings Or Construction Methods Will Not Be Cause For Contract Price Adjustment. Work For Which No Pay Item Is Provided In The Proposal Will Be Considered An Absorbed Item of Work.

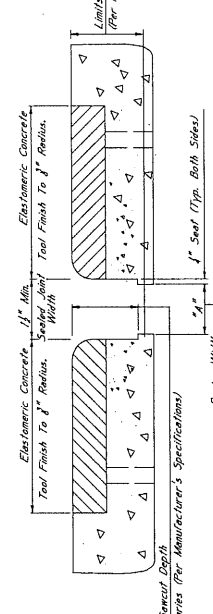


TYPICAL SECTION AT EXISTING JOINT
Showing Existing Expansion Joints To Be Removed And Replaced With Preformed Joint Seal



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. Silcoflex Joint Sealing System www.silcoflex.com
 - B. Wako SPS Joint System Manufactured By Watson Bowman Acme Corporation In Amherst, NY www.watsonb.com
 - C. Siligra 553 Silicone Strip Seal www.silicra.com



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

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

NOTES ON ASSOCIATED ITEMS OF WORK
907-823-001 REMOVAL OF EXISTING JOINT MATERIAL

Description: Shall Include The Removal Of Material Associated With Armor Sliding Plates And Expansion Joints As Designated In The Detail Drawings Provided. Other Joint Types Shall Not Be Included Under This Item Of Work Unless Otherwise Directed By The Engineer.

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

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
907-823-002 PREFORMED JOINT SEAL, TYPE II

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

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

ELASTOMERIC CONCRETE NOTES

907-824-000T BRIDGE REPAIR ELASTOMERIC CONCRETE

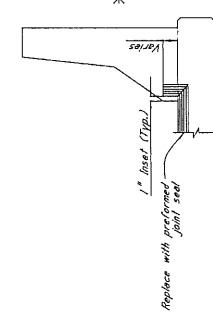
Description: Elastomeric Concrete Shall Be One Of The Following Products Manufactured According To The Manufacturer's Specifications:

- A. Poly-Ton Elastomeric Concrete www.polyton.com
- B. Waco-Crete II By Watson Bowman Acme Corporation In Amherst, NY www.watsonb.com
- C. Poly-Ton Elastomeric Concrete Manufactured By The U.S. Brown Company In North Baltimore, OH www.usbrown.com

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

GENERAL NOTES:

1. Specifications: Message Standard Specifications For Road And Bridge Construction.
2. Approval Of The Director Of Structures, State Bridge Engineer, Must Be Obtained For Any Changes To Detail Or Construction Procedure. The Engineer Will Not Be Responsible For Contract Price Changes Resulting From Such Changes.
3. Work For Which No Pay Item Is Provided In The Proposal Will Not Be Paid For Directly. And Shall Therefore Be Considered An Absorbed Item Of Work.



ELEVATION AT END OF SPAN

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

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.

Bridge Preservation on I-20 over KCS RR, (Bridge Nos. 56.8A & 56.8B), known as Federal Aid Project No. NHPP-0020-01(251) / 108284301 in Rankin County.

Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
Roadway Items					
0010	201-A001		1	Lump Sum	Clearing and Grubbing
0020	202-B158		200	Linear Feet	Removal of Guard Rail, Including Rails, Posts and Terminal Ends
0030	606-B003		138	Linear Feet	Guard Rail, Class A, Type 1, 'W' Beam, Metal Post
0040	606-D005		1	Each	Guard Rail, Bridge End Section, Type A
0050	606-E005		1	Each	Guard Rail, Terminal End Section, Flared
0060	618-A001		1	Lump Sum	Maintenance of Traffic
0070	619-D1001		32	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0080	619-D2001		384	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0090	619-F3001		7	Each	Delineators, Guard Rail, White
0100	619-G4005		48	Linear Feet	Barricades, Type III, Single Faced
0110	620-A001		1	Lump Sum	Mobilization
0120	907-420-A002		40,000	Pounds	Undersealing Concrete Pavement
0130	907-899-A001		1	Lump Sum	Railway-Highway Provisions
Bridge Items					
0140	907-808-A002	(S)	1,168	Linear Feet	Joint Repair
0150	907-823-A001		584	Linear Feet	Preformed Joint Seal, Type I
0160	907-823-B001		1,168	Linear Feet	Saw Cut, Type I
0170	907-824-PP003		5	Square Feet	Bridge Repair, Approach Slab Repair
0180	907-824-PP003		40	Square Feet	Bridge Repair, Epoxy Repair
0190	907-824-PP003		50	Square Feet	Bridge Repair, Field Paint
0200	907-824-PP006		2	Each	Bridge Repair, Bearing Replacement
0210	907-824-PP006		1	Each	Bridge Repair, Bridge End Post Repair
0220	907-824-PP006		16	Each	Bridge Repair, Cap Cleaning
0230	907-824-PP006		2	Each	Bridge Repair, Connection Plate Repair
0240	907-824-PP006		4	Each	Bridge Repair, Pressure Relief Joint
0250	907-824-PP006		2	Each	Bridge Repair, Riser Repair
0260	907-824-PP006		2	Each	Bridge Repair, Transverse Stiffeners
0270	907-824-PP006		49	Each	Bridge Repair, Weld Repair
0280	907-824-PP008		56	Linear Feet	Bridge Repair, Endwall Repair

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.



**Certification with regard to the Performance of Previous
Contracts or Subcontracts subject to the Equal Opportunity
Clause and the filing of Required Reports**

The Bidder hereby certifies that he has _____, has not _____, participated in a previous contract or subcontract subject to the Equal Opportunity Clause, as required by Executive Orders 10925, 11114, or 11246, and that he has _____, has not _____, filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements.

(COMPANY)

DATE: _____

NOTE: The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7 (b) (1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the Equal Opportunity Clause. Contracts and Subcontracts which are exempt from the Equal Opportunity Clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of \$10,000 or under are exempt.)

Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.

Proposed prime Contractors and Subcontractors who have participated in a previous contract or subcontract subject to the Executive orders and have not filed the required reports should note that 41 CFR 60-1.7 (b) (1) prevents the award of contracts and subcontracts unless such Contractors submit a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U. S. Department of Labor.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
CERTIFICATION

I, _____,
(Name of person signing bid)

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

_____ do hereby certify under
(Name of Firm, partnership, or Corporation)

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. **NHPP-0020-01(251)/ 108284301000**

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:

- a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in (b) above; and
- d) Have not within a three-year period preceding this application/ proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

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.

The bidder further certifies that the certification requirements contained in Section XI of Form FHWA 1273, will be or have been included in all subcontracts, material supply agreements, purchase orders, etc. except those procurement contracts for goods or services that are expected to be less than the Federal procurement small purchase threshold fixed at 10 U.S.C. 2304(g) and 41 U.S.C. 253(g) (currently \$25,000) which are excluded from the certification requirements.

The bidder further certifies, to the best of his or her knowledge and belief, that:

1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this contract, Standard Form-LLL, Disclosure Form to Report Lobbying, in accordance with its instructions will be completed and submitted.

The certification contained in (1) and (2) above is a material representation of fact upon which reliance is placed and a prerequisite imposed by Section 1352, Title 31, U.S. Code prior to entering into this contract. Failure to comply shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000. The bidder shall include the language of the certification in all subcontracts exceeding \$100,000 and all subcontractors shall certify and disclose accordingly.

All of the foregoing is true and correct.

Executed on _____

Signature

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SAM.GOV Registration and DUNS Number

Bidders are advised that the Prime Contractor must maintain current registration in the **System for Award Management** (<http://www.sam.gov>) at all times during the project. A Dun and Bradstreet Data Universal Numbering System (DUNS) Number (<http://www.dnb.com>) is one of the requirements for registration in the System for Award Management.

Bidders are advised that prior to the award of this contract, they **MUST** be registered in the System for Award Management.

I (We) acknowledge that this contract cannot be awarded if I (We) are not registered in the System for Award Management prior to the award of this contract. _____ (Yes / No)

I (We) have a DUNS Number . _____ (Yes / No)

DUNS Number: _____

Company Name: _____

Company e-mail address: _____

(6/2015F)

For Informational Purposes Only

SECTION 902

CONTRACT FOR NHPP-0020-01(251)/ 108284301000

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. _____.

Revised 8/06/2003

SECTION 903
PERFORMANCE AND PAYMENT BOND

CONTRACT BOND FOR: NHPP-0020-01(251)/ 108284301000

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 **Bridge Preservation on I-20 over KCS RR, (Bridge Nos. 56.8A & 56.8B), known as Federal Aid Project No. NHPP-0020-01(251) / 108284301 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__

(Witness)

(Principal) (Seal)

By: _____
(Name) (Title)

(Surety) (Seal)

(Witness)

By: _____
(Attorney-in-Fact)

(MS Agent)

Mississippi Insurance ID Number

