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SM No. CSP0003012051

PROPOSAL AND CONTRACT DOCUMENTS

FOR THE CONSTRUCTION OF

15

Replace Existing Lighting Fixtures & Repair Lighting System along US 90 at the Biloxi Bay Bridge, known as State Project Nos. SP-0003-01(205) / 108675301 & SP-0003-01(205) / 108675302 in Harrison & Jackson Counties.

Project Completion: 129 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: SP-0003-01(205)/108675301 - Harrison
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(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET
OF SECTION 905 AS ADDENDA)

05/26/2021 02:54 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, June 22, 2021, from the Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Replace Existing Lighting Fixtures & Repair Lighting System along US 90 at the Biloxi Bay Bridge, known as State Project Nos. SP-0003-01(205) / 108675301 & SP-0003-01(205) / 108675302 in Harrison & Jackson Counties.

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

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

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

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

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

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

JEFFREY C. ALTMAN
ACTING 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. 9

CODE: (IS)

DATE: 03/01/2017

SUBJECT: Federal Bridge Formula

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

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

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

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

or

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 296

CODE: (SP)

DATE: 07/25/2017

SUBJECT: Reduced Speed Limit Signs

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 445

CODE: (SP)

DATE: 10/10/2017

SUBJECT: Mississippi Agent or Qualified Nonresident Agent

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 516

CODE: (IS)

DATE: 11/28/2017

SUBJECT: Errata and Modifications to the 2017 Standard Specifications

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1225

CODE: (SP)

DATE: 11/13/2018

SUBJECT: Early Notice to Proceed

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1226

CODE: (IS)

DATE: 11/16/2018

SUBJECT: Material Storage Under Bridges

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 1241

CODE: (IS)

DATE: 11/27/2018

SUBJECT: Fuel and Material Adjustments

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2206

CODE: (IS)

DATE: 01/14/2020

SUBJECT: MASH Compliant Devices

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

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2273

CODE: (SP)

DATE: 02/12/2020

SUBJECT: Mississippi Special Fuel Tax Law

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

Gasoline and Dyed Diesel Used for Non-Highway Purposes

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

Gasoline Used for Non-Highway Purposes

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

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

Refund Gasoline User

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

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

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

Refund Gasoline Dealer

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

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

Dyed Diesel Used for Non-Highway Purposes

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

Dyed Diesel Used on the Highway

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

Identifying Dyed Diesel

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



Special Fuel Used on Government Contracts

State and Local Government Contracts

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

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

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

Special Fuel Direct Pay Permit

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

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

Special Fuel Distributors

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

Environmental Protection Fee

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

Penalties

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



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904- NOTICE TO BIDDERS NO. 2365

CODE: (SP)

DATE: 03/23/2020

SUBJECT: Special Project Signs

Bidders are advised that this project will require Special Project Signs. The signs and posts will be State Furnished and Contractor will only be required to install, maintain, and remove the signs. The signs shall be erected prior to beginning any construction and remain in place for the duration of the project. The signs shall be installed near the beginning and end of the project at locations approved by the Engineer. The signs will remain the property of the Department at the end of the project. All costs for special project signs should be included in the bid price for pay item 618-A: Maintenance of Traffic.



6.0" Radius, 0.8" Border, Blue on White;

"Project Funded By" D 2K; "Mississippi Lottery" D 2K; "Thank Your" E 2K; "State Legislator" E 2K;

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUPPLEMENT TO NOTICE TO BIDDERS NO. 2654

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. 2654

CODE: (SP)

DATE: 05/02/2020

SUBJECT: Disadvantaged Business Enterprises In Special Funded Projects

The Department has developed a Disadvantaged Business Enterprise Program that is applicable to this contract and is made a part thereof by reference, except approvals and concurrences by the Federal Highway Administration is not applicable to this contract since it is not financed in whole or in part with Federal Funds.

Copies of the program may be obtained from:

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

POLICY

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

ASSURANCES THAT CONTRACTORS MUST TAKE:

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

“The Contractor, subrecipient or Subcontractor shall not discriminate on the basis of race, color, sex or national origin in the performance of this contract. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as MDOT deems appropriate.”

DEFINITIONS

For purposes of this provision the following definitions will apply:

"Disadvantaged Business" means a small business concern: (a) which is at least 51 percent owned by one or more socially and economically disadvantaged individual(s) or in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more socially

and economically disadvantaged individual(s); and (b) whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individual(s) who own it. It is important to note that the business owners themselves must control the operations of the business. Absentee ownership or title ownership by an individual who does not take an active role in controlling the business is not consistent with eligibility as a DBE under 49 CFR Part 26.71.

CONTRACTOR'S OBLIGATION

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

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

CONTRACT GOAL

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

If the percentage of the contract that is proposed for DBEs is 1% or greater, shall be so stated on the last bid sheet of the proposal.

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

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

The OCR-481 Form must contain the following information:

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

The Reference Number, percent of work to be completed by the DBE subcontractor and the dollar amount of each item. If a portion of an item is subcontracted, a breakdown of that item

including quantities and unit price must be attached, detailing what part of the item the DBE firm is to perform and who will perform the remainder of the item.

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

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

GOOD FAITH EFFORTS

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

- (1) Whether the bidder attended the pre-bid meeting that was scheduled by the Department to inform DBEs of subcontracting opportunities;
- (2) whether the bidder advertised in general circulation, trade association, and minority-focus media concerning the subcontracting opportunities;
- (3) whether the bidder provided written notice to a reasonable number of specific DBEs that their interest in the contract is being solicited;
- (4) whether the bidder followed up initial solicitations of interest by contacting DBEs to determine with certainty whether they were interested;
- (5) whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goal;
- (6) whether the bidder provided interested DBEs with adequate information about the plans, specifications and requirements of the contract;
- (7) whether the bidder negotiated in good faith with interested DBEs and did not reject them as unqualified without sound reasons based on a thorough investigation of their capabilities; and
- (8) whether the bidder made efforts to assist interested DBEs in obtaining any required bonding or insurance.
- (9) whether the bidder has written notification to certified DBE Contractors soliciting subcontracting for items of work in the contract.
- (10) whether the bidder has a statement of why an agreement was not reached.

- (11) Proof of written notification to certified DBE Contractors by certified mail that their interest is solicited in subcontracting the work defaulted by the previous DBE or in subcontracting other items of work in the contract.

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

The bidder hereby gives assurance that a good faith effort has been made to meet the contract goal for DBE participation for which this proposal is submitted.

DIRECTORY

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

REPLACEMENT

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

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

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

PREBID MEETING

A pre-bid meeting will be held in the Commission Room on the 1st floor of the MDOT Administration Building in Jackson at 2:00 P.M. on the day preceding the date of the bid opening.

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

PARTICIPATION / DBE CREDIT

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

- (1) If the Prime Contractor is a certified DBE firm, only the value of the work actually performed by the DBE Prime can be counted towards the project goal, along with any work subcontracted to a certified DBE firm.
- (2) If the Prime Contractor is not a DBE, the work subcontracted to a certified DBE Contractor will be counted toward the goal.
- (3) The Contractor may count toward the goal a portion of the total dollar value of a contract with a joint venture eligible under the standards of this provision equal to the percentage of the DBE partner in the joint venture. The joint venture must submit a Joint Venture Eligibility Form provided by the Mississippi Department of Transportation.
- (4) Expenditures to DBEs that perform a commercially useful function may be counted toward the goal. A business is considered to perform a commercially useful function when it is responsible for the execution of a distinct element of the work and carries out its responsibilities by actually performing, managing, and supervising the work involved.
- (5) The Contractor may count 100% of the expenditures for materials and supplies obtained from certified DBE suppliers and manufacturers that produce goods from raw materials or substantially alters them for resale provided the suppliers and manufacturers assume the actual and contractual responsibility for the provision of the materials and supplies. The Contractor may count 60 percent of the expenditures to suppliers that are not manufacturers, provided the supplier performs a commercially useful function in the supply process. Within 30 days after receipt of the materials, the Prime Contractor shall furnish to the DBE Coordinator invoices from the certified supplier to verify the DBE goal.
- (6) Any work that a certified DBE firm subcontracts or sub-subcontracts to a non-DBE firm will not count towards the DBE goal
- (7) Only the dollars actually paid to the DBE firm may be counted towards the DBE goal.

AWARD

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

- (1) **All Bidders** must submit to the Office of Civil Rights for approval, Form OCR-481 (DBE Commitment) no later than the 3rd business day after opening of the bids, or submit information with the bid proposal to satisfy the Department and that adequate good faith

efforts have been made to meet the contract goal. For answers to questions regarding Form OCR-481, contact the MDOT Office of Civil Rights at (601) 359-7466.

- (2) Bidder must include OCR-485 information with their bid proposal listing all firms that submitted quotes for material supplies or items to be subcontracted. OCR-485 information must be signed and included with the bid proposal. If the OCR-485 information is not included as part of bid proposal, your bid will be deemed irregular.

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

DEFAULT

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

DBE REPORTS

- (1) OCR-481: Refer to "CONTRACT GOAL" section of this Notice to Bidders for information regarding this form.
- (2) OCR-482: At the conclusion of the project the Contractor will submit to the Project Engineer for verification of quantities and further handling Form OCR-482 whereby the Contractor certifies to the amounts of payments made to each Contractor/Supplier. The Project Engineer shall submit the completed Form OCR-482 to the DBE Coordinator (Office of Civil Rights). Final acceptance of the project is dependent upon Contract Administration Division's receipt of completed Form OCR-482 which they will receive from the Office of Civil Rights.
- (3) OCR-483: The Project Engineer/Inspector will complete Form OCR-483, the Commercially Useful Function (CUF) Performance Report, in accordance with MDOT S.O.P. No. OCR-03-05-02-483. Evaluations reported on this form are used to determine whether or not the DBE firm is performing a CUF. The Prime Contractor should take corrective action when the report contains any negative evaluations. DBE credit may be disallowed and/or other sanctions imposed if it is determined the DBE firm is not performing a CUF. This form should also be completed and returned to the DBE Coordinator (Office of Civil Rights).
- (4) OCR-484: Each month, the Prime Contractor will submit to the Project Engineer OCR-484 that certifies payments to all Subcontractors and shows all firms even if

the Prime Contractor has paid no monies to the firm during that estimate period (negative report). The Project Engineer will attach the form to the monthly estimate before forwarding to the Contract Administration Division for further processing. Failure of the Contractor to submit the OCR-484 will result in the estimate not being processed and paid.

- (5) OCR-485: Bidder must submit **signed form with bid proposal** of all firms that submitted quotes for material supplies or items to be subcontracted. If the OCR-485 information is not included as part of bid proposal, your bid will be deemed irregular.
- (6) OCR-487: Only used by Prime Contractors that are certified DBE firms. This form is used in determining the exact percentage of DBE credit for the specified project. **The low Bidder** should **return this form** to MDOT with the OCR-481 form, or can also be returned with the Permission to Subcontract Forms (CAD-720, CAD-725 and CAD-521).

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

SANCTIONS

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

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

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

- (4) Debar the Contractor involved from bidding on Mississippi Department of Transportation projects **for a period of up to 12 months after notification by certified email.**

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 2954

CODE: (SP)

DATE: 12/01/2020

SUBJECT: Reflective Sheeting for Signs

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

Temporary Construction Signs

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

Permanent Signs

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 – NOTICE TO BIDDERS NO. 3117

CODE: (SP)

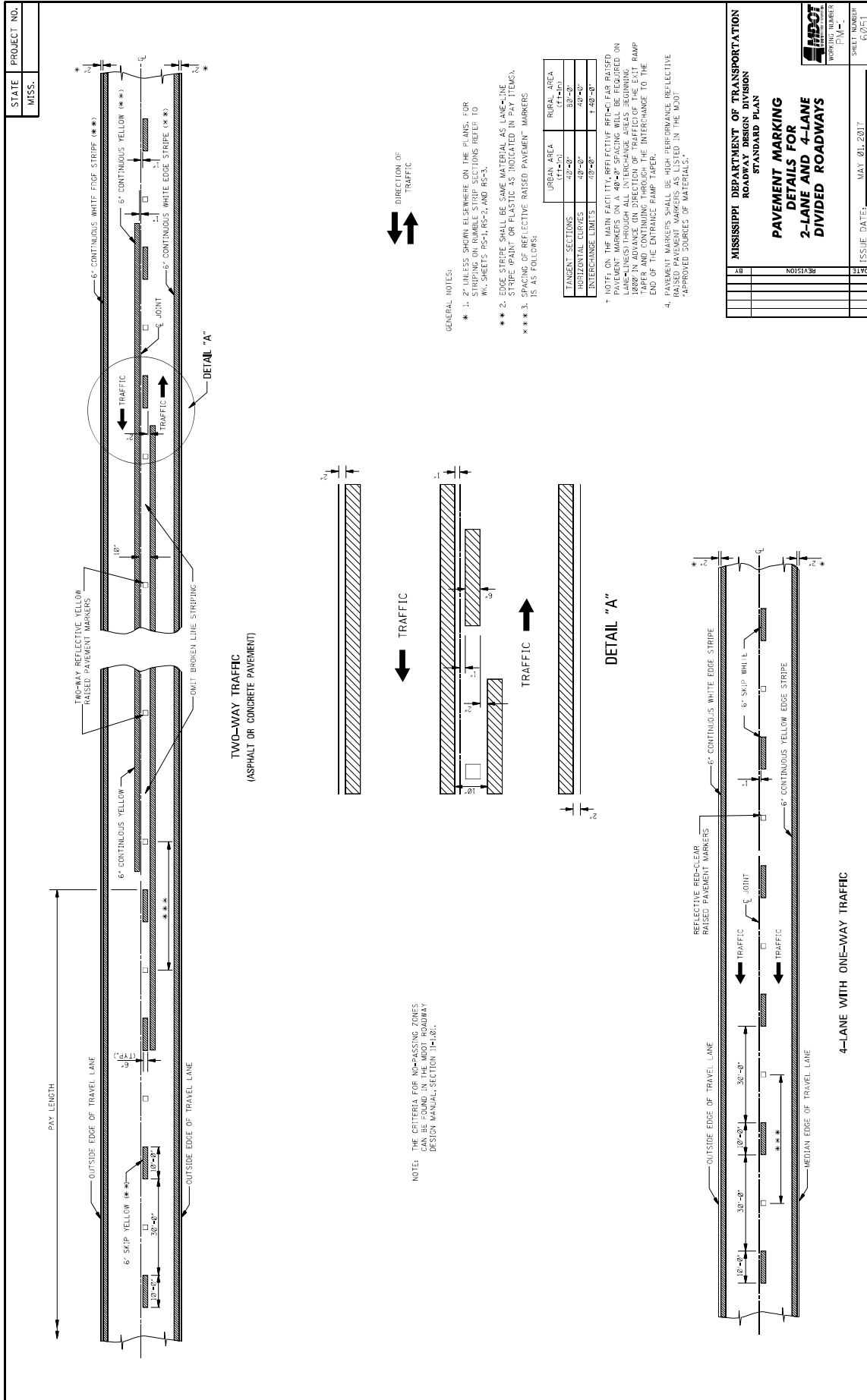
DATE: 02/23/2021

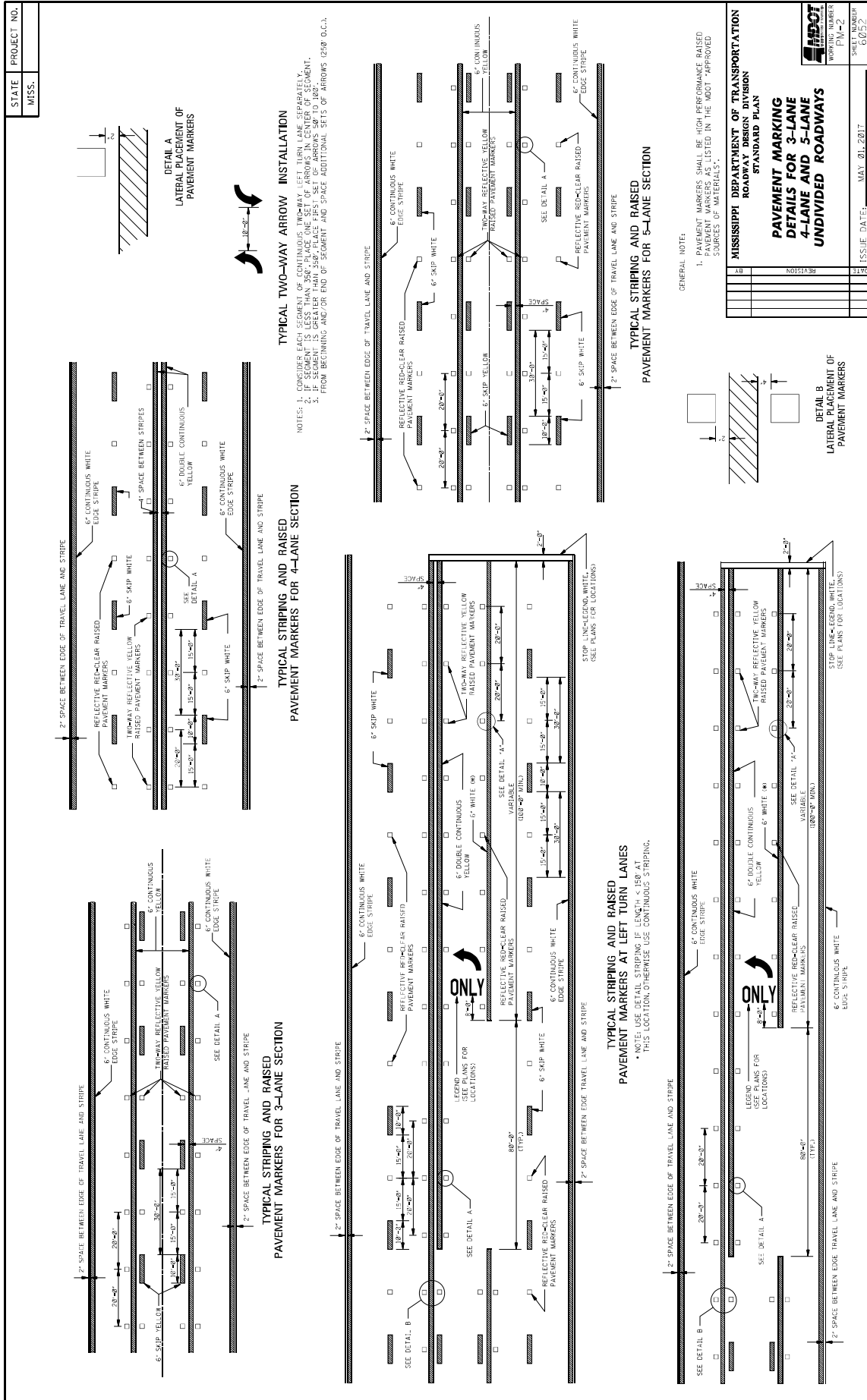
SUBJECT: Standard Drawings

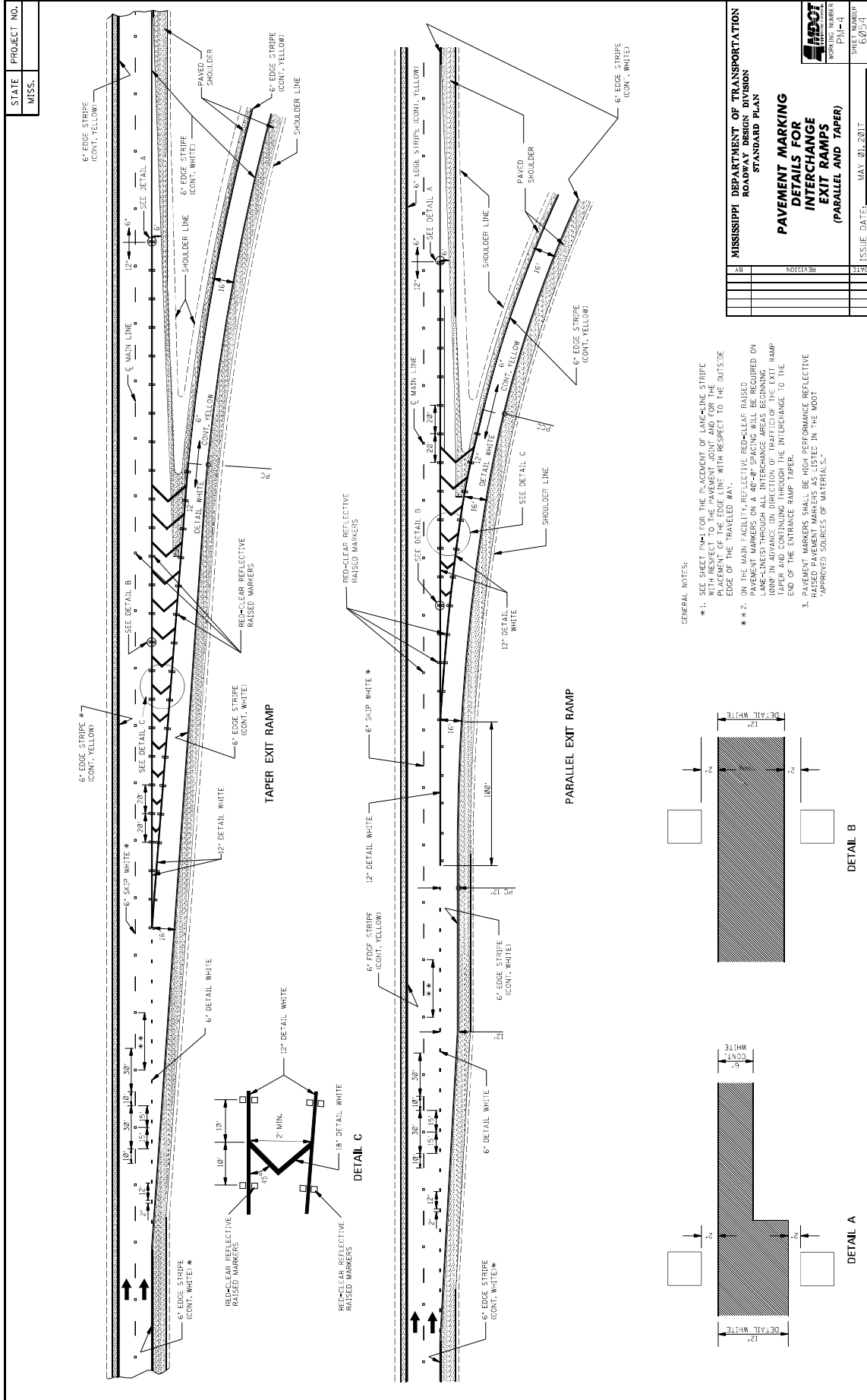
Standard Drawings attached hereto shall govern appropriate items of required work.

Larger copies of Standard Drawings may be purchased from:

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



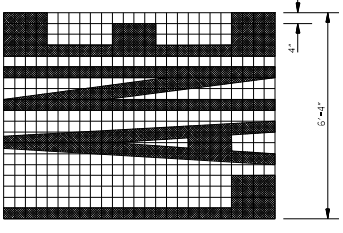




MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
PAVEMENT MARKING	
DETAILS FOR	
INTERCHANGE	
EXIT RAMPS	
(PARALLEL AND TAPER)	
SHEET NUMBER	ISSUE DATE: MAY 01, 2017
PL-4	
62/241	

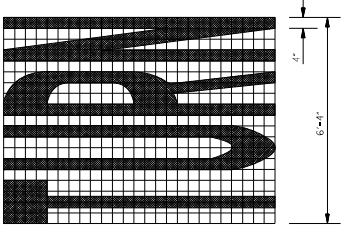
- GENERAL NOTES:
- * 1. SEE SHEET PAV-1 FOR THE PLACEMENT OF LANE-LINE STRIPE WITH RESPECT TO THE PAVEMENT JOINT AND FOR THE PLACE OF THE EDGE STRIPE WITH RESPECT TO THE OUTSIDE EDGE OF THE PAVED SHOULDER.
 - ** 2. THE RAISED REFLECTIVE BEAD-BLE BARRIS PAVEMENT MARKERS ON A 40'-84" SPACING WILL BE REQUIRED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

STATE MISS.	PROJECT NO.										
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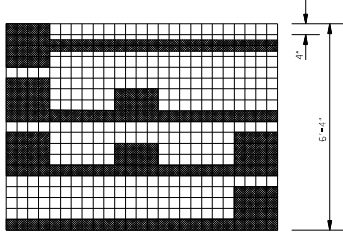
6'-4"

8'-4"



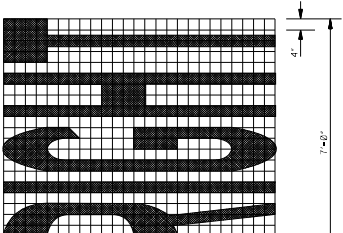
6'-4"

8'-4"



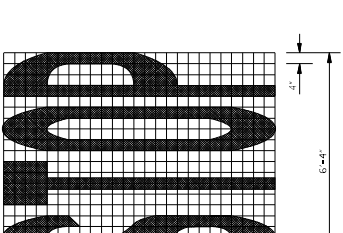
6'-4"

8'-4"



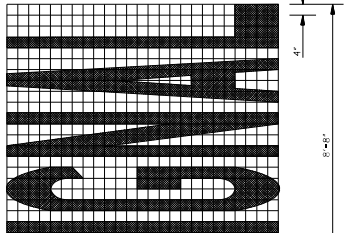
7'-0"

8'-4"



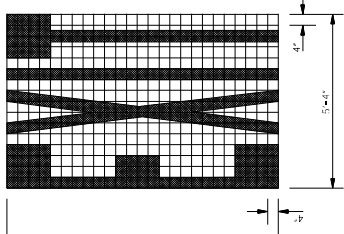
6'-4"

8'-4"



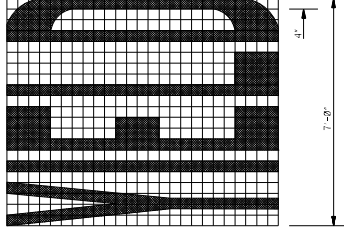
6'-0"

8'-4"



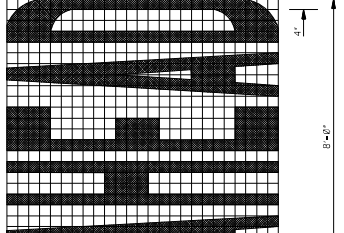
5'-4"

8'-4"



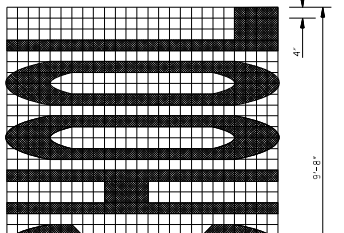
7'-0"

8'-4"



8'-0"

8'-4"



9'-8"

8'-4"

GENERAL NOTES:

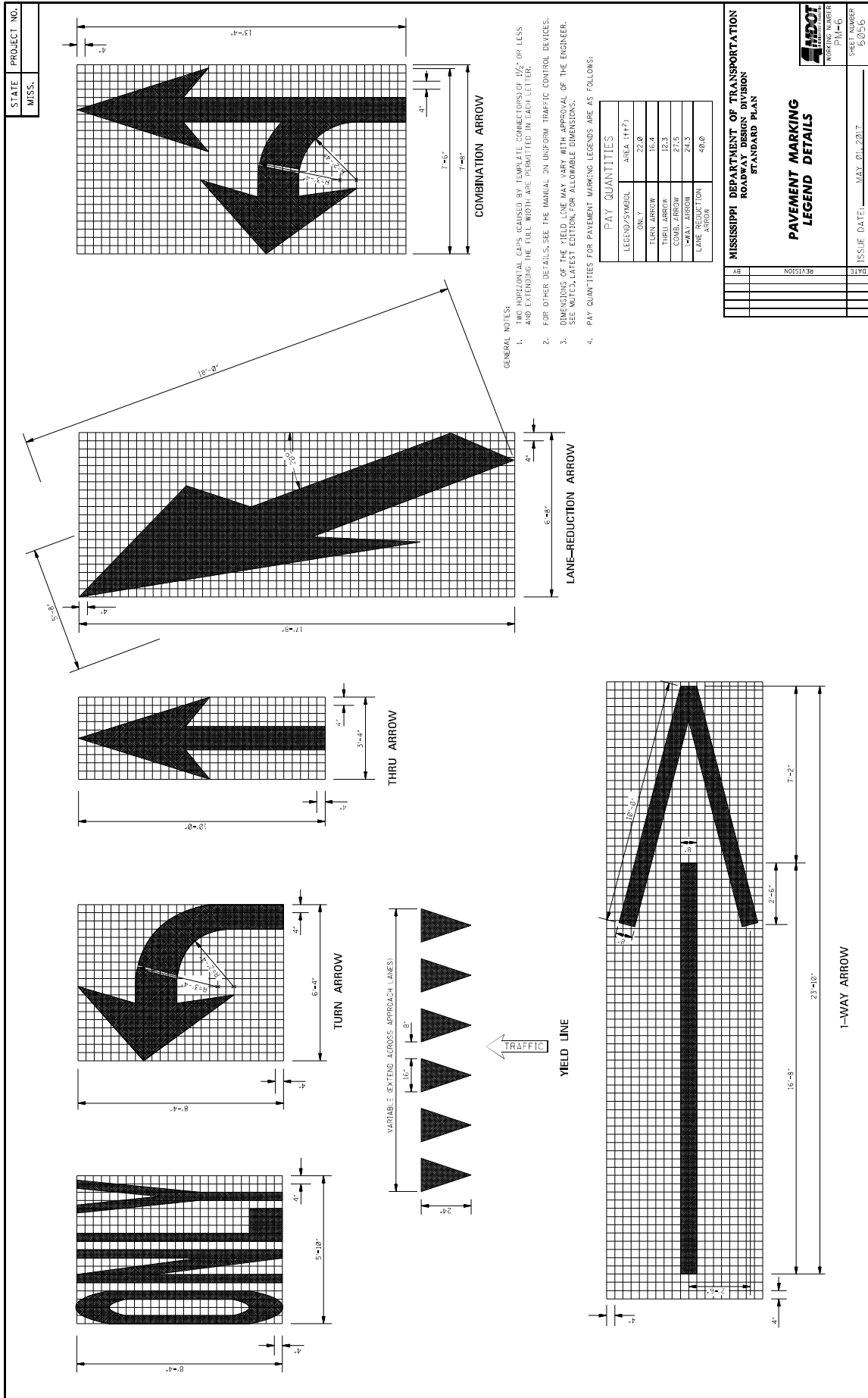
- TWO HORIZONTAL GAPS (CAUSED BY TEMPLATE CONNECTIONS) OF 1/4" SHALL BE MAINTAINED BETWEEN ALL LETTERS OR BETWEEN THE FIRST AND LAST LETTERS OF EACH WORD.
- FOR OTHER DETAILS, SEE THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- PAY QUANTITIES FOR PAVEMENT MARKING LEGENDS ARE AS FOLLOWS:

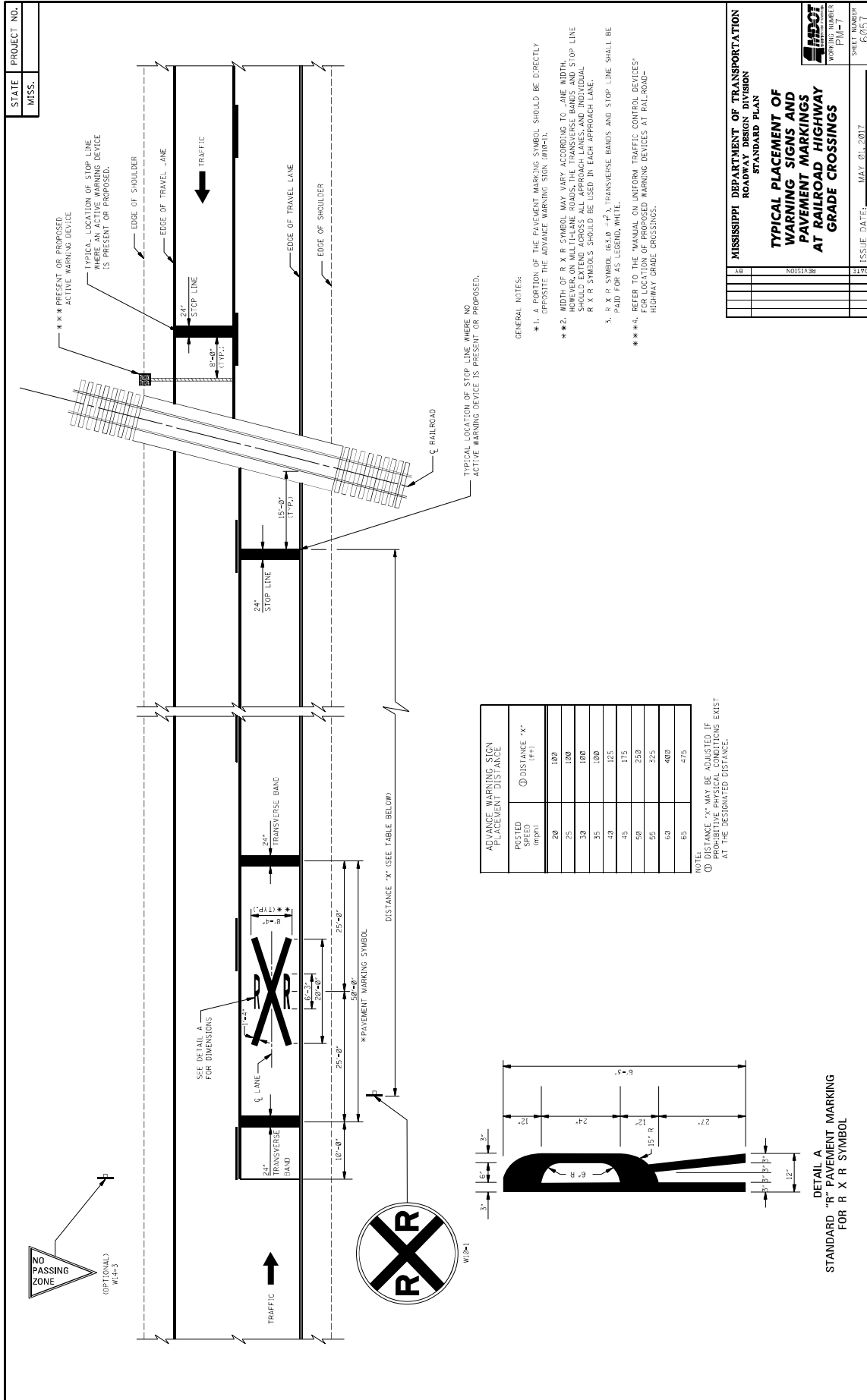
LEGEND	AREA (SQ. FT.)
STOP	246.6
RIGHT	206.6
LEFT	195.5
YIELD	227.2
AHEAD	322.4
YIELD	206.6
EXIT	185.5
SIGNAL	322.4
SCHOOL	322.4

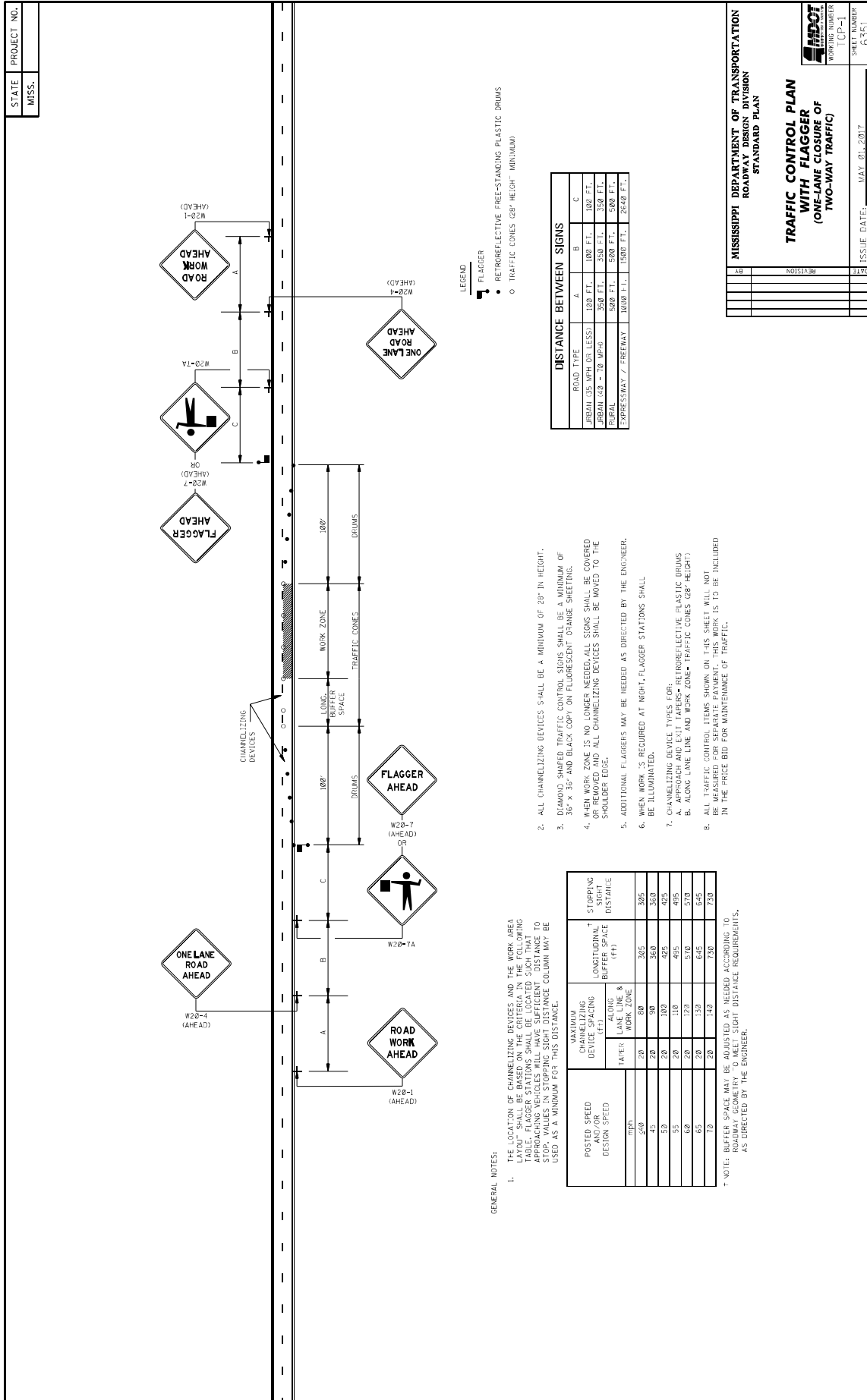
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

**PAVEMENT MARKING
LEGEND DETAILS**

ISSUE DATE: MAY 01, 2017





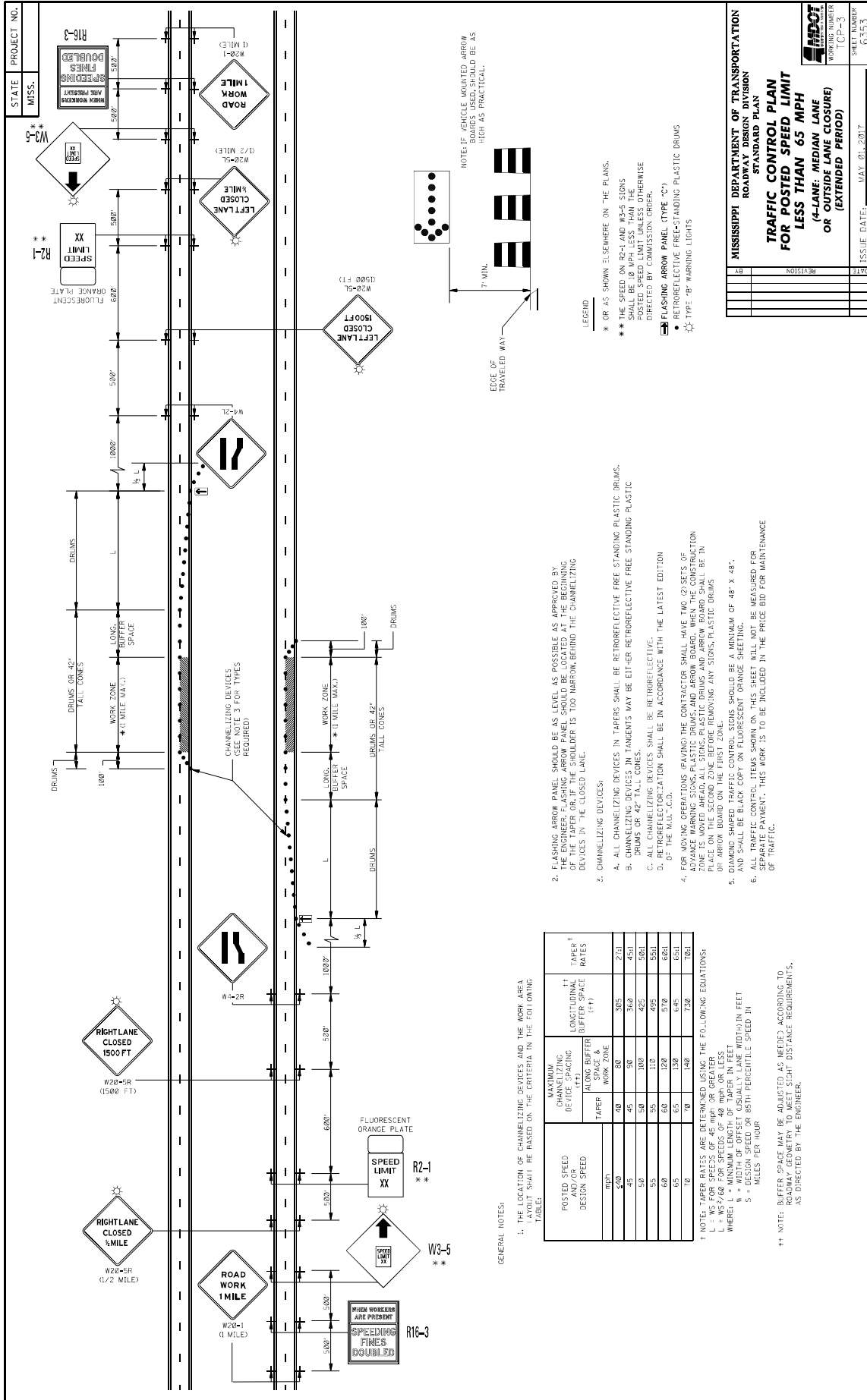


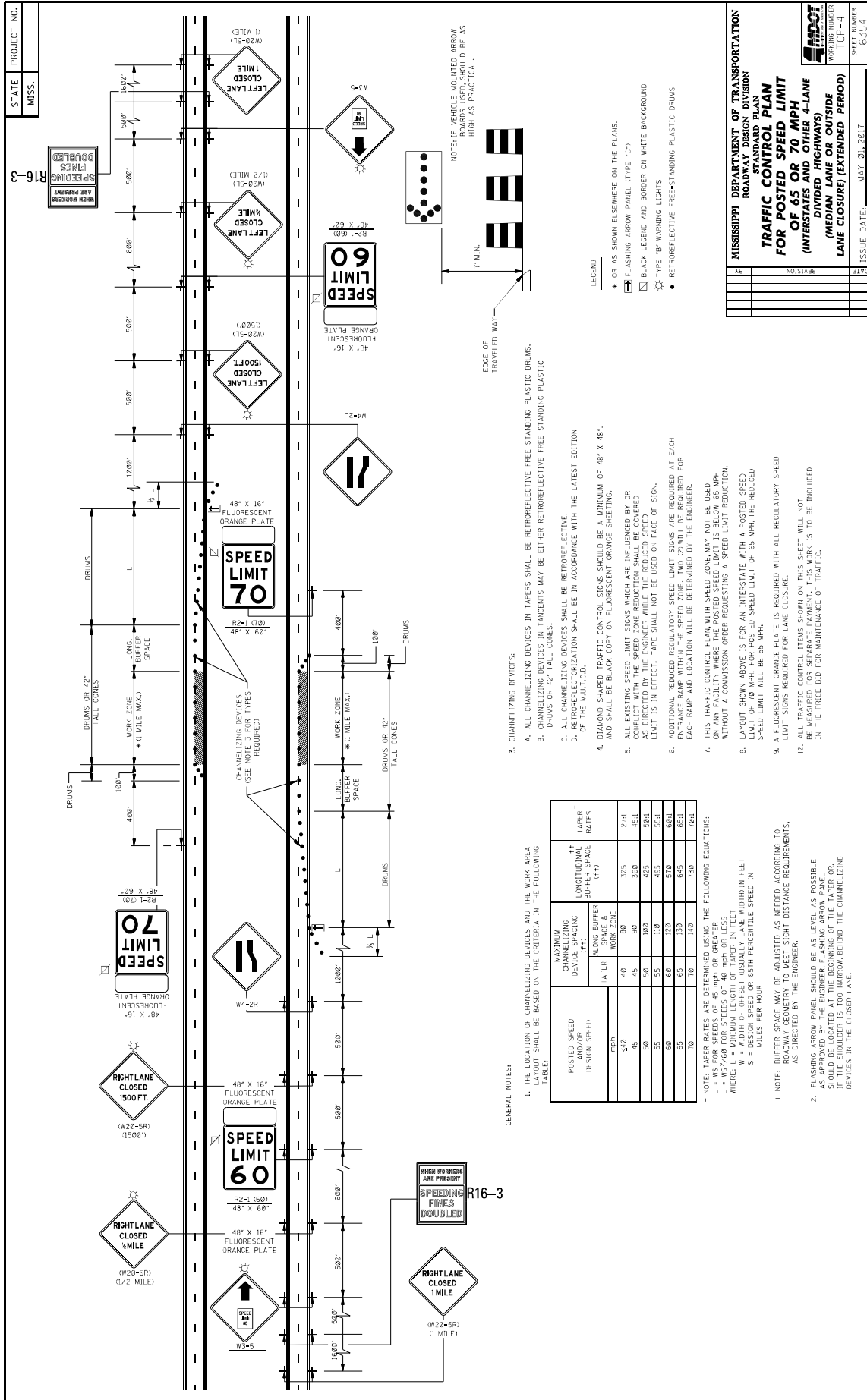
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

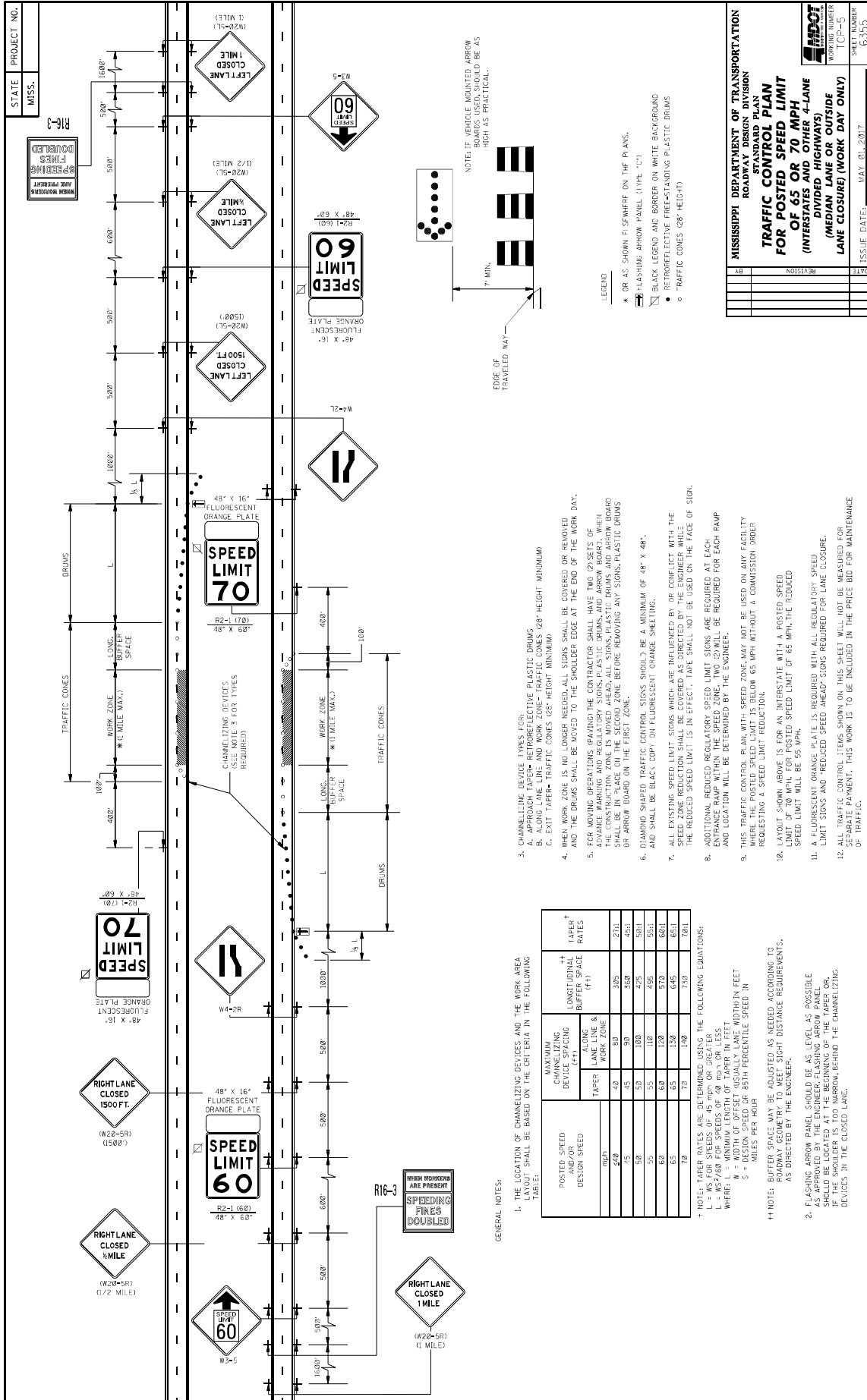
TRAFFIC CONTROL PLAN
WITH FLAGGER
(ONE-LANE CLOSURE OF
TWO-WAY TRAFFIC)

ISSUE DATE: MAY 01, 2017

WORKING NUMBER [CP-1]
SHEET NUMBER 6351







GENERAL NOTES:

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

POSTED SPEED AND/OR DESIGN SPEED (MPH)	MAXIMUM CHANNELIZING DEVICE SPACING (FT)		LONGITUDINAL BUFFER SPACE (FT)	TAPER RATES
	LANE LINE & WORK ZONE	WORK ZONE		
40	42	80	305	27:1
45	45	90	350	45:1
50	50	100	425	50:1
55	55	110	495	55:1
60	60	120	570	60:1
65	65	130	645	65:1
70	70	140	730	70:1

† NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:
L = WS FOR SPEEDS OF 45 MPH OR GREATER
L = WS FOR SPEEDS OF 30 MPH OR GREATER
WHERE: L = MINIMUM LENGTH OF TAPER IN FEET
S = DESIGN SPEED OR 85TH PERCENTILE SPEED IN MILES PER HOUR

†† NOTE: BUFFER SPACE MAY BE ADJUSTED AS NEEDED ACCORDING TO LOCAL RIGHT OF WAY DISTANCE REQUIREMENTS, AS DIRECTED BY THE ENGINEER.

2. FLASHING ARROW PANEL SHOULD BE AS LEVEL AS POSSIBLE AND LOCATED AT THE BEGINNING OF THE TAPER OR IF THE SHOULDER IS TOO NARROW BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.

- CHANNELIZING DEVICES FOR:
 - APPROACH TAPER- RETROREFLECTIVE PLASTIC DRUMS
 - ALONG LANE LINE AND WORK ZONE- TRAFFIC CONES (28" HEIGHT MINIMUM)
 - EXIT TAPER- TRAFFIC CONES (28" HEIGHT MINIMUM)
- WHEN WORK ZONE IS NO LONGER NEEDED- ALL SIGNS SHALL BE COVERED OR REVOKED AND THE DRUMS SHALL BE MOVED TO THE SHOULDER EDGE AT THE END OF THE WORK DAY.
- FOR MOVING OPERATIONS (PAVING) THE CONTRACTOR SHALL HAVE TWO (2) SETS OF ADVANCE WARNING AND REGULATORY SIGNS, PLASTIC DRUMS, AND ARROW BOARDS. WHEN THE CONTRACTOR IS FINISHING THE WORK, THE ADVANCE WARNING AND ARROW BOARDS SHALL BE IN PLACE ON THE SECOND ZONE BEFORE REMOVING ANY SIGNS, PLASTIC DRUMS OR ARROW BOARD ON THE FIRST ZONE.
- DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE A MINIMUM OF 48" X 48".
- ALL EXISTING SPEED LIMIT SIGNS WHICH ARE INDICATED BY AN ORANGE LIGHT WITH THE SPEED ZONE REDUCTION SHALL BE COVERED AS DIRECTED BY THE ENGINEER WHILE THE REDUCED SPEED LIMIT IS IN EFFECT. TAPE SHALL NOT BE USED ON THE FACE OF SIGN.
- ADDITIONAL REVOKED REGULATORY SPEED LIMIT SIGNS ARE REQUIRED AT EACH ENTRANCE RAMP WITHIN THE SPEED ZONE. TWO (2) WILL BE REQUIRED FOR EACH RAMP AND LOCATION WILL BE DETERMINED BY THE ENGINEER.
- THIS TRAFFIC CONTROL PLAN WITH SPEED ZONE MAY NOT BE USED ON ANY FACILITY REQUESTING A SPEED LIMIT REDUCTION.
- THIS TRAFFIC CONTROL PLAN WITH SPEED ZONE MAY NOT BE USED ON ANY FACILITY REQUESTING A SPEED LIMIT REDUCTION.
- 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.
- A FLUORESCENT ORANGE PLATE IS REQUIRED WITH ALL REGULATORY SPEED LIMIT SIGNS AND "REDUCED SPEED AHEAD" SIGNS REQUIRED FOR LANE CLOSURE.
- ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

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PROJECT NO.

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WORKING NUMBER
ICP-5

SHEET NUMBER
03500

ISSUE DATE: MAY 20, 2017

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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 PLACED BEHIND 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 STRUCTURES. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
- ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

NOTES FOR TWO-LANE OPERATION:

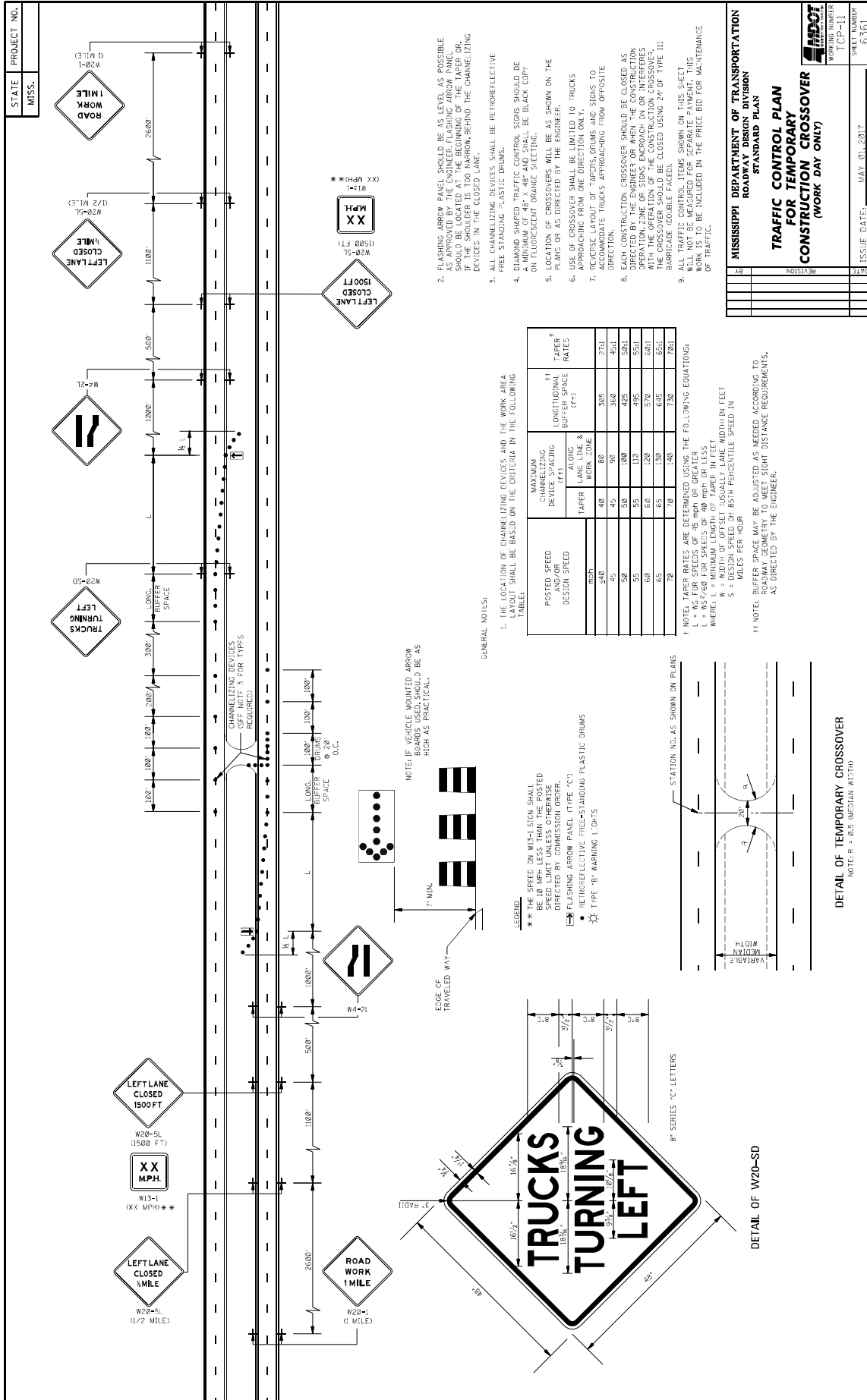
- WHERE PRACTICAL AND WHEN NEEDED, THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS. IF THIS CAN NOT BE DONE FREQUENTLY AS AN ALTERNATIVE, A "DO NOT PASS" SIGN MAY BE PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.
- THE DISTANCE BETWEEN THE WORK AND SHADOW VEHICLES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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

TRAFFIC CONTROL PLAN
MOBILE OPERATIONS
MULTILANE ROADS
TWO-LANE ROADS

REV.	REVISION	DATE

ISSUE DATE: MAY 01, 2017
SHEET NUMBER: TCP-9
GSSJ



1. THE LOCATION OF CHANNELIZING DEVICES AND THE WORK AREA TAPER SHALL BE BASED ON THE CRITERIA IN THE FOLLOWING TABLE:
2. FLASHING ARROW PANELS SHOULD BE AS LEVEL AS POSSIBLE AS APPROVED BY THE ENGINEER. FLASHING ARROW PANELS SHOULD BE LOCATED AT THE BEGINNING OF THE TAPER OR, IF THE SHOULDER IS TOO NARROW, BEHIND THE CHANNELIZING DEVICES IN THE CLOSED LANE.
3. ALL CHANNELIZING DEVICES SHALL BE RETROREFLECTIVE FREE STANDING PLASTIC DRUMS.
4. DIAMOND SHAPED TRAFFIC CONTROL SIGNS SHOULD BE BLACK COPY WITH FLUORESCENT ORANGE SUCTING.
5. LOCATION OF CROSSOVERS WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
6. USE OF CROSSOVER SHALL BE LIMITED TO TRUCKS APPROACHING FROM ONE DIRECTION ONLY.
7. REVERSE LAYOUT OF TAPERS, DRUMS AND SIGNS TO ACCOMMODATE TRUCKS APPROACHING FROM OPPOSITE DIRECTION.
8. EACH CONSTRUCTION CROSSOVER SHOULD BE CLOSED AS EARLY AS POSSIBLE AND KEPT CLOSED THROUGH THE OPERATION ZONE OF SIGNS ENOUGH ON OR INTERFERES WITH THE OPERATION OF THE CONSTRUCTION CROSSOVER. THE CROSSOVER SHOULD BE CLOSED USING 24" OF TYPE III BITUMINOUS CONCRETE.
9. ALL TRAFFIC CONTROL ITEMS SHOWN ON THIS SHEET WILL NOT BE MEASURED FOR SEPARATE PAYMENT. THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.

GENERAL NOTES:

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

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

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

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

1. NOTE: TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATIONS:

$L = WS^2/400$ FOR SPEEDS OF 40 MPH OR LESS

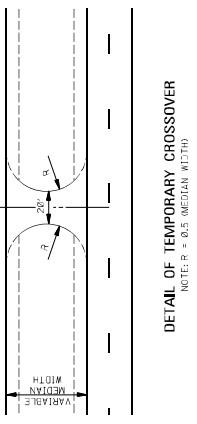
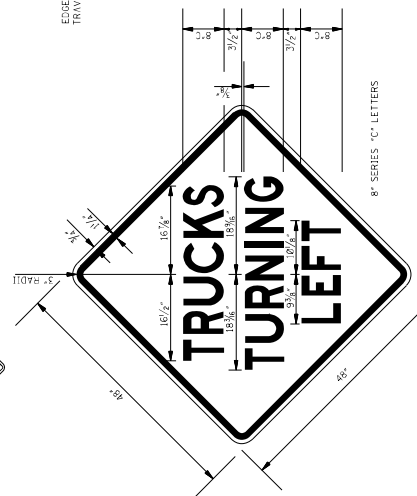
$L = WS^2/400$ FOR SPEEDS OF 40 MPH OR LESS

WHERE: L = MINIMUM LENGTH OF TAPER IN FEET

W = WIDTH OF OFFSET USUALLY LANE WIDTH IN FEET

S = 85TH PERCENTILE SPEED IN MILES PER HOUR

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



8" SERIES "C" LETTERS

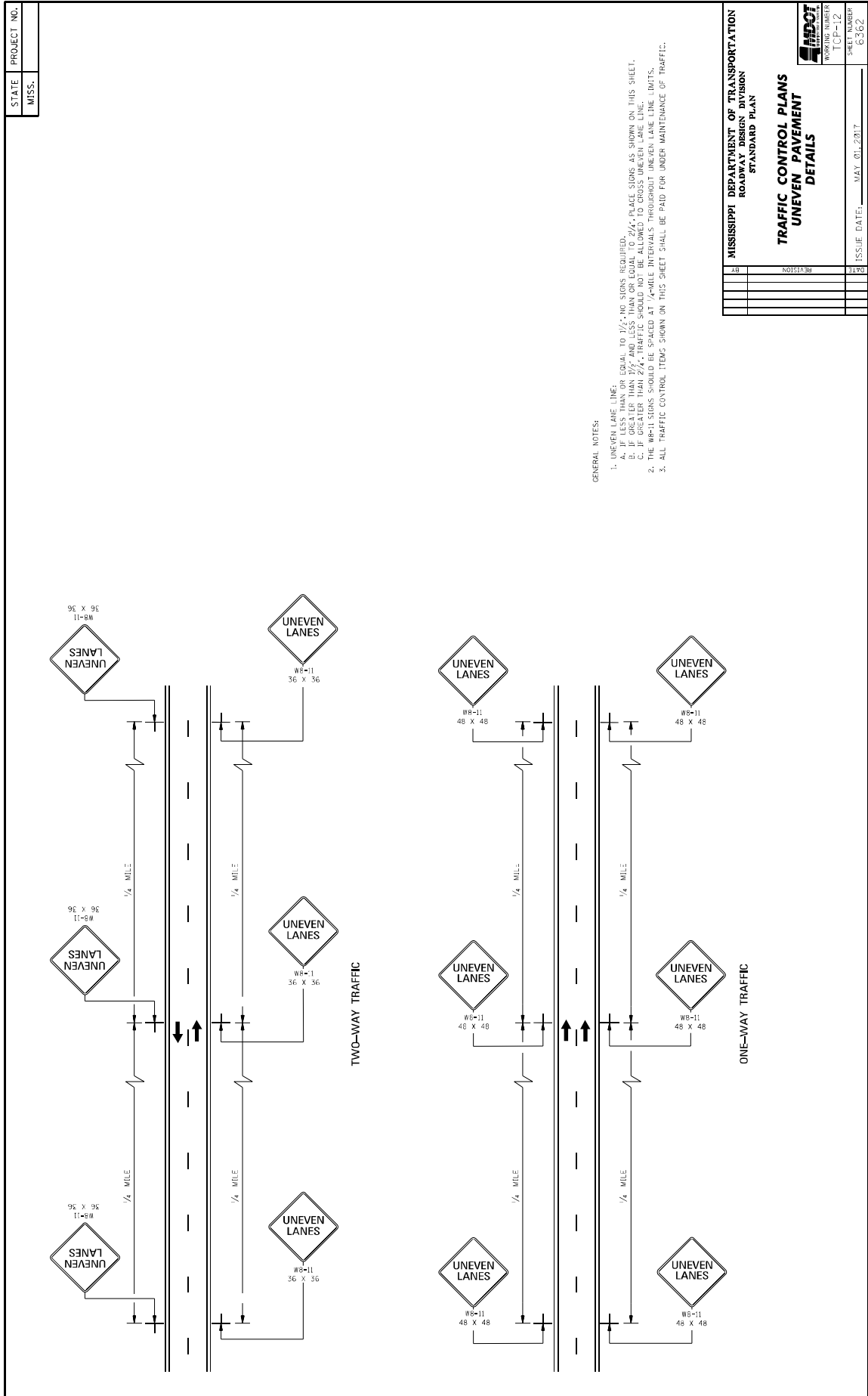
DETAIL OF TEMPORARY CROSSOVER

NOTE: R = 60.5 MEDIAN #13110

STATE PROJECT NO. MISS.

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

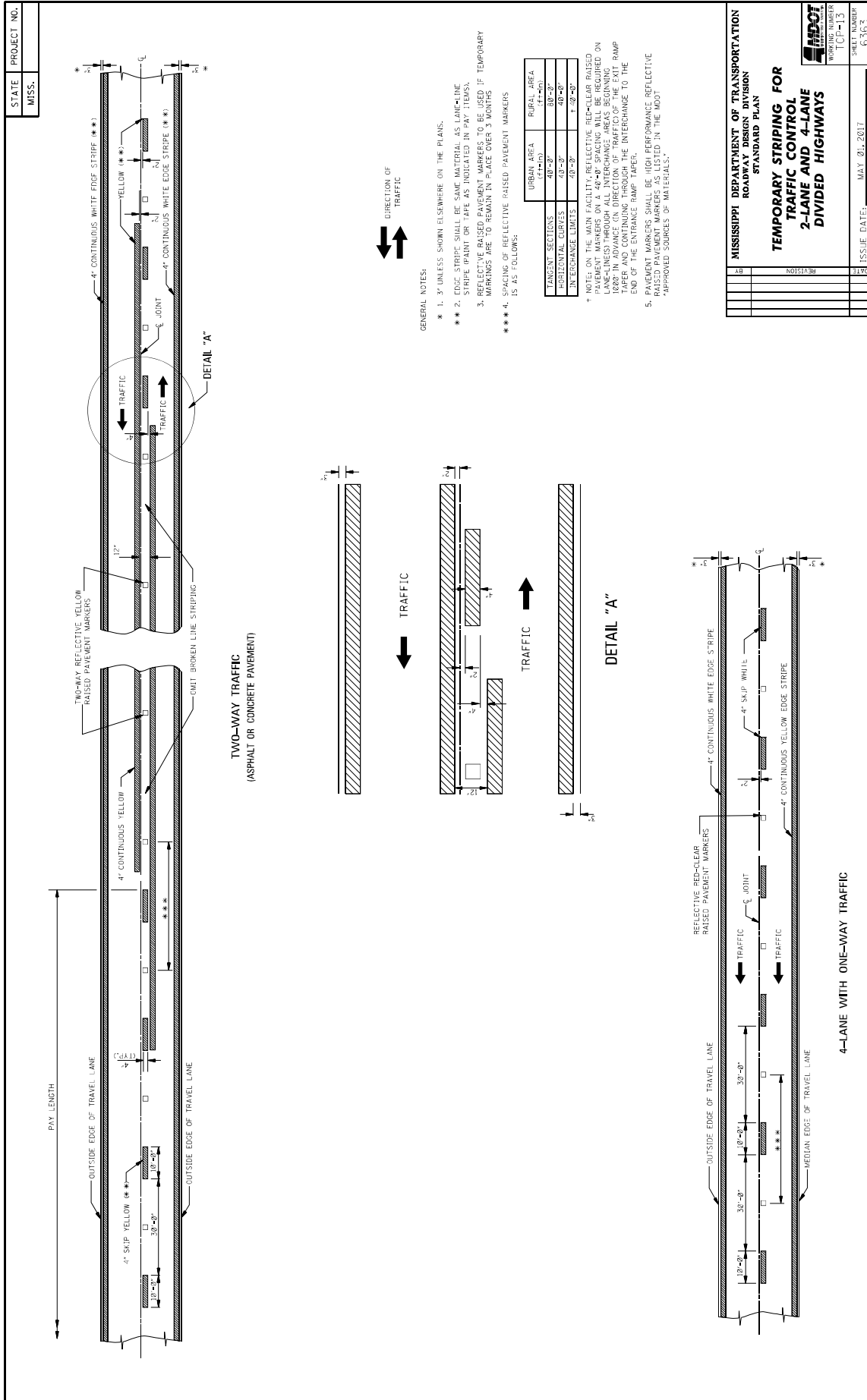
WORKING NUMBER: TCR-11
SHEET NUMBER: 6361
ISSUE DATE: MAY 01, 2017



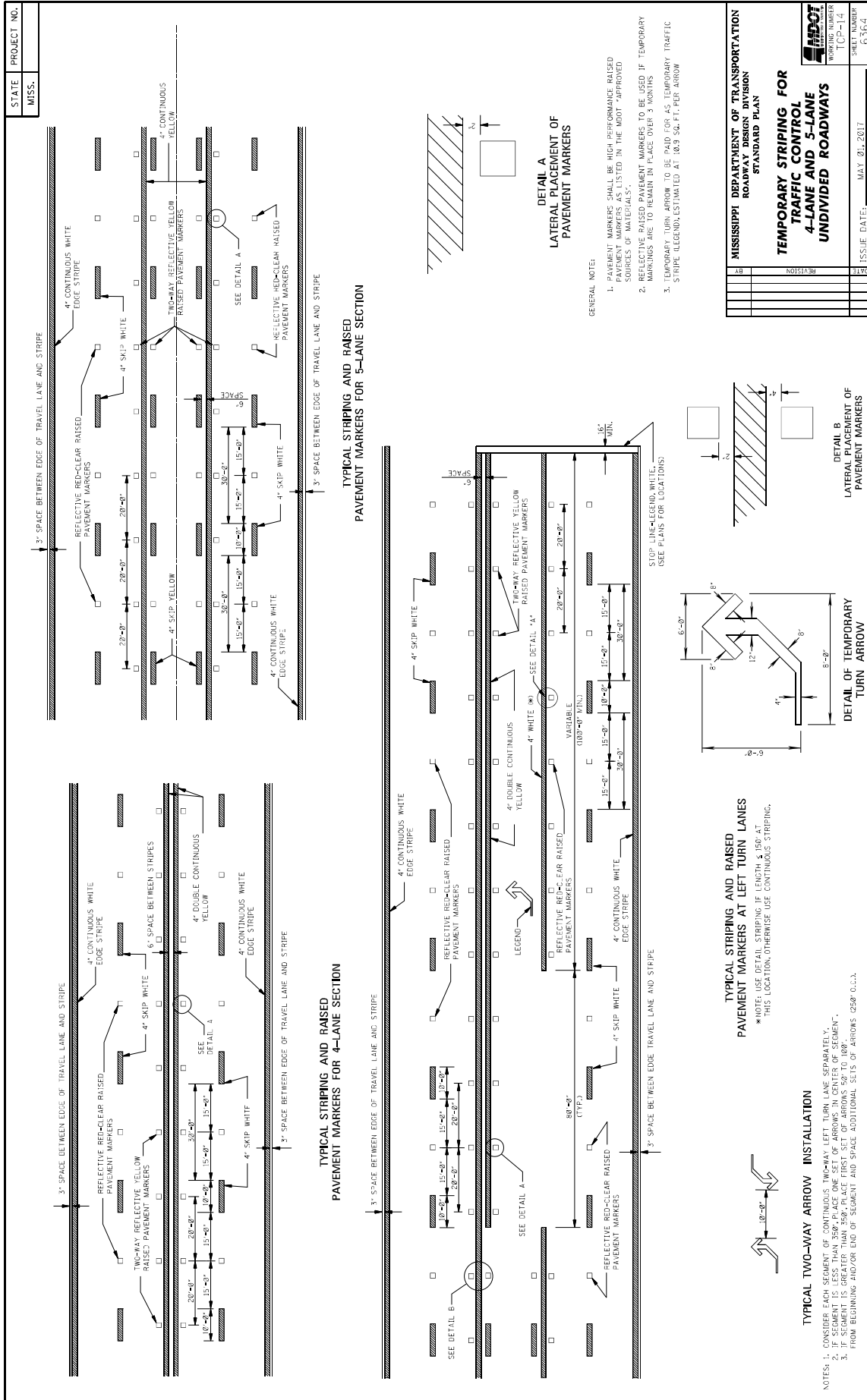
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION
STANDARD PLAN

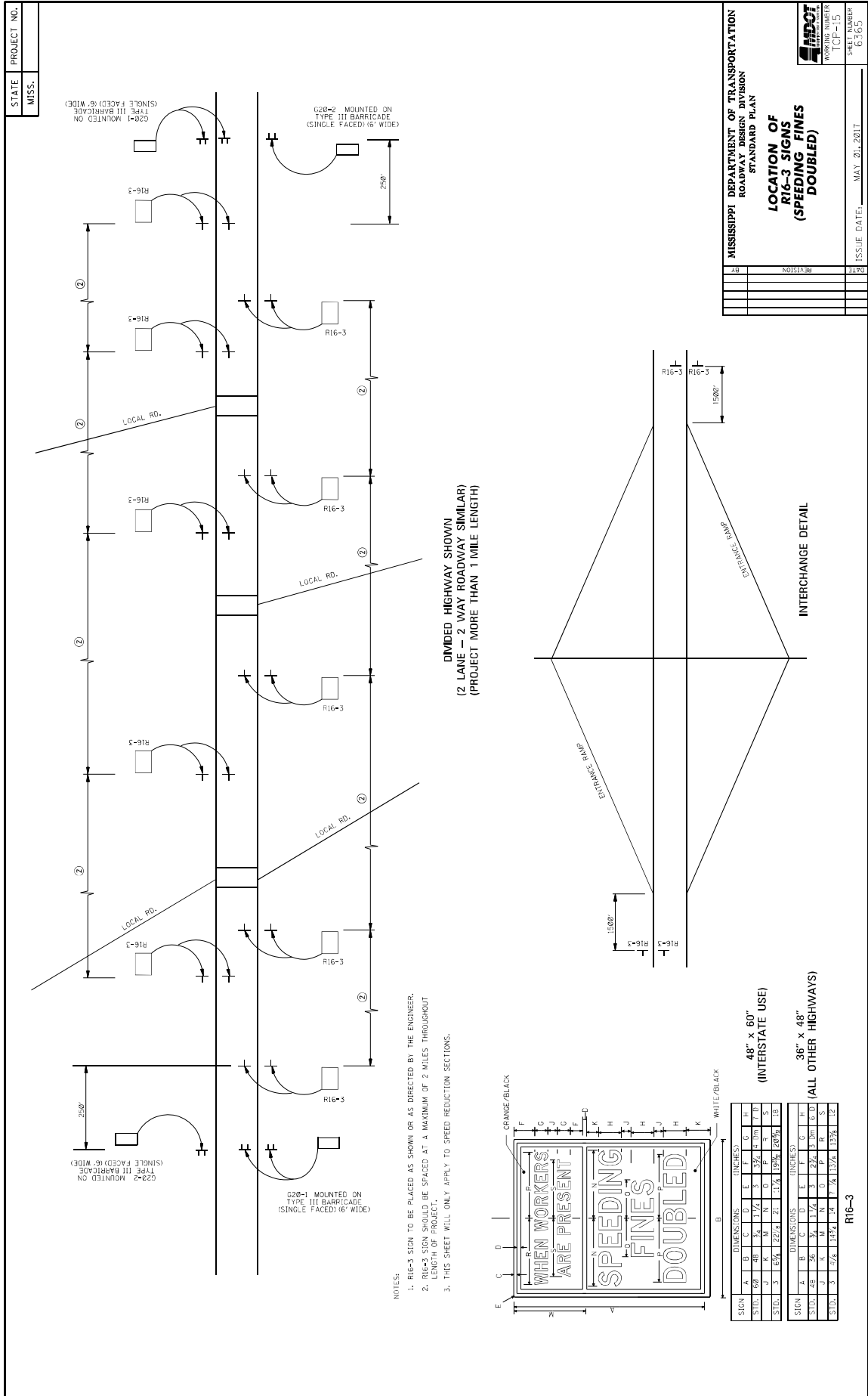
TRAFFIC CONTROL PLANS
UNEVEN PAVEMENT
DETAILS

WORKING NUMBER	ICP-12
SHEET NUMBER	6262
ISSUE DATE:	MAY 01, 2017



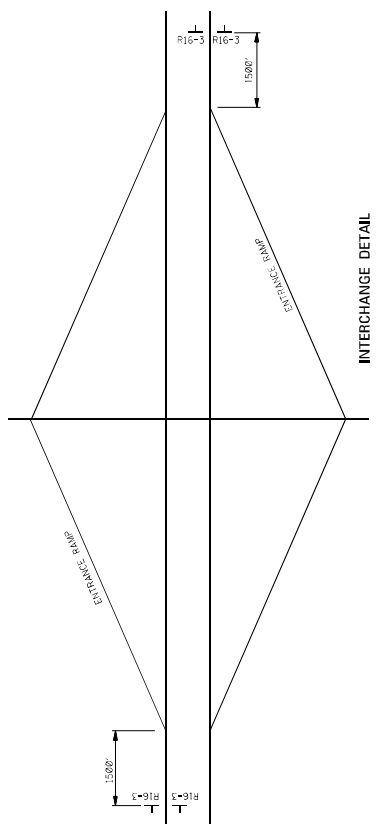
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
TEMPORARY STRIPING FOR	
2-LANE AND 4-LANE	
DIVIDED HIGHWAYS	
WORKING NUMBER TCP-13	SHEET NUMBER 6363
REVISION	ISSUE DATE: MAY 01, 2017



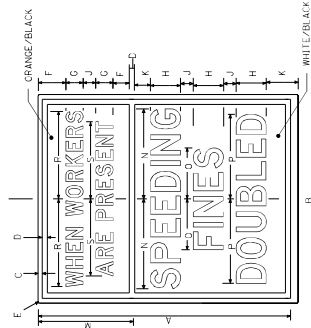


- NOTES:
1. R16-3 SIGN TO BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 2. R16-3 SIGN SHOULD BE SPACED AT A MAXIMUM OF 2 MILES THROUGHOUT LENGTH OF PROJECT.
 3. THIS SHEET WILL ONLY APPLY TO SPEED REDUCTION SECTIONS.

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



INTERCHANGE DETAIL



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

SIGN		DIMENSIONS (INCHES)									
A	B	C	D	E	F	G	H	I	J	K	L
STYL	36	48	36	1 1/4	5	5 1/2	4	1 1/2	1 1/2	1 1/2	1 1/2
STD.	3	1 5/8	2 2/8	1 1/2	1 1/4	1 3/8	1 2/8	1 1/2	1 1/2	1 1/2	1 1/2

48" x 60"
 (INTERSTATE USE)

36" x 48"
 (ALL OTHER HIGHWAYS)

R16-3

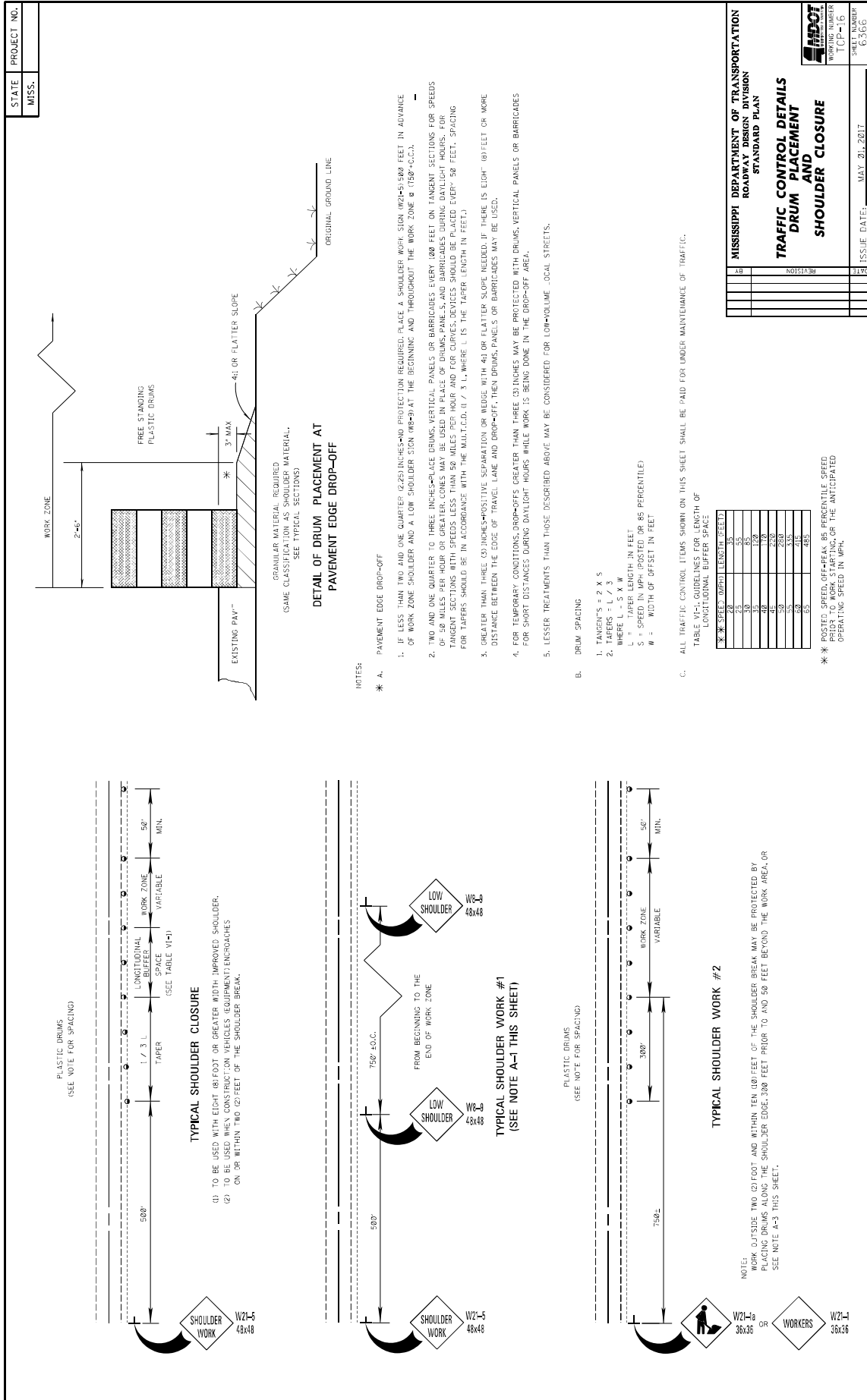
STATE	PROJECT NO.
MISS.	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

LOCATION OF R16-3 SIGNS (SPEEDING FINES DOUBLED)

REVISION	DATE

ISSUE DATE: MAY 21, 2017
 SHEET NUMBER: ICF-15
 TOTAL SHEETS: 63/63



MISSISSIPPI DEPARTMENT OF TRANSPORTATION
 ROADWAY DESIGN DIVISION
 STANDARD PLAN

**TRAFFIC CONTROL DETAILS
 DRUM PLACEMENT
 SHOULDER CLOSURE**

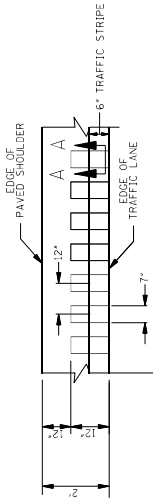
ISSUE DATE: MAY 20, 2017

WORKING NUMBER: TCF-16
 SHEET NUMBER: 63-06

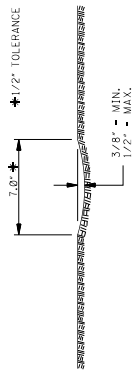
NO.	REVISION

GENERAL NOTES

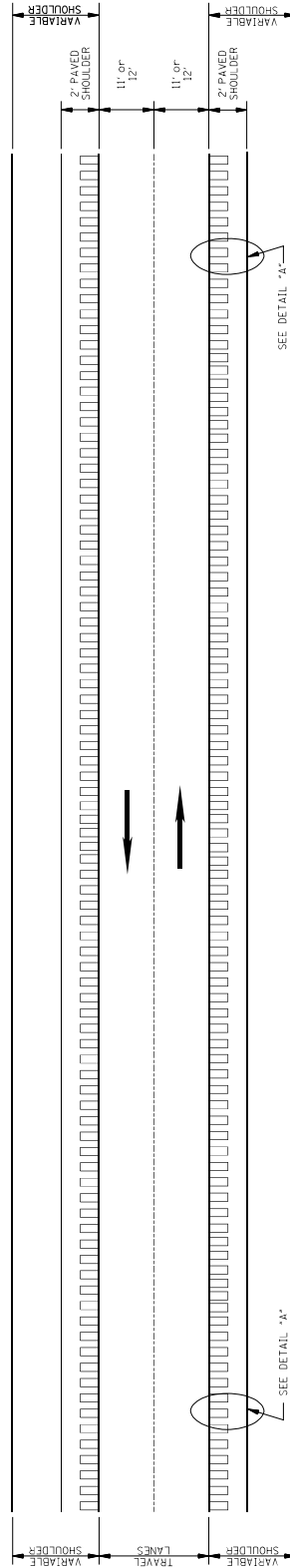
1. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL PAVED SHOULDERS OF ALL PAVED SHOULDERS ON THIS PROJECT.
2. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO ALL EXISTING AND NEW ROADS, INCLUDING OTHER INTERSECTIONS IN NORMAL SHOULDER WIDTH AS DIRECTED BY THE ENGINEER.
3. COST TO BE PAID FOR USING APPROPRIATE PAY ITEMS.
4. GROUND-IN RUMBLE STRIPES SHALL BE APPLIED TO:
 - A. MAINLINE
 - B. INTERSECTING ROADWAY IF OVERLAP OR RECONSTRUCTED BEYOND NORMAL MAINLINE R.O.W.
 - C. ANY ROADWAY WITH EXISTING RUMBLE STRIPES PRIOR TO CONSTRUCTION.
5. DO NOT USE WHERE TRAVEL LANE IS LESS THAN 11' WIDE.



SECTION "A-A"



SECTION "A-A"

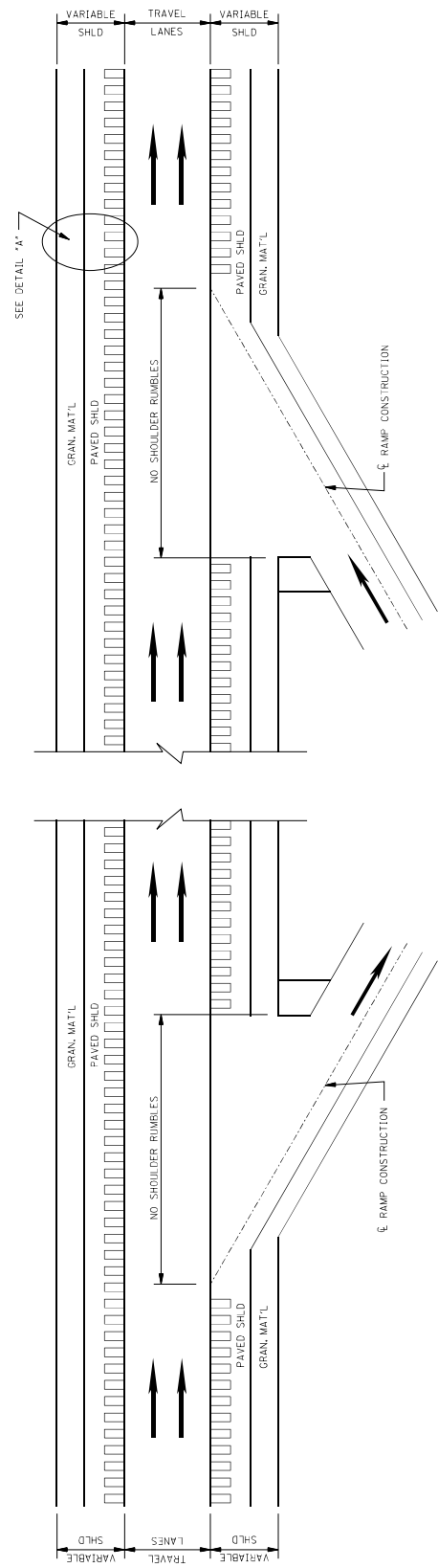
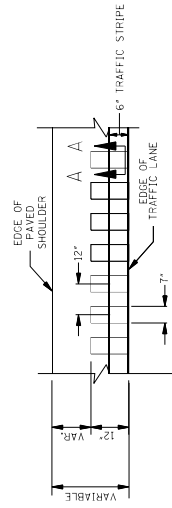
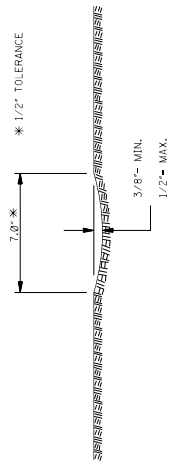


PLAN
NOT TO SCALE

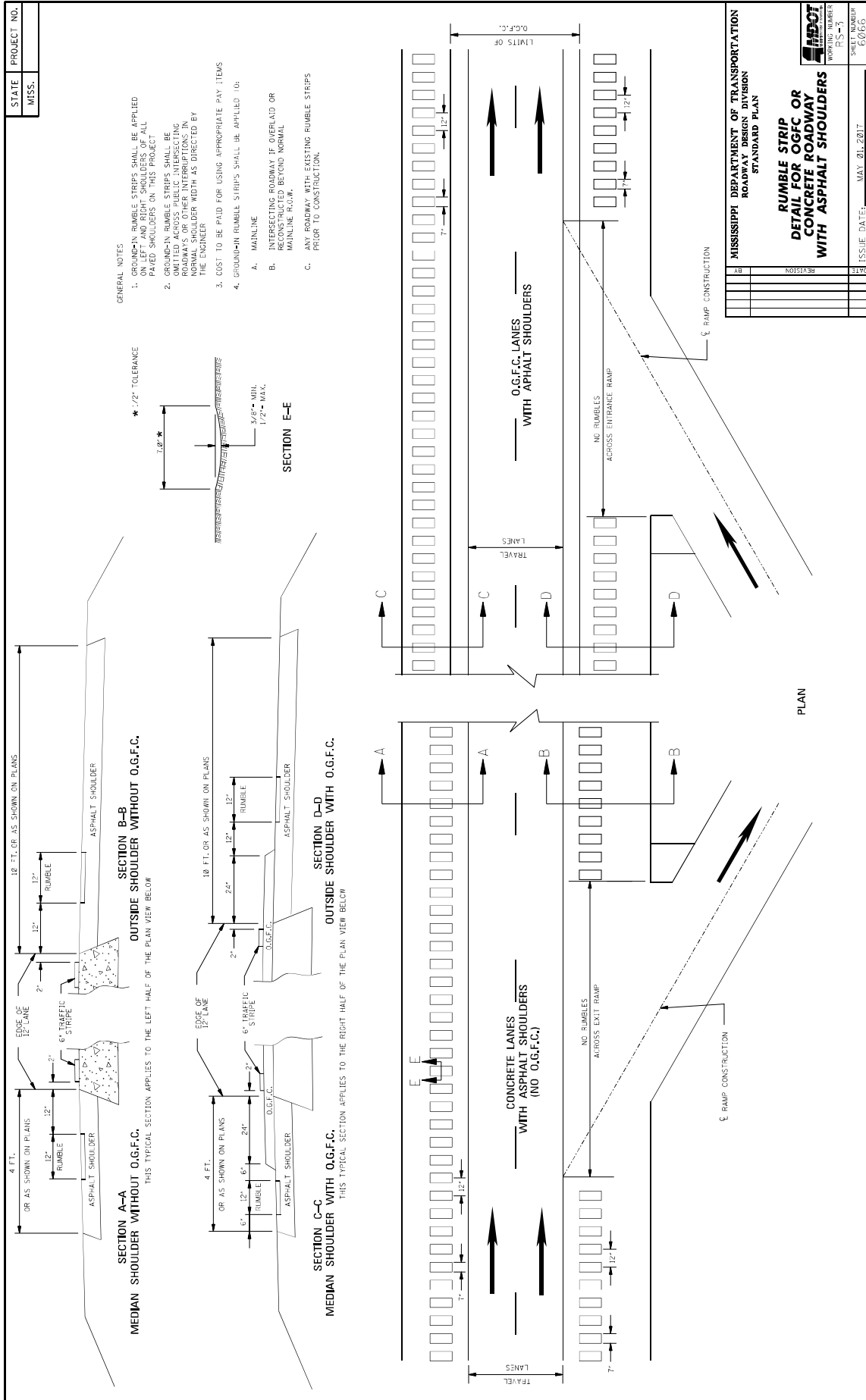
MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
RUMBLE STRIPES 2-LANE HIGHWAYS (ASPHALT LANES, 2-FT ASPHALT SHOULDERS)	
DATE	ISSUE DATE: AUGUST 01, 2017
BY	
DESIGNED STRIPE LOCATION	
REVISION	
FIG. NUMBER	RS-1
FIG. NUMBER	6064

GENERAL NOTES

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



MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
ROADWAY DESIGN DIVISION	
STANDARD PLAN	
RUMBLE STRIPES	
4-LANE HIGHWAYS	
(ASPHALT LANES,	
2-FT OR WIDER,	
ASPHALT SHOULDERS)	
DATE	ISSUE DATE: AUGUST 01, 2017
BY	
DESIGNED	
CHECKED	
APPROVED	
REVISION	
LOCATION	
NO.	
DATE	
NUMBER	
NUMBER	



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3318

CODE: (SP)

DATE: 04/29/2021

SUBJECT: DBE Pre-Bid Meeting

Due to the COVID-19 pandemic and the Department not allowing visitors in the Administration Building at this time, the DBE Pre-Bid Meeting referenced on Pages 4 & 5 of Notice to Bidders No. 2654 will be held by **video conference only**. The meeting will be held at 2:00 P.M. on the day preceding the date of the bid opening using Zoom video conferencing software. Anyone interested in participating can download Zoom and connect to the meeting at the below link.

<https://zoom.us/j/5548736403?pwd=SDh5S2hQSE5pNG5FOEkzR3NsUnBYQT09>

Password (if prompted): 272147

For those unable to participate via Zoom, the below teleconference number may be used instead.

1-888-227-7517

Conference Code: 404496

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3414

CODE: (SP)

DATE: 05/17/2021

SUBJECT: Contract Time

PROJECT: SP-0003-01(205) / 108675301 & 302 -- Harrison and Jackson Counties

The completion of work to be performed by the Contractor for this project will not be a specified date but shall be when all allowable working days are assessed, or any extension thereto as provided in Subsection 108.06. It is anticipated that the Notice of Award will be issued no later than **July 13, 2021** and the date for Notice to Proceed / Beginning of Contract Time will be **August 12, 2021**.

Should the Contractor request a Notice to Proceed earlier than **August 12, 2021** 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.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3415

CODE: (SP)

DATE: 05/13/2021

SUBJECT: Scope of Work

PROJECT: SP-0003-01(205) / 108675301 & 302 -- Harrison and Jackson Counties

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

Work on the project shall consist of the following.

**REPLACE EXISTING LIGHTING LUMINAIRES AND
REPAIR LIGHTING SYSTEM ALONG US 90 BILOXI BAY BRIDGE**

General Notes

1. It shall be the responsibility of the Contractor to protect the roadway and all existing structures, such as bridges, culverts, signs, and curb, from damage occurring as a result of the Contractor's operations. Damages to existing structures caused by the Contractor's operations shall be repaired or replaced at no cost to the Department.
2. The Contractor shall erect and maintain construction signing, provide all signs and traffic handling devices, and provide two (2) portable R16-3 signs per work zone or lane closure in addition to signs required by standard drawings in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), latest edition. Fluorescent orange sheeting shall be used on all construction and traffic control signs except for those designated to be black legend and border on white background. All plastic drums shall have a ballasting collar made from recycled truck tires or other suitable material. The cost for this work is to be included in the price bid for pay item 618-A: Maintenance of Traffic.
3. Incidental work such as project clean-up and other incidental work necessary to complete the project will not be measured for separate payment, but will be included in other bid items. This work shall be performed during the operating hours for this project.
4. All work requiring a lane closure shall be restricted to Sunday through Thursday nights between the hours of 7:00 PM and 5:00 AM. Changes or variances from these restrictions shall be submitted to the Project Engineer for review and written approval. A lane rental fee of \$1,500.00 per full or partial 5-minute period shall be assessed for closures or obstructions that extend beyond the times mentioned above. No exposed signs shall be viewable to the traveling public prior to or after the above-mentioned times. No part of a closure, including drums or cones, shall be in the roadway prior to or after the above-mentioned times. Work requiring a shoulder or lane closure shall begin within one (1) hour of the completion of the closure setup. Lane closures will be allowed only at times when work requiring a lane

closure is underway. Failure to begin working within this 1-hour period and/or failure to remove the lane closure upon completion of work will result in the Contractor being assessed a lane rental fee of \$1,500.00 for each full or partial 5-minute period beyond the allowable times.

5. Whenever the Contractor's operations are being conducted at night, the Contractor shall provide artificial lighting as may be necessary to provide for safe and proper construction and inspection of the work in accordance with Section 680 of the Standard Specifications. Night work shall not begin until a lighting plan submitted by the Contractor meeting the requirements of the specification has been approved. Portable construction lighting will not be measured for separate payment, but will be included in other bid items.

Replace Existing Under-Bridge Neckline Lighting Luminaires

1. The existing neckline lighting luminaires shall be removed. The existing neckline lighting luminaires will become the property of the Contractor.
2. The existing neckline lighting luminaires shall be replaced. The luminaires shall be Horner Hazardous Low Bay (HLB) Series ETG-HLB C1D2-WL850-65W-B1. The luminaires shall be mounted using Horner Lighting Group Special Mounting Plate per the attached drawing. Luminaires shall include Dome and Wire Guard ETG-HLB-DOME. Payment will be made under pay item 907-683-I1: Renovation of Underpass Lighting Assembly, Type A, per each (734 each), and shall include all labor, equipment, and materials necessary for a fully-functioning light fixture upon completion of the work.
3. Locations and details for the existing neckline lighting luminaires to be replaced can be found on Sheets 85 thru 96 of the attached as-built plans.

Replace Existing Pier Accent Flood Lighting Luminaires

1. The existing pier accent flood lighting luminaires shall be removed. The existing pier accent flood lighting luminaires will become the property of the Contractor.
2. The existing pier accent flood lighting luminaires shall be replaced. The luminaires shall be Horner Hazardous Low Bay (HLB) Series ETG-HLB C1D2-WL850-65W-B1. Payment will be made under pay item 907-683-I1: Renovation of Underpass Lighting Assembly, Type A, per each (132 each), and shall include all labor, equipment, and materials necessary for a fully-functioning light fixture upon completion of the work.
3. Locations and details for the existing pier accent flood lighting luminaires to be replaced can be found on Sheet 98 of the attached as-built plans.

Replace Existing Column Accent Lighting Luminaires

1. The existing column accent lighting luminaires shall be removed. The existing column accent lighting luminaires will become the property of the Contractor.
2. The existing column accent lighting luminaires shall be replaced. The luminaires shall be Horner Hazardous Low Bay (HLB) Series ETG-HLB C1D2-WL850-65W-B1. The luminaires shall be mounted using Horner Lighting Group Special Mounting Plate per the

attached drawing. Payment will be made under pay item 907-683-I1: Renovation of Underpass Lighting Assembly, Type A, per each (72 each), and shall include all labor, equipment, and materials necessary for a fully-functioning light fixture upon completion of the work.

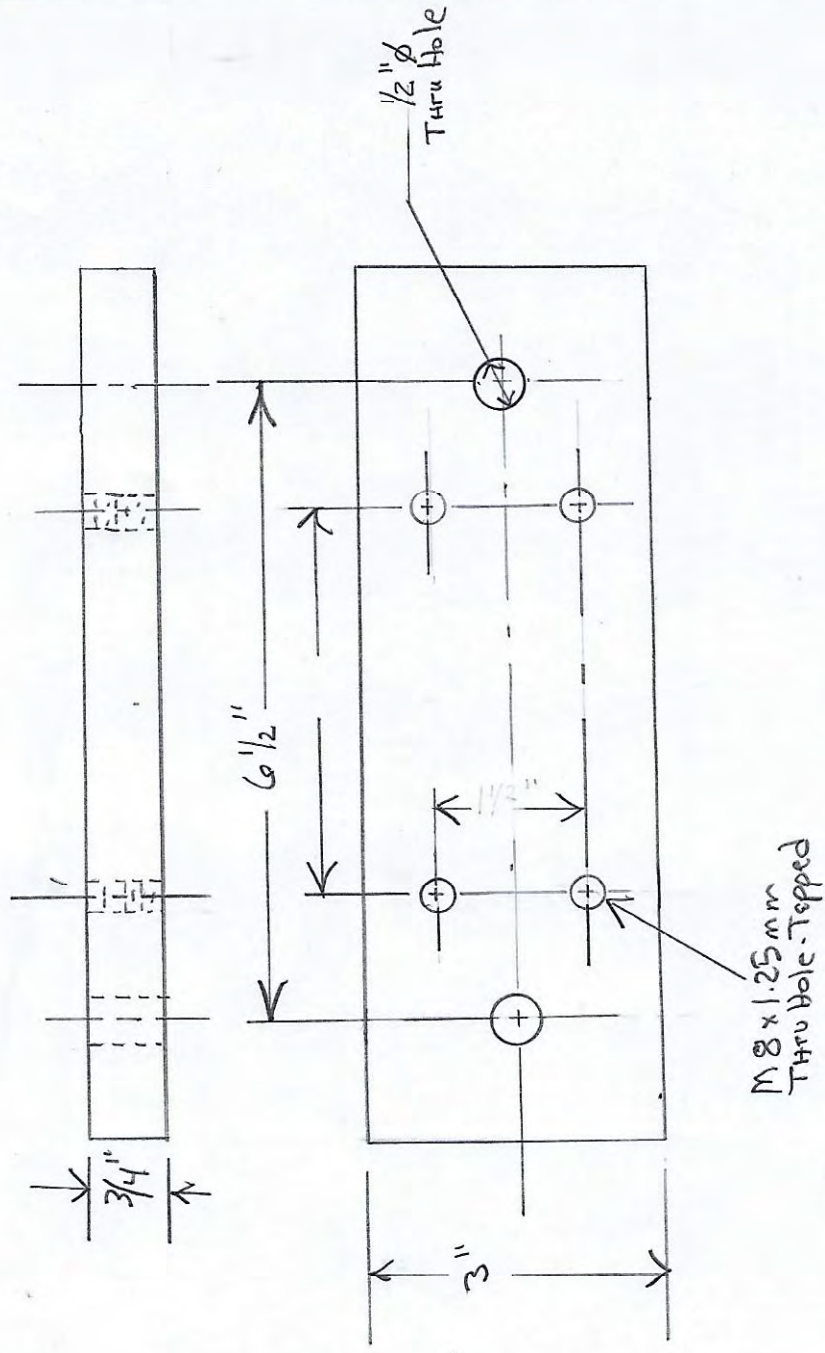
3. Locations and details for the existing column accent lighting luminaires to be replaced can be found on Sheet 97 of the attached as-built plans.

Replace Existing Low-Mast Lighting Luminaires

1. The existing low-mast roadway lighting luminaires shall be removed. The existing low-mast roadway lighting luminaires will become the property of the Contractor. The existing low-mast poles and arms are to remain and be used with the replacement luminaires.
2. The existing low-mast lighting luminaires shall be replaced. The luminaires shall be either KIM BE21-LED-KIT 5 120L 4K 277 or Domus DMS50-180W80LED4K-T. If the Domus luminaire is selected, the Contractor shall, prior to bidding, verify that the manufacturer has successfully modified the luminaire adapter to be compatible with the existing KIM HA14L arms. Payment will be made under pay item 907-683-H1: Renovation of Low Mast Lighting Assembly, Type A, per each (88 each), and shall include all labor, equipment, and materials necessary for a fully-functioning light fixture upon completion of the work.
3. The Contractor shall include up to four (4) KIM HA14L replacement arms when bidding in order to account for any damaged or missing arms. The cost of which shall be considered absorbed in other items bid.
4. Locations and details for the existing low-mast lighting luminaires to be replaced can be found on Sheets 79 thru 84A of the attached as-build plans.

Replace Existing Lighting Control Panels

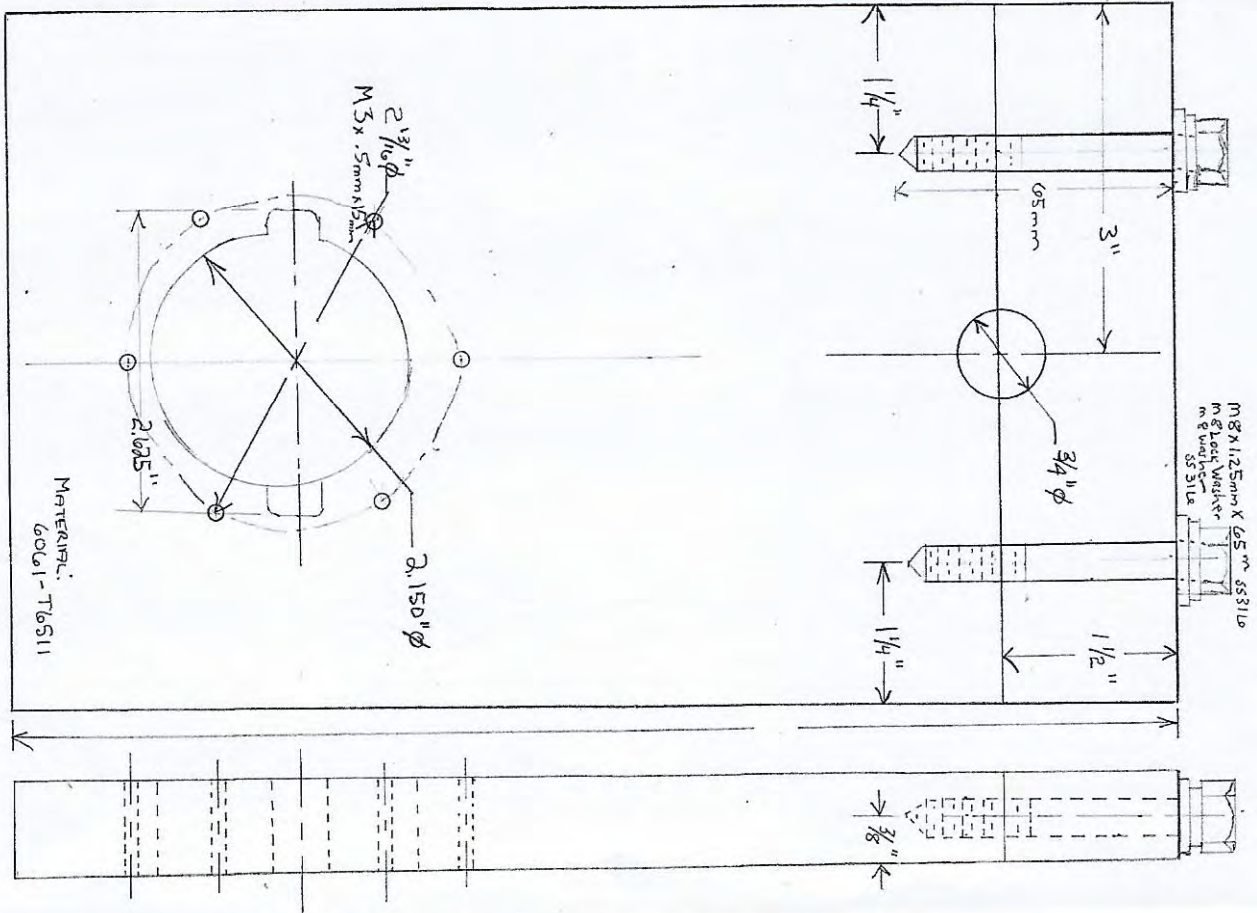
1. The existing lighting control panels shall be removed. Payment will be made under pay item 202-B: Removal of Lighting Controller, per each (4 each). The existing lighting controllers will become the property of the Contractor. Existing foundations may be reused if salvageable.
2. The existing lighting control panels shall be replaced in accordance with the details provided on Sheets 100 thru 100.04 of the attached as-built plans, with the exception of photoelectric controls. GPS time clocks shall be installed in lieu of photoelectric controls. Payment will be made under pay item 682-F: Secondary Power Controller, per each (4 each), and shall include all labor, equipment, and materials necessary for a fully-functioning lighting system.



Material: 6061-T6511

**Horner Lighting Group
 Special Mounting Plate for
 ETG-HLB-C1D2-WL850-65W-B1**

Designer: P. Jamerson
Date: 3/25/2021
Scale: Not to Scale
Drawing No.: ETG-BKT-HLB-B 48
Summary: Mississippi DOT



Horner Lighting Group Special Mounting Plate for ETG-HLB-C1D2-WL850-65W-B

Designer
P Jamerson

Date
3/25/2021

Scale
Not to Scale

Drawing No.
ETG-BKT-HLB-
B99

Summary
Mississippi DOT

Hazardous Low Bay (HLB) Series –

Horner ETG-HLB C1D2-WL850-65W-B1

Withstand corrosion, extreme vibration, dust, dirt, moisture, wind, snow, water, high ambient temperatures. Class I Division 2 Low Bay (Certification UL844 Class I Division 2, Group A, B, C, D; Class II Division 1, Group E, F, G; Class III Division 1 DLC Premium)



Description

Engineered, tested, and certified to withstand the most extreme application environments, the Horner Hazardous Location Low Bay Series is efficient, powerful, and durable. Built to withstand corrosion, extreme vibration, dust, dirt, moisture, wind, snow, water, high

ambient temperatures, the Hazardous Location Low Bay (HLB) Series is even explosion-proof. The HLB is certified for locations with flammable vapors, combustible dusts, and gases (as outlined by NEC standards). The HLB's aluminum alloy housing is copper-free and corrosion-resistant, saving you maintenance time and money.

BENEFITS:

- Explosion-proof
- Longer lifetime
- Universal AC input/full range, 120-277VAC
- Optional 277-480VAC
- 5-year warranty
- 40°C to 60°C ambient temperature
- Save on energy and maintenance costs
- Low-cost, high efficacy – lower power yielding higher lumens
- Atmospheric pressure: 12.5 – 15.4 psi
- Rated IP66
- IK Rating IK08
- Corrosion-proof grade WF2
- Long life of 70,000+ hrs

FEATURES:

- 65W options
- Instant strike / shock and vibration-resistant LEDs
- Adjustable mounting bracket easily mounts to walls or ceilings – 0-60°
- Durable aluminum alloy die cast housing
- 11 lbs – hang with one person as opposed to a team
- 110° beam angle standard
- Optional 120° beam angle
- Extensive certifications: UL844; Class I Division 2, Group A, B, C, D; Class II Division 1, Group E, F, G; Class III Division 1; UL1598A Marine Outside Type (Salt Water); DLC 4.0 Premium

MODEL/SKU	WEIGHT	DIMENSIONS	CRI	CCT	LUMENS	WATTS	Lm/W	L70
Class I Div. 2 (HLB), Groups A, B, C, D; Class II Div. 1, Groups E, F, G; Class II Div. 2, Groups F, G; Class III Div. 1								
ETG-HLB-C1D2-WL850-65W-B1 NJZ-FEL-D-65-U*	11 lbs.	10.3" diam x 6.1" h	70	5000K	9,750	65	150	150,000 hrs
ETG-HLB-C1D2-WL850-65W-B NJZ-FEL-D-65-T*								



Step 5. Carefully place dome lens on top of fixture, making sure lens is centered and laying flat



Step 6. Replace outer plate over dome lens, matching up holes with holes on fixture underneath.



Step 7. If also using the dome guard, replace 4 pcs M4*16 screws, leaving one hole empty between each one. **If not using the dome guard, replace all 8 pcs M4*16 screws**



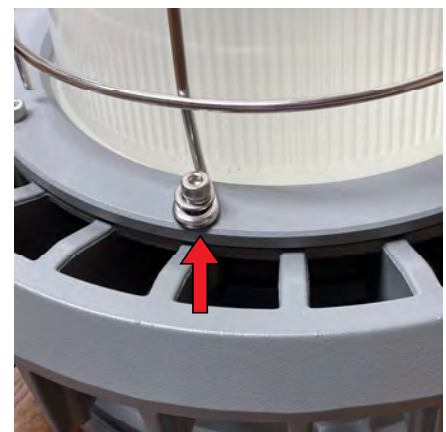
Dome guard



Step 8. If using dome guard, carefully place over dome lens, lining up ends with 'loops' over the 4 empty screw holes.



Step 9. Using the remaining 4 pcs M4*16 screws, 4 pcs small locking washers and 4 pcs larger washers (as shown), secure dome guard by tightening screws into 4 remaining holes.



ETG-HLB

HazLoc Low Bay Supplemental Installation Guide

INSTALLING OPTIONAL DOME AND WIRE GUARD



Step 1. From standard fixture with glass lens, remove 8 pcs M4*16 screws holding outer plate and glass lens on

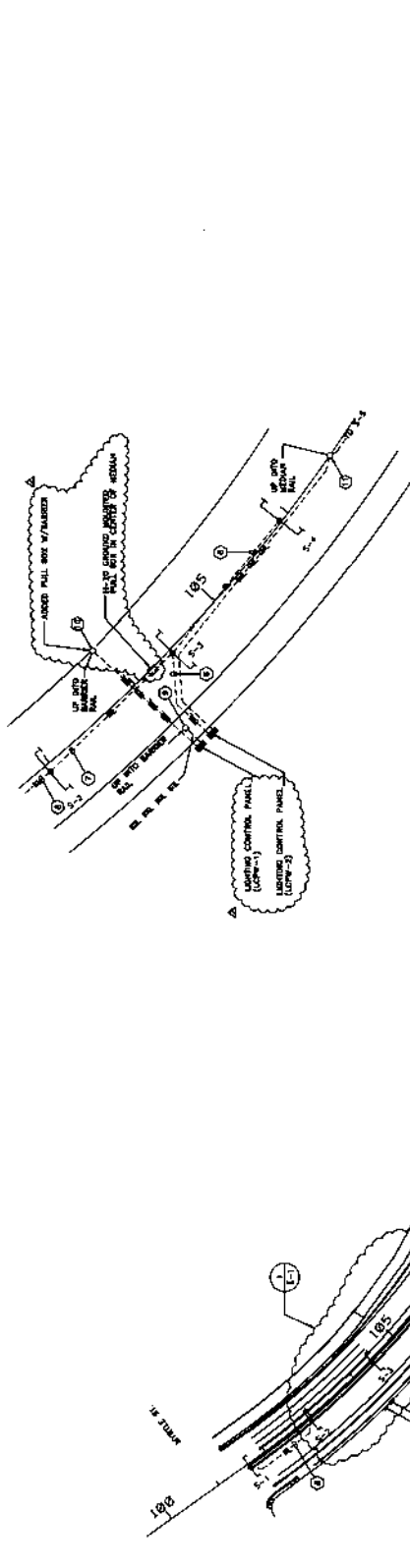
Step 2. Remove outer plate



Step 3. Gently pry glass lens off using a flat screwdriver

Step 4. Clean dome lens with wet wipe or wet cloth

STATE PROJECT NO.
MISS. 18787-1003(20)
10697/104556



ELECTRICAL PLAN NEAR STATION 04400
SCALE: 1" = 30'-0"

LEGEND

- S-6 [RAILWAY LIGHTING TO INCLUDE WITH OVERHEAD AND CIRCULATING SIGNAL HOUSE (SIGNALS), TRUCKS, ETC.
- HE--- [ALL CONDUIT SHALL BE 2" PVC UNDERGROUND AND IN CONCRETE, UNLESS OTHERWISE NOTED.
- HE--- [ALL STEEL CONDUIT SHALL BE FACTORY GALVANIZED TO PREVENT RUSTING.
- HE--- [ALL STEEL CONDUIT SHALL BE FIELD PAINTED WITH RED OXIDE ZINC CHROMATE CONFORMING TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATION FOR CONDUIT, TYPE 1.
- HE--- [CONDUITS SHALL BE 2" PVC UNDERGROUND AND IN CONCRETE, UNLESS OTHERWISE NOTED.
- HE--- [ALL STEEL CONDUIT SHALL BE FACTORY GALVANIZED TO PREVENT RUSTING.
- HE--- [ALL STEEL CONDUIT SHALL BE FIELD PAINTED WITH RED OXIDE ZINC CHROMATE CONFORMING TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATION FOR CONDUIT, TYPE 1.

CONDUIT AND JUNCTION BOX NOTES

1. ALL CONDUIT SHALL BE 2" PVC UNDERGROUND AND IN CONCRETE, UNLESS OTHERWISE NOTED.
2. ALL STEEL CONDUIT SHALL BE FACTORY GALVANIZED TO PREVENT RUSTING.
3. CONDUITS SHALL BE 2" PVC UNDERGROUND AND IN CONCRETE, UNLESS OTHERWISE NOTED.
4. ALL STEEL CONDUIT SHALL BE FACTORY GALVANIZED TO PREVENT RUSTING.
5. ALL STEEL CONDUIT SHALL BE FIELD PAINTED WITH RED OXIDE ZINC CHROMATE CONFORMING TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATION FOR CONDUIT, TYPE 1.
6. ALL JUNCTION BOXES SHALL BE 18" X 18" X 4" GALVANIZED STEEL AND SHALL BE FIELD PAINTED WITH RED OXIDE ZINC CHROMATE CONFORMING TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATION FOR JUNCTION BOXES, TYPE 1.
7. ALL JUNCTION BOXES SHALL BE 18" X 18" X 4" GALVANIZED STEEL AND SHALL BE FIELD PAINTED WITH RED OXIDE ZINC CHROMATE CONFORMING TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATION FOR JUNCTION BOXES, TYPE 1.
8. ALL JUNCTION BOXES SHALL BE 18" X 18" X 4" GALVANIZED STEEL AND SHALL BE FIELD PAINTED WITH RED OXIDE ZINC CHROMATE CONFORMING TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATION FOR JUNCTION BOXES, TYPE 1.

GENERAL NOTES

1. REFER TO SHEET E-5 FOR STANDARD LOCATIONS AND CIRCULATING INFORMATION.
2. REFER TO SHEET E-5 FOR STANDARD LOCATIONS AND CIRCULATING INFORMATION.
3. REFER TO SHEET E-5 FOR STANDARD LOCATIONS AND CIRCULATING INFORMATION.
4. REFER TO SHEET E-5 FOR STANDARD LOCATIONS AND CIRCULATING INFORMATION.
5. REFER TO SHEET E-5 FOR STANDARD LOCATIONS AND CIRCULATING INFORMATION.
6. REFER TO SHEET E-5 FOR STANDARD LOCATIONS AND CIRCULATING INFORMATION.

NUMBERED NOTES

1. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
2. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
3. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
4. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
5. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
6. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
7. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
8. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
9. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
10. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
11. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
12. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.
13. ROUTE CONDUIT WH-1 HOLEDRILL ROUTE CONDUIT IN 2" CONDUIT WITH CIRCUIT WH-1 AND WH-2 TO LAMP-1.



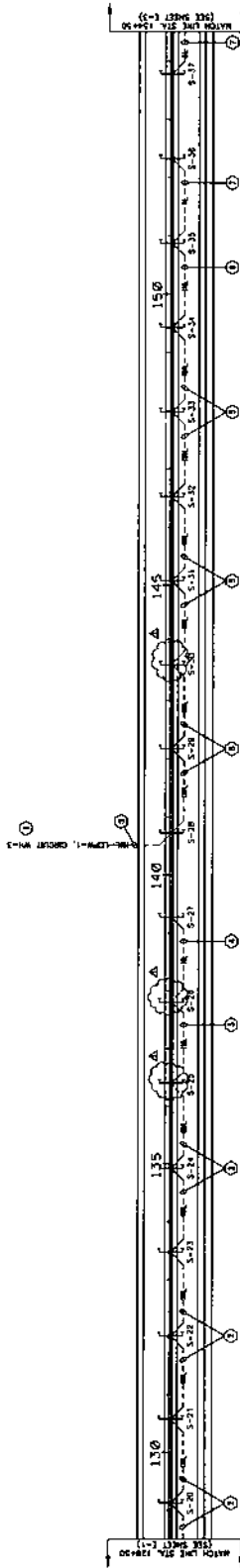
AS-BUILT PLANS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
**US 90 BRIDGE OVER BILOXI BAY
 ROADWAY LIGHTING PLAN**
 PROJECT #BB-0003-07(09) 104556

DATE	DESCRIPTION	BY	CHECKED
10/15/10	AS-BUILT	J. J. [Signature]	[Signature]

JACOBSON & HARRISON ENGINEERS
 PROJECT #BB-0003-07(09) 104556
 FILE NAME: [Blank]
 SHEET NUMBER: 79
 TOTAL SHEETS: 79

STATE PROJECT NO.
MISS. HST-003-0003-07(09) 104336



NUMBERED NOTES

1. ROUTE CROWN WITH 3% SLOPE FROM 10' 2" CORNER WITH DITCHES 5'-0" TO 5'-6" FROM TO 10'-0".
2. 4-4 TYP. 1-24 TYP. 3-24 TYP. 4-4 TYP.
3. 3-24 TYP. 1-24 TYP. 3-24 TYP. 4-4 TYP.
4. 4-4 TYP. 1-24 TYP. 3-24 TYP. 4-4 TYP.
5. 3-24 TYP. 1-24 TYP. 3-24 TYP. 4-4 TYP.
6. 4-4 TYP. 1-24 TYP. 3-24 TYP. 4-4 TYP.

GENERAL NOTES

1. REFER TO SHEET E-4 FOR STANDARD LOCATIONS AND CONDUIT INFORMATION.
2. REFER TO SHEET E-4 FOR ROADWAY STANDARD AND LIGHTING DETAILS.
3. REFER TO SHEETS E-22 AND E-24 FOR WIND SOLOMATES.
4. INSTALL JUNCTION BOX IN ORDER (A) OR (B) OF LATERALS. BRIDGE ADAPTER TO EACH LIGHTING STANDARD. REFER TO SHEET E-27 FOR DETAILS.

LEGEND

- 5-6 [Symbol] ROADWAY LIGHTING STANDARD WITH DOUBLE 150 WATT METAL HALIDE LAMPHOUSE, STANDARD 60.
- [Symbol] THE ABOVE LIGHTING STANDARD SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRAWING AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRAWING.
- [Symbol] MOUNTING HARDWARE SHALL BE 4048 TYPE 4048 SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRAWING.
- [Symbol] ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
- [Symbol] WHEN TRANSDUCERS BETWEEN BRIDGE COLUMNS (AND NOT TO BRIDGE DECK) ARE TO BE USED, THE TRANSDUCERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRAWING.

CONDUIT AND JUNCTION BOX NOTES

1. ALL CONDUIT SHALL BE 7" PVC UNDERGROUND AND 4" CONCRETE UNDERGROUND.
2. STAINLESS STEEL SHALL BE USED FOR CONDUIT, SHALL BE 304 TYPE (NOT 316) AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRAWING.
3. METALLIC FLEXIBLE CONDUIT SHALL BE USED ONLY WHERE LOCATED ON THE SURFACE. FLEXIBLE CONDUIT SHALL BE 1 1/2" MINIMUM LENGTH AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRAWING.
4. ALL JUNCTION BOXES SHALL BE 4048 TYPE 4048 SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRAWING.
5. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
6. WHEN TRANSDUCERS BETWEEN BRIDGE COLUMNS (AND NOT TO BRIDGE DECK) ARE TO BE USED, THE TRANSDUCERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DRAWING.

AS-BUILT PLANS

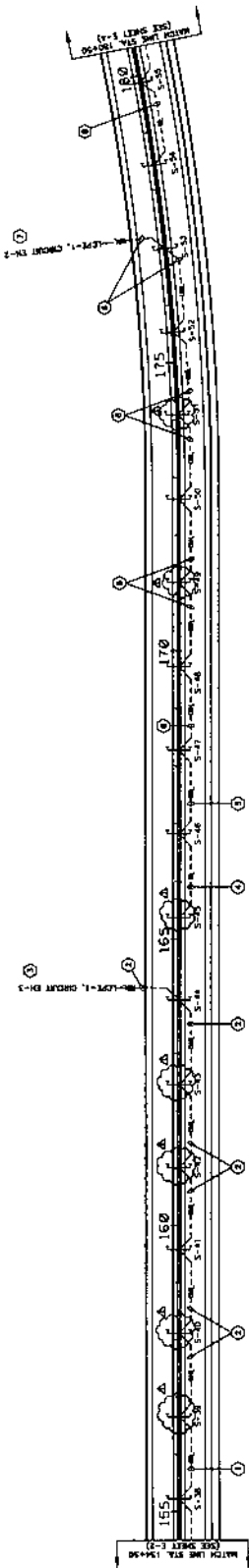


MISSISSIPPI DEPARTMENT OF TRANSPORTATION
US 90 BRIDGE OVER BILOXI BAY
ROADWAY LIGHTING PLAN
 PROJECT #HST-0003-07(09) 104336
 JACOBSON & HARRISON COUNTY
 WORKING NUMBER: E-2
 SHEET NUMBER: 80
 DATE: 04/26/09

FILE NAME: J:\PROJECTS\104336\104336-07\104336-07-09\104336-07-09-08.dwg
 DRAWN BY: JH
 CHECKED BY: JH
 DATE: 04/26/09

DATE: 04/26/09
 DRAWN BY: JH
 CHECKED BY: JH
 DATE: 04/26/09

STATE PROJECT NO.
MISS. 12597.0007.01
MINS. 12597.04556



NUMBERED NOTES

- 1-42 THRU 1-44 THRU UNIFORM CONDUCTIVE.
- 4-42 THRU 4-44 THRU UNIFORM CONDUCTIVE.
- ROUTE CONDUIT D1-2 HORIZONTAL IN 2" CONDUIT WITH COORDINATES D1-1 AND D1-2 TO LEFT-1.
- 2-44 THRU 1-44 THRU UNIFORM CONDUCTIVE.
- 3-44 THRU 1-44 THRU UNIFORM CONDUCTIVE.
- 4-44 THRU 1-44 THRU UNIFORM CONDUCTIVE.
- ROUTE CONDUIT D1-2 HORIZONTAL IN 2" CONDUIT WITH COORDINATES D1-1 AND D1-2 TO LEFT-1.
- 2-44 THRU 1-44 THRU UNIFORM CONDUCTIVE.

GENERAL NOTES

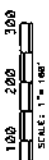
- 1. REFER TO SHEET E-8 FOR STANDARD LOCATIONS AND CIRCUIT INFORMATION.
- 2. REFER TO SHEET E-9 FOR ROUTING STIPES AND UNIFORM COORDINATES.
- 3. REFER TO SHEET E-14 FOR WIRING SCHEDULES.
- 4. REFER TO SHEET E-17 FOR UNIFORM LEFT LOCATIONS AND DETAILS.
- 5. REFER TO SHEET E-17 FOR UNIFORM RIGHT LOCATIONS AND DETAILS.
- 6. REFER TO SHEET E-17 FOR UNIFORM STIPES AND DETAILS.

LEGEND

- 1. UNIFORM LIGHTING STIPES WITH DOUBLE 200 WATT METAL HALIDE LUMINAIRE, STUB END NO.
- 2. UNIFORM LIGHTING STIPES WITH DOUBLE 200 WATT METAL HALIDE LUMINAIRE, STUB END NO.
- 3. UNIFORM LIGHTING STIPES WITH DOUBLE 200 WATT METAL HALIDE LUMINAIRE, STUB END NO.
- 4. UNIFORM LIGHTING STIPES WITH DOUBLE 200 WATT METAL HALIDE LUMINAIRE, STUB END NO.
- 5. UNIFORM LIGHTING STIPES WITH DOUBLE 200 WATT METAL HALIDE LUMINAIRE, STUB END NO.
- 6. UNIFORM LIGHTING STIPES WITH DOUBLE 200 WATT METAL HALIDE LUMINAIRE, STUB END NO.

CONDUIT AND JUNCTION BOX NOTES

- 1. ALL CONDUIT SHALL BE 2" PVC UNIFORMITY AND IN CONCRETE.
- 2. UNIFORM LIGHTING STIPES SHALL BE 2" PVC UNIFORMITY AND IN CONCRETE.
- 3. UNIFORM LIGHTING STIPES SHALL BE 2" PVC UNIFORMITY AND IN CONCRETE.
- 4. UNIFORM LIGHTING STIPES SHALL BE 2" PVC UNIFORMITY AND IN CONCRETE.
- 5. UNIFORM LIGHTING STIPES SHALL BE 2" PVC UNIFORMITY AND IN CONCRETE.
- 6. UNIFORM LIGHTING STIPES SHALL BE 2" PVC UNIFORMITY AND IN CONCRETE.



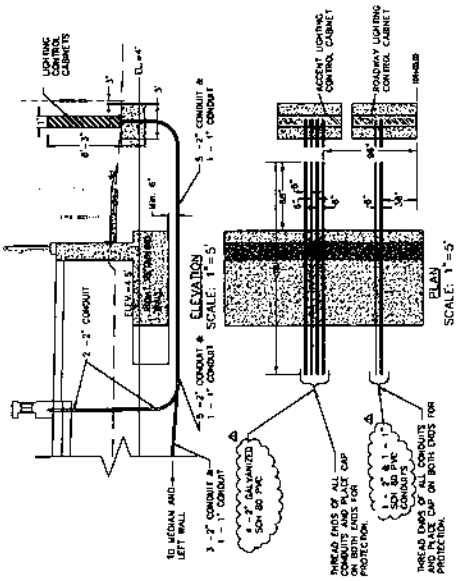
AS-BUILT PLANS

DATE: _____ DATE: _____
 DRAWN BY: _____ CHECKED BY: _____
 DESIGNED BY: _____ APPROVED BY: _____
 PROJECT ENGINEER: _____
 PROJECT NO.: _____

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
US 90 BRIDGE OVER BILOXI BAY
ROADWAY LIGHTING
PLAN
 PROJECT #2001-0003-01(000) 10A55A
 JACKSON & HARRISON COUNTIES
 WORKING NUMBER: E-3
 SHEET NUMBER: 81
 DATE: 11/14/01

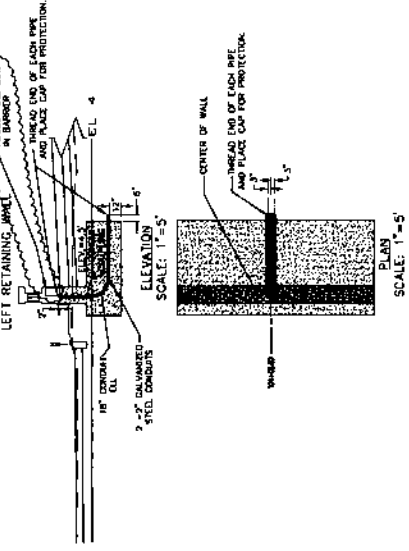
STATE MISS. PROJECT NO. 10797/124556

STA. 104+00
RIGHT RETAINING WALL

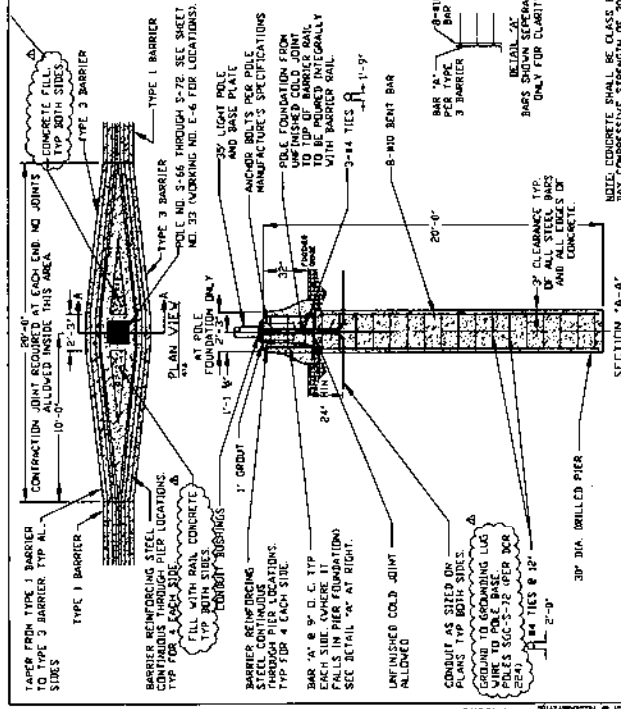


CONDUIT - RIGHT BARRIER RAIL

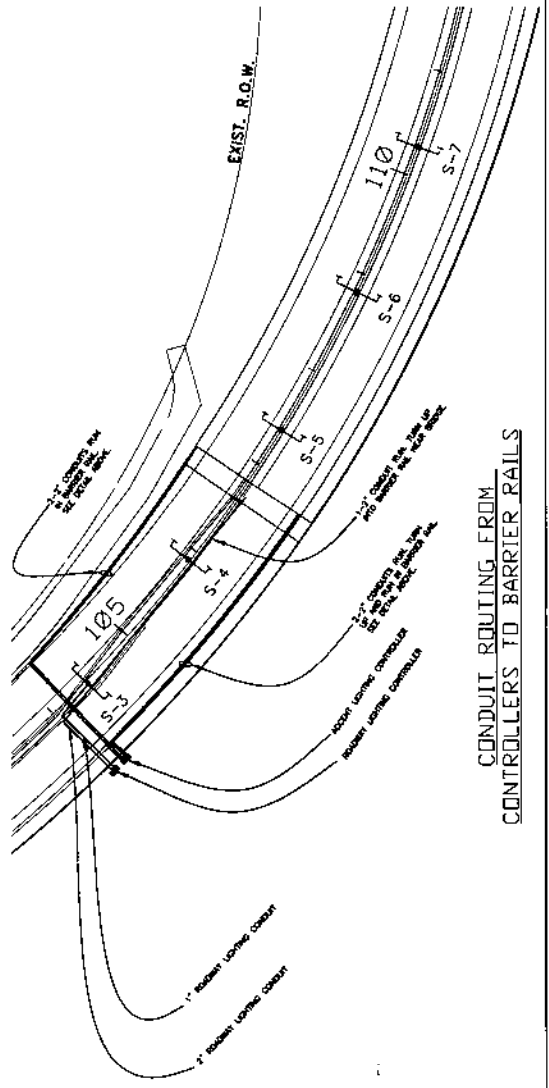
STA. 104+00
LEFT RETAINING WALL



CONDUIT - LEFT BARRIER RAIL



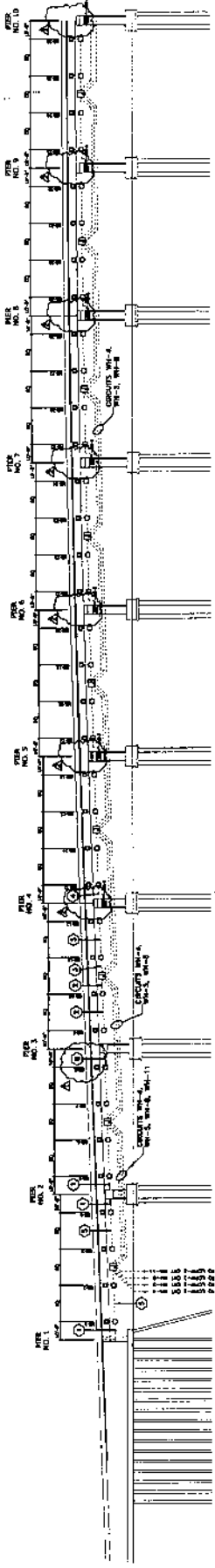
TYPICAL LIGHT POLE FOUNDATION ON BARRIER RAIL



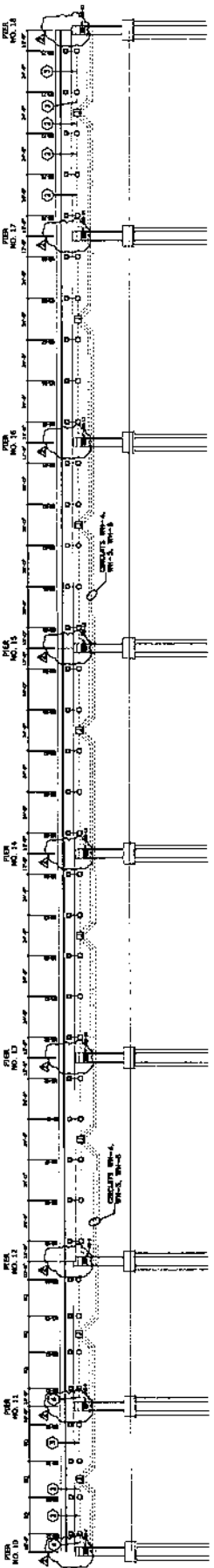
CONDUIT ROUTING FROM CONTROLLERS TO BARRIER RAILS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
US 90 BRIDGE OVER BILOXI BAY
MISCELLANEOUS DETAILS
 PROJECT 2008-0000-010001/0000
 JACKSON & HARRISON CONTRACTORS
 FILE NAME: 10797/124556
 SHEET NO: 84A
 DATE: 11/12/08
 WJK

STATE PROJECT NO. MISS. 10/10/08



NOTE THERE IS AN INTERMEDIATE 8" X 8" X 8" REBAR AT JUNCTION FOR EACH PIER WITH 1/2" DIA. REBAR AT EACH END OF THE PIER. THE JUNCTION BARS WILL BE PLACED ON THE SOUTH SIDE OF THE PIER. SEE SHEET 1-11 FOR PIER 10 AND SHEET 1-12 FOR PIER 11.



LEGEND

- REINFORCE LIGHT, LUMINAIRE NO.
JUNCTION BOX MOUNTED ON MARKER BALL
8" X 8" X 8" STAINLESS STEEL JUNCTION BOX
MOUNTED TO NORTH SIDE OF SOUTH SIDE OF
CONDUIT, NO. AND SIZE OF
CONDUIT TO BE INDICATED

CONDUIT AND JUNCTION BOX NOTES

- ALL CONDUIT SHALL BE 1-1/2" DIA. TYPE 1 CONDUIT WITH 1/2" WALL THICKNESS AND BE CONNECTED TO THE STRUCTURE WITH 1/2" DIA. STAINLESS STEEL BUSHINGS.
CONDUIT SHALL BE MOUNTED TO THE STRUCTURE WITH 1/2" DIA. STAINLESS STEEL BUSHINGS AND 1/2" DIA. STAINLESS STEEL WASHERS AND NUTS.
CONDUIT SHALL BE MOUNTED TO THE STRUCTURE WITH 1/2" DIA. STAINLESS STEEL BUSHINGS AND 1/2" DIA. STAINLESS STEEL WASHERS AND NUTS.
CONDUIT SHALL BE MOUNTED TO THE STRUCTURE WITH 1/2" DIA. STAINLESS STEEL BUSHINGS AND 1/2" DIA. STAINLESS STEEL WASHERS AND NUTS.

GENERAL NOTES

- INSTALL CONDUIT WITH 1/2" DIA. TYPE 1 CONDUIT WITH 1/2" WALL THICKNESS AND BE CONNECTED TO THE STRUCTURE WITH 1/2" DIA. STAINLESS STEEL BUSHINGS.
CONDUIT SHALL BE MOUNTED TO THE STRUCTURE WITH 1/2" DIA. STAINLESS STEEL BUSHINGS AND 1/2" DIA. STAINLESS STEEL WASHERS AND NUTS.
CONDUIT SHALL BE MOUNTED TO THE STRUCTURE WITH 1/2" DIA. STAINLESS STEEL BUSHINGS AND 1/2" DIA. STAINLESS STEEL WASHERS AND NUTS.

NUMBERED NOTES

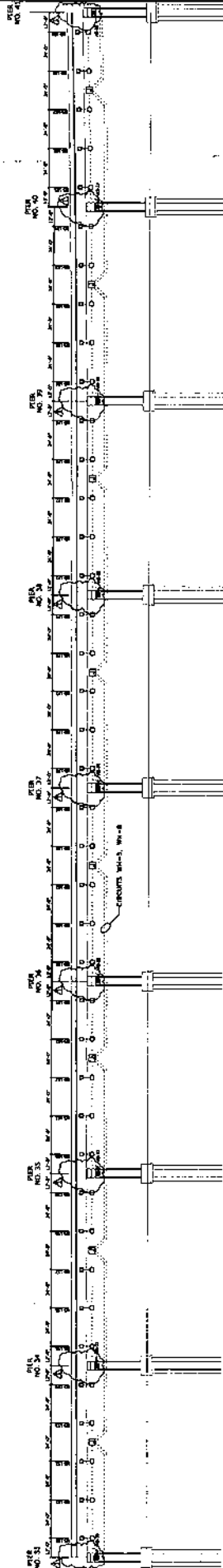
- 1. REINFORCE LIGHT, LUMINAIRE NO.
2. JUNCTION BOX MOUNTED ON MARKER BALL
3. 8" X 8" X 8" STAINLESS STEEL JUNCTION BOX
MOUNTED TO NORTH SIDE OF SOUTH SIDE OF
CONDUIT, NO. AND SIZE OF
CONDUIT TO BE INDICATED



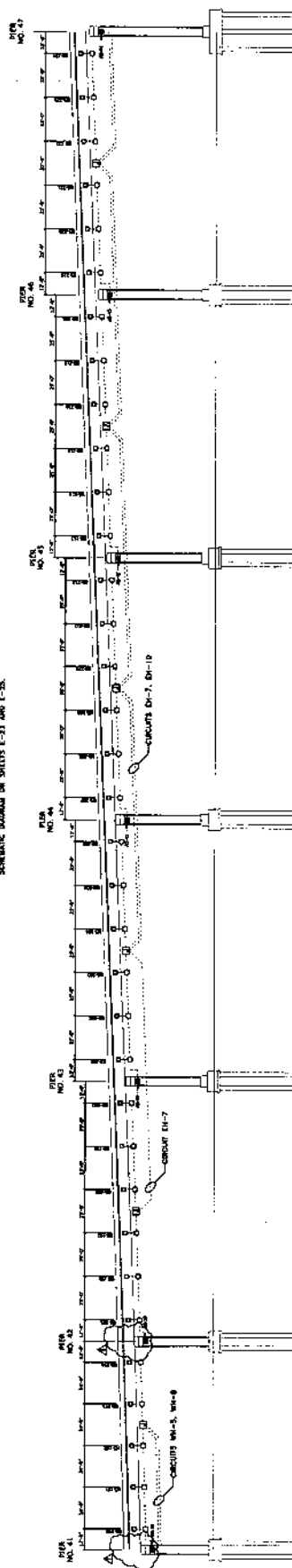
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AS-BUILT PLANS
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
US 90 BRIDGE OVER BILOXI BAY
ACCENT LIGHTING PLAN
NECKLACE LIGHTING PLAN
SOUTH SIDE OF BRIDGE
PROJECT 0808-0003-010999 104334
JACKSON & HARRISON COUNTY
FILE NAME:
DATE:
DRAWN BY:
CHECKED BY:
APPROVED BY:
SCALE: 1" = 30'

STATE PROJECT NO.
MISS. 1899718255-01



NOTE: THERE IS AN INTERCHANGE OF 8" x 8" x 1/4" WELLS AT JUNCTION BOX NO. 1 AND BOX NO. 2. THE 8" x 8" x 1/4" WELLS AT JUNCTION BOX NO. 1 ARE TO BE REMOVED AND REPLACED WITH 8" x 8" x 1/4" WELLS AT JUNCTION BOX NO. 2. THE 8" x 8" x 1/4" WELLS AT JUNCTION BOX NO. 2 ARE TO BE REMOVED AND REPLACED WITH 8" x 8" x 1/4" WELLS AT JUNCTION BOX NO. 1. SEE SCHEMATIC DRAWING ON SHEETS E-37 AND E-38.



NUMBERED NOTES

1. 2-#10 THRU, 1-#10 THRU CEILING CONSTRUCTION IN 1" CONDUIT (TYPICAL)
2. 4-#10 THRU, 2-#10 THRU CEILING CONSTRUCTION IN 1" CONDUIT (TYPICAL)
3. 2-#10 THRU, 1-#10 THRU CEILING CONSTRUCTION IN 3/4" CONDUIT (TYPICAL)

GENERAL NOTES

1. INSTALL CONDUIT WITH 2" DIA. COVER INSTALLED IN SOUTH FACE NECKLACE LIGHTING MOUNTING DETAIL. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
2. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
 - a. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
 - b. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
 - c. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
3. REFER TO SHEET E-17 FOR NECKLACE LIGHTING LOCATIONS AND WIRING DETAIL.
4. REFER TO SHEET E-17 FOR NECKLACE LIGHTING MOUNTING DETAIL.
5. REFER TO SHEET E-19 FOR PER ACCENT LIGHT LOCATIONS AND WIRING DETAIL.
6. REFER TO SHEET E-21 AND E-22 FOR BRIDGE SCHEDULES.
7. REFER TO SHEET E-25 AND E-26 FOR ACCENT AND NECKLACE LIGHTING CONDUIT AND JUNCTION BOX DETAIL.
8. INSTALL 5 WFT IN LINE PIPE OR 4" x 4" x 1/4" JUNCTION BOXES IN ACCORDANCE WITH THE FOLLOWING NOTES:

LEGEND

- NECKLACE LIGHT, LUMINAIRE NO.
- PER ACCENT LIGHT, LUMINAIRE NO.
- JUNCTION BOX MOUNTED IN BRIDGE BAY.
- 8" x 8" x 1/4" STAINLESS STEEL JUNCTION BOX MOUNTED TO WEAR SURFACE OF SOUTH SIDE.
- CONCRETE CONDUIT IN CONCRETE, NO. AND SIZE OF CONCRETE DIMENSIONS.

CONDUIT AND JUNCTION BOX NOTES

1. CONDUIT AND JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
2. CONDUIT AND JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:
3. METALLIC FLEXIBLE CONDUIT SHALL BE USED ONLY WHERE INDICATED AND SHALL BE LAPPED WITH WITH PROPER LAPPING-TIGHT FITTING AND SHALL BE LAPPED-TIGHT WITH PROPER LAPPING-TIGHT FITTING.
4. ALL JUNCTION BOXES SHALL BE NEW TYPE 45 AND SHALL BE CONSTRUCTED OF STAINLESS STEEL.
5. ALL WELDING MATERIALS SHALL BE STAINLESS STEEL.
6. WHEN TRANSDUCERS, THERMISTORS, PRESSURE TRANSDUCERS AND OTHER INSTRUMENTS ARE INSTALLED IN THE BRIDGE STRUCTURE, THE INSTRUMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING NOTES:

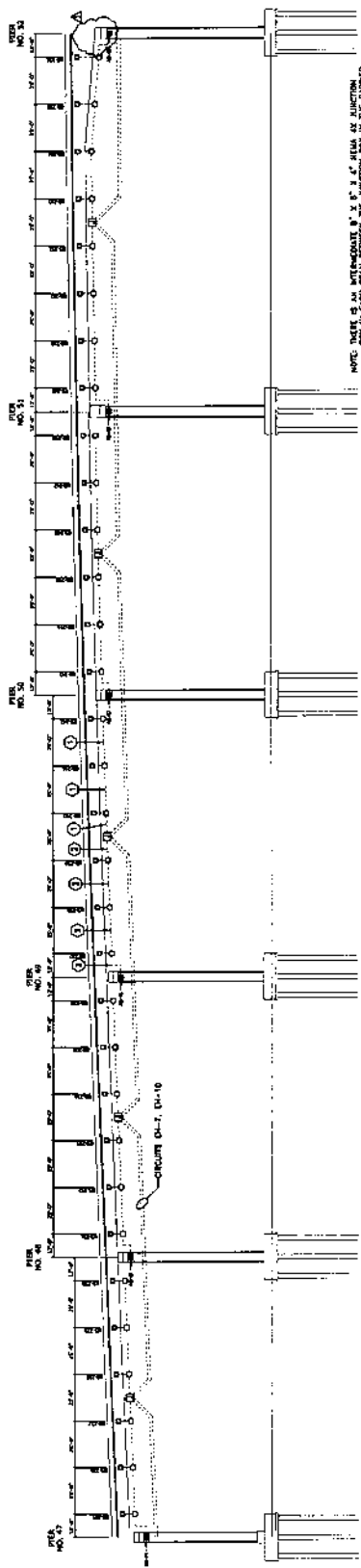
AS-BUILT PLANS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
US 90 BRIDGE OVER BILOXI BAY
ACCENT LIGHTING PLAN
NECKLACE LIGHTING PLAN
SOUTH SIDE OF BRIDGE
 PROJECT 6888-000-01(099) 146533

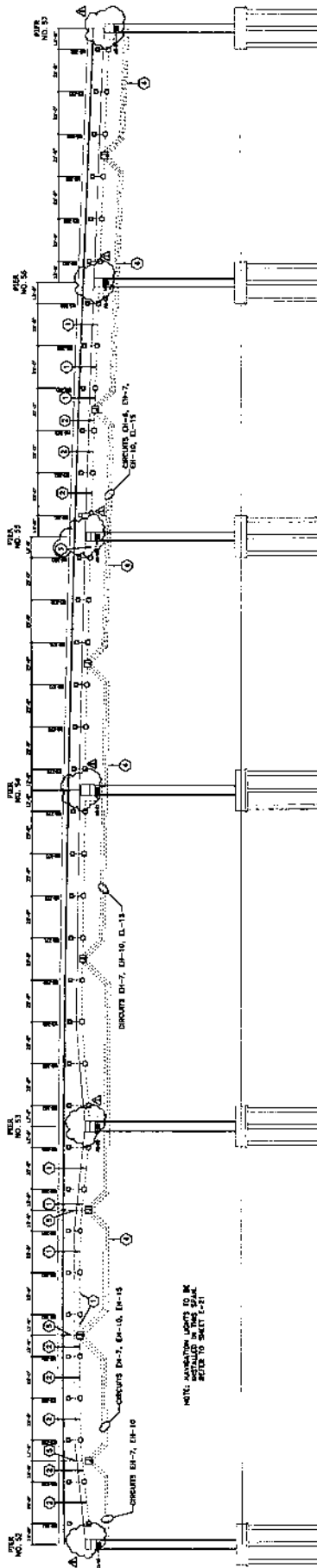
JACKSON & HANSEN ENGINEERS
 FILE NAME: JH010101.DWG DATE: 04/16/09
 SHEET NUMBER: E-9
 WORKING NUMBER: 87



STATE PROJECT NO.
MISS. 185507/185507



NOTE: THERE IS AN INTERCOURT 8" x 8" x 1/4" STEEL AT JUNCTION
BETWEEN EACH PIER. THIS INTERCOURT IS TO BE INSTALLED IN THE
MIDDLE OF THE PIER. THE INTERCOURT IS TO BE INSTALLED IN THE
MIDDLE OF THE PIER. THIS INTERCOURT IS NOT SHOWN ON THIS SHEET BUT
IS SHOWN ON SHEET 1-17 FOR
SCHEMATIC DIAGRAM ON SHEET 1-20.



NOTE: CONNECTIONS SHOWN ON
THIS SHEET ARE TO BE MADE
AS SHOWN ON SHEET 1-21

NUMBERED NOTES

- ① 2-#10 THIN, 1-#10 THIN EXPOSURE CONDUCTOR IN T CONDUIT (TYPICAL)
- ② 4-#10 THIN, 2-#10 THIN EXPOSURE CONDUCTOR IN T CONDUIT (TYPICAL)
- ③ 2-#10 THIN, 1-#10 THIN EXPOSURE CONDUCTOR IN 3/4" CONDUIT (TYPICAL)
- ④ EXPOSURE LIGHTING CONDUIT 4x12, 3-#10 THIN, 1-#10 THIN EXPOSURE
- ⑤ 1/2" DIA. 1/4" CONDUIT TO MOUNTING LIGHTS, REFER TO SHEET 1-21 FOR MOUNTING LIGHT MOUNTING DETAILS AND CEMENT INFILTRATION.

GENERAL NOTES

1. INITIAL CONDUIT 4x12 AND 4x12 IN 2" DIA. 1/4" CONDUIT, INSTALLED IN 2x4x8 BRACKET AND MOUNTED TO BRACKET BY CAPPING BOLTS AND NUTS. CONDUIT SHALL BE INSTALLED IN BRACKET AS TO FIELD AND JOINTS. UNLESS OTHERWISE NOTED.
2. REFER TO SHEET 1-17 FOR NECKLACE LIGHTING LOCATIONS AND WIRING.
3. REFER TO SHEET 1-17 FOR NECKLACE LIGHTING MOUNTING DETAILS.
4. REFER TO SHEET 1-18 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
5. REFER TO SHEET 1-18 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
6. REFER TO SHEET 1-20 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
7. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
8. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
9. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
10. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
11. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
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13. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
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15. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
16. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
17. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
18. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
19. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.
20. REFER TO SHEET 1-21 FOR NECKLACE LIGHT LOCATIONS AND WIRING.

LEGEND

- NECKLACE LIGHT, UNIFORM NO.
- FOR NECKLACE LIGHT, UNIFORM NO.
- JUNCTION BOX MOUNTED IN BRACKET RAIL.
- 4" x 4" x 1/4" STAINLESS STEEL JUNCTION BOX
- MOUNTED TO BRACKET BY CAPPING BOLTS AND NUTS.
- CONNECTIONS SHOWN ON SHEET 1-21.

CONDUIT AND JUNCTION BOX NOTES

1. ALL CONDUIT SHALL BE PVC UNDERGROUND AND IN CONDUIT.
2. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
3. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
4. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
5. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
6. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
7. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
8. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
9. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
10. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
11. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
12. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
13. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
14. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
15. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
16. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
17. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
18. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
19. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.
20. ALL CONDUIT SHALL BE 1/2" DIA. 1/4" CONDUIT.

AS-BUILT PLANS

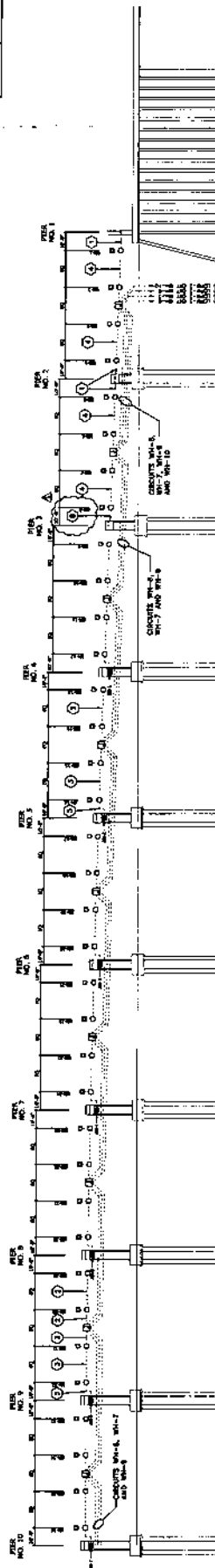
DATE: _____

BY: *Chas. Brinkman, P.E.*

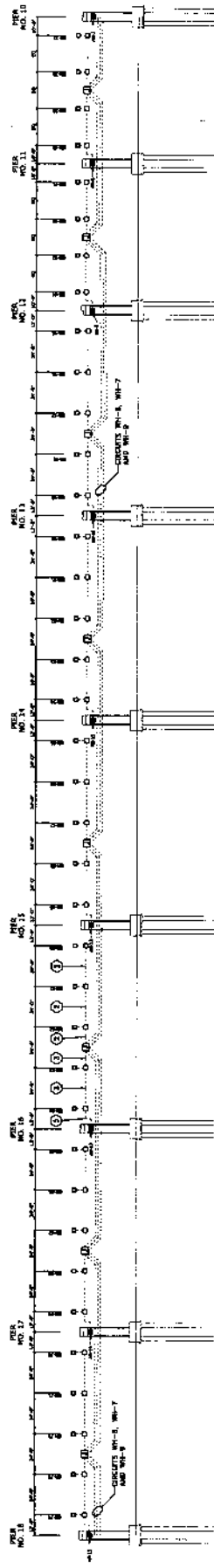
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
US 90 BRIDGE OVER BILOXI BAY
ACCENT LIGHTING PLAN
NECKLACE LIGHTING PLAN
SOUTH SIDE OF BRIDGE
 PROJECT 2008-0001-01(099) 104334

WORKING NUMBER	E-10
SHEET NUMBER	88
FILE NAME	MISSISSIPPI
PROJECT NUMBER	2008-0001-01(099) 104334
DATE	11/10/08
BY	CHAS. BRINKMAN, P.E.
CHECKED BY	CHAS. BRINKMAN, P.E.
APPROVED BY	CHAS. BRINKMAN, P.E.

STATE PROJECT NO.
MISS. 66-10-0000-01



NOTE: THERE IS AN INTERMEDIATE 8" X 8" X 4' WALL AT JUNCTION NO. 11 AND THIS IS A 3" X 3" ANCHOR BOLT SHOWN ON THIS SHEET. THE 8" X 8" X 4' WALL IS SHOWN ON SHEET E-119 AND IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET E-119 AND SCHEMATIC DRAWING ON SHEET E-11.



LEGEND

- RECYCLE LIGHT, LUMINAIRE NO.
- PER ANCHOR LIGHT, LUMINAIRE NO.
- JUNCTION BOX MOUNTED ON OUTSIDE BRIDGE RAIL.
- 8" X 8" X 4' STAINLESS STEEL JUNCTION BOX MOUNTED TO SOUTH SIDE OF BRIDGE CURB.
- CONCRETE CURB, 12" HIGH AND 24" WIDE AT TOP.

CONDUIT AND JUNCTION BOX NOTES

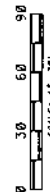
1. CONDUIT SHALL BE 1/2" DIA. GALVANIZED STEEL CONDUIT WITH 1/2" THICK WALLS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET E-119.
2. ALL JUNCTION BOXES SHALL BE 8" X 8" X 4' STAINLESS STEEL JUNCTION BOXES WITH 1/2" THICK WALLS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET E-119.
3. CONCRETE SHALL BE 3000 PSI STRENGTH CONCRETE WITH 1% STEEL FIBERS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET E-119.
4. ALL JUNCTION BOXES SHALL BE 8" X 8" X 4' STAINLESS STEEL JUNCTION BOXES WITH 1/2" THICK WALLS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET E-119.
5. ALL JUNCTION BOXES SHALL BE 8" X 8" X 4' STAINLESS STEEL JUNCTION BOXES WITH 1/2" THICK WALLS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET E-119.
6. ALL JUNCTION BOXES SHALL BE 8" X 8" X 4' STAINLESS STEEL JUNCTION BOXES WITH 1/2" THICK WALLS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET E-119.

GENERAL NOTES

1. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 10.
2. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 11.
3. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 12.
4. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 13.
5. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 14.
6. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 15.
7. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 16.
8. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 17.
9. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 18.
10. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 19.
11. REFER TO SHEET E-11 FOR RECYCLE LIGHT, LUMINAIRE NO. 20.

NUMBERED NOTES

1. RECYCLE LIGHT, LUMINAIRE NO. 10.
2. RECYCLE LIGHT, LUMINAIRE NO. 11.
3. RECYCLE LIGHT, LUMINAIRE NO. 12.
4. RECYCLE LIGHT, LUMINAIRE NO. 13.
5. RECYCLE LIGHT, LUMINAIRE NO. 14.
6. RECYCLE LIGHT, LUMINAIRE NO. 15.
7. RECYCLE LIGHT, LUMINAIRE NO. 16.
8. RECYCLE LIGHT, LUMINAIRE NO. 17.
9. RECYCLE LIGHT, LUMINAIRE NO. 18.
10. RECYCLE LIGHT, LUMINAIRE NO. 19.
11. RECYCLE LIGHT, LUMINAIRE NO. 20.



AS-BUILT PLANS

DATE: _____

BY: _____

PROJECT NO.: 66-10-0000-01

SHEET NO.: 90

TOTAL SHEETS: 90

DATE: _____

BY: _____

PROJECT NO.: 66-10-0000-01

SHEET NO.: 90

TOTAL SHEETS: 90

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

US 90 BRIDGE OVER BILOXI BAY

ACCENT LIGHTING PLAN

NECKLACE LIGHTING PLAN

NORTH SIDE OF BRIDGE

PROJECT NO. 66-10-0000-01 (STWY) 14850

JACKSON & NARBESON COMPANY

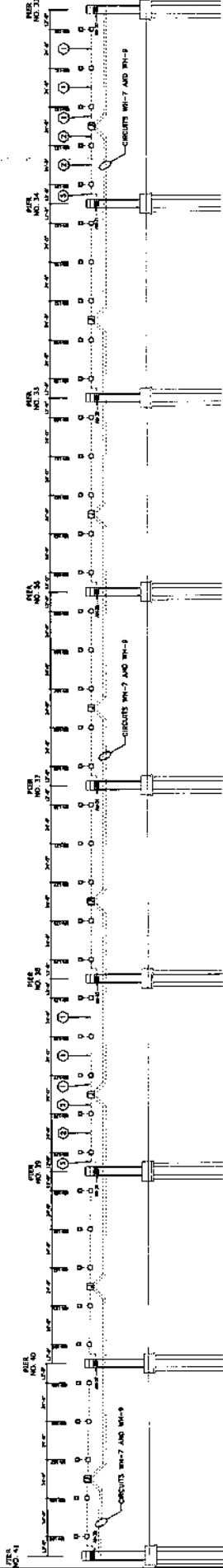
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EXCISE TAX: _____

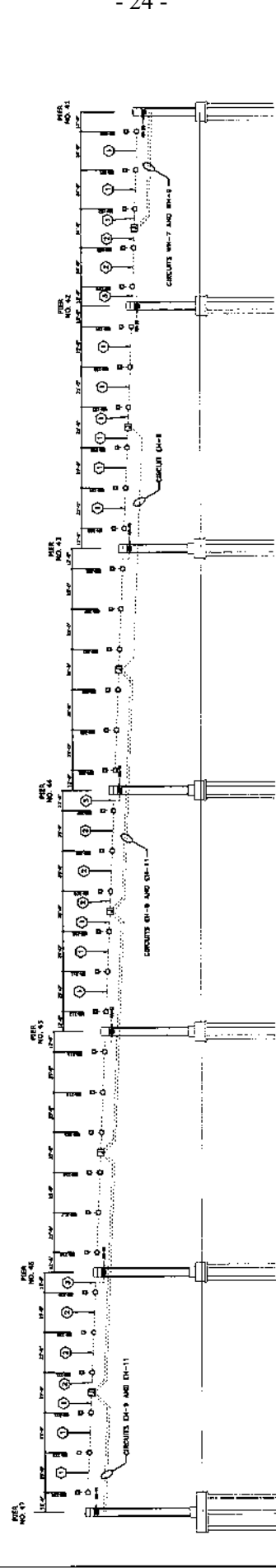
DATE: _____

SCALE: 1" = 30'

STATE PROJECT NO. MISS. 2008-01



NOTE: THERE IS AN INTERMEDIATE 8" x 8" x 3" JUNCTION BOX AT EACH END OF THE BRIDGE. THE JUNCTION BOXES AT EACH END ARE TO BE INSTALLED IN THE CENTER OF THE BRIDGE DECK. THE JUNCTION BOXES AT EACH END ARE TO BE INSTALLED IN THE CENTER OF THE BRIDGE DECK. THE JUNCTION BOXES AT EACH END ARE TO BE INSTALLED IN THE CENTER OF THE BRIDGE DECK.



GENERAL NOTES

1. INSTALL CONDUIT ONLY IN ONE 2" CONDUIT INSTALLED IN OUTSIDE WALL OF BRIDGE DECK. CONDUIT SHALL BE INSTALLED IN OUTSIDE WALL OF BRIDGE DECK TO FIELD PER ACCEPT LIGHTING.
2. 1-#10 THIN, 1-#10 THIN GALVANIZED CONDUCTOR IN 1" CONDUIT (TYPICAL)
3. 2-#10 THIN, 1-#10 THIN GALVANIZED CONDUCTOR IN 1" CONDUIT (TYPICAL)

LEGEND

- 1. NECKLACE LIGHT, LUMINAIRE NO. FOR ACCEPT LIGHT, LUMINAIRE NO.
- 2. JUNCTION BOX MOUNTED IN OUTSIDE WALL OF BRIDGE DECK. 8" x 8" x 3" STAINLESS STEEL JUNCTION BOX MOUNTED TO OUTSIDE WALL OF BRIDGE DECK. 8" x 8" x 3" STAINLESS STEEL JUNCTION BOX MOUNTED TO OUTSIDE WALL OF BRIDGE DECK.
- 3. BRANCH CIRCUIT IN CONDUIT, NO. AND SIZE OF CONDUCTORS INSTALLED.

CONDUIT AND JUNCTION BOX NOTES

1. ALL CONDUIT SHALL BE INSTALLED IN ONE 2" CONDUIT INSTALLED IN OUTSIDE WALL OF BRIDGE DECK. CONDUIT SHALL BE INSTALLED IN OUTSIDE WALL OF BRIDGE DECK TO FIELD PER ACCEPT LIGHTING.
2. 1-#10 THIN, 1-#10 THIN GALVANIZED CONDUCTOR IN 1" CONDUIT (TYPICAL)
3. 2-#10 THIN, 1-#10 THIN GALVANIZED CONDUCTOR IN 1" CONDUIT (TYPICAL)
4. ALL JUNCTION BOXES SHALL BE 8" x 8" x 3" TYPE AND SHALL BE CONSTRUCTED OF STAINLESS STEEL.
5. ALL JUNCTION BOXES SHALL BE 8" x 8" x 3" TYPE AND SHALL BE CONSTRUCTED OF STAINLESS STEEL.
6. WHEN REMOUNTING, REMOTE BRIDGE ELEMENTS AND BRIDGE DECK SHALL BE REMOVED AND THE STRUCTURE SHALL BE RECONSTRUCTED TO ACCOMMODATE RELOCATION OF THE STRUCTURE.

AS-BUILT PLANS

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
US 90 BRIDGE OVER BILOXI BAY
ACCENT LIGHTING PLAN
NECKLACE LIGHTING PLAN
NORTH SIDE OF BRIDGE
 PROJECT 2008-0003-010999 100000

WORKING NUMBER: E-14 SHEET NUMBER: 92

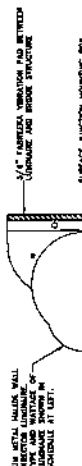
DESIGNER: ANDREW A. HANCOCK COUNTY

DATE: 11/11/08

BY: [Signature]

SCALE: 1" = 30'

STATE MISS. PROJECT NO. BR2018-00003-00
DATE 08/23/18



ACCENT FLOODLIGHT LOCATION AND WIRING SCHEDULE

NO.	BRIDGE	TYPE	HEIGHT	WIRING	NOTES
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
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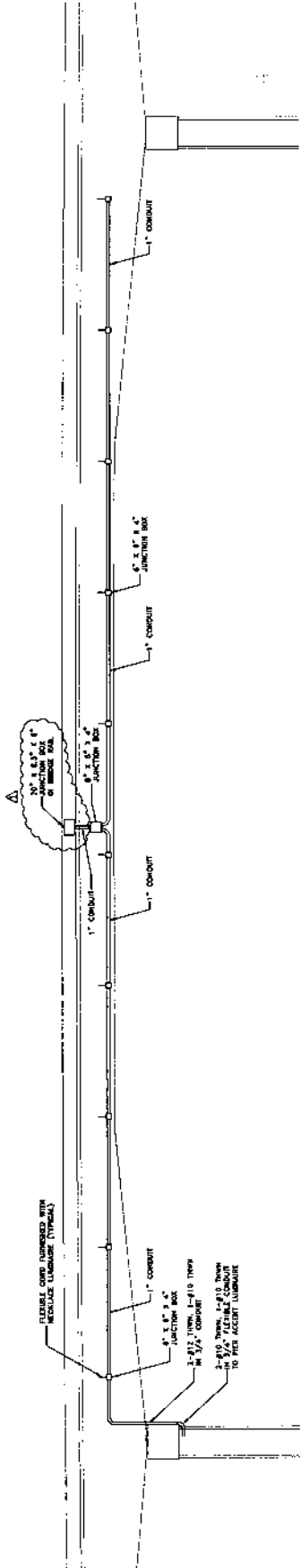
PER ACCENT LIGHT LOCATION AND WIRING SCHEDULE (NORTH SIDE OF BRIDGE)

BRIDGE	TYPE	HEIGHT	WIRING	NOTES
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
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96	96	96	96	96
97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100

PER ACCENT LIGHT LOCATION AND WIRING SCHEDULE (SOUTH SIDE OF BRIDGE)

BRIDGE	TYPE	HEIGHT	WIRING	NOTES
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
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79	79	79	79	79

STATE MISS. PROJECT NO. 1A/78R-2003(70) 10/31/194556



JUNCTION BOX AND CONDUIT DETAIL ON INSIDE OF OUTSIDE BRIDGE GIRDER (TYPICAL)
SCALE: 1" = 1'-0"

- CONDUIT AND JUNCTION BOX NOTES.**
1. ALL CONDUIT SHALL BE RIGID (UNLESS) UNLESS OTHERWISE NOTED.
 2. EXPOSED CONDUIT SHALL BE SECURED TO BRIDGE STRUCTURE WITH SPACERS AT 4' ON CENTER. CONDUIT SHALL BE PROTECTED BY 1/2" THICK INTERLAYS PROVIDING CONDUIT SUPPORTS WITHIN ONE FOOT OF ALL JUNCTION BOXES AND LIGHT FIXTURE BOXES.
 3. ALL JUNCTION BOXES SHALL BE 6" X 6" X 1/2" GALVANIZED STEEL AND SHALL BE LOCK-TIGHT WITH PROPER TIGHTENING METHOD.
 4. ALL JUNCTION BOXES SHALL BE 1/2" THICK AND SHALL BE CONSTRUCTED WITH 1/2" THICK INTERLAYS PROVIDING CONDUIT SUPPORTS WITHIN ONE FOOT OF ALL JUNCTION BOXES AND LIGHT FIXTURE BOXES.
 5. ALL JUNCTION BOXES SHALL BE 1/2" THICK AND SHALL BE CONSTRUCTED WITH 1/2" THICK INTERLAYS PROVIDING CONDUIT SUPPORTS WITHIN ONE FOOT OF ALL JUNCTION BOXES AND LIGHT FIXTURE BOXES.
 6. ALL JUNCTION BOXES SHALL BE 1/2" THICK AND SHALL BE CONSTRUCTED WITH 1/2" THICK INTERLAYS PROVIDING CONDUIT SUPPORTS WITHIN ONE FOOT OF ALL JUNCTION BOXES AND LIGHT FIXTURE BOXES.

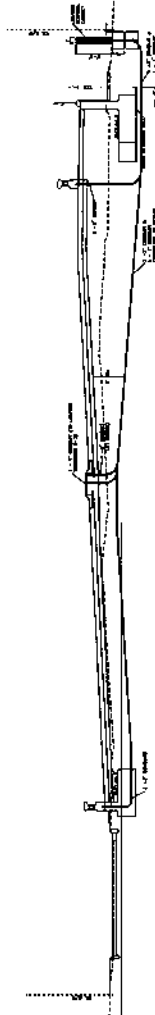
LEGEND

JUNCTION BOX: 6" X 6" X 1/2" GALVANIZED STEEL
 CONDUIT: 1" CONDUIT
 INTERLAYS: 1/2" THICK INTERLAYS PROVIDING CONDUIT SUPPORTS WITHIN ONE FOOT OF ALL JUNCTION BOXES AND LIGHT FIXTURE BOXES.

ALL JUNCTION BOXES SHALL BE 1/2" THICK AND SHALL BE CONSTRUCTED WITH 1/2" THICK INTERLAYS PROVIDING CONDUIT SUPPORTS WITHIN ONE FOOT OF ALL JUNCTION BOXES AND LIGHT FIXTURE BOXES.

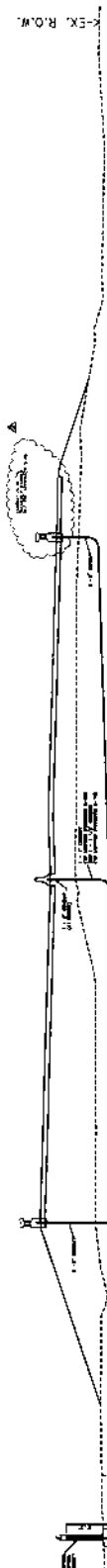
AS-BUILT PLANS		PROJECT: 1A/78R-2003(70) MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
DATE: 10/31/194556	DESIGNER: D. J. DAVIS ENGINEERS PA	PROJECT: US 90 BRIDGE OVER BILOXI BAY	
SCALE: 1" = 1'-0"	DATE: 10/31/194556	CONDUIT AND JUNCTION BOX DETAILS	
PROJECT: JACKSON & HARRISON ENGINEERS	FILE NAME: 1004.015	WORKING NUMBER: E-28	
PROJECT: JACKSON & HARRISON ENGINEERS	FILE NAME: 1004.015	WORKING NUMBER: E-28	

STATE PROJECT NO.
MASS. 12937102536



ELECTRICAL PROFILE NEAR STATION 104+00

SCALE: 10/1"



ELECTRICAL PROFILE NEAR STATION 194+72

SCALE: 10/1"

Lighting Fixture	Station	Offset	El. above Elevation
120" T1	194+72	120" T1	8.00
120" T1	194+72	120" T1	2.00
120" T1	194+72	120" T1	2.00

AS-BUILT PLANS
 DESIGNED BY: [Signature]
 DATE: [Date]
 DRAWN BY: [Signature]

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
NECKLACE LIGHTING SCHEDULES AND DETAILS
 PROJECT AREA: JACKSON & JACKSON COUNTIES
 DRAWING NO.: 102-27
 SHEET NO.: 39

[Signature]

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-102-2

CODE: (IS)

DATE: 11/22/2017

SUBJECT: **Bidding Requirements and Conditions**

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

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-103-2

CODE: (SP)

DATE: 06/22/2017

SUBJECT: Award and Execution of Contract

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

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-105-1

CODE: (SP)

DATE: 05/07/2021

SUBJECT: Authority of the Engineer

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

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

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-108-4

CODE: (SP)

DATE: 10/07/2020

SUBJECT: Subletting of Contract

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

907-108.01--Subletting of Contract.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-109-3

CODE: (SP)

DATE: 02/23/2021

SUBJECT: Measurement and Payment

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

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

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

907-109.04--Extra Work.

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

907-109.06--Partial Payment.

907-109.06.2--Advancement on Materials. Delete the next to last paragraph of Subsection 109.06.2 on page 95, and substitute the following.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-683-3

CODE: (SP)

DATE: 05/13/2021

SUBJECT: Renovation of Roadway Lighting System

PROJECT: SP-0003-01(205) / 108675301 & 302 -- Harrison and Jackson Counties

Section 683, Lighting Assemblies, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as amended by this special provision is applicable for Renovation of Roadway Lighting Systems Only.

907-683.01--Description. In addition to the requirements set forth in Section 681, the existing high mast, low mast, and/or underpass lighting assemblies shall be renovated and updated with new Light Emitting Diode (LED) type luminaires. The existing luminaires shall be removed and replaced with new equipment that meets current MDOT specifications.

907-683.02--Materials.

907-683.02.1--Luminaires. New luminaires, wired for 480-volt operation and meeting the photometric requirements shown in the plans and in Subsection 723.07, shall be installed, leveled and aimed. The new luminaires shall be LED.

High mast luminaires shall be installed, leveled and aimed as shown in the plans. New wire shall be installed from the terminal box on the luminaire mounting ring to the new fixture. This wire shall be Type SO and rated for 105° C.

Low mast luminaires shall be installed and aimed as shown in the plans.

Underpass luminaires shall be installed and aimed as shown in the plans.

Existing luminaires shall be removed and disposed of by the Contractor. Payment to be absorbed in this pay item.

907-683.02.2--Miscellaneous.

All incidental items necessary for complete and working lighting assemblies shall be provided whether or not mentioned in these specifications.

907-683.03--Construction Requirements. All components of the lighting assemblies shall be installed as shown in the plans, as per manufacturer's guidelines, or in accordance with this specification.

All wiring connection shall be made with approved compression type connectors.

The high mast mounting rings shall be re-leveled after the luminaires have been installed. This shall be done per the lowering device manufacturer's guidelines. Leveling the mounting ring shall ensure the ring will latch and unlatch correctly for future maintenance operations and that the photometrics of the luminaires will be in accordance with the plans.

Low mast and underpass luminaires shall be installed as per the plans.

907-683.04--Method of Measurement. Renovation of Lighting Assembly of the type specified will be measured as a unit per each.

907-683.05--Basis of Payment. Renovation of Lighting Assembly, measured as prescribed above, will be paid for at the contract price per each, which price shall be full compensation for renovation and upgrades to existing lighting assemblies within the project including various work needed on each lighting assembly; for purchasing, installing and testing, for furnishing all materials; for removal and disposal of existing luminaires; for constructing, erecting, installing, connecting and testing; for luminaires, wire, fuses and hardware; for final clean up; and for all equipment, labor, tools and incidentals necessary to return all lighting assemblies to full service.

Payment will be made under:

- 907-683-G1: Renovation of High Mast Lighting Assembly, Type - per each
- 907-683-H1: Renovation of Low Mast Lighting Assembly, Type - per each
- 907-683-I1: Renovation of Underpass Lighting Assembly, Type - per each

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-701-3

CODE: (SP)

DATE: 05/04/2021

SUBJECT: Hydraulic Cement

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

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

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

907-701.02--Portland Cement.

907-701.02.1-General.

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

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

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

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

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

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

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

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

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

Table 1- Cementitious Materials for Soluble Sulfate Conditions or Seawater

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

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

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

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

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

907-701.04--Blended Hydraulic Cement.

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 2- Cementitious Materials for Soluble Sulfate Conditions or Seawater

Sulfate Exposure	Water-soluble sulfate (SO 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. 907-714-1

CODE: (SP)

DATE: 05/25/2021

SUBJECT: Miscellaneous Materials

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

907-714.01--Water.

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

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

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

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

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

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

907-714.01.6--Blank.

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

907-714.15--Geogrids.

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

Geogrid shall be manufactured from an expanded strain hardened monolithic polymer sheet

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

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

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

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

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

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

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

**TABLE II
GEOGRIDS**

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

¹ Minimum design criteria requirement.

² Minimum Average Roll Value (MARV).

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-720-2

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

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.

Replace Existing Lighting Fixtures & Repair Lighting System along US 90 at the Biloxi Bay Bridge, known as State Project Nos. SP-0003-01(205) / 108675301 & SP-0003-01(205) / 108675302 in Harrison & Jackson Counties.

Line no.	Item Code	Adj Code	Quantity	Units	Description[Fixed Unit Price]
Roadway Items					
0010	202-B176		4	Each	Removal of Lighting Controllers
0020	618-A001		1	Lump Sum	Maintenance of Traffic
0030	618-B001		2	Square Feet	Additional Construction Signs (\$5.00)
0040	620-A001		1	Lump Sum	Mobilization
0050	682-F001		4	Each	Secondary Power Controller
0060	907-683-H1007		88	Each	Renovation of Low Mast Lighting Assembly, Type A
0070	907-683-I1001		938	Each	Renovation of Underpass Lighting Assembly, Type A

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

CONDITIONS FOR COMBINATION BID

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

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

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

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

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

COMBINATION BID PROPOSAL

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

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

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

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

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

SECTION 905 - COMBINATION BID PROPOSAL (Continued)

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

For Informational Purposes Only

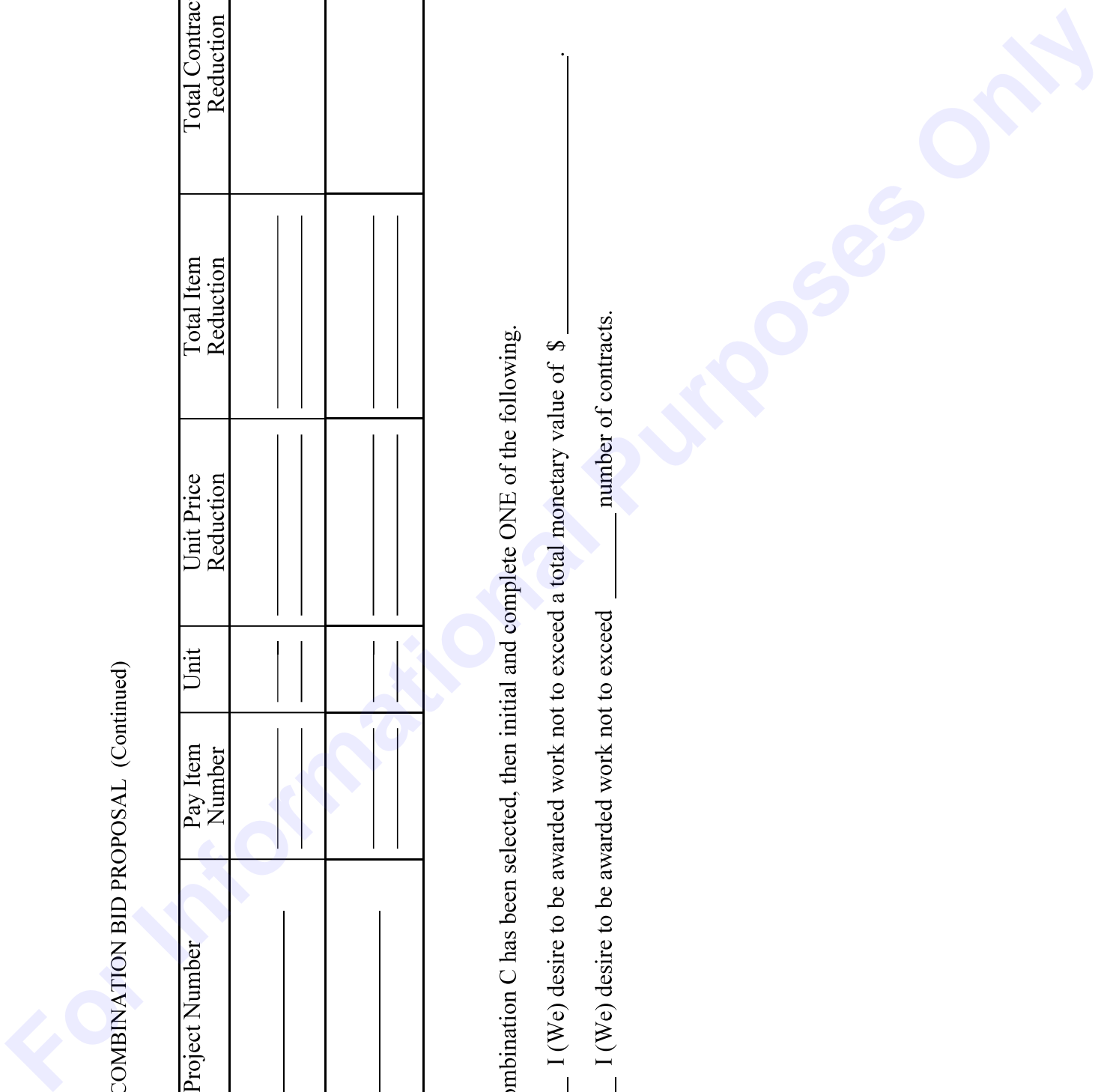
SECTION 905 - COMBINATION BID PROPOSAL (Continued)

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

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

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

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



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

CERTIFICATE

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

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

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

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

Contractor _____

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
CERTIFICATION

I, _____,
(Name of person signing bid)

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

(Name of Firm, partnership, or Corporation)

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

that _____, Bidder
(Name of Firm, Partnership, or Corporation)

on Project No. **SP-0003-01(205)/ 108675301000 & SP-0003-01(205)/ 108675302000**

in **Harrison & Jackson** County(ies), Mississippi, has not either directly or indirectly entered into any agreement, participated in any collusion; or otherwise taken any action in restraint of free competitive bidding in connection with this contract; nor have any of its corporate officers or principal owners.

Except as noted hereafter, it is further certified that said legal entity and its corporate officers, principal owners, managers, auditors and others in a position of administering federal funds are not currently under suspension, debarment, voluntary exclusion or determination of ineligibility; nor have a debarment pending; nor been suspended, debarred, voluntarily excluded or determined ineligible within the past three years by the Mississippi Transportation Commission, the State of Mississippi, any other State or a federal agency; nor been indicted, convicted or had a civil judgment rendered by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.

Do exceptions exist and are made a part thereof? Yes / No

Any exceptions shall address to whom it applies, initiating agency and dates of such action.

Note: Exceptions will not necessarily result in denial of award but will be considered in determining bidder responsibility. Providing false information may result in criminal prosecution or administrative sanctions.

All of the foregoing is true and correct.

(1/2016 S)

SECTION 902

CONTRACT FOR SP-0003-01(205)/ 108675301000 & SP-0003-01(205)/ 108675302000

LOCATED IN THE COUNTY(IES) OF Harrison & Jackson

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: SP-0003-01(205)/ 108675301000 & SP-0003-01(205)/ 108675302000

LOCATED IN THE COUNTY(IES) OF: Harrison & Jackson

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 **Replace Existing Lighting Fixtures & Repair Lighting System along US 90 at the Biloxi Bay Bridge, known as State Project Nos. SP-0003-01(205) / 108675301 & SP-0003-01(205) / 108675302 in Harrison & Jackson Counties.**

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

Signed and sealed this _____ day of _____, 20__

(Principal) (Seal)

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

(Surety) (Seal)

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

(MS Agent)

Mississippi Insurance ID Number

