

FED. ROAD REG. NO.	STATE	PROJECT NO.	SHEET NO.
4	MISS.	MP-6010-23(011)	1

STATE OF MISSISSIPPI

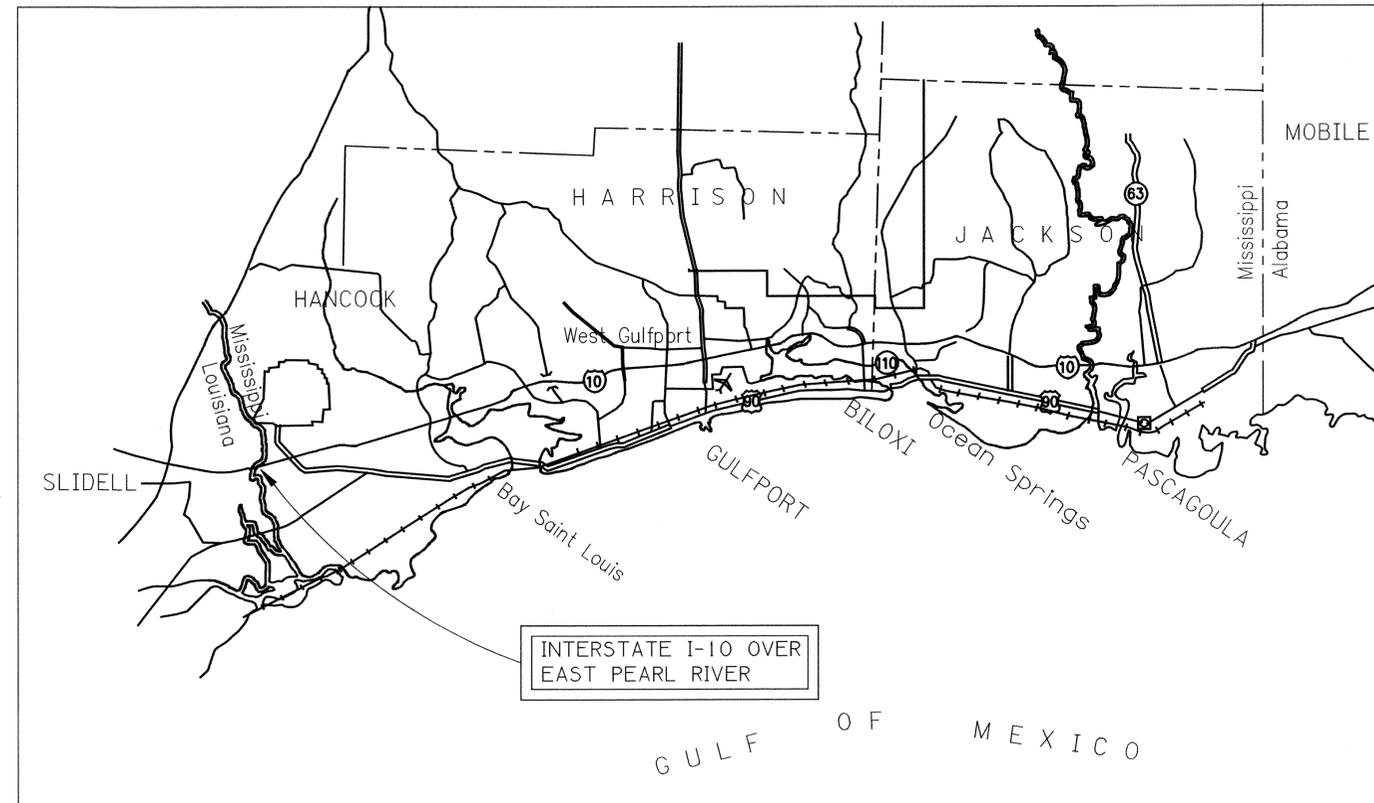
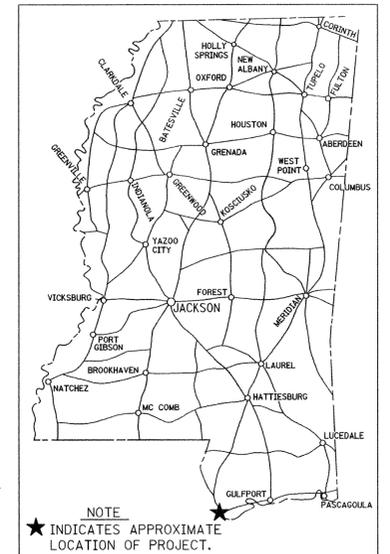
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

# PLANS FOR REHABILITATION OF INTERSTATE I-10 BASCULE BRIDGE MAINTENANCE PROJECT NO. MP-6010-23(011)

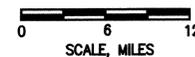
INTERSTATE I-10 OVER EAST PEARL RIVER  
HANCOCK COUNTY

FMS# 303589/301000

① 11-17-08



INTERSTATE I-10 OVER EAST PEARL RIVER



PERMITS ACQUIRED BY MDOT		
WETLANDS AND WATERS PERMITS (NECESSARY FOR ULTIMATE IMPROVEMENTS ONLY):		
	WATERS	WETLANDS
NATIONWIDE #14	N	N
NATIONWIDE (OTHER)*	N	N
GENERAL*	N	N
INDIVIDUAL (404)*	N	N
* ACQUISITION OF PERMITS FOR TEMPORARY IMPACTS DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR		
STORMWATER PERMIT N		
Y	REQUIRED (CNOI SUBMITTED BY MDOT (DISTRIBUTED AREA = 5 ACRES + INTB 6484))	
S	REQUIRED (SCNOI TO BE SUBMITTED BY CONTRACTOR (1 TO 4.99 ACRES) INTB 6483)	
N	NO STORMWATER PERMIT REQUIRED (<1 ACRE)	
APPROVED BY: <i>ATM</i> DATE: 11-17-08		

REVISIONS	BY	APPROVED: <i>Michael M. North</i>	SA, DIV.
		CHIEF ENGINEER	DATE: 11/17/08
		APPROVED: <i>David R. Parnell</i>	DATE: 11/17/08
		EXECUTIVE DIRECTOR	
		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
		APPROVED:	
		DIVISION ADMINISTRATOR	DATE
		FEDERAL HIGHWAY ADMINISTRATION DEPARTMENT OF TRANSPORTATION	

ESTIMATED QUANTITIES			
PAY ITEM NO.	PAY ITEM NAME	QUANTITY	UNIT
907-829-A	Jaw Plates	Lump Sum	Lump Sum

**INDEX OF SHEETS**

WORKING NO.	SHEET NO.	DESCRIPTION
1	1	Title Sheet
2	466	General Notes
3	467	General Plan And Elevation
4	468	Jaw Plate Details
5	469	Temporary Clamping Device & Miscellaneous Details
6	470	Bascule Span Framing Plan And Girder Elevation (Information Only)
7	471	Floorbeam, Girder, And Stringer Details (Information Only)
8	472	Stringer Framing Plan And Elevation (Information Only)
9	473	Slab Plan, Joint, And Curb Modification (Information Only)
10	474	Composite Detail Plan (Information Only)
11	475	Composite Detail Section And Machinery Floor Plan (Information Only)
12	476	Center Lock Details (Information Only)

**WORK WITHIN NAVIGATION CHANNEL:**

It Is Anticipated That Work Will Be Performed From The Existing Access Platforms Under The Bridge Deck, Temporary Removable Platforms If Needed, And From A Snooper Truck Provided By MDOT. See Notice To Bidders For Traffic Control.

The Contractor Is Responsible For Retaining A Mississippi Licensed Professional Engineer To Detail The Design Of All Temporary Removable Platforms. The Contractor Shall Submit The Design Including Details And Calculations For Review To The Engineer.

If Necessary, The Contractor Will Be Permitted To Work Within The Navigation Channel. The Contractor Must Be Able To Clear The Channel Upon Demand By Passing Watercraft. The Contractor Shall Coordinate With The United States Coast Guard (USCG) Regarding Any Work In The Channel. Any Temporary Reductions To The Vertical Or Horizontal Navigation Clearance Must Be Coordinated With The USCG. See Notice To Bidders For Pre Construction Notification Requirements.

Whenever The Contractor Leaves The Work Site, The Bridge Must Be Cleared Of Any Materials, Equipment Or Obstructions That May Be A Hazard To Highway Traffic Or The Navigation Utilizing The Waterway Below. The Contractor Shall Provide To The Department The Names And Telephone Numbers Of Supervisory Personnel That May Be Reached During The Off-Hours In The Event Of A Problem Caused By Their Work. The Contractor Shall Be Required To Dispatch Without Delay The Necessary Personnel At No Cost To The Department To Restore The Bridge To Its Proper Condition.

BRIDGE DIVISION		
REVISIONS		
DATE	SHEET NO.	BY

**TRAFFIC CONTROL:**

The Bridge Accommodates 4 Lanes Of Two-Way Traffic. Traffic Control And A Snooper Truck Will Be Provided By MDOT. Single Lane Short Term Daytime Closures, In Each Direction, Will Be Provided For The Installation And Removal Of The Temporary Clamping Devices And To Complete The Final Installation Of The Jaw Plates At The Outside Main Bascule Girders. See Notice To Bidders For Traffic Control Restrictions and Submittal Requirements.

**BRIDGE FACILITIES:**

Electricity And Basic Lighting Is Not Available At The Bridge. The Contractor Shall Provide His Own Lighting At The Work Areas. There Is No Running Water Or Toilet Facilities On The Bridge.

**PAINTING:**

All New Structural Steel Surfaces Shall Be Cleaned And Then Painted With One Shop Coat Of Inorganic Zinc, One Field Intermediate Coat Of Acrylic Latex And One Field Top Coat Of Acrylic Latex Per Section 814 Of The Specifications. Bolt Holes Shall Be Cleaned And Then Painted With One Shop Coat Of Inorganic Zinc Per The Specifications.

All Existing Structural Steel Surfaces Affected By The Work Shall Be Painted per Section 816 Of The Specifications.

**STRUCTURAL STEEL NOTES:**

Special Attention Is Called To Section 810 Of The Mississippi Standard Specifications Concerning Shop Drawings, Assembly And Erection Of Steel Structures.

Structural Steel Plates And Shapes Shall Conform To A.S.T.M. Designation A709, Grade 50, Unless Otherwise Noted.

Miscellaneous Steel Less Than 1/4 Inch Thick Shall Be Approved By The Bridge Engineer And Shall Be Identified On The Shop Drawings.

All Welding Shall Be Done By The Electric Arc Process And Shall Conform To The ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE, The Latest Edition Of The AASHTO Guide Specification For Highway Bridge Fabrication With High Performance Steel, When Applicable, And As Directed Herein.

Certification For All Welders To Be Used On This Project Shall Be Submitted To The Bridge Engineer.

Field Connections For The Jaw Plates Shall Be Made With 1/2 Inch Diameter High Strength Bolts Per A.S.T.M. A490, Type 1. All Other Field Connections Shall Be Made With 1/2 Inch Diameter High Strength Bolts Per A.S.T.M. A325, Type 1, Unless Otherwise Noted. High Strength Bolts Shall Be Placed With Threaded Ends Protected From The Weather, Where Feasible. See SPECIAL NOTES ON BOLTS, NUTS, WASHERS AND DIRECT TENSION INDICATORS.

Each High Strength Bolt Shall Be Tightened To Provide, When All Bolts In The Joint Are Tight, At Least A Minimum Tension As Follows:  
 1/2" Dia. Bolts --- 51 Kips (A325) & 64 Kips (A490)  
 3/4" Dia. Bolts --- 39 Kips (A325) & 49 Kips (A490)  
 7/8" Dia. Bolts --- 28 Kips (A325) & 35 Kips (A490)  
 1" Dia. Bolts --- 19 Kips (A325) & 24 Kips (A490)

High Strength Bolts, Nuts, Washers And Direct Tension Indicators Shall Be Domestic Products And Shall Be Shipped To The Project Site In Sealed Metal Containers Or Approved Equal. Each Container Shall Be Permanently Marked With The Rotational Capacity Lot Number Such That Identification Will Be Possible At Any Stage Prior To Installation. They Shall Be Stored Out Of The Weather In A Location Approved By The Engineer. The Container Shall Remain Unopened Until The Contents Are Needed For Erection.

**SPECIAL NOTES ON BOLTS, NUTS, WASHERS, AND DIRECT TENSION INDICATORS:**

High Strength Bolts Meeting The Requirements Of A.S.T.M. A325, Type 1, Shall Be Hot Dip Galvanized In Accordance With The Requirements Of A.S.T.M. A153, Class C Coating Or Galvanized By The Mechanical Process In Accordance With The Requirements Of A.S.T.M. B695, Class 50 Coating. Maximum Hardness For High Strength Bolts Shall Be 33 Rockwell C (Rc).

Nuts For A.S.T.M. A490 High Strength Bolts Shall Be Heavy Hex And Meet The Requirements Of A.S.T.M. A563, Grade DH.

Nuts For A.S.T.M. A325 High Strength Bolts Shall Be Heavy Hex And Meet The Requirements Of A.S.T.M. A563, Grade DH Galvanized.

Hardened Steel Washers For A.S.T.M. A490 High Strength Bolts Shall Meet The Requirements Of A.S.T.M. F436.

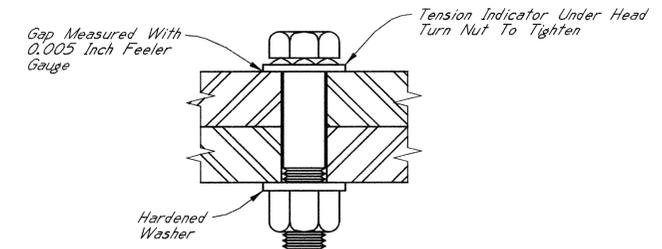
Hardened Steel Washers For A.S.T.M. A325 High Strength Bolts Shall Meet The Requirements Of A.S.T.M. F436, Galvanized.

All Direct Tension Indicators Shall Meet The Requirements Of A.S.T.M. F959. For A.S.T.M. A325 High Strength Bolts, Direct Tension Indicators Shall Be Galvanized By The Mechanical Process Meeting The Requirements Of A.S.T.M. B695, Class 50 Coating.

All Nuts For Galvanized High Strength Bolts Shall Be Tapped Oversize The Minimum Amount Required For Proper Assembly. For Galvanized Bolts, Nuts Shall Be Lubricated With A Lubricant Containing A Dye Of Any Color That Contrasts With The Color Of Galvanizing.

High Strength Bolts, Nuts, Or Direct Tension Indicators Shall Not Be Reused After Tightening.

Mill Test Reports, Certified Test Reports, And Certificates Of Compliance Are Required For High Strength Bolts, Nuts, Hardened Washers And Direct Tension Indicators.



**DIRECT TENSION INDICATOR INSTALLATION**

URS  
 100 S. Wacker Drive, Suite 500  
 Chicago, IL 60606

BY		MISSISSIPPI DEPARTMENT OF TRANSPORTATION	
REVISIONS		I-10 OVER THE EAST PEARL RIVER CENTER LOCK ASSEMBLY REPAIR	
DATE		GENERAL NOTES	
		PROJECT MP-6010-23(011)	
		HANCOCK COUNTY	
		WORKING NUMBER 2	
		SHEET NUMBER 466	
		DESIGNED SBC/JRS DETAILED SBC TRACED SBC	
		CHECKED DEM ISSUED DATE	