

**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.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO. <u>  1  </u>	DATED <u>  8/21/2018  </u>	ADDENDUM NO. <u>          </u>	DATED <u>          </u>
ADDENDUM NO. <u>          </u>	DATED <u>          </u>	ADDENDUM NO. <u>          </u>	DATED <u>          </u>
ADDENDUM NO. <u>          </u>	DATED <u>          </u>	ADDENDUM NO. <u>          </u>	DATED <u>          </u>

Number	Description
1	Revised Table of Contents; Added SP 907-803-2; Revised Bid Items; Revised or Added Plan Sheet Nos. 2,7, & 8001-8003; Amendment EBS Download Required.

TOTAL ADDENDA:   1    
(Must agree with total addenda issued prior to opening of bids)

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.  
BR-0231-00(080)/ 104474301000  
Jackson County(ies)

Revised 01/26/2016

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
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(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET  
OF SECTION 905 AS ADDENDA)

08/21/2018 02:18 PM

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-803-2

CODE: (SP)

DATE: 08/20/2018

SUBJECT: PDA Test Pile and Conventional Load Test

PROJECT: BR-0231-00(080) / 104474301 – Jackson County

Section 803, Deep Foundations, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

## **907-803.03--Construction Requirements.**

### **907-803.03.1--Driven Piles.**

#### **907-803.03.1.9--Determination of Bearing Value of Piling.**

##### **907-803.03.1.9.4--Determination of Bearing Value by Static Load Testing.**

**907-803.03.1.9.4.2--Conventional Static Load Testing of Piling.** Delete Subsections 803.03.1.9.4.2.1, 803.03.1.9.4.2.2, & 803.03.1.9.4.2.3 on pages 908 thru 910, and substitute the following.

**907-803.03.1.9.4.2.1--General.** One pile shall be static load tested with PDA monitoring (one HP 14 x 117) and shall be installed as indicated in the plans to the specified tip elevations or as directed by the Engineer. The sequence of work is as follows:

1. Perform PDA-monitoring during the initial drive installation of the test pile.
2. Perform PDA-monitored restrike 24 hours after initial drive.
2. Drive anchor piles and build reaction frame.
3. Following 7-day minimum waiting period starting after last anchor pile is driven perform a static load test to failure to determine the ultimate bearing capacity of the pile.
4. Perform PDA-monitored restrike 24 hours after completion of the end of the static load test.

Performance requirements related to pile installation, PDA testing, and static load tests and measurement are described in Subsection 803.04.11 -- PDA Test Piles and Conventional Load Test.

### **HP 14 x 117 Static Load Test near Station 494+40**

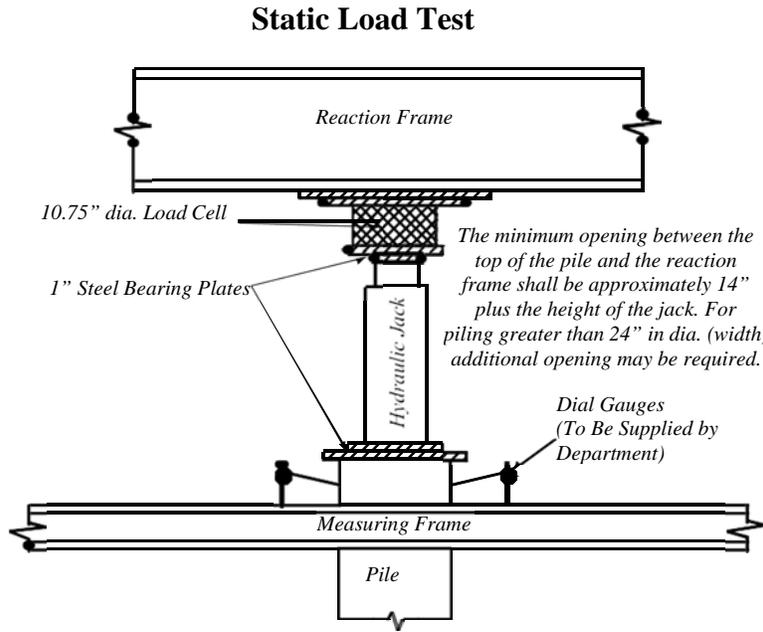
The pile to be static load tested shall be located near Station 494+40 along the existing centerline of S.R. 613 and shall be 80 feet in length. The pile shall be driven to a tip elevation of EL -55.5 feet following the excavation of the existing embankment to EL 14.5 feet. For the HP 14 x 117 pile to be static load tested, the maximum anticipated failure load is 500 kips.

**907-803.03.1.9.4.2.2--Contractor Requirements.** The Contractor shall be responsible for furnishing the following for the static load test:

- (a) A reaction load frame capable of resisting a total load of at least 1.5 times the anticipated failure load called for herein. The frame shall consist of a beam or girder that will carry the above load while sustaining only minor deflections in the reaction system. The beam or girder shall be attached to a system of anchor piles. The anchor piles shall not be closer to the test pile than five times the diameter (width) of the pile to be tested and not less than eight feet (8-feet). See Figure 1 for additional reaction load frame requirements.
- (b) A hydraulic jack that has been calibrated for the full range of anticipated loads in accordance with AASHTO T 67 (ASTM E 4) at least once. The jack shall be capable of applying at least 120% of the maximum anticipated test load (anticipated failure load) called for. The pressure gauge shall be calibrated within one year preceding the time of use and whenever there is a reason to doubt the accuracy of the results. The Contractor shall furnish a certificate of calibration for the hydraulic jack at the time of static load testing. In addition, the Contractor shall furnish a properly constructed load cell in series with the hydraulic jack. The Contractor shall furnish a certificate of calibration for the load cell at the time of static load testing. The calibration shall have been performed to at least the maximum anticipated jack load and within six (6) months of the load test.
- (c) A measuring frame or a reference beam for measuring the movement of the pile during testing. Two dial gauges, supplied by the Department, will be attached to the pile as indicated on Figure 1. Each dial gauge shall be actuated by its stem or by a stem attachment resting on the measuring frame. The supports for the measuring frame shall be placed the maximum practical distance from the test pile and the anchor piles for the reaction load frame. In no case should the measuring frame be affected by movement of the test pile or the anchor piles.
- (d) In the case of an out-of-position pile, the pile shall be removed or cut-off after the completion of all testing such that the remaining pile is at least two feet (2-feet) below the ground or mud line.

**907-803.03.1.9.4.2.3--Methods and Equipment.** Personnel from the Department's Geotechnical Branch will assist in the setup and will be responsible for the running of the test. The Department will be responsible for providing dial gauges and associated measuring instrumentation. The static load test will be performed in accordance with ASTM D 1143-07, Procedure "A - Quick Test Method." Attention is called to ASTM D1143-07, Subsection 9.1.5: *"The test beam(s), reaction frame, anchor piles and other anchoring devices, test boxes, and their connections and supports shall be designed and approved by a qualified engineer and installed to transmit the required loads with an adequate factor of safety."*

A waiting period of at least seven (7) calendar days shall be observed beginning after all the reaction piles have been driven but prior to static load testing.



**Figure 1**

**907-803.05--Basis of Payment.** Add the following to the list of pay items on page 935.

907-803-H: PDA Test Pile and Conventional Load Test

- per each

Bridge Replacement on SR 613 over Black Creek (Bridge No. 13.6), known as Federal Aid Project No. BR-0231-00(080) / 104474301 in Jackson County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
<b>Roadway Items</b>					
0010	201-A001		1	Lump Sum	Clearing and Grubbing
0020	202-A001		1	Lump Sum	Removal of Obstructions
0030	202-B007		5,749	Square Yard	Removal of Asphalt Pavement, All Depths
0040	202-B136		635	Linear Feet	Removal of Guard Rail
0050	202-B191		109	Linear Feet	Removal of Pipe, 8" And Above
0060	203-A001	(E)	4,184	Cubic Yard	Unclassified Excavation, FM, AH
0070	203-EX018	(E)	24,685	Cubic Yard	Borrow Excavation, AH, FME, Class B7-6
0080	206-A001	(S)	126	Cubic Yard	Structure Excavation
0090	206-B001	(E)	30	Cubic Yard	Select Material for Undercuts, Contractor Furnished, FM
0100	209-A005		8,304	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0110	211-B001	(E)	100	Cubic Yard	Topsoil for Slope Treatment, Contractor Furnished
0120	213-C001		3	Ton	Superphosphate
0130	216-A001		289	Square Yard	Solid Sodding
0140	217-A001		640	Square Yard	Ditch Liner
0150	219-A001		3	Thousand Gallon	Watering [\$20.00]
0160	220-A001		6	Acre	Insect Pest Control [\$30.00]
0170	221-A001	(S)	56	Cubic Yard	Concrete Paved Ditch
0180	223-A001		12	Acre	Mowing [\$50.00]
0190	224-A001		1,691	Square Yard	Soil Reinforcing Mat
0200	225-A001		6	Acre	Grassing
0210	225-B001		3	Ton	Agricultural Limestone
0220	225-C001		12	Ton	Mulch, Vegetative Mulch
0230	226-A001		6	Acre	Temporary Grassing
0240	234-A001		5,588	Linear Feet	Temporary Silt Fence
0250	234-C001		450	Linear Feet	Super Silt Fence
0260	237-A002		1,250	Linear Feet	Wattles, 20"
0270	249-A001		20	Ton	Riprap for Erosion Control
0280	403-A003	(BA1)	693	Ton	12.5-mm, ST, Asphalt Pavement
0290	403-A006	(BA1)	942	Ton	19-mm, ST, Asphalt Pavement
0300	403-A015	(BA1)	738	Ton	9.5-mm, ST, Asphalt Pavement
0310	403-C003	(BA1)	250	Ton	19-mm, ST, Asphalt Pavement, Trench Widening
0320	406-A002		46	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0330	407-A001	(A2)	930	Gallon	Asphalt for Tack Coat

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0340	413-E001		94	Linear Feet	Sawing and Sealing Transverse Joints in Asphalt Pavement
0350	423-A001		1	Mile	Rumble Strips, Ground In
0360	501-K001		198	Square Yard	Transverse Grooving
0370	502-A001	(C)	205	Square Yard	Reinforced Cement Concrete Bridge End Pavement
0380	601-B001	(S)	1	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0390	601-B002	(S)	2	Cubic Yard	Class "C" Structural Concrete, Minor Structures
0400	603-ALT003	(S)	148	Linear Feet	18" Type A Alternate Pipe
0410	603-ALT006	(S)	28	Linear Feet	24" Type A Alternate Pipe
0420	603-CA056	(S)	72	Linear Feet	36" Reinforced Concrete Pipe, Class III, Rubber Type Gaskets
0430	603-CB006	(S)	2	Each	36" Reinforced Concrete End Section
0440	605-AA001	(S)	58	Square Yard	Geotextile for Subsurface Drainage, Type III
0450	605-O002	(S)	104	Linear Feet	4" Perforated Sewer Pipe for Underdrains, SDR 23.5
0460	605-P002	(S)	20	Linear Feet	4" Non-perforated Sewer Pipe for Underdrains, SDR 23.5
0470	605-W001	(GY)	4	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type A, FM
0480	606-B001		400	Linear Feet	Guard Rail, Class A, Type 1
0490	606-D022		4	Each	Guard Rail, Bridge End Section, Type I
0500	606-E001		4	Each	Guard Rail, Terminal End Section
0510	615-A002	(S)	40	Linear Feet	Concrete Bridge End Barrier, 33.5"
0520	617-A001		20	Each	Right-of-Way Marker
0530	618-A001		1	Lump Sum	Maintenance of Traffic
0540	619-D1001		389	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0550	619-D2001		343	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0560	619-G4001		48	Linear Feet	Barricades, Type III, Double Faced
0570	619-G7001		6	Each	Warning Lights, Type "B"
0580	620-A001		1	Lump Sum	Mobilization
0590	626-C001		5,400	Linear Feet	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0600	626-D004		2,700	Linear Feet	6" Thermoplastic Traffic Stripe, Skip Yellow
0610	626-E003		3,426	Linear Feet	6" Thermoplastic Traffic Stripe, Continuous Yellow
0620	627-D001		50	Each	Two-Way Yellow Reflective Raised Markers
0630	630-A001		12	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
0640	630-A003		18	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0650	630-C003		99	Linear Feet	Steel U-Section Posts, 3.0 lb/ft
0660	630-F006		22	Each	Delineators, Guard Rail, White

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0670	630-G005		4	Each	Type 3 Object Markers, OM-3R or OM-3L, Post Mounted
0680	699-A001		1	Lump Sum	Roadway Construction Stakes
0690	815-A007	(S)	20	Ton	Loose Riprap, Size 300
<b>ALTERNATE GROUP AA NUMBER 1</b>					
0700	304-F001	(GT)	6,644	Ton	3/4" and Down Crushed Stone Base
<b>ALTERNATE GROUP AA NUMBER 2</b>					
0710	304-F002	(GT)	6,644	Ton	Size 610 Crushed Stone Base
<b>ALTERNATE GROUP AA NUMBER 3</b>					
0720	304-F003	(GT)	6,644	Ton	Size 825B Crushed Stone Base
<b>ALTERNATE GROUP BB NUMBER 1</b>					
0730	605-W002	(GY)	67	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type B, FM
<b>ALTERNATE GROUP BB NUMBER 2</b>					
0740	605-W003	(GY)	67	Cubic Yard	Filter Material for Combination Storm Drain and/or Underdrains, Type C, FM
<b>Bridge Items</b>					
0750	501-K001		933	Square Yard	Transverse Grooving
0770	803-D005	(S)	2,940	Linear Feet	HP 14 x 117 Steel Piling
0780	803-I003	(S)	2	Each	PDA Test Pile, HP Steel Pile
0790	803-J001	(S)	2	Each	Pile Restrike
0800	804-A001	(S)	116	Cubic Yard	Bridge Concrete, Class AA
0810	804-A004	(S)	269	Cubic Yard	Bridge Concrete, Class BD
0820	804-C104	(S)	1,249	Linear Feet	70' Prestressed Concrete Beam, Type III
0830	805-A001	(S)	81,180	Pounds	Reinforcement
0840	813-A002	(S)	424	Linear Feet	Concrete Railing, 32"
0850	815-A007	(S)	3,134	Ton	Loose Riprap, Size 300
0860	815-E001	(S)	2,010	Square Yard	Geotextile under Riprap
8062	907-803-H001	(S)	1	Each	PDA Test Pile and Conventional Load Test



**ADDENDUM**

STATE	PROJECT NO.
MISS	BR-0231-00(080)

**SUMMARY OF QUANTITIES (SHEET 1)**

PAY ITEM NO.	PAY ITEM	UNIT	JACKSON : 104474-301000	
			Prelim	Final
201-A001	Clearing and Grubbing	LS	1	
202-A001	Removal of Obstructions	LS	1	①
202-B007	Removal of Asphalt Pavement, All Depths	SY	5,749	① ②
202-B136	Removal of Guard Rail	LF	635	
202-B191	Removal of Pipe, 8" And Above	LF	109	
203-A001	Unclassified Excavation, FM, AH	CY	4,184	
203-EX018	Borrow Excavation, AH, FME, Class B7-6	CY	24,685	②
206-A001	Structure Excavation	CY	126	
206-B001	Select Material for Undercuts, Contractor Furnished, FM	CY	30	
209-A005	Geotextile Stabilization, Type V, Non-Woven	SY	8,304	
211-B001	Topsoil for Slope Treatment, Contractor Furnished	CY	100	⑥
213-C001	Superphosphate	TON	3	
216-A001	Solid Sodding	SY	289	
217-A001	Ditch Liner	SY	640	
219-A001	Watering	KGAL	3	
220-A001	Insect Pest Control	ACRE	6	
221-A001	Portland Cement Concrete Paved Ditch	CY	56	
223-A001	Mowing	ACRE	12	
224-A001	Soil Reinforcing Mat	SY	1,691	
225-A001	Grassing	ACRE	6	
225-B001	Agricultural Limestone	TON	3	
225-C001	Mulch, Vegetative Mulch	TON	12	
226-A001	Temporary Grassing	ACRE	6	
234-A001	Temporary Silt Fence	LF	5,588	
234-C001	Super Silt Fence	LF	450	
237-A002	Wattles, 20"	LF	1,250	
249-A001	Riprap for Erosion Control	TON	20	
304-F001	3/4" and Down Crushed Stone Base	TON	6,644	④ ⑤
	OR			
304-F002	Size 610 Crushed Stone Base	TON	6,644	④ ⑤
	OR			
304-F003	Size 825B Crushed Stone Base	TON	6,644	④ ⑤
403-A003	12.5-mm, ST, Asphalt Pavement	TON	693	③ ①
403-A006	19-mm, ST, Asphalt Pavement	TON	942	
403-A015	9.5-mm, ST, Asphalt Pavement	TON	738	①
403-C003	19-mm, ST, Asphalt Pavement, Trench Widening	TON	250	①
406-A002	Cold Milling of Bituminous Pavement, All Depths	SY	46	⑦
407-A001	Asphalt for Tack Coat	GAL	930	
413-E001	Sawing and Sealing Transverse Joints in Asphalt Pavement	LF	94	①
423-A001	Rumble Strips, Ground In	MI	1	
501-K001	Transverse Grooving	SY	198	
502-A001	Reinforced Cement Concrete Bridge End Pavement	SY	205	
601-B001	Class "B" Structural Concrete, Minor Structures	CY	1	
601-B002	Class "C" Structural Concrete, Minor Structures	CY	2	

- ① Bridge # 13.6 Sta. 492+63 , 6@19' Spans Concrete Span Timber Piles
- ② INCLUDES 25% SHRINK FACTOR
- ③ INCLUDES 5 TONS FOR DRIVES
- ④ INCLUDES 5018 TON FOR SUBGRADE, 1566 TON FOR SHOULDERS, AND 60 TONS FOR DRIVEWAYS QUANTITY INCREASED BY 20%
- ⑤ TO BE USED AS DIRECTED BY THE ENGINEER FOR ADDITIONAL TOPSOIL THAT IS NEEDED AFTER THE EXISTING TOPSOIL HAS BEEN USED.
- ⑦ TIE-INS FOR BOP & EOP



Date	Revision	By
08/21/2018	REVISED PAY ITEM	DB
07/27/2018	ADDED FOOTNOTE ITEMS	DB
07/27/2018	ADD, DELETE, & REVISE PAY ITEMS	DB

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**  
**SUMMARY OF QUANTITIES**

Proj No: BR-0231-00(080)  
 County: JACKSON

Design Team BROWN Checked Date  
 FILENAME : SQ613.DGN

Working Number SQ-1  
 Sheet Number 7

# ADDENDUM

<i>DESCRIPTION OF SHEETS SPECIAL DESIGN SHEETS ~ BRIDGE DRAWINGS</i>	<i>WORKING NUMBER</i>	<i>SHEET NUMBER</i>
<i>DETAILED INDEX (BRIDGE)</i>	<i>DI-BR-1</i>	<i>8001</i>
<i>SUMMARY OF QUANTITIES (BRIDGE)</i>	<i>SO-BR-1</i>	<i>8002</i>
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	<i>ECBR-2</i>	<i>8019</i>
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BRIDGE DIVISION REVISIONS		
DATE	SHEET NO.	BY
8/20/2018	8002 - 8003	MRD

BY	REVISION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
 BRIDGE AT STA. 492+61.88  
 SR 613 ACROSS BLACK CREEK  
 DETAILED INDEX (BRIDGE)

FMS: **104474 / 301000**  
 COUNTY: **JACKSON**  
 PROJECT NUMBER: **BR-0231-00(080)**

DESIGNER: Chris Dansereau CHECKER: Shaneel Yaus  
 DETAILER: Chris Dansereau ISSUE DATE: 2015-01-12  
 PROJECT NO: BR-0231-00(080) BRIDGE NUMBER: SR 613  
 DEP. DIR. OF STRUCTURES: JOSE STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

WORKING NUMBER: **DJ-BR-1**  
 SHEET NUMBER: **8001**



# ADDENDUM

STATE	PROJECT NO.
MISS	BR-0231-00(080)

## SUMMARY OF QUANTITIES

PAY ITEM NO.	PAY ITEM	UNIT	QUANTITIES	
			PRELIMINARY	FINAL
<b>BRIDGE SUMMARY</b>				
501-K001	Transverse Grooving	SY	933	
803-D005	HP 14 x 117 Steel Piling	LF	2,940	
907-803-H001	PDA Test Pile and Conventional Load Test	EA	1	
803-I003	PDA Test Pile, HP Steel Pile	EA	2	
803-J001	Pile Restrike	EA	2	
804-A001	Bridge Concrete, Class AA	CY	116	
804-A004	Bridge Concrete, Class BD	CY	269	
804-C104	70' Prestressed Concrete Beam, Type III	LF	1,249	
805-A001	Reinforcement	LBS	81,180	
813-A002	Concrete Railing, 32"	LF	424	
815-A007	Loose Riprap, Size 300	TON	3,134	
815-E001	Geotextile under Riprap	SY	2,010	



08/20/2018	Revised Pay Item	B3
Date	Revision	By
MISSISSIPPI DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES (BRIDGE ITEMS) <b>PROJECT BR-0231-00(080)</b> <b>104474-301000</b>		
JACKSON County DESIGNER Trent Wixom, PE CHECKER Barbara Jones, PE DETAILER ISSUE DATE 12-13-2017		
WORKING NUMBER		8002
SHEET NUMBER		SQ-BR-1
DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER, P.E. DEP. DIR. OF STRUCTURES, ASST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.		

## ADDENDUM

### GENERAL NOTES:

Mississippi Standard Specifications for Road and Bridge Construction, 2017.  
No change of plans will be permitted except by written approval of the Director of Structures, State Bridge Engineer. Minor changes in detail of design or construction procedure may be authorized by the Director of Structures, State Bridge Engineer provided such changes will not be cause for contract price adjustment.  
The final surface texture of the bridge deck shall be mechanically transverse grooved in accordance with Sections 501 and 804 of the specifications. See Misc. Span Details for limits of transverse grooving on bridge deck. Bridge concrete shall be class "AA" or "BD" as indicated in plans. Railing expansion joint material shall be bituminous fiber type unless otherwise noted.  
No payment will be allowed for excavation incidental to the construction of end bents.  
Bar bending details shall be in accordance with "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315R-94).  
Reinforcement order lists and required placing plans shall be furnished in accordance with Section 805 of the Mississippi Standard Specifications. Partial submittals are not acceptable.  
Shop drawings of prestressed beams, including an erection plan, shall be submitted in duplicate to the Director of Structures, State Bridge Engineer for approval prior to the manufacture of beams. The fabricator shall provide camber data at release and immediately after notification from the Director of Structures, State Bridge Engineer.  
The Contractor shall provide camber data after erection. The Contractor should be aware that the deflection diagram may be modified based on the provided camber data. Therefore, deck grades should be set only after notification from the Director of Structures, State Bridge Engineer.  
Concrete surfaces shall receive a Class 2 rubbed or spray finish in accordance with the specifications.  
Reinforcing steel shall be ASTM A615, Grade 60, unless otherwise noted.  
Work for which no pay item is provided in the proposal will not be paid for directly and compensation therefor will be included in the prices and payments for bid items.

### NOTE:

The girder deflection diagrams shown in these plans were prepared and intended for design and estimation purposes only. Actual bridge girder deflections may differ from the deflection diagrams shown in these plans.  
It is the Contractor's responsibility to construct the bridge to meet the requirements of the plans and specifications including, but not limited to, the requirements for bridge deck smoothness.  
Prior to formwork construction, the Contractor shall submit three (3) copies of a proposed BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN to the Director of Structures, State Bridge Engineer for review, through the Project Engineer. This submittal shall include all calculations, assumptions and parameters used by the Contractor to determine bridge girder deflections and form grade elevations. Information in this submittal shall be used by the girder fabricator to prepare steel girder shop drawings. This submittal shall also include an erection and construction procedure that addresses the construction means and methodologies used by the Contractor and shall consider effects including, but not limited to, construction phasing, pouring schedules, applied permanent and construction loading, and shall include calculations and details of temporary girder bracing systems used to ensure girder stability and to counter the effects of girder tilt and web distortion. This submittal shall also include calculations and details of temporary falsework used during superstructure construction.  
After girder erection and prior to deck construction, the Contractor shall submit deck thickness verification calculations for each girder. These calculations shall include a comparison of the erected girder top flange profiles versus the plan deck grade elevations over each girder plus the anticipated girder deflection due to applied permanent dead load.  
Three (3) copies of the deck thickness verification calculations and any proposed remediation measures to correct for thin deck areas shall be submitted to the Director of Structures, State Bridge Engineer for review, through the Project Engineer.  
The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN and the deck thickness verification calculations shall be prepared and stamped by a Mississippi Registered Professional Engineer.

### PILE NOTES:

Test piles shall be driven as permanent piles at the location shown in the PDA TEST PILE SCHEDULE and will be paid for as test piles only.  
The Director of Structures, State Bridge Engineer may authorize Test piles driven outside the structural limits.  
Test piles shall be driven as a continuous operation, to the bearing capacity, and the tip elevations shown in the PDA TEST PILE SCHEDULE, unless otherwise directed by the Director of Structures, State Bridge Engineer.  
Permanent piles shall be driven to an elevation no higher than the elevation shown in the REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE.  
The tip elevation of piling, for hydraulic structures, may be determined by the scour line.  
When feasible, bearing piles shall be driven full length and be spaced, only, as approved by the Director of Structures, State Bridge Engineer.  
Welding shall be done by the ELECTRIC ARC process. Welders shall be certified and electrodes shall be approved.  
A static load test will be required and performed according to ASTM D1143/D1143M. The reaction frame must be capable of resisting one 1.5 times the anticipated failure load of the static load test. Anchor piles shall be no closer than eight (8) feet to the pile being tested. The static load test will be performed no less than 7 calendar days following the installation of the last anchor pile. Installation of the test piles shall be monitored with PDA during the initial drive in addition to a twenty-four (24) hour restrrike following completion of the static load test.  
PDA test piles shall require a 1 day and 7 day restrrike unless otherwise directed by the Engineer.  
Pile lengths and driving criteria shall be provided based on the results of the static load test and PDA Test Piles.  
The required ultimate pile bearing shown in the REQUIRED ULTIMATE PILE BEARING AND TIP ELEVATION SCHEDULE includes the LFPD resistance factor for a static load test and PDA of O.C.  
Pile hammer leads used for all PDA test piles and PDA restrikes shall be large enough to provide a minimum of 3' of clearance on each side of the pile in order to properly place and protect PDA gages.  
Steel HP piles shall be driven with a maximum rated energy no less than 10,000 ft-lbs. To the tip elevations specified unless the Contractor's drivability analysis utilizing the Contractor's selected alternative hammer is approved by the Director of Structures, State Bridge Engineer.  
Static Test Piles include PDA monitoring during the initial drive and a 24-hour restrrike following completion of the static load test.

### NOTE:

For additional pile encasement details see Working No. 2.

Bent No.	Min. Lgth.-Ft.	Tip Elevation
3	85	-55.5
4	80	-56.0

STA	Min. Lgth.-Ft.	Tip Elevation
494+40	80	-55.5

### REQUIRED ULTIMATE PILE BEARING CAPACITY AND TIP ELEVATION SCHEDULE

Bent No.	Pile type	Pile Size	Req'd Bearing (Tons)	Estimated Length	Minimum Tip Elevation	Controlling Limit	LFPD Resistance Factor
1	Steel	HP14"x11.7"	122.0	70'	-12.9	Strength I	0.80
2	Steel	HP14"x11.7"	236.0	70'	-17.3	Strength I	0.80
3	Steel	HP14"x11.7"	236.0	70'	-17.3	Strength I	0.80
4	Steel	HP14"x11.7"	122.0	70'	-12.9	Strength I	0.80

### ESTIMATED QUANTITIES

Item	Transverse Grooving	PDA Test Pile And Conv. Load Test Each	HPI4X11.7 Steel Piling	PDA Test Pile Restrike Each	Bridge Concrete Class AA	C.Y.	Bridge Concrete Class BD	Reinforce-ment	Concrete Paving, 32	Loose Riprap (300%)	Geotextile Under Riprap
Location	S.Y.	Each	L.F.	Each	C.Y.	C.Y.	Concrete Beams Type III	Lbs.	L.F.	Ton	S.Y.
Spans	933.33		2,170.0	1	70.41	269.11	1,248.50	66,770	420.00	3,134	2,010
End Bents		1	770.0	1	45.17			10,977	4.33		
Int. Bents				2	115.58	269.11	1,248.50	3,433	424.33		
Total	933.33	1	2,940.0	2				81,180			

BY	REVISION	DATE	WORKING NUMBER
MFD	Revising ppy Item.	10-20-2018	1 OF 15
			SHEET NUMBER
			8003

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
BRIDGE AT STA. 492+61.88  
SR 613 ACROSS BLACK CREEK  
ESTIMATED QUANTITIES &  
GENERAL NOTES

FMS: **104474 / 301000**  
COUNTY: **JACKSON**  
PROJECT NUMBER: **BR-0231-00(080)**

DESIGNER: **Chris Damsoreau** CHECKER: **Shane Yates**  
DATE: **2016-01-19** ISSUE DATE: **2016-01-19**  
DETAILER: **Chris Damsoreau** BRIDGE ENGINEER: **Chris Damsoreau**  
DEP. DIR. OF STRUCTURES, 1051 STATE BRIDGE ENGINEER - SCOTT WESTERFIELD, P.E.

