

Bid To:

Lincoln County Board of Supervisors

301 1st Street

Brookhaven, Ms 39601

Bid For:

State Aid Project No. LSBP – 43(48)

Chestnut Lane SW

Bridge and Approaches

Bid By:

Baker Pile Driving and Site Work LLC

1051 Ronald Reagan Hwy.

Covington, La 70433

Mississippi Certificate of Responsibility:

15845-MC

Bid Attached – March 15 2021

10:00 AM

BOARD OF SUPERVISORS

_____ LINCOLN _____ County

Rev. Jerry L. Wilson	District <u>1</u>	Nolan Earl Williamson	District <u>3</u>
Jerry McGehee	District <u>2</u>	Doug Falvey	District <u>5</u>
<u>C. E. "Eddie" Brown</u> District <u>4</u> <small>President</small>			

Office of State Aid Road Construction
 Jackson, Mississippi
 and
 Board of Supervisors

_____ LINCOLN _____ County

**PROPOSAL AND CONTRACT
 DOCUMENTS**

FOR THE CONSTRUCTION OF

State Aid Project No. _____ Strike out if no Federal Funds Involved LSBP-43(48)

Being a Section of County Road CHESTNUT LANE SW

On Route No. _____

In LINCOLN County MISSISSIPPI

Type of Construction BRIDGE & APPROACHES



Net Length 0.113 Miles

Gross Length 0.113 Miles Contract Time 75 Working Days

By _____

Address _____

Surety _____

Note

Standard Specifications for State Aid Road and Bridge Construction currently approved by the Office of State Aid Road Construction and the Federal Highway Administration are made a part hereof fully and completely as if attached hereto, except where superseded by the Special Provisions, or amended by revisions.

BIDDER CHECKLIST FOR STATE FUNDED PROJECTS

(ITEMS REQUIRING COMPLETION AND/OR SIGNATURE AT BID LETTING)

<p>This checklist is to assist the contractor in the submission of a complete Bid Proposal. This checklist in no way relieves the contractor of the responsibility to submit a complete Proposal. Failure to complete any or all of the applicable requirements will be cause for the proposal to be considered irregular.</p>			
<u>If Submitting a Paper Bid</u>		<u>If Submitting a Bid Electronically</u>	
<input type="checkbox"/>	Envelope has required information on outside and is <u>sealed</u> . (See Subsection S-102.01 and S-102.09)	<input type="checkbox"/>	Include a cover sheet as the first page of the .pdf document containing the same information required on the outside of the envelope for a paper bid submission. (See Subsection S-102.01 and S-102.09)
<input type="checkbox"/>	Bid Proposal submitted containing entire proposal document bound and in order received.	<input type="checkbox"/>	Bid Proposal submitted as a .pdf document containing entire proposal document as received (in order received) including front cover.
<input type="checkbox"/>	Affidavit regarding Non-Collusion, Debarment and Suspension, etc. executed (signed and notarized) in duplicate .	<input type="checkbox"/>	Affidavit regarding Non-Collusion, Debarment and Suspension, etc. executed (signed and notarized) in duplicate .
<input type="checkbox"/>	EEV Certification	<input type="checkbox"/>	EEV Certification
<input type="checkbox"/>	Section 902 Proposal - Complete the following	<input type="checkbox"/>	Section 902 Proposal - Complete the following
<input type="checkbox"/>	Bid sheets : unit prices and item totals, subtotals and project totals, etc. entered.	<input type="checkbox"/>	Bid sheets : unit prices and item totals, subtotals and project totals, etc. entered.
<input type="checkbox"/>	Combination Bid Proposal of Section 902, where applicable: completed and signed for each project which is to be considered in combination. (See Subsection S-102.11)	<input type="checkbox"/>	Combination Bid Proposal of Section 902, where applicable: completed and signed for each project which is to be considered in combination. (See Subsection S-102.11)
<input type="checkbox"/>	Section 902 Proposal, page 3: completed and <u>signed</u> .	<input type="checkbox"/>	Section 902 Proposal, page 3: completed and <u>signed</u> .
<input type="checkbox"/>	Proposal Guaranty (Bid Bond) : attached. (See Subsection S-103.05)	<input type="checkbox"/>	Proposal Guaranty (Bid Bond) : attached. (See Subsection S-103.05)
<input type="checkbox"/>	Any issued addenda included and acknowledged as required.	<input type="checkbox"/>	Any issued addenda included and acknowledged as required.
<input type="checkbox"/>	Non-resident Bidders: ON STATE FUNDED PROJECTS ONLY, a copy of the current laws regarding any preference for local Contractors from State wherein domiciled have been included. (See Subsection S-103.01)	<input type="checkbox"/>	Non-resident Bidders: ON STATE FUNDED PROJECTS ONLY, a copy of the current laws regarding any preference for local Contractors from State wherein domiciled have been included. (See Subsection S-103.01)
<p>DO NOT REMOVE any part of the contract documents. A stripped proposal is considered as an irregular bid and will be cause for rejection.</p>		<p>INCLUDE ALL PARTS of the contract documents. A stripped proposal is considered as an irregular bid and will be cause for rejection.</p>	

Revised December 20, 2018

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

(12/14/2020)

LOCAL SYSTEM BRIDGE PROJECT NO. LSBP-43(48)
LINCOLN COUNTY

MISSISSIPPI STANDARD SPECIFICATION FOR STATE AID ROAD AND BRIDGE
CONSTRUCTION, 2004 EDITION
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OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
AND
LINCOLN COUNTY BOARD OF SUPERVISORS

SECTION 900

NOTICE TO CONTRACTORS:

Sealed bids will be received by the Board of Supervisors of Lincoln County, Mississippi at the Lincoln County Courthouse, Brookhaven, Mississippi, until 10:00 AM on the 15th day of March, 2021 and shortly thereafter publicly opened for the construction of 0.113 miles of BRIDGE & APPROACHES on the CHESTNUT LANE SW being known as Project No. LSBP-43(48) in Lincoln County, Mississippi.

PRINCIPAL ITEMS OF WORK ARE APPROXIMATELY AS FOLLOWS:

ITEM	QUANTITY	UNIT
<u>ROADWAY ITEMS:</u>		
MOBILIZATION	LUMP SUM	LS
CLEARING AND GRUBBING	LUMP SUM	LS
REMOVAL OF BRIDGE @ STA. 12+99.47	1.000	UN
UNCLASSIFIED EXCAVATION (PM)	1,033.000	CY
BORROW EXCAVATION (CONTRACTOR FURNISHED, LVM, CLASS 7)	128.000	CY
EXCESS EXCAVATION (LVM)	1,081.000	CY
GRANULAR MATERIAL (LVM), (CLASS 4, GROUP B)	815.000	CY
18" REINFORCED CONCRETE PIPE, CLASS III	80.000	LF
ROADWAY CONSTRUCTION SURVEYING	LUMP SUM	LS
RIGHT-OF-WAY MARKERS (TYPE II)	11.000	EA
MAINTENANCE OF TRAFFIC	LUMP SUM	LS
ADDITIONAL CONSTRUCTION SIGNS	0.000	SF
REFLECTORIZED TRAFFIC OBJECT MARKER (ENCAPSULATED LENS) (TYPE 3)	4.000	EA
<u>EROSION CONTROL ITEMS:</u>		
COMMERCIAL FERTILIZER (13-13-13)	1.350	TON
SEEDING	1.350	AC
VEGETATIVE MATERIALS FOR MULCH	4.050	TON
SOLID SODDING	100.000	SY
TEMPORARY SILT FENCE (TYPE II) (AOS 0.15-0.84)	1,395.000	LF
WATTLES, 20 INCH	100.000	LF

SECTION 900
PROJECT NO. LSBP-43(48)
LINCOLN COUNTY

BRIDGE ITEMS:

TEST PILE	2.000	EA
CONVENTIONAL STATIC PILE LOAD TEST	0.000	EA
14" PRESTRESSED CONCRETE PILING	520.000	LF
18" PRE-FORMED PILE HOLES	160.000	LF
19' PRECAST CONCRETE SLAB UNIT, 3'-6" INTERIOR	12.000	EA
31' PRECAST CONCRETE SLAB UNIT, 3'-6" INTERIOR	6.000	EA
19' PRECAST CONCRETE SLAB UNIT, CURB	4.000	EA
31' PRECAST CONCRETE SLAB UNIT, CURB	2.000	EA
BEAM TYPE RAILING WITH CONCRETE POSTS	138.000	LF
29' PRECAST CONCRETE CAP, INTERMEDIATE UNIT, CONCRETE PILE	2.000	EA
29' PRECAST CONCRETE CAP, END UNIT, CONCRETE PILE	2.000	EA
7.5' PRECAST CONCRETE WING	4.000	EA
LOOSE RIPRAP, 300 LB.	264.000	TON
GEOTEXTILE UNDER LOOSE RIPRAP, (TYPE V) (AOS <0.43), NON-WOVEN	320.000	SY

PROJECT NO. LSBP-43(48)
LINCOLN COUNTY

NOTICE TO CONTRACTORS:

CONTRACT TIME: 75 Working Days

BASIS OF AWARD

The award, if made, will be made to the lowest qualified bidder on the basis of published quantities.

The Board of Supervisors hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprise 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, or national origin in consideration for an award.

PLANS AND SPECIFICATIONS are on file in the Office of the Chancery Clerk of Lincoln County, the LSBP Engineer's office and the Office of the State Aid Engineer, 412 E. Woodrow Wilson Avenue, Jackson, Mississippi or Official bid documents can be download from Central Biddings at www.centralbidding.com. This project shall be constructed in accordance with the latest edition of the Mississippi Standard Specifications for State Aid Road and Bridge Construction.

PLANS AND PROPOSALS may be secured from Ryan Holmes, LSBP Engineer for Lincoln County, Mississippi, 120 E. Chickasaw Street, Brookhaven. The Cost is fifty dollars (\$50.00) for plans and fifty dollars (\$50.00) for the proposal, non-refundable

Electronic bids can be submitted at www.centralbiddings.com. For any questions relating to the electronic biddings process, please call Central Bidding at 225-810-4814.

Certified check or bid bond for five percent (5%) of the total bid, made payable to Lincoln County and the State of Mississippi must accompany each proposal.

Bidders are hereby notified that any proposal accompanied by letters qualifying in any manner the condition under which the proposal is tendered will be considered an irregular bid and such proposal will not be considered in making the award.

C.E. "Eddie" Brown, President
Lincoln County Board of Supervisors

Publish on:
February 10, 2021
February 17, 2021

SPECIAL NOTICE TO BIDDERS

CONSTRUCTION SAFETY AND HEALTH STANDARDS

It is a condition of this contract, and shall be make a condition of each subcontract entered into pursuant to this contract, that the contractor and any subcontractor shall not require any laborer or mechanic employed in performance of the contract to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health or safety, as determined under the following Federal regulations:

1. (a) Occupational Safety and Health Standards, Department of Labor, Occupational Safety and Health Administration, Federal Register or October 18, 1972, pages 22102 to 22356.

(b) General Industry Guide for Applying Safety and Health Standards, OSHA Publication No. 2072, U. S. Department of Labor, Occupational Safety and Health Administration.
2. Safety and Health Regulations for Construction, Department of Labor, Occupational Safety and Health Administration, Federal Register of December 16, 1972, pages 27503 to 27600.
3. Safety and Health Standards for Maritime Employment, Department of Labor, Occupational Safety and Health Administration, Federal Register of October 19, 1972, pages 22458 to 22564.

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 1

DATE: July 1, 2005

SUBJECT: BIDDING REQUIREMENTS AND CONDITIONS

REFERENCE: Section S-102.02 of 2004 Edition of the Standard Specifications for Road and Bridge Construction

NOTICE TO BIDDERS
(ALL PROJECTS)

The current (2004) Edition of the Mississippi Standard Specifications for State Aid Road and Bridge Construction adopted by this Office on July 1, 2005, and approved by the Federal Highway Administration on July 1, 2005 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 herein. Copies of the specification book may be purchased from the Office of State Aid Road Construction.

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 inadvertently contain references to the 1982 or 1989 Edition of the Mississippi Standard Specifications for State Aid Road and Bridge Construction, it is to be understood that such references shall mean the comparable provisions of the 2004 Edition of the Standard Specifications.

NOTICE TO BIDDERS
(FEDERAL AID PROJECTS)

The Contractor and sub-contractors shall submit one copy each of FORMS CAD-880, "Weekly Summary of Wage Rates" and CAD-881, "Weekly Statement of Compliance" each week to the State Aid Engineer and to the County Engineer. The Contractor and sub-contractors may at their discretion, submit two (2) copies of each form to the County Engineer, who in turn, shall forward one copy to State Aid. The forms may be obtained from:

Office Supervisor
Office of State Aid Road Construction
P.O. Box 1850
Jackson, Mississippi 39215-1850

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 2

DATE: July 1, 2004

SUBJECT: HIGH VOLTAGE OVERHEAD LINES

**NOTICE OF WORK TO BE PERFORMED
IN PROXIMITY OF HIGH VOLTAGE POWER LINES**

In accordance with Section 45-15-1, et seq., Mississippi Code of 1972 (as amended effective July 1, 1988), _____ (herein after referred to as "Applicant") (Supervisor in Charge: _____), whose address is _____, and whose telephone number is _____, hereby gives notice to the electric utility (hereinafter referred to as "Utility") that Applicant will be performing functions or activities at the location of _____ and that the estimated starting date of this work is _____. This work could reasonably be expected to cause persons, equipment or parts of tools or materials to be brought within ten (10) feet of Utility's high voltage lines at the proposed work area. Applicant hereby requests the Utility to confer with Applicant or his representative at the work site to ascertain the type of work activity that will take place and if further safety measures need to be taken by either the Applicant or the Utility. The Utility will give the Applicant a written cost estimate for safety arrangements to deter contact with on-site power lines. Applicant agrees not to perform such functions or activities until mutually satisfactory arrangements as provided by Section 45-15-9 have been made to deter contact with Utility's line.

Nothing contained in this Notice shall diminish or affect the obligation imposed upon the Utility under Section 45-15-1, et seq., or under existing laws or be construed as a waiver of the Applicant's or the Utility's rights under the law.

NOTICE GIVEN THIS, the _____ day of _____, _____.

APPLICANT

BY: _____

(Title)

Notice received by the Utility this the _____ day of _____, _____

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 3

DATE: DECEMBER 14, 2020

SUBJECT: SPECIALTY ITEMS

PROJECT: LSBP-43(48) COUNTY: LINCOLN

Pursuant to the provisions of Section S-108 of the Mississippi Standard Specifications for State Aid Road and Bridge Construction, 2004 Edition, the following work items are hereby designated as "Specialty Items" for this contract.

<u>PAY ITEM NO.</u>	<u>DESCRIPTION</u>
<u>S-607-A</u>	<u>Roadway Construction Surveying</u>
<u>S-617-A</u>	<u>Right-of-Way Markers (Type II)</u>
<u>S-618-A</u>	<u>Maintenance of Traffic</u>
<u>S-618-B</u>	<u>Additional Construction Signs</u>
<u>S-212-B</u>	<u>Commercial Fertilizer (13:13:13)</u>
<u>S-214-A</u>	<u>Seeding</u>
<u>S-215-A</u>	<u>Vegetative Materials for Mulch</u>
<u>S-226-A</u>	<u>Solid Sodding</u>
<u>S-233-A</u>	<u>Temporary Silt Fence (Type II) (AOS 0.15-0.84)</u>
<u>237-A</u>	<u>Wattles, 20 Inch</u>
<u>S-815-A</u>	<u>Loose Riprap, 300 Lb.</u>
<u>S-815-E</u>	<u>Geotextile under Loose Riprap, Type V AOS 0.21-0.43</u>

(7-01-2004)

**DIVISION OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 5 – LSBP-43(48)

DATE: DECEMBER 14, 2020

SUBJECT: **STATUS OF UTILITY ADJUSTMENT AND RIGHT-OF-WAY
ACQUISITION**

I All known utilities within the construction limits of this project are shown on the plans.
The owners and addresses of these utilities are as follows:

1. AT&T
512 BROOKMAN DRIVE
BROOKHAVEN, MS 39601
(601) 823-0801

2. MAGNOLIA ELECTRIC POWER ASSOCIATION
3027 HWY 98 WEST
SUMMIT, MS 39666
(601) 684-5535

2. The Status of the adjustment of each of the utilities is as follows:
The utility companies have agreed to move utilities as needed.

Subsection S-105.06 of the 2004 edition of the Standard Specifications provide for cooperation between the Contractor and Owner of utilities. All utility agreements are available for inspection by the Contractor in the Chancery Clerk's office. Additional assistance may be obtained from associate members, by contacting the following:

**MISSISSIPPI ONE-CALL CENTER
BEFORE YOU DIG CALL:
MS 1-800-227-6477 JACKSON 362-4374
OUT-OF-STATE 1 800-445-1988**

II. Lincoln County has certified to the Office of State Aid Road Construction that it has title to all Rights-of-Way within the limits shown on the plans for this project.

(7-01-2004)

Section 900
Notice to Bidders No. 6

OFFICE OF STATE AID ROAD CONSTRUCTION

January 6, 2021

In accordance with Senate Bill No. 2241 of the Mississippi Legislature Regular Session 1981, the industry wide current petroleum products base prices for contracts for the month of January 2021 are furnished as follows.

FUELS

	<u>Per Gallon</u>	<u>Per Liter</u>
Gasoline	\$1.7057	\$0.4506
Diesel	\$1.9073	\$0.5039

MATERIALS OF CONSTRUCTION

<u>ASPHALT CEMENT</u>	<u>Per Gallon</u>	<u>Per Ton</u>	<u>Per Liter</u>	<u>Per Metric Ton</u>
Viscosity Grade AC-5	\$1.7598	\$417.50	\$0.4649	\$460.21
Viscosity Grade AC-10	\$1.7745	\$421.00	\$0.4688	\$464.07
Viscosity Grade AC-20	\$1.7766	\$421.50	\$0.4693	\$464.62
Viscosity Grade AC-30	\$1.7387	\$412.50	\$0.4593	\$454.70
Grade PG-64-22	\$1.7408	\$413.00	\$0.4599	\$455.25
Grade PG-67-22	\$1.7440	\$413.75	\$0.4607	\$456.07
Grade PG-76-22	\$2.3604	\$560.00	\$0.6236	\$617.28
Grade PG-82-22	\$2.7046	\$641.67	\$0.7145	\$707.31
<u>EMULSIFIED ASPHALTS, PRIMES, & TACK COATS</u>				
Grade SS-1	\$2.2114		\$0.5842	
Grade RS-2C (CRS-2)	\$2.0761		\$0.5484	
Grade CRS-2P	\$2.4403		\$0.6447	
Grade EA-1, EPR-1, & AE-P	\$3.3000		\$0.8718	
Grade CSS-1 & 1H (Undiluted)	\$2.0260		\$0.5352	
Grade CSS-1 & 1H (Diluted 1 to 1 Fog Seal)	\$1.7400		\$0.4597	

EARL GLENN, P.E.
STATE CONSTRUCTION ENGINEER

EG: tmb

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 7

DATE: July 1, 2004

SUBJECT: PAYMENTS TO SUBCONTRACTORS

Bidders are hereby advised that each month, the Contractor will submit to the County/LSBP Engineer form OCR-484-SA certifying payments to all subcontractors. Form OCR-484-SA can be obtained from the Office Of State Aid Road Construction, MDOT Lab Building, 412 Woodrow Wilson Avenue, Jackson, MS, or on the State Aid website (<http://www.osarc.state.ms.us>) under Documents->Forms->State Aid Forms.

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 8

DATE: November 8, 2011

SUBJECT: Errata and Modifications to the 2004 Edition of the Standard Specifications for State Aid Road and Bridge Construction

<u>Page</u>	<u>Subsection</u>	<u>Change</u>
1-21	S-103.02	In the third line of the last paragraph, change "contracts in the same" to "contracts, financed wholly with State funds, in the same".
1-42	S-105.17	In line (b) of the third paragraph, add "claim." at the end of the sentence.
1-47	S-106.04	In the next to last paragraph, change "TMD-22-0100-000" to "TMD-22-01-00-000" and change "TMD-21-0100-000" to "TMD-21-01-00-000".
1-84	S-109.06.2	In the eleventh line of the second paragraph, change "of material invoices" to "of paid material invoices".
<u>1-85</u>	<u>S-109.08</u>	Replace 4 th paragraph in it's entirety with "The established base prices for bituminous products and fuels shall be the prices for the month prior to the month of the bid date and are available on the State Aid Website."
1-87	S-109.08	On page 1-87, insert the following after item (A6) and before the paragraph in the middle of the page: "(A7) Asphalt for Fog Seal Mixture -- One half pay quantity in gallons."
1-87	S-109.08	Delete the last paragraph on the page in toto.
1-88	S-109.08	Under ADJUSTMENTS, change paragraph 5 to read as follows: No adjustment will be made for items of work accomplished after the expiration of Contract Time except for cases involving natural or manmade disasters or other reasons not inherent to the construction industry. The contractor will submit documentation for the adjustment to the Engineer for approval/disapproval. If approved, the Engineer will prepare a supplemental agreement explaining the adjustment and submit the proper number of copies of the agreement to the Board of Supervisors for their consideration and action. If approved by the Board, all copies will be forwarded to the State Aid Engineer for concurrence. Upon concurrence, the State Aid Engineer will, if necessary, forward the agreement to any other involved parties for their action. A copy of the approved agreement will be furnished to all parties by the State Aid Engineer.
2-7	S-202.07	In the first sentence of the first paragraph, change "S-202" To "S-202-A". In the first sentence of the second paragraph, delete "S-202-A".

<u>Page</u>	<u>Subsection</u>	<u>Change</u>
3-30	S-308.15	In the third pay item, change "per square yard**" to "per square yard". In the fourth pay item, change " <u>S-308-B-1</u> " to " <u>S-308-B-2</u> ".
<u>4-8</u>	<u>S-401.02.4</u>	At the end of the third sentence, delete the "." and add "and as a base course."
4-8	S-401.02.4	In the table at the end of the Subsection, for the 19 mm, change "2 ¼" to "2 ½" in the Minimum and change "3" to "3 ½" in the Maximum; for the 12.5 mm, change "2" to "2 ½" in the Maximum; for the 9.5 mm, change "1 ½" to "2" in the Maximum; and for the 4.75 mm, change "¾" to "1 ¼" in the Maximum.
4-23	S-401.03.1.4	In the first paragraph, change "92.0 percent" to "the specified percentage (92.0 or 93.0)".
4-32	S-403.03.3	In the first sentence of the second paragraph, change "acceptance and pavement" to "acceptance and payment".
4-45	S-409.02.2	Change "PG 64-22" to "PG 67-22".
6-2	S-601.06	In the first sentence, change "S-804.03" to "S-804.03.5".
6-7	S-602.05	Change the subsection reference for Bending from "S-805.05" to "S-805.03.2".
6-9	S-603.02	Change the subsection reference for Joint Mortar from "707.02" to "714.11".
<u>6-15</u>	<u>S-603.09</u>	After second sentence, add "All lift holes shall be filled and/or sealed to the satisfaction of the Engineer."
6-78	S-620.06	Change the first sentence of the second paragraph, from "Legend will be measured by the square foot.", to "Legend will be measured by the linear foot or square foot, as applicable."
6-78	S-620.07	In the sixth pay item, change "S-620-E-1" to "S-620-E-2".
7-17	S-702.12	In TABLE I, under the heading of Test, in the second line change "140°F, poises" to "275°F, C _s ".
7-20	S-703.02.1	In line (1) of the first paragraph, change "set-out" to "set out".
7-25	S-703.04.2	In the fifth paragraph, delete "S-703.04.3 and".
7-52	S-708.02.1.2	In the first sentence change "20 percent" to "25%".
7-104	S-714.13.1	Delete the fourth paragraph.
7-154	S-721.02.3.7	Delete Subsection S-721.02.3.7--Ground Plates in toto.
8-37	S-803.03.2.6	In the first sentence of the second paragraph, change "S-803.03.1.5.1" to "S-803.03.2.5".
8-45	S-803.04.1	Delete the second paragraph and replace with the following: Test piles which require extensions or building up will not be measured for additional payment. Splices required for the extensions will not be measured for payment.

<u>Page</u>	<u>Subsection</u>	<u>Change</u>
		No measurement for payment will be made for cut-off of a test pile.
8-50	S-803	Under <u>COMPENSATION</u> , In the seventh pay item, change " <u>S-803-G: Blank</u> " to " <u>S-803-G: Concrete Piling Cut-off, Size</u> - per each "
8-60	S-804.02.11	In the last sentence of the first paragraph, change "automatically" to "automatic".
8-64	S-804.02.13	In the second line of paragraph (c), place a period after psi and delete "provided both the QC and QA test results are equal to or exceed the minimum compressive strength requirements."
8-66	S-804.02.13.1.3	In the last sentence change, "S-804.02.13.1" to "S-804.02.12".
8-67	S-804.02.13.1.5	Change the equation for % Reduction to:
		$\% \text{ Reduction} = \frac{(f'_c - X)}{f'_c} \times 100$
8-121	S-806.04	In the first sentence of the third paragraph, change "by the unit (one unit consists of one wing on each side and end of the abutment cap)" to "per each".
8-121	S-806.08	Change " <u>S-806.08--Basis of Payment</u> ." to " <u>S-806.05--Basis of Payment</u> ."
8-122	S-806.08	In the first pay item, change " _ _ ' Interior" to " ___ ' Interior".
<u>8-122</u>	<u>S-806.08</u>	On pay item S-806-H, add "or Steel Posts"

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 10

DATE: July 1, 2005

SUBJECT: MONTHLY ESTIMATE RETAINAGE

The monthly retainage for this project shall be two and one half (2-1/2) percent (%) subject to the provisions found in Subsection S-109.06.3--Retainage on page 1-84 of the 2004 Edition of the Mississippi Standard Specifications for State Aid Road and Bridge Construction.

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 11

DATE: **November 19, 2009**

SUBJECT: **CERTIFICATION OF 100 % PAYMENT TO SUBCONTRACTORS**

Bidders are hereby advised that within thirty (30) days of any Subcontractor completing 100% of any subcontracted work, the Prime Contractor shall make full payment to the Subcontractor (including retainage), complete the following certification, attach it to form OCR-484-S or OCR-484-SA, as applicable, and submit it to the County/LSBP Engineer. Retainage on the subcontract will then be released to the Prime Contractor on a subsequent estimate.

CERTIFICATION OF 100% OF PAYMENT TO SUBCONTRACTOR

Date: _____
Project No.: _____
County: _____
Prime Contractor: _____
Subcontractor: _____

I, _____, hereby certify
(Printed or typed name of Subcontractor)

that I have been paid 100% (including retainage) of the amount of work subcontracted on the above mentioned project in the amount of _____ and that I was paid within thirty (30) Days of when I completed said work.

(Signature of Subcontractor)

(Signature of Prime Contractor)

Falsification of this Certification is subject to prosecution.

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 16

DATE: November 3, 2008

SUBJECT: Safety Apparel

Bidders are advised that the Code of Federal Regulations CFR 23 Part 634 final rule was adopted November 24, 2006 with an effective date of November 24, 2008. This rule requires that **“ All workers within the right of way of a Federal-Aid Highway who are exposed either to traffic (vehicles using the highway for the purposes of travel) or to construction equipment within the work area shall wear high-visibility safety apparel”**. High-visibility safety apparel is defined in the CFR as **“personnel protective safety clothing that is intended to provide conspicuity during both daytime and nighttime usage, and that meets the Performance Class 2 or 3 requirements of the ANSI/ISEA 107-2004 publication entitled American Nation Standard for High-Visibility Safety Apparel and Headwear”**. All workers on County right-of-way shall comply with the Federal Regulation. Workers are defined by the CFR as **“people on foot whose duties place them within the right-of-way of a Federal-Aid Highway, such as highway construction and maintenance forces, survey crews, utility crews, responders to incidents within the highway right-of-way, and law enforcement personnel when directing traffic, investigating crashes, and handling lane closures, obstructed roadways, and disasters within the right-of-way of a Federal-Aid Highway”**.

You can access this final rule at the following link:

<http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/E6-19910.pdf>

**OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

NOTICE TO BIDDERS NO. 18

DATE: March 11, 2020

SUBJECT: TRANSPORTATION AND DRIVING OF PRESTRESSED CONCRETE PILES

Bidders are hereby advised that prestressed concrete piling shall not be transported until at least **TWO DAYS** after the concrete has reached a compressive strength of 5,000 psi or greater strength when shown on the plans.

Prestressed concrete piles shall not be driven until the concrete is **FOURTEEN (14) DAYS OLD** and has reached the compressive strength stated on the plans.

Documentation as described in S-804.03.22.10 that allows for the transport and driving of the prestressed concrete piles shall be furnished to the **CONTRACTOR** and the **COUNTY ENGINEER** upon delivery of the piles to the construction site. The Engineer's personnel will make visual inspection of each prestressed concrete pile at the construction site.

The **CONTRACTOR** shall inform the prestressed concrete pile **MANUFACTURER** of these requirements.

Supplemental Specification
901-S-102-1
Bidding Requirements and
Conditions

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: March 11, 2010

SUBJECT: Bid Bond Agent

Delete the first sentence of the second paragraph of S-102.08 on page 1-19, and substitute the following:

If a bid bond is offered as guaranty, the bond must be on a form approved by the State Aid Engineer, made by a Surety, and must be acceptable to the Board and the State Aid Engineer and signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent and the bidder.

Supplemental Specification
901-S-103-1
Award and Execution of
Contract

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: March 11, 2010

SUBJECT: Contract Bond Agent or Liability Insurance Agent

Delete the last sentence of the paragraph of S-103.05 on page 1-22, and substitute the following:

The bond or bonds shall be negotiated for, procured from, signed or countersigned by, and the premium paid to a Mississippi Agent or Qualified Nonresident Agent of the Surety.

Delete the last sentence of the first paragraph of S-103.06.1 on page 1-22, and substitute the following:

Each policy shall be signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent of the insurance company.

Delete the last sentence of the second paragraph of S-103.06.1 on page 1-23, and substitute the following:

Each policy shall be signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent of the insurance company.

Supplemental Specification
901-S-104-1
Removal and Disposal of Structures
and Obstructions

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 1, 2005

SUBJECT: Changes in Character of Work and Changed Physical Conditions and Removal and Disposal of Structures and Obstructions:

Section S-104 - **SCOPE OF WORK**; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-104.02.1--Changes in Character of the Work and Changed Physical Conditions: Delete the last sentence of the first paragraph and add the following paragraphs:

Upon written notification, the Engineer will investigate the conditions, and if it is determined that the conditions materially differ and cause an increase or decrease in the cost or time required for the performance of any work under the contract, an adjustment, excluding anticipated profits, will be made and the contract modified in writing accordingly. The Engineer will notify the Contractor, in writing, of the determination whether or not an adjustment of the contract is warranted.

No contract adjustment which results in a benefit to the contractor will be allowed unless the contractor has provided the required written notice.

In the second paragraph, after the words " cannot be reached," delete "the State Aid Engineer" and insert "the Board, with the approval of the State Engineer,". Then delete the words "which the State Aid Engineer has" and insert "which the Board and the State Aid Engineer have".

901-S-104.05--Removal and Disposal of Structures and Obstructions: After the last paragraph on page 1-27, add the following paragraph:

The Contractor shall also furnish the Engineer a certified letter stating that the area of disposal is not in a wetland.

901-S-104.06--Rights in and Use of Materials Found on the Work: After the first sentence of the third paragraph insert the following sentence:

The Contractor shall also furnish the Engineer a certified letter stating that the area of disposal is not in a wetland.

**SPECIAL PROVISION NO. 901
S-107-1 PROJECT NO. LSBP-43(48)
LINCOLN COUNTY, MISSISSIPPI**

DATE: 12-14-2020

SUBJECT: STORM WATER POLLUTION PREVENTION PLAN

Site Information:

The construction of the project will disturb 1.35 acres. The project is located on Chestnut Lane SW in Lincoln County and is located in Section 10, Township 6 North, Range 7 East, Lincoln County, Mississippi and crosses Bogue Chitto River Tributary.

Sediment and Erosion Control Requirements:

VEGETATIVE CONTROL: Permanent erosion controls such as soil preparation, fertilizing, seeding and mulching will occur on all disturbed areas of the project. Solid sodding will be placed as shown on the plans after grading is complete. Any disturbed areas laid-up for over 30 days and not ready for planting of permanent grass will be seeded with temporary seeding as directed by the Engineer at no additional cost to the project.

STRUCTURAL CONTROLS: Temporary silt fences and wattle ditch checks are set up on the plans as a pay item to be placed as shown on the attached sheets or as directed by the Engineer. Check dams, diversions and detention ponds will be placed on the project as directed by the Engineer, these structural controls shall be placed at no cost to the project. Installation and maintenance of these structural controls will follow the guidelines set out in Part II, Section 2 of the "SWPPP Guidance Manual for Construction Activities" published by the Office of Pollution Control, Mississippi Department of Environmental Quality.

HOUSEKEEPING PRACTICES: The Contractor is reminded of his responsibilities as outlined in Section 107 of the Specifications which include equipment maintenance and repair, concrete chute wash-off, trash/debris, storage of chemicals and other toxic materials and sanitary facilities. Storm water pollution prevention best management practice techniques are to be applied through out the construction of this project. The cost of which is to be included in the regular bid items.

POST CONSTRUCTION CONTROL MEASURES: Upon completion of construction, vegetative growth along the roadway foreslopes will provide a buffer zone for loose material originating from the roadway. Ditch diversions reduce flow and velocity along the project. Vegetative growth on the backslopes provides a buffer zone for loose material originating beyond the backslope. Flatter grades and ditch treatment

minimize erosion. Portland cement paved ditches with rock outlet can be required to dissipate energy and reduce flow velocity.

IMPLEMENTATION SEQUENCE: Temporary silt fence will be installed before construction operation begins along the river and at all cross-drains. The rest of the silt fence, hay bales and detention ponds will be installed immediately after clearing and grubbing are complete. Hay bale ditch checks are to be installed in the roadway ditches immediately after they are cut to grade. Permanent erosion control measures should be placed as construction progresses and no later than seven (7) days after substantial completion of grade and drain operations.

MAINTENANCE PLAN: The Contractor and Engineer will inspect all disturbed areas, erosion and sediment controls after each significant rainfall but not less than once per week and record the results of this inspection on the Monthly Inspection Report and Certification Form for Erosion and Sediment Controls, included with the project. The monthly inspection reports and this SWPPP will be available for inspection during construction and submitted to MDEQ with the Notice of Termination as required. The Contractor shall make needed repairs to install erosion control items weekly and after each significant rainfall as necessary. This includes, but is not limited to removing sediment, repairing, reinstalling, or replacing silt fence, hay bales or other temporary erosion control measures, repairing washes, ditches or other permanent erosion control devices.

OFFICE OF STATE AID ROAD CONSTRUCTION

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 01, 2005

SUBJECT: Material Pits:

Section S-107- LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-107.23--Material Pits: Delete the first and second paragraph on page 1-66 and replace with the following paragraphs:

Before a pit (quarry) is opened (area cleared or overburden disturbed), furnish to the County Engineer a letter from the Executive Director of the Department of Archives and History, P. O. Box 571, Jackson, Mississippi 39205 (telephone number 601/576-6850), stating that the pit site is satisfactory from an archaeological and historical standpoint. Additionally, the contractor will furnish the Engineer either a copy of the " Notification of Exempt Operations" or a copy of the (permanent or temporary) Class II Permit approval from the Mississippi Department of Environmental Quality, Office of Geology.

For material pits located in Clarke, Covington, Forrest, George, Greene, Hancock, Harrison, Jackson, Jones, Lamar, Pearl River, Perry, Stone and Wayne Counties, the Contractor will be required to make special considerations regarding gopher tortoises. In addition to the normal required documentation associated with material pits, the Contractor shall, for each site used to obtain or dispose of materials associated with material pits located in these Counties, provide the Engineer with a letter from a qualified biologist certifying that the site was inspected prior to any clearing of vegetation or disposal of project materials and that the site is not inhabited by gopher tortoises, or appropriate avoidance measures have been installed. No individual lacking the proper State or Federal license shall touch or otherwise harass a gopher tortoise.

All costs involved in obtaining letters of clearance shall be born by the Contractor

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 10, 2006

SUBJECT: Permits, Licenses and Taxes:

Section S-107- LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-107.02-Permits, Licenses and Taxes. Delete in toto Subsection 107.02 on page 1-50, and substitute the following:

Except as provided in S-107.09, and S-107.22, the Contractor or Subcontractor shall procure all permits and licenses, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful prosecution of the work. At any time during the life of this contract, State Aid may audit the Contractor's or Subcontractor's compliance with the requirements of this section.

The Contractor or Subcontractor is advised that the "Mississippi Special Fuel Tax Law", Section 27-55-501, et seq. and the Mississippi Use Tax Law, Section 27-67-1, et seq., Mississippi Code of 1972, Annotated, and their requirements and penalties apply to any contract or subcontract for construction, reconstruction, maintenance or repairs, for contracts or subcontracts entered into with the State of Mississippi, any political subdivision of the State of Mississippi, or any Department, Agency, Institute of the State of Mississippi or any political subdivision thereof.

The Mississippi State Tax Commission will be notified of the name and address of Contractors or any Subcontractors that are awarded State Aid contracts. The Contractor or Subcontractor will be subject one or more audits during the life of this contract to make certain that all applicable fuel taxes are being paid promptly as outlined in Section 27-55-501, et seq., Mississippi Code of 1972, Annotated, and any sales and/or use taxes, as outlined in Section 27-67-1, et seq., Mississippi Code of 1972, Annotated are being paid in compliance with the law.

OFFICE OF STATE AID ROAD CONSTRUCTION

DATE: March 13, 2019

SUBJECT: Construction Surveying

The MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows: In the middle of page 6-39 remove "Section S-607 – Blank." and add the following:

SECTION S-607 – CONSTRUCTION SURVEYING

S- 607.01--Description. This work consists of performing all calculations and other work necessary to establish and/or verify all horizontal and vertical control data; and furnishing, placing and maintaining roadway construction surveying and/or bridge, box bridge, or box culvert construction surveying, necessary for the proper prosecution of all features and items of the work under contract. This shall include, but not be limited to, grades and drainage structure locations, lengths, elevations and skews. When the contract includes a pay item for roadway construction surveying as provided herein, any references in other sections of the Standard Specifications to establishment of control points or construction surveying "by the Engineer", or "Engineer" or "County Engineer" shall be construed to mean "by the Contractor".

S-607.02--Materials. The Contractor shall furnish all personnel, materials, equipment and devices necessary for determining, establishing, setting, checking and maintaining points, lines, grades and layout of the work. All surveying equipment shall be properly adjusted and suited for performing the work required. Traffic control necessary for the proper execution of the work shall be furnished by the Contractor without separate measurement for payment. Stakes shall be of sufficient length, thickness and quality to serve the purpose for which they are being used. Nails, cotton picker spindles, rebar, wire flags or other materials may be used as appropriate to the purpose of marking and preserving layout locations as needed.

S-607.03--Construction Requirements.

S-607.03.1--General. The County Engineer will establish, one time only, secondary control points with elevations at distances not to exceed 1000 feet or that minimum distance necessary to maintain inter-visibility. For bridge work, the Engineer's field control will consist of a stationed baseline reference point near each end of the bridge(s) and one accessible bench mark near each bridge site. The Contractor shall verify the accuracy of the control points before proceeding with the layout for construction.

When errors are discovered and control points do not agree with the plans, the Contractor shall promptly notify the Engineer in writing, and explain the problem in detail. The Engineer will advise the Contractor within five (5) working days of any corrective actions that may be deemed necessary.

The Contractor will be responsible for verifying and modifying, as necessary to best fit existing field conditions, lengths, locations, elevations and skew angles of all drainage structures shown on the construction plans. All junction box and inlet locations and heights shall also be verified and modified as necessary to fit existing field conditions. Modifications to the plans shall not be made without the consent of the County Engineer. The Contractor will not be responsible for determining the size of drainage structures, but should immediately report any suspected error to the Engineer. Heights of fill over drainage structures shall be checked to verify class of pipe, bedding and the appropriate standard and/or modified standard drawing(s) required in the construction with any differences from the plans being reported to the Engineer.

The Contractor shall perform work necessary to verify alignment and plan grades on all roadway intersections and tie-ins. Any discrepancies in grades, alignment, location and or dimension detected by the Contractor shall immediately be brought to the attention of the Project Engineer.

The Contractor shall employ sufficient qualified personnel experienced in highway surveying and layout to complete the work accurately. The Contractor shall also determine and provide all additional grade controls and staking operations necessary to secure a correct layout and construction of the work. All minor variations in layout and grades required to meet field conditions shall be resolved with the Engineer and shall not be considered justification for adjusting contract price or time.

Examples of minor variations in layout and grades are:

- (a) Adjustment of drainage or other structure length, alignment, and flow line elevation.
- (b) The adjustment of grades and alignment at roadway intersections, cross-overs, railroad crossings, interchanges, existing bridges and roadways.
- (c) Adjustment of curve data.

The Contractor will be responsible for calculating and laying out all additional lines, grades, elevations and dimensions necessary to construct the work required in the plans. All grades and other layout data computed by the Contractor shall be recorded and a copy of this data shall be furnished, with sufficient time for checking, to the Engineer before field work is started. The originals of all data shall be furnished to the Engineer on or before final inspection for the Engineer's permanent file. The Contractor shall also furnish personnel to assist the Engineer in taking tolerance verification checks or other notes to determine whether specified tolerances are met. Any inspection or checking of the Contractor's layout by the Engineer and the approval of all or any part of it will not relieve the Contractor of the responsibility to secure proper dimensions, grades, and elevations of the several parts of the work.

Prior to beginning construction on any structure that references to an existing structure or topographical feature, the Contractor shall check the pertinent location and grades of the existing structures or topographical features to determine whether the location and grade shown on the plans are correct.

The Contractor shall stake centerline control at each station, BOP, EOP, PC, PT, SC, CS, TS, ST, and equations just before field cross sectioning by the Engineer for both original and final cross sections.

The Contractor shall furnish "as built" finish centerline elevations to the Engineer prior to final inspection of the project.

The Contractor shall set stakes and/or flags on the right-of-way line at each station and right-of-way break or as directed by the Engineer before clearing operations are started on any section of roadway.

The Contractor shall exercise care in the preservation of stakes and bench marks and shall reset them when they are damaged, lost, displaced or removed. The Contractor shall use competent personnel and suitable equipment for the layout work required and shall provide that it be performed under the supervision of, or directed by, a Registered Professional Engineer or Registered Land Surveyor who is duly registered and entitled to practice as a Professional Engineer or Professional Land Surveyor in the State of Mississippi. The duties performed by said Registrant shall conform to the definitions under the "practice of engineering" and practice of "land surveying" in Mississippi Law.

The Contractor shall not engage the services of any person in the employ of the Engineer for the performance of any of the work covered by this Section or any person who has been employed by the Engineer within the past six months except those who have legitimately retired during this period. All cross sections, measurements, and tickets required for determining pay quantities will be the responsibility of the Engineer.

The Engineer reserves the right to check any or all of the Contractor's layout work for accuracy and shall be assisted by the Contractor's personnel in such checking. When errors or discrepancies are found, the Contractor will take measures necessary to correct, at no expense to the County or State, any construction that has been performed using the improper layout. Any inspection, checking and approval thereof by the Engineer of work for which the Contractor is responsible will not relieve the Contractor of responsibility to secure correct dimensions, grades, elevations, alignments and locations of the work for satisfactory completion of the project and as a condition for final acceptance by the Engineer.

S-607.03.2--Conventional Surveying. In addition to the requirements set forth in Subsection 607.03.1, the following shall be required when using the conventional staking method.

On grading projects, the Contractor shall set slope stakes at each station and at the beginning and end of curves. Closer intervals will be required for sharp changes in grades or alignment, widening and certain other geometric details.

The Contractor shall set subgrade blue tops on centerline, break points and at the left and right subgrade shoulder lines at intervals of not more than 100 feet on tangents and intervals of not more than 50 feet in curves. The Engineer may require closer intervals for sharp changes in grades or alignment, widening, or super elevation.

The Contractor shall furnish personnel to assist the Engineer in taking stringline and other notes to determine whether specified tolerances are met

On paving contracts, the Contractor shall set subgrade, base and paving blue tops. The base and pavement grade stakes shall be set on intervals in accordance with the requirement of the Engineer.

S-607.03.3--Automated Machine Guidance. In addition to the requirements set forth in Subsection 699.03.1, the Contractor may submit a request to use Automated Machine Guidance (AMG) equipment and methods to complete the work. A comprehensive written request shall be submitted to the Engineer for review at least 30 days prior to expected use. The Engineer will have to approve the submittal prior to the Contractor performing any AMG work.

The Engineer shall have final authority to approve or not allow the use of AMG equipment and methods under the specification.

S-607.04--Method of Measurement. Construction Surveying will be measured as a lump sum quantity. When Pay Item No. 607-A, Roadway Construction Surveying, is provided in the contract, measurement

shall include the staking of all bridges, box bridges and box culverts, including any detour bridges, or detour run arounds, which are a part of the contract.

S-607.04.1--Roadway Construction Surveying. Roadway Construction Surveying will be measured for payment in accordance with the following schedule:

- (a) Monthly estimate # 1, 25 percent of the amount bid for Roadway Construction Surveying will be paid.
- (b) Monthly estimate # 2, 50 percent of the amount bid for Roadway Construction Surveying will be paid.
- (c) After the Contractor has earned 50 percent of the original value of all direct pay items, the amount paid on later monthly estimates will be based on the contract percent complete.

S-607.04.2--Bridge Construction Surveying. Bridge Construction Surveying will be measured for payment in accordance with the following schedule:

- (a) Monthly estimate # 1, 35 percent of the amount bid for Bridge Construction Surveying will be paid.
- (b) Monthly estimate # 2, 75 percent of the amount bid for Bridge Construction Surveying will be paid.
- (c) After the Contractor has earned 75 percent of the original value of all direct pay items, the amount paid on later monthly estimates will be based on the contract percent complete.

S-607.05--Basis of Payment. Construction Surveying, measured as prescribed above, will be paid for at the contract lump sum price, which shall be full compensation for completing the work.

Payment will be made under:

- S-607-A: Roadway Construction Surveying - lump sum
- S-607-B: Bridge Construction Surveying - lump sum

DATE: June 08, 2020

SUBJECT: SUPPLEMENTAL TO TRAFFIC CONTROL PLAN

The road will be closed to thru traffic throughout the project. The contractor shall install signs and barricades as shown on the Traffic Control Plan Sheet No. 2-B. There are no houses, business, public facilities, etc., located along the section of the road, which is to be closed to all traffic. The only traffic, which will need to have access along the closed section of roadway, shall result from the contractors operation or the need of the property owners along this route to maintain their property or operation. There will be no trucks, equipment, supplies, or material parked or stored within close proximity of a traveled lane in use of public traffic except for vehicles or supplies actually engaged in the work when construction is in progress. The specific requirement of the contractors responsibility are as required by Subsections S-104.04; S-105.15; S-107.07 and S-107.10; Sheet No. 2-B of the contract drawings and Part VI of the MUTCD, Latest Edition. The requirements of this sheet do not alter or in any way change the requirements of the foregoing or any other requirements of the contract, except as specifically stated herein as an alteration or change.

Barricades shall be placed as shown on Traffic Control Plan.

Within three weeks of a traffic related accident occurring within the limits of the project, the contractor shall provide the County Engineer with a copy of an accident report for each accident. If analysis of the accident report by appropriate personnel reveals that corrective action is required, the contractor shall proceed immediately with same.

Randy L. Emfinger is designated as the responsible person to insure the contractor constructs, installs, and maintains the devices called for on the Traffic Control Plan. An inspection of the traffic control signs and devices shall be performed at periods not exceeding one week regardless of construction activity within the project.

Supplemental Specification
901-S-708-1
Non-Metal Drainage Structures

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 10, 2006

SUBJECT: Non-Metal Drainage Structures:

Section S-708 - NON-METAL STRUCTURES AND CATTLEPASSES; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-708.02.3.2--Marking: Delete the second sentence of Subsection 708.02.3.2 on page 7-53, and substitute the following:

Machine made Pipe shall be marked in accordance with one of the following methods: 1) the pipe shall be inscribed on the outside of the pipe and stenciled on the inside of the pipe, or 2) the pipe shall be inscribed on the inside of the pipe, only. All other pipe may be stenciled.

901-S-708.22.2--Exceptions to AASHTO: Delete the sixth paragraph of Subsection 708.22.2 on page 7-61.

Supplemental Specification
901-S-714-1
Geotextile Certification

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: July 1, 2005

SUBJECT: Geotextile Certification:

Section S-714 - MISCELLANEOUS MATERIALS; of the MISSISSIPPI STANDARD SPECIFICATION FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-714.13.10--Acceptance By Certification. After the second sentence of Subsection S-714.13.10 on page 7-105 insert the following:

Additionally, at least one certified test report, as per S-700.05.2, for each manufacturer's lot shall be furnished to the Engineer by the Contractor at no additional cost to the project.

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 10, 2006

SUBJECT: **Miscellaneous Materials:**

Section S-714-MISCELLANEOUS MATERIALS; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

Delete Subsection 714.07 on page 7-92 and substitute the following:

901-S-714.07--Other Cementitious Materials:

901-S-714.07.1--Metakaolin:

901-S-714.07.1.1--Metakaolin--General: Metakaolin shall only be used to bring the cementitious materials in Portland cement concrete and cement for soil stabilization into compliance with the requirements for cementitious materials exposed to soluble sulfate conditions. The approval of each metakaolin source shall be on a case by case basis as determined by the MDOT State Materials Engineer. Source approval will be based on, but not limited to, review of the proposed source's quality control program, production history, certified test reports, certification of shipment from the supplier, and job control sampling and testing requirements.

The Contractor shall provide suitable means for storing and protecting the metakaolin against dampness and contamination Metakaolin which has become partially set, caked, or contains lumps shall not be used.

The MDOT State Materials Engineer shall be notified in writing of the nature, amount and identity of any processing, or other additions made to the metakaolin during production.

Metakaolin from different sources shall not be mixed or used alternately in any one class of construction or structure without written permission from the Engineer. In addition to these requirements, metakaolin shall meet the following specific requirements.

901-S-714.07.1.2--Specific Requirements: Metakaolin shall meet the requirements of AASHTO Designation: M 295 Class N with the following modifications:

1. The sum of $\text{SiO}_2 + \text{Al}_2\text{O}_3 + \text{Fe}_2\text{O}_3$ Shall be at least 85%. The Material Safety Data Sheet shall indicate the amount of crystalline silica, as measure by National Institute of Occupation Safety and Health (NIOSH) 7500 method, after removal of the mica interference, is less than 1.0%.
2. The loss on ignition shall be less than 3.0%.
3. The available alkalis, as equivalent Na_2O , shall not exceed 1.0%.
4. The amount of material retained on the No. 325 Mesh sieve shall not exceed 1.0%.
5. The strength activity index at seven (7) days shall be at least 85%.

Supplemental Specification
901-S-803-1
LFRD Driven Pile
Specifications.

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 24, 2010

SUBJECT: LFRD Driven Pile Specifications

Delete subsections S-803.01 to S-803.03.1.11 on pages 8-8 to 8-20, and replace with the following:

S-803.01--General.

S-803.01.1--Description. This work consists of furnishing and installing deep foundations in accordance with these specifications and in reasonable conformance with the lines, elevations, and spacing's shown on the plans. It shall also consist of furnishing all required labor, tools, and equipment to determine the bearing value of the deep foundation according to Load and Resistance Factor Design (LFRD) by static load testing, by dynamic load testing, and/or by driving of the specified test piles.

S-803.01.2--Order Lists for Deep Foundations. Lengths found in the plans are estimated lengths for bid purposes. Unless otherwise specified or authorized in writing by the Engineer, with the concurrence of the State Aid Bridge Engineer, all permanent deep foundations shall be installed within the prescribed tolerances specified herein and to the depths and/or lengths indicated on the itemized Order List furnished by the Engineer. The Order List shall be furnished after bearing has been verified either through static load testing, dynamic load testing, and/or driving of the specified test piles.

In general the penetration for any pile shall be: not less than five feet in hard material, not less than one-third the length of the pile, or less than twenty (20) feet in soft material. For foundation work, no piling shall be used to penetrate a very soft upper stratum overlying a hard stratum unless the piles penetrate the hard material a sufficient distance to rigidly fix the ends. If scour is predicted then the Engineer shall account for the potential loss of skin friction over the area of the pile in the scour zone.

The Contractor shall furnish or install driven piles and/or drilled shafts in accordance with an itemized list furnished by the Engineer. The Order List will show the required length of the piles or drilled shafts for each bridge bent or footing.

S-803.02--Materials. All materials shall conform to the applicable requirements set forth in S-710, S-711, S-719, S-804, and S-814.

Driven piles shall conform to all applicable requirements set forth in S-719 and the plans. Paint for steel piles or steel shells shall conform to the applicable requirements of S-710 and S-814.

Drilled shaft concrete shall conform to the requirements of S-804 for Class "DS" concrete. All reinforcing steel shall conform to the requirements of S-711 of the Specifications.

S-803.03--Construction Requirement. This work shall consist of furnishing all labor, materials, equipment and services necessary to install driven piles of the prescribed type in accordance with these specifications and in conformance with the lines, elevations, and spacing's shown on the plans.

This work shall also consist of furnishing all labor, materials, equipment and services necessary to perform all operations to complete the drilled shaft installations in accordance with these specifications and with the details and dimensions shown on the plans. Drilled shafts shall consist of reinforced or nonreinforced concrete with or without concrete bell footings.

S-803.03.1--Driven Piles.

S-803.03.1.1--General. Unless otherwise specified or authorized by the Engineer, all permanent production piles shall be driven in a continuous operation, to the full lengths indicated on the itemized order list furnished by the Engineer, with the concurrence of the State Aid Bridge Engineer.

S-803.03.1.2--Accuracy of Installation. Driven piles in trestle bents shall be driven to within a tolerance of 1/4 inch per foot from the vertical or from the batter shown on the plans. Piles to be incorporated into a cap or footing shall not be out of the position shown on the plans by more than six inches. In all cases, piles shall be driven so that they will not be excessively stressed to place them in the proper location in the cap or footing. Excessive manipulation of the piles will not be permitted, and the Contractor shall redrive or use other satisfactory methods to avoid such manipulations. No shimming on tops of piles will be permitted.

S-803.03.1.3--Extensions, Build-ups and Splices. If determined by the Engineer to be necessary, production piles that are extended below cut-off shall be extended, built-up, or spliced in accordance with the plans to the extent established by the Engineer, with the concurrence of the State Aid Bridge Engineer. Extensions or build-ups will not be measured for payment as such, but will be included in the total length of piling in the finished structure.

S-803.03.1.4--Cut-Offs. If it is determined by the Engineer, with the concurrence of the State Aid Bridge Engineer, that the pile has reached practical refusal above pile cut-off elevation but

below the prescribed minimum tip elevation shown in the plans then the Contractor will be allowed to cut off the pile at the cut-off elevation.

S-803.03.1.5--Driven Pile Types. Driven piles shall be of the type listed below unless otherwise specified in the plans.

S-803.03.1.5.1--Concrete Piles. Concrete piles shall be the size and shape specified. Reinforcement, unless otherwise designated, shall have a clear distance of at least two inches from the face of the pile. When the piles are for use in salt water or alkali soils this clear distance shall be at least three inches.

S-803.03.1.5.2--Steel Piles. Full-length piles shall be used unless splicing is approved in writing by the Engineer, with the concurrence of the State Aid Bridge Engineer. When permitted, splicing shall be in accordance with the notes and details shown on the plans. When authorized, splices will be paid for in accordance with S-803.05.8.

S-803.03.1.5.3--Timber Piles. Timber piles shall only be used for temporary construction and shall meet the requirements set forth in S-820.

S-803.03.1.5.4--Special Piles. Piles not of the type specified above, but called for in the plans or additional specifications shall meet the general requirements contained therein.

S-803.03.1.6--Preparation for Driving.

S-803.03.1.6.1--Excavation. When a pile cap is located below the ground line, piles shall not be driven until the required excavation is completed. All material forced up between the piles shall be removed to the correct elevation at the Contractor's expense before concrete for the foundation is placed.

S-803.03.1.6.2--Pile Cushions. Suitable cushioning material shall be used between the driving helmet and the top of the pile. This is especially critical for concrete piles. The Contractor should submit the type material, cross-sectional area and total thickness of the pile cushion. This information shall be submitted to the Engineer for approval prior to driving piling. The pile cushion shall be approved with the pile driving system and is subject to satisfactory field performance.

S-803.03.1.7--Method of Installation and Driving System.

S-803.03.1.7.1--General. The pile driving system shall be defined as all equipment necessary to install the specified piles to the required minimum tip elevations specified in the plans. The pile driving system shall include the pile hammer, hammer leads, followers, water jets, drilling equipment for pre-formed pile holes, and templates, if necessary.

S-803.03.1.7.2--Submittal of Pile Driving System Data. The Contractor shall submit to the Engineer all technical specifications and operating instructions relating to the pile driving system that is to be used to drive the piling. The Contractor shall submit this data to the Engineer at the pre-construction conference or no later than 14 days prior to the anticipated driving date. The Engineer shall use the data to assess the ability of the proposed driving system to install the piles to the desired penetration without unwarranted damage to the pile in accordance with LRFD. If a drivability analysis is not conducted, design stress shall be limited as prescribed in LRFD. The Contractor will not be allowed to install any piling until the driving system has been approved by the Engineer.

The Engineer will notify the Contractor of any additional information required and/or changes that may be necessary to meet the project requirements. Any parts of the driving system that are unacceptable will be rejected and the Contractor will submit changes. Review of these changes will be completed within seven (7) days and the Contractor notified of their acceptance or rejection.

All production piles shall be driven with the hammer bearing the same Serial Number originally submitted to the Engineer and used to drive the test piles. In the event multiple hammers of differing type are used on the same bridge, the Contractor shall submit to the Engineer for approval, data for each hammer and specify the bridge bents in which each hammer will be used. This will allow the Engineer the opportunity to develop appropriate driving and acceptance criteria specific to each hammer.

A different pile driving system, modifications to the existing system, or different pile installation procedures shall be proposed by the Contractor if the Engineer determines the system does not conform to LRFD or if problems in driving the piling are encountered. All approvals are conditional and subject to trial and satisfactory performance in the field. Unless otherwise permitted by the Engineer in writing, test piles and permanent piles shall be driven with the approved driving system.

S-803.03.1.7.3--Pile Hammers. Piles may be driven with an approved single-acting or double-acting pile hammer in combination with water jets or pre-formed pile holes. The pile driving system shall be constructed so as to afford freedom of movement of the pile hammer and to drive the piles to the required depth within the tolerances specified without undue injury to the piles.

The pile hammer shall be in good working condition and produce the energy required to install piles to the depth or penetration required in the plans. Single or double-acting Steam/Air, Diesel/Internal Combustion, or Hydraulic hammers may be submitted for review and approval.

In no case shall a gravity or drop hammer be used to drive concrete piles. A drop hammer may be used to install steel or temporary timber piles when approved by the Engineer.

S-803.03.1.7.4--Driving Appurtenances.

S-803.03.1.7.4.1--Pile Hammer Leads. Either fixed leads or swinging leads may be used. Swinging leads shall be used in combination with rigid templates approved by the Engineer. Battered piles shall be driven in inclined leads or multiple rigid templates capable of holding the pile in the proper position during driving.

S-803.03.1.7.4.2--Pile Cushions. Suitable cushioning material shall be used between the driving cap and the top of the pile. The cushion material shall protect the pile top during driving and shall be constructed such that the hammer energy is uniformly distributed to the pile top. If the cushion material becomes highly compressed, or chars or burns during the driving operations or damage occurs at the pile top, it shall be replaced.

S-803.03.1.7.4.3--Water Jets. When required by the Engineer, water jets will be used in conjunction with the pile hammer to install piles to the required depth or penetration called for in the plans. The use of water jets, where the stability of embankments or other improvements would be endangered, will not be permitted. When water jets are used, the number of jets and the volume and pressure of water shall be sufficient to adequately facilitate driving without undue damage to the pile or the soil adjacent to or below the pile. Unless otherwise specified, water jets shall not be used within five feet of the final tip elevation of the pile. In addition, it shall be the Contractor's responsibility to withdraw the water jets sufficiently above the five foot requirement to obtain the specified bearing at the required cut off elevation.

In the event a jetted pile fails to obtain the specified bearing at the required penetration and a determination is made by the Engineer that the Contractor has failed to properly control the jetting operation, the Contractor should submit detailed corrective measures for founding the pile to the Engineer for approval. Any required corrective measures to the pile due to the Contractor's operation shall be performed at no additional cost to the Project.

S-803.03.1.7.4.4--Followers. Followers are considered to be part of the driving system and should be included for approval with the pile driving system data.

S-803.03.1.7.4.5--Pre-formed Pile Holes. The Engineer, with the concurrence of the State Aid Bridge Engineer will make all determinations as to the necessity for pre-formed pile holes and the size and maximum depth of each hole required or permitted.

If it is determined from the Geotechnical Investigation or from the site survey that pre-formed pile holes are necessary, a pay item and estimated quantities will be included on the plans, and the Engineer will furnish the Contractor with an itemized list showing the location, size and bottom elevation of each hole.

If the plans do not specify pre-formed pile holes and the Engineer, with the concurrence of the State Aid Bridge Engineer, determines during construction that subsurface conditions are encountered that necessitate pre-formed pile holes, at certain locations, an adjustment in the contract unit price for furnishing and driving piling at these locations may be made under the provisions of S-104.02.

If in the judgment of the Engineer pre-formed pile holes are not required and the Contractor desires to use them, the Contractor may be permitted to do so under conditions prescribed by the Engineer, with the concurrence of the State Aid Bridge Engineer, and at no additional cost to the Project.

S-803.03.1.7.4.6--Additional Equipment. When a minimum penetration is indicated on the plans and is not obtained by the use of an approved hammer, the Contractor shall provide, with the approval of the Engineer, a heavier hammer or resort to jetting at no additional cost to the Project.

S-803.03.1.8--Defective Piles. Prior to driving, piles shall not be subjected to handling that causes damage either through bending, crushing or spalling of concrete, or deformation of the steel. All piles damaged because of internal defects or by improper driving, driven out of the proper location or driven below the specified elevation shall be corrected at the Contractor's expense by one of the following methods approved by the Engineer, with the concurrence of the State Aid Bridge Engineer for the pile in question:

- (1) The pile shall be withdrawn and replaced by a new and, if necessary, a longer pile.
- (2) A second pile shall be driven adjacent to the defective or low pile.
- (3) The pile shall be spliced or built up or a sufficient portion of the footing shall be extended to properly embed the pile. All piles pushed up by the driving of adjacent piles or by any other cause shall be driven down to grade.

S-803.03.1.9--Determination of Bearing Value of Piling.

S-803.03.1.9.1--General. The ability of the pile to transfer load to the ground will be determined to the satisfaction of the Engineer. Such determination will be made using a Geotechnical investigation, load tests and/or test piles and LRFD methodologies.

S-803.03.1.9.2--Determination of Bearing Value by Pile Hammer Formulas. The safe bearing values will be determined using one of the LRFD approaches outlined herein. If an alternative approach to determine safe bearing values is used, it must comply with LRFD and be approved by the Engineer, with the concurrence of the State Aid Bridge Engineer.

The determination of bearing values shall be documented by the Engineer. Documentation shall include but not be limited to: drivability information, location of test piles or load tests, results of test piles or load tests, supporting calculations, the itemized Order List furnished by the Engineer and any other items determined necessary by the Engineer.

S-803.03.1.9.2.1--Dynamic Formulas. Dynamic formulas shall not be used when the required nominal resistance exceeds 600,000 lbs. The required nominal resistance shall be taken as the LRFD factored load divided by the LRFD resistance factor as determined by the Engineer. If scour or liquefaction is predicted at the bridge location, the Engineer shall account for potential loss of skin friction over the area of pile.

The formulas described herein are applicable for the following conditions only:

- (a) The hammer has a free fall.
- (b) The pile head is not crushed.
- (c) The penetration is reasonably quick and uniform.
- (d) There is no appreciable bounce after the blow.
- (e) A follower is not used.

When using single-acting steam/air hammers and open cylinder diesel hammers where ram velocity on the hammer is not measured, developed hammer energy shall be calculated as follows:

$$E_d = WH$$

Where W = weight, in lbs, of striking parts of hammer
 H = height of fall in feet.

Where there is appreciable bounce of the hammer, twice the height of the bounce shall be deducted from "H" to determine its value in the formula.

For all other hammer types, the developed hammer energy shall be determined by the Engineer and based on information provided by the Contractor and any further information provided by the manufacturer.

When water jets and dynamic formulas are used in combination, the bearing value shall be determined from the results of driving after the jets have been withdrawn, or a static or dynamic load test has been conducted.

Formulas for pile hammers not covered herein must be approved by the State Aid Bridge Engineer before the hammer is used.

S-803.03.1.9.2.2--FHWA Gates Formula. The FHWA Gates Formula shall be used in LRFD applications. The nominal pile resistance as measured during driving using this method shall be taken as:

$$R = 1.75 \sqrt{E_d} \log_{10} (10N_b) - 100$$

Where R = nominal pile resistance measured during pile driving in kips
 E_d = developed hammer energy in foot-lbs

 N_b = Number of hammer blows for 1.0 inch of pile penetration.

S-803.03.1.9.2.3--Resistance Factor. The Engineer shall use a resistance factor of 0.40 with the FHWA Gates Formula. This resistance factor shall be applied to the nominal pile resistance determined by the Engineer using the results of the pile driving formula.

803.03.1.9.3--Determination of Bearing Value by PDA Monitoring (Dynamic Load Testing).

803.03.1.9.3.1--Description. This work consists of furnishing all labor, materials, equipment and services necessary to perform all operations to complete the determination of the bearing value of piling using a Pile Driving Analyzer (PDA) and associated equipment. The dynamic load testing measurements will be performed in accordance with the plans, Engineers direction and the requirements herein.

803.03.1.9.3.2--Resistance Factors and Number of Dynamic Test Piles. The Engineer shall use a resistance factor of 0.65 when the driving criteria are established by a dynamic test with signal matching. This resistance factor shall be applied to the nominal pile resistance determined by the Engineer using the results of PDA and the wave equation.

If scour is predicted during design flood and/or liquefaction is predicted during the design seismic event, the Engineer shall account for the potential loss of skin friction over the area of pile when determining bearing resistance.

The location and number of test piles shall be indicated on the plans or directed by the Engineer. Depending upon the conditions encountered in the field, the Engineer may increase the number of test piles required.

803.03.1.9.3.3--Scope and Sequence of Construction. The dynamic measurements shall be performed on the piles as detailed below for the purpose of obtaining pile bearing capacity, pile lengths, pile driving stresses, pile integrity, and the pile driving system efficiency. Unless otherwise directed in the plans, the sequence of construction outlined below shall not be deviated from unless an alternate sequence of construction is approved in writing by the Engineer.

- 1) When called for in the plans or directed by the Engineer, Conventional Static Load Testing will be performed. Piles to be load tested shall be driven at location shown in the plans or directed by the Engineer, with PDA monitoring under initial drive, and have restrikes performed.
- 2) When called for in the plans or directed by the Engineer, PDA Test Piles will be driven with PDA monitoring under initial drive and have restrikes performed as detailed below. The test piles will be used as production piles and be incorporated into the bridge structure.

- 3) The Engineer can require PDA monitoring or PDA restrikes to any production pile.
- 4) For Quality Control purposes, PDA testing shall be performed on 10% of the production piles when PDA testing is set up by the plans.

803.03.1.9.3.4 --PDA Monitored Driving and/or Restrike of Piling.

803.03.1.9.3.4.1--General. When called for in the plans or directed by the Engineer, a PDA and instrumentation will be used to obtain dynamic measurements during pile driving and pile restrikes. The analysis of the monitoring will be the responsibility of the Engineer.

803.03.1.9.3.4.2--Contractor Requirements. The Contractor shall be responsible for the following:

1. A power supply providing at least 1800 watts of 115-volt AC power with a frequency of 60 Hz at the driving site.
2. Prepare the driving site.
3. Supply the labor necessary for attaching the dynamic monitoring instrumentation to the piles. The Contractor shall make one of their personnel available to place the transducers on the piles after the piles have been placed in the leads.
4. Notice to the Engineer at least 14 calendar days before the scheduled date of driving piles to be monitored and confirmation of the driving date 3 calendar days prior to the scheduled driving date.
5. Access to the pile prior to driving for drilling and tapping of holes that are necessary for attachment of instrumentation.
6. Reasonable care when working with piles and installed instrumentation.
7. Drive the piles as directed by the Engineer.

The Contractor shall replace any damaged piles, instruments or PDA related equipment caused by Contractor error at no additional cost to the Project.

803.03.1.9.3.4.3--Driving Requirements. Piles to be used in the determination of pile bearing by PDA monitoring shall be driven with PDA instrumentation attached to the pile and shall have a PDA monitored 1-day and 7-day restrike performed after the initial pile driving. When a static load test is to be performed, the 7-day restrike should be eliminated and a PDA monitored restrike done within 24 hours of completion of the static load test. When determined by the Engineer, waiting periods that are required before the restrikes are performed shall be adjusted.

When deemed necessary by the Engineer, permanent piles may have PDA monitored restrikes performed to confirm or supplement design requirements.

Restrikes shall be performed with a warm hammer operating at normal efficiency. A warm hammer is defined as a hammer that has applied a minimum of 20 blows to another pile or a dummy block immediately before being used in a restrike. The restrike shall consist of striking the pile for 50 blows or until the pile penetrates an additional three inches, whichever occurs first. In the event the pile movement is less than one inch after 15 blows during the restrike, the restrike may be terminated.

S-803.03.1.9.4--Determination of Bearing Value by Static Load Testing.

S-803.03.1.9.4.1--General. When called for in the plans or directed by the Engineer, static load testing will be conducted to determine the ultimate bearing capacity of piles. Depending upon the conditions encountered in the field, the Engineer with the concurrence of the State Aid Bridge Engineer may increase or decrease the number of static load tests required.

In the event the number of loading tests are increased from that indicated in the contract, consideration will be given for delays, if any, in the applicable controlling phase of work caused solely by the seven-day or other waiting period required by the Engineer. Any adjustments will be in accordance with S-108.06.

S-803.03.1.9.4.2--Static Load Test Resistance Factors. When using static load testing, the Engineer shall determine the resistance factor according to LRFD. Factors range from 0.55–0.90 and shall consider the number of static load tests performed and soil variability at the project site as defined in LRFD. If site variability cannot be determined, a “High” site variability shall be used.

S-803.03.1.9.4.3--Methods and Equipment. Apparatus for measuring the behavior of the pile during the test shall consist of a measuring frame and two approved dial gage type measuring devices attached to the pile. Each gage shall be actuated by its stem or by a stem attachment resting on the beam of the measuring frame. Supports for the measuring frame shall be placed the maximum practical distance from the test pile and the anchor piles. Each dial gage shall be capable of providing measurements to an accuracy of 0.001 inch throughout a movement range of four inches and shall be sensitive to a force of one pound or less. At least one approved standby gage of each type used shall be provided at all times. The Contractor shall furnish a certification of the sensitivity and accuracy of each dial gage through the required range of use. The Engineer may require recertification of a gage at any time there is an indication of inaccuracy. The Contractor shall provide adequate protection from the elements or from other damage to gages and other specified measuring devices during handling, transportation, and use so that inaccurate measurements or delays will not result because of such damage.

S-803.03.1.9.4.4--Hydraulic Method. The Contractor shall furnish a hydraulic jacking system complete with gages and charts. The system shall include one or more hydraulic jacks in good condition without leaks. The jacks shall be capable of applying the required load and shall have adequate piston travel to compensate for the yield of the reaction facilities and the vertical displacement of the pile being tested.

The pressure gages shall accurately reflect the fluid pressure in the system within plus or minus one percent throughout the system capacity. The gage shall be such that the applied load can be read directly in increments of two percent or less, or shall be such that when read to the exact graduation and referred to a certified calibration chart will provide a determination of the load being applied within plus or minus one percent. Each gage shall contain a capacity for recalibration to zero at zero pressure.

The complete hydraulic jacking system and gages shall be calibrated in accordance with AASHTO Designation: T 67, ASTM Designation: E-4, at least once, and pressure gages shall be calibrated within one year preceding the time of use and whenever there is a reason to doubt the accuracy of the results. If the laboratory performing the calibration uses a hydraulic testing machine in lieu of the methods specified in AASHTO Designation: T 67 to apply the test load, the testing machine used to apply this load shall be calibrated in accordance with ASTM Method E 74, and the report shall state that the testing machine had been calibrated by this method. Calibration shall include loading and unloading with the jacking system to determine the hysteresis losses in the system. The calibration and certificate shall be made by a qualified testing laboratory approved by State Aid, and the Engineer shall be furnished a report and certificate of each calibration.

Systems containing two or more jacking pistons shall be approved by the Engineer before use and shall be subject to periodic calibration as determined by the Engineer.

S-803.03.1.9.4.5--Preparation for Loading. The Contractor shall provide means for preventing eccentricity in the pile during loading, and shall be fully responsible for all loss or damage caused by loading an eccentric pile or one which becomes eccentric during loading.

The pile to be load tested shall be installed as indicated on the plans to the specified tip elevation, or as directed. After the pile is in place, all loading devices shall be assembled in their proper position. Before load is applied to the pile, the measuring frame shall be assembled and positioned with gages properly installed.

The head of the pile shall be normal to the longitudinal axis or shall be capped in such a manner as to produce a plane bearing surface normal to the longitudinal axis. When cut-off is necessary, the head of the pile shall be normal to the longitudinal axis or capped as above. A one-inch steel plate of the pile size or larger shall be set on top of the pile.

The jacking system shall include a reaction member of sufficient strength and support to withstand required loads. The reaction member shall be attached to anchor piles. Anchor piles

shall not be closer to the test pile than five times the greatest dimension of the largest pile driven; except for 18-inch or larger piles the Engineer with the concurrence of the State Aid Bridge Engineer may authorize in writing reaction piles at a closer interval, subject to the conditions included in the authorization. The Contractor shall provide reaction facilities capable of withstanding at least two and one-half times the design load. All reaction facilities shall be subject to the approval of the Engineer with respect to possible adverse influence upon the behavior of the test pile.

S-803.03.1.9.4.6--Application of Loads. Unless otherwise directed by the Engineer, a time period of at least seven days shall elapse from the time the test pile and anchor piles, if used, are installed before the loading test is performed. During the required time lapse period, no other driving operations shall be performed within a 30-foot radius of the test pile, or a new seven-day period shall begin at the ending of the last pile driven within the 30-foot radius.

During the entire period that the test load or any portion thereof is on the pile, no pile driving operations, operation of heavy equipment, or any other operations shall be carried on within a distance, as determined by the Engineer, from the load test which might affect the behavior of the loaded pile. In the event of such occurrence, or in the event of failure of the reaction facilities or other loading and measuring equipment, the load test may be considered as defective and unacceptable, and in the case of driven piles only an additional seven-day waiting period shall elapse before the loading test is resumed.

Loads shall be applied in increments of 25 percent of the LRFD factored load until the Engineer determines an adequate test load has been reached or failure of the pile has occurred. The test load shall be taken as 1 1/2 times the LRFD factored load divided by the appropriate LRFD resistance factor in accordance with S-803.03.1.9.4.2.

If scour is predicted during design flood and/or liquefaction is predicted during the design seismic event, the Engineer shall increase the test load to account for calculated loss of skin friction over the area of pile.

A guide for determining whether the pile has failed is as follows:

- (A) For lengths of driven and cast-in-place concrete piles and timber piles up to 50 feet, a total top settlement of 1.0 inch and for lengths in excess of 50 feet, a total top settlement of 1.5 inches. However, for cast-in-place piles, when skin friction is broken there may be some settlement due to compression of relatively loose or bulked soil under the point of the pile, therefore the test must not be suspended until this possibility has been fully considered. Any special effort by the Contractor in the drilling and casting the test pile to prevent possible settlement from such cause shall be duplicated to the satisfaction of the Engineer for all piles represented by the load test.

- (B) For steel piles and steel pile shells not filled with concrete up to 60 feet in length, a total top settlement of 1.5 inches and for lengths in excess of 60 feet, a total top settlement of 2.0 inches.

Each of the following loading conditions shall be applicable until the loading is completed or unless the Engineer has suspended the loading because of obvious failure of the pile:

- a. Each loading increment, including the final increment, shall be maintained for a 15-minute period and for as many additional 15-minute periods, not to exceed two hours total time, as necessary to satisfy the conditions stated herein.
- b. During the entire loading, readings are to be made at each five-minute increment of each 15-minute period and are to be made to the nearest 0.001 inch.
- c. When the settlement rate for the pile in the last five-minute increment of a 15-minute period, averages less than 0.001 inch per minute, the next increment of load shall be applied.
- d. When at the end of a 15-minute period, the settlement rate in the last five-minute increment averages more than 0.001 inch per minute, the load increment shall remain applied for the necessary successive 15-minute periods up to a total of two hours, after which the next increment of load shall be applied.
- e. The total load shall be maintained on the pile for two hours unless directed otherwise directed by the Engineer.
- f. The pile shall be unloaded in accordance with S-803.03.1.9.4.2.7.

S-803.03.1.9.4.7--Unloading and Measuring. Unless the loading has been suspended by the Engineer, the pile shall be unloaded in decrements of 50 percent of the design load. Each decrement shall be maintained for a minimum of 15 minutes with settlement readings taken immediately before and after its removal and at five-minute intervals. The final settlement reading shall be taken two hours after the removal of the last decrement of load and shall mark the conclusion of the loading test.

S-803.03.1.10--Pile Acceptance. The safe allowable load for each type and size of pile will be as shown on the plans or as determined by the Engineer with the concurrence of the State Aid Bridge Engineer. Acceptance criteria for the length of permanent production piles will be based on the recommended lengths as determined by the Engineer with the concurrence of the State Aid Bridge Engineer from the test pile reports.

S-803.03.1.11--Test Piles. The Contractor shall furnish and install test piles of the sizes and types at the locations shown on the plans. It is the Contractor's responsibility to furnish test piles of sufficient length to obtain the minimum tip elevation and required bearing. This requirement

may necessitate test pile lengths in excess of that required to reach minimum tip elevation. The number of test piles may be increased or decreased by the Engineer with the concurrence of the State Aid Bridge Engineer as field conditions warrant. If determined by the Engineer with the concurrence of the State Aid Bridge Engineer to be necessary, test piles shall be extended, built-up, or spliced and in the case of steel piles driven further. Similarly, the Contractor may be required to drive test piles below cut-off and extended as necessary.

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DATE: May 5, 2006

SUBJECT: Concrete Bridges And Structures:

Section S-804 - CONCRETE BRIDGES AND STRUCTURES; of the MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION 2004 EDITION is hereby amended as follows:

901-S-804.02.1--General. Add the following materials to the list of materials in Subsection 804.02.01 on page 8-51.

Ground Granulated Blast Furnace Slag (GGBFS) S-714.06
Metakaolin 901-S-714.07.01

901-S-804.02.10--Portland Cement Concrete Mix Design. Change Note ***** of Subsection S-804.02.10 on page 8-56 as follows:

***** Class DS Concrete for drilled shafts shall have an 8± 1-inch slump. In the event of free fall method of concrete placement is used, the slump shall be 6± 1 inch.

Delete the last paragraph of Subsection S-804.02.10 on page 8-57 and substitute the following:

Either Type A, D, F, G or mid-range chemical admixture shall be used in all classes of concrete. Any combination of water reducing admixtures shall be approved by the Engineer before their use.

901-S-804.05--Basis of Payment. Add "901" prefix to the pay items listed on page 8-108.

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
AFFIDAVIT

(To be Executed in Duplicate)

State of Mississippi

County of LINCOLN

I, Robert W. Baker (Name of person signing affidavit), individually, and in my capacity as Manager (Title) of BAKER Pile Driving and Site Work LLC (Name of Firm, Partnership, or Corporation) being duly sworn, on oath, do depose and say as follows:

That BAKER Pile Driving and Site Work LLC (Name of Firm, Partnership, or Corporation), Bidder on Project No. LSBP-43(48) in Lincoln County, 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 officers, partners, employees, or principal owners.

Further, being duly sworn or under penalty of perjury under the laws of the United States and the State of Mississippi; certifies that, except as noted below, the company or any person associated therewith in the capacity of owner, partner, director, manager, auditor, or any position involving the administration of federal funds:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in Item (b) of this subsection; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Initial here " _____ " if exceptions are attached and made a part thereof. Any exceptions shall address to whom it applies, initiating agency and dates of such action.

The Bidder shall provide immediate written notice to the Board of Supervisors and the State Aid Engineer at any time, prior to or after award, that it is known a certification was erroneous when executed or has become erroneous by reason of changed circumstances.

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 and attachments (when indicated) are true and correct.

Signature: [Signature]

Title: Manager

Notary Public: [Signature]



Sworn before me this 11th day of March 2021
My commission expires 10/27/23

NOTE: FAILURE TO PROPERLY SIGN AND NOTARIZE THIS AFFIDAVIT WILL DISQUALIFY THE BID.

OFFICE OF STATE AID ROAD CONSTRUCTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
AFFIDAVIT

(To be Executed in Duplicate)

State of Mississippi
County of Lincoln

I, Robert W. Baker (Name of person signing affidavit), individually, and in my capacity as Manager (Title) of Baker Pile Driving and Site Work LLC (Name of Firm, Partnership, or Corporation) being duly sworn, on oath, do depose and say as follows:

That Baker Pile Driving and Site Work LLC (Name of Firm, Partnership, or Corporation), Bidder on Project No. LSBP-43(48) in Lincoln County, 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 officers, partners, employees, or principal owners.

Further, being duly sworn or under penalty of perjury under the laws of the United States and the State of Mississippi; certifies that, except as noted below, the company or any person associated therewith in the capacity of owner, partner, director, manager, auditor, or any position involving the administration of federal funds:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statues or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in Item (b) of this subsection; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Initial here " _____ " if exceptions are attached and made a part thereof. Any exceptions shall address to whom it applies, initiating agency and dates of such action.

The Bidder shall provide immediate written notice to the Board of Supervisors and the State Aid Engineer at any time, prior to or after award, that it is known a certification was erroneous when executed or has become erroneous by reason of changed circumstances.

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 and attachments (when indicated) are true and correct.



Sworn before me this 11th day of March 2021
My commission expires 10/27/23

Signature: [Signature]
Title: Manager
Notary Public: [Signature]

NOTE: **FAILURE TO PROPERLY SIGN AND NOTARIZE THIS AFFIDAVIT WILL DISQUALIFY THE BID.**

MSSISSIPPI DEPARTMENT OF TRANSPORTATION
OFFICE OF STATE AID ROAD CONSTRUCTION

CONTRACTOR EEV CERTIFICATION AND AGREEMENT

Project No: LSBP-43(48) County: LINCOLN

By executing this Certification and Agreement, the undersigned verifies its compliance with Senate Bill 2988 from the 2008 Mississippi Legislative Session, "Mississippi Employment Protection Act," as published in Laws, 2008 and codified in the Mississippi Code of 1972, as amended, and any rules or regulations promulgated by Office of State Aid Road Construction, Department of Employment Security, State Tax Commission, Secretary of State, and Department of Human Services in accordance with the Mississippi Administrative Procedures Law (Section 25-43-1 et seq., Mississippi Code of 1972, as amended), stating affirmatively that the individual, firm, or corporation which is contracting with the County and the Office of State Aid Road Construction has registered with and is participating in a federal work authorization program* operated by the United States Department of Homeland Security to electronically verify information of newly hired employees pursuant to the Immigration Reform and Control Act of 1986, Pub.L. 99-603, 100 Stat 3359, as amended. The undersigned agrees to inform the Office of State Aid Road Construction if the undersigned is no longer registered or participating in the program.

The undersigned agrees that, should it employ or contract with any subconsultant(s) and/or subcontractor(s) in connection with the performance of this Contract, the undersigned will secure from such subconsultant(s) and/or subcontractor(s) verification of compliance with the Mississippi Employment Protection Act. The undersigned further agrees to maintain records of such compliance and provide a copy of each such verification to the Office of State Aid Road Construction, if requested, for the benefit of the County and the Office of State Road Construction or this Contract.

544818

EEV* Company Identification Number [Required]

The undersigned certifies that the above information is complete, true and correct to the best of my knowledge and belief. The undersigned acknowledges that any violation may be subject to the cancellation of the contract, ineligibility for any state or public contract for up to three (3) years, the loss of any license, permit, certificate or other document granted by any agency, department or government entity for the right to do business in Mississippi for up to one (1) year, or both, any and all additional costs incurred because of the contract cancellation or the loss of any license or permit, and may be subject to additional felony prosecution for knowingly or recklessly accepting employment for compensation from an unauthorized alien as defined by 8 U.S.C §1324a(h)(3), said action punishable by imprisonment for not less than one (1) year nor more than five (5) years, a fine of not less than One Thousand Dollars (\$1,000.00) nor more than Ten Thousand Dollars (\$10,000.00), or both, in addition to such prosecution and penalties as provided by Federal law.

BY: [Signature]
Authorized Officer or Agent

3/11/2021
Date

Robert W. Baker
Printed Name of Authorized Officer or Agent

Manager
Title of Authorized Officer or Agent of Contractor

SWORN TO AND SUBSCRIBED before me on this the 11th day of March, 2021.



[Signature]
NOTARY PUBLIC
My Commission Expires: 10/27/23

* As of the effective date of the Mississippi Employment Protection Act, the applicable federal work authorization program is E-Verify™ operated by the U. S. Citizenship and Immigration Services of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration.

Proposal Guaranty

Insert here or attach hereto certified check or Proposal Guaranty Bond in the amount as required in the Notice to Contractors.

Each agent representing such Surety Company must file with the contracting county his power of attorney duly executed by said Surety Company.

SECTION 902
PROPOSAL

Date 3-15-2021

Proposal of BAKER PILE DRIVING and Site WORK LLC
of 1051 RONALD REAGAN HWY, COVINGTON LA 70433

for constructing the following designated project within the time hereinafter specified.

The Plans are composed of drawings and blue prints on file in the offices of the Chancery Clerk of Lincoln County at Brookhaven Mississippi.

The Specifications are the currently approved Standard Specifications of the Office of State Aid Road Construction of the Mississippi Department of Transportation and the Federal Highway Administration, except where superseded or amended by Special Provisions and Revisions of the Specifications attached hereto and made a part thereof.

Board of Supervisors
Lincoln County, Brookhaven Mississippi

Sirs: The following is made on behalf of BAKER PILE DRIVING and Site WORK LLC
1051 Ronald Reagan Hwy
Covington, La. 70433

ROBERT W. BAKER
(Names and addresses of those interested)

and so others. 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, and the Specifications, including the Special Provisions and Revisions herein, and have personally examined the site of the work. On the basis of the Specifications, Special Provisions, Revisions 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 below 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.

The following is my (our) itemized Proposal:

SECTION 902--Proposal (Continued)

In the event of award of the Contract to me (us) under this Proposal, I (we) contemplate the sub-contracting of the following items, to the persons or firms named after each item in accordance with Special Provisions providing for the sub-contracting attached hereto if such sub-contracting thereof is approved by the Board of Supervisors and the State Aid Engineer. In the event of disapproval of such sub-contracting, I (we) agree to perform such item or items of work with my (our) own organization, in full compliance with all applicable terms of this Proposal.

NOTE: Bidder will insert below a list of the specific Pay Items and Quantities thereof which he proposes to sub-contract, and the names and addresses of the persons or firms to whom he proposes to sub-contract each item.

Pay Item No. 22 : 520 PRECAST PILES
 to Gulf Coast Prestress of Davis Christiana
 Pay Item No. 24 : 12 of 19" SLAB
 to Forterra of Forterra
 Pay Item No. 25 : 6 of 31" SLAB
 to Forterra of Forterra
 Pay Item No. 26 : 4 of 18" SLAB
 to Forterra of Forterra
 Pay Item No. 27 : 2 of 31" SLAB
 to Forterra of Forterra
 Pay Item No. 28 : 138 of BEAM RAILING
 to Forterra of Forterra
 Pay Item No. 29 : 2 of CAP
 to Forterra of Forterra
 Pay Item No. 30 : 2 of CAP
 to Forterra of Forterra
 Pay Item No. 31 : 4 of WIND WALL
 to Forterra of Forterra

I hereby certify that the persons or firms are named above as sub-contractors with the knowledge and consent of the persons or firms named.

Signed [Signature]
 By Robert W. Baker

In the event of the award of this contract to the above named bidder, for the performance of the work, and in the further event that the sub-contractor(s) named herein are approved by the Board of Supervisors and the State Aid Engineer, the sub-contractor or sub-contractors shall execute the following:

I (we) hereby certify that the use of our names as sub-contractors on the above items, was and is with our knowledge and consent.

SECTION 902 - Proposal (Continued)

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 903) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit provided for in the Specifications and Notice to Contractors. I (we) also propose to execute the attached contract bond (Section 904) in an amount not less than one hundred (100) per cent of the total of my (our) bid. This bond shall not only serve to guarantee the completion of the work on my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (we) enclose a certified check (bid bond) for TWENTY FIVE THOUSAND DOLLARS (\$25,000) Dollars and hereby agree that in case of my (our) failure to execute the contract and furnish bond with FIFTEEN (15) days after notice of award, the amount of this check (bid bond) will be forfeited to the County of _____ 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.

Respectfully submitted,

[Signature] Signed
 By Robert W. Baker
 Title MANAGER
 Address 1051 Ronald Reagan Hwy

Date 3/15, 20 21

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of Louisiana and the names, titles and business addresses of the executives are as follows:
Robert W. Baker 1051 Ronald Reagan Hwy

BID BOND

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (Name and Address):

Baker Pile Driving and Site Work, LLC
1051 Ronald Reagan Hwy
Covington, LA 70433

SURETY (Name and Address of Principal Place of Business):

Hartford Fire Insurance Company
3000 Internet Drive, #600
Frisco, TX 75034

OWNER (Name and Address):

Lincoln County Board of Supervisors and
State of Mississippi
301 1st Street
Brookhaven, MS 39601

BID

Bid Due Date: March 15, 2021

Project (Brief Description Including Location):

State Aid Project No. LSBP-43(48): Chestnut Lane SW - Bridge and Approaches

BOND

Bond Number: N/A

Date (Not later than Bid due date): March 15, 2021

Penal sum Five Percent of Greatest Amount Bid

(Words)

5% of GAB

(Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER

Baker Pile Driving and Site Work, LLC

Bidder's Name and Corporate Seal

By: *[Signature]*

Signature and Title manager

Attest: *[Signature]*

Signature and Title Estimator

(Seal)

SURETY

Employers Mutual Casualty Company

Surety's Name and Corporate Seal

By: *[Signature]*

Signature and Title Dawn M Davis, Attorney-in-Fact
(Attach Power of Attorney)

Attest: *[Signature]*

Signature and Title Donnie Doan

(Seal)

Note: Above addresses are to be used for giving required notice.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Surety's liability.

2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.

3. This obligation shall be null and void if:

3.1. Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or

3.2. All Bids are rejected by Owner, or

3.3. Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).

4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.

6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.

7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.

8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

KNOW ALL MEN BY THESE PRESENTS, that:

- 1. Employers Mutual Casualty Company, an Iowa Corporation
- 2. EMCASCO Insurance Company, an Iowa Corporation
- 3. Union Insurance Company of Providence, an Iowa Corporation
- 4. Illinois EMCASCO Insurance Company, an Iowa Corporation
- 5. Dakota Fire Insurance Company, a North Dakota Corporation
- 6. EMC Property & Casualty Company, an Iowa Corporation

hereinafter referred to severally as "Company" and collectively as "Companies", each does, by these presents, make, constitute and appoint:

DAWN M. DAVIS

its true and lawful attorney-in-fact, with full power and authority conferred to sign, seal, and execute the Bid Bond

Any and All Bonds

and to bind each Company thereby as fully and to the same extent as if such instruments were signed by the duly authorized officers of each such Company, and all of the acts of said attorney pursuant to the authority hereby given are hereby ratified and confirmed.

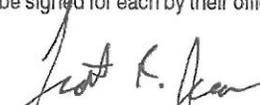
AUTHORITY FOR POWER OF ATTORNEY

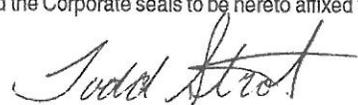
This Power-of-Attorney is made and executed pursuant to and by the authority of the following resolution of the Boards of Directors of each of the Companies at the first regularly scheduled meeting of each company duly called and held in 1999:

RESOLVED: The President and Chief Executive Officer, any Vice President, the Treasurer and the Secretary of Employers Mutual Casualty Company shall have power and authority to (1) appoint attorneys-in-fact and authorize them to execute on behalf of each Company and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof; and (2) to remove any such attorney-in-fact at any time and revoke the power and authority given to him or her. Attorneys-in-fact shall have power and authority, subject to the terms and limitations of the power-of-attorney issued to them, to execute and deliver on behalf of the Company, and to attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and any such instrument executed by any such attorney-in-fact shall be fully and in all respects binding upon the Company. Certification as to the validity of any power-of-attorney authorized herein made by an officer of Employers Mutual Casualty Company shall be fully and in all respects binding upon this Company. The facsimile or mechanically reproduced signature of such officer, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power-of-attorney of the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS THEREOF, the Companies have caused these presents to be signed for each by their officers as shown, and the Corporate seals to be hereto affixed this 30th day of March, 2020.

Seals

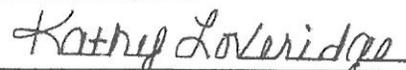

 Scott R. Jean, President & CEO
 of Company 1; Chairman, President
 & CEO of Companies 2, 3, 4, 5 & 6

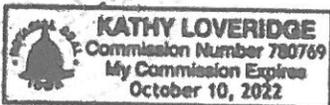

 Todd Strother, Executive Vice President
 Chief Legal Officer & Secretary of
 Companies 1, 2, 3, 4, 5 & 6



On this 30th day of March, 2020 before me a Notary Public in and for the State of Iowa, personally appeared Scott R. Jean and Todd Strother, who, being by me duly sworn, did say that they are, and are known to me to be the CEO, Chairman, President, Executive Vice President, Chief Legal Officer and/or Secretary, respectively, of each of the Companies above; that the seals affixed to this instrument are the seals of said corporations; that said instrument was signed and sealed on behalf of each of the Companies by authority of their respective Boards of Directors; and that the said Scott R. Jean and Todd Strother, as such officers, acknowledged the execution of said instrument to be their voluntary act and deed, and the voluntary act and deed of each of the Companies.

My Commission Expires October 10, 2022.

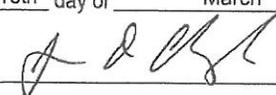

 Kathy Loveridge
 Notary Public in and for the State of Iowa



CERTIFICATE

I, James D. Clough, Vice President of the Companies, do hereby certify that the foregoing resolution of the Boards of Directors by each of the Companies, and this Power of Attorney issued pursuant thereto on 30th day of March, 2020, are true and correct and are still in full force and effect.

In Testimony Whereof I have subscribed my name and affixed the facsimile seal of each Company this 15th day of March, 2021.


 Vice President

SECTION 902
PROPOSAL SHEET (2-A)

PROJECT NO. LSBP-43(48)
LINCOLN COUNTY, MISSISSIPPI

For the construction of: BRIDGE & APPROACHES on 0.113 mile(s) of county road known as CHESTNUT LANE SW in Lincoln County, Mississippi under Local System Bridge Program Project No. LSBP-43(48).

I (We) agree to complete the entire project within 75 Working Days.

SPECIAL NOTICE TO BIDDERS
BIDS WILL NOT BE CONSIDERED UNLESS BOTH UNIT PRICES AND ITEM TOTALS ARE ENTERED

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
Roadway Items								
1	S-200-A	MOBILIZATION	Lump Sum	LS	XXXXXXXXXX	XXXXXXXXXX	35,000.	00
2	S-201-A	CLEARING AND GRUBBING	Lump Sum	LS	XXXXXXXXXX	XXXXXXXXXX	4,307.	20
3	S-202-B	REMOVAL OF BRIDGE @ STA. 12+99.47	1.000	UN	19,726	20	19,726.	20
4	S-203-A	UNCLASSIFIED EXCAVATION (PM)	1,033.000	CY	14.	23	14,699.	59
5	S-203-B	BORROW EXCAVATION (CONTRACTOR FURNISHED, LVM, CLASS 7)	128.000	CY	38.	43	4,919.	04
6	S-203-H	EXCESS EXCAVATION (LVM)	1,081.000	CY	22.	21	24,009.	01
7	S-304-A	GRANULAR MATERIAL (LVM), (CLASS 4, GROUP B)	815.000	CY	131	86	107,465.	90
8	S-603-C-A	18" REINFORCED CONCRETE PIPE, CLASS III	80.000	LF	64	49	5,183.	20
9	S-607-A	ROADWAY CONSTRUCTION SURVEYING	Lump Sum	LS	XXXXXXXXXX	XXXXXXXXXX	8,223.	95
10	S-617-A	RIGHT-OF-WAY MARKERS (TYPE II)	11.000	EA	437	73	4,815.	03
11	S-618-A	MAINTENANCE OF TRAFFIC	Lump Sum	LS	XXXXXXXXXX	XXXXXXXXXX	3,745.	00
12	S-618-B	ADDITIONAL CONSTRUCTION SIGNS	0.000	SF	10	00	0	00
13	S-630-C	REFLECTORIZED TRAFFIC OBJECT MARKER (ENCAPSULATED LENS) (TYPE 3)	4.000	EA	133	75	535.	00
Subtotal Roadway Items							232,629	12
Erosion Control Items								
14	S-212-B	COMMERCIAL FERTILIZER (13-13-13)	1.350	TON	1070	00	1,444.	50
15	S-214-A	SEEDING	1.350	AC	2140	60	2,829.	00
16	S-215-A	VEGETATIVE MATERIALS FOR MULCH	4.050	TON	845	40	3,423.	87
17	S-226-A	SOLID SODDING	100.000	SY	6	42	642.	00

Ref. No.	Pay Item No.	Description	Approx. Quantity	Unit	Unit Price		Item Total	
					Dollars	Cents	Dollars	Cents
18	S-233-A	TEMPORARY SILT FENCE (TYPE II) (AOS 0.15-0.84)	1,395.000	LF	2.	00	2,790.	00
19	237-A	WATTLES, 20 INCH	100.000	LF	6.	42	642.	00
Subtotal Erosion Control Items							11,831	37
Bridge Items								
20	S-803-A	TEST PILE	2.000	EA	6880	03	13,760.	00
21	S-803-B	CONVENTIONAL STATIC PILE LOAD TEST	0.000	EA	14,000	00	0	00
22	S-803-C	14" PRESTRESSED CONCRETE PILING	520.000	LF	122.	12	63,502.	40
23	S-803-F	18" PRE-FORMED PILE HOLES	160.000	LF	55.	24	8,838.	40
24	S-806-A	19' PRECAST CONCRETE SLAB UNIT, 3'-6" INTERIOR	12.000	EA	2,710.	50	32,526.	00
25	S-806-A	31' PRECAST CONCRETE SLAB UNIT, 3'-6" INTERIOR	6.000	EA	4,003.	77	24,022.	62
26	S-806-B	19' PRECAST CONCRETE SLAB UNIT, CURB	4.000	EA	3,321.	68	13,286.	72
27	S-806-B	31' PRECAST CONCRETE SLAB UNIT, CURB	2.000	EA	4,852.	19	9,704.	38
28	S-806-H	BEAM TYPE RAILING WITH CONCRETE POSTS	138.000	LF	78.	11	10,779.	18
29	S-806-I	29' PRECAST CONCRETE CAP, INTERMEDIATE UNIT, CONCRETE PILE	2.000	EA	4,932.	84	9,865.	68
30	S-806-J	29' PRECAST CONCRETE CAP, END UNIT, CONCRETE PILE	2.000	EA	4,932.	84	9,865.	68
31	S-806-M	7.5' PRECAST CONCRETE WING	4.000	EA	4,476.	90	17,907.	60
32	S-815-A	LOOSE RIPRAP, 300 LB.	264.000	TON	59.	16	15,618.	24
33	S-815-E	GEOTEXTILE UNDER LOOSE RIPRAP, (TYPE V) (AOS <0.43), NON-NOVEN	320.000	SY	4.	59	1,468.	80
Subtotal Bridge Items							231,145	76
Total Bid							475,606	25

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 903

CONTRACT (Rev. 03-11-2010)

CONTRACT FOR _____

LOCATED IN THE COUNTY OF _____

STATE OF MISSISSIPPI

COUNTY OF _____

This contract entered into by and between the Board of Supervisors of _____
_____ County, Mississippi, on the one hand, and the
undersigned contractor. on the other, witnesseth:

That in consideration of the payment by the Board of Supervisors 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 or 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 notice to contractors, 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 for faithfully completing the whole work in good and workmanlike manner according to the approved Plans, Specifications, Special Provisions and requirements of the Board of Supervisors and the State Aid Engineer.

It is further agreed that the work shall be done under the direct supervision and to the complete satisfaction of the County Engineer, or his authorized representatives, subject to inspection at all times and approval by the State Aid Engineer, and when Federal Funds are involved, by the Federal Highway Administration, or their agents as the case may be, 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 State Aid Engineer of the Mississippi Department of Transportation Authorized Federal Agencies.

The Contractor agrees that all labor as outlined in the Special Provisions will 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, or is not correctly 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 _____ 20 ____

(1) _____ APPROVED _____ 20 ____
Contractor(s)

By _____ (3) _____
State Aid Engineer

TITLE _____
Signed and Sealed in the presence of:
(names and addresses of witnesses) APPROVED _____ 20 ____

(1) _____ (4) TRANSPORTATION COMMISSION OF THE
STATE OF MISSISSIPPI (Approval of the
Commission not Required when no Federal Funds are
involved.)

(2) BOARD OF SUPERVISORS
_____ County

By _____ President By _____ Executive Director

Award authorized by the Board of Supervisors of _____

County in session on the _____ Day of _____ 20 ____

Minute Book No. _____, Page no. _____

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904

CONTRACT BOND (Rev. 03-11-2010)

CONTRACT BOND FOR _____

LOCATED IN THE COUNTY OF _____

STATE OF MISSISSIPPI

COUNTY OF _____

Know all men by these presents: that we, _____
Principal, a _____ residing at _____
in the State of _____ and _____
residing at _____ in the State of _____
authorized to do business in the State of Mississippi, under the laws thereof, as surety, are held and
firmly bound unto the Board of Supervisors of _____ County,
State of Mississippi, in the Penal 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.

Signed and sealed this the _____ day of _____ A. D., 20 _____.

The conditions of this bond are such, that whereas the said _____
principal, has (have) entered into a contract with the Board of Supervisors of _____
County of the State of Mississippi, bearing the date of _____ day of _____
_____ A. D., 20 _____ hereto annexed, for the construction of certain highways in the
said county as mentioned in said contract in accordance with the plans, specifications and special
provisions therefor, on file in the office of the Chancery Clerk of the county and state herein named.

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 the currently approved specifications, and save harmless said Board of Supervisors 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, an shall be liable and responsible in a civil action instituted by the Board of Supervisors at the instance of the State Aid Engineer or any officer of the said county authorized in such cases, for double any amount in money or property, the Board of Supervisors may lose or be overcharged or otherwise defrauded of, by reason of any 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, 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. of the Mississippi Code of 1972, and other State statutes applicable thereto, and shall carry out to the letter and to the satisfaction of both the Board of Supervisors of the aforesaid county and the State Aid Engineer all, each and every one of the stipulations, obligations, conditions, covenants and agreements and terms of said contract in accordance with all terms thereof and all of the expense and cost and Attorney's fees 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.

Witness our signatures this the _____ day of _____ A. D., 20 _____

 (CONTRACTORS) Principal

 SURETY

By: _____

By: _____

(Signature) ATTORNEY IN FACT.

TITLE _____
 (Contractor's Seal)

 Name and address of MS agent or qualified non-resident agent

(Surety Seal)

Louisiana Revised Statutes

TITLE 38 — Public contracts, works and improvements

RS 38:2225 — Preference in letting contracts for public work

Universal Citation: LA Rev Stat § 38:2225

§2225. Preference in letting contracts for public work

A. Repealed by Acts 1984, No. 894, §3, eff. July 1, 1987.

B. If a nonresident contractor bidding on public work in the state of Louisiana is domiciled in a state that provides a percentage preference in favor of contractors domiciled in that state over Louisiana resident contractors for the same type of work, then every Louisiana resident contractor shall be granted the same preference over contractors domiciled in the other state favoring contractors domiciled therein whenever the nonresident contractor bids on public work in Louisiana.

C. Any local law, either by legislative act or otherwise, ordinance, or executive order enacted prior to the effective date of this Act, or enacted hereinafter in conflict with this Section, or granting any local contractor or subcontractor preference over other Louisiana resident contractors shall be contrary to the provision of this Section.

D. The provisions and requirements of this Section shall not be waived by any public entity.

Acts 1983, No. 43, §1, eff. June 17, 1983. Acts 1984, No. 894, §2.

State of Mississippi

BOARD OF CONTRACTORS

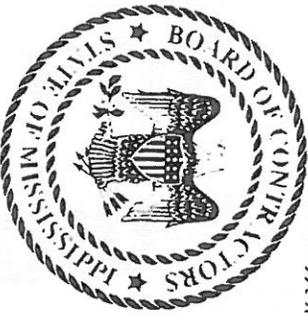
ACTIVE

BAKER PILE DRIVING & SITE WORK, LLC
1051 RONALD REAGAN HWY
COVINGTON, LA 70433

is duly registered and entitled to perform

- 1) DEMOLITION
- 2) HEAVY CONSTRUCTION
- 3) PILE DRIVING

We have herewith set our hand and caused the Seal of the Mississippi Board of Contractors to be affixed this 14 day of Jan., 2021



CERTIFICATE OF RESPONSIBILITY

No. 15845-MC

Expires Jan. 14, 2022

Jack A. Carroll
CHAIRMAN OF THE BOARD