

SECTION 905 -- PROPOSAL (CONTINUED)

I (We) hereby certify by digital signature and electronic submission via Bid Express of the Section 905 proposal below, that all certifications, disclosures and affidavits incorporated herein are deemed to be duly executed in the aggregate, fully enforceable and binding upon delivery of the bid proposal. I (We) further acknowledge that this certification shall not extend to the bid bond or alternate security which must be separately executed for the benefit of the Commission. This signature does not cure deficiencies in any required certifications, disclosures and/or affidavits. I (We) also acknowledge the right of the Commission to require full and final execution on any certification, disclosure or affidavit contained in the proposal at the Commission's election upon award. Failure to so execute at the Commission's request within the time allowed in the Standard Specifications for execution of all contract documents will result in forfeiture of the bid bond or alternate security.

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

ADDENDUM NO.	<u>1</u>	DATED	<u>3/14/2022</u>	ADDENDUM NO.	_____	DATED	_____
ADDENDUM NO.	<u>2</u>	DATED	<u>3/21/2022</u>	ADDENDUM NO.	_____	DATED	_____
ADDENDUM NO.	<u>3</u>	DATED	<u>4/20/2022</u>	ADDENDUM NO.	_____	DATED	_____

Number

Description

- 1 Revised Advertisement; Revised Wage Rates; Amendment EBSx Download Required.
- 2 Postponed until April 26, 2022; Amendment EBSx Download Required.
- 3 Revised Advertisement; Revised Notice to Bidder Nos. 4005 & 4007; Added Notice to Bidder Nos. 4227 & 4228; Revised Bid Items; Revised Plan Sheet Nos. 8001 & 8002; Amendment EBSx Download Required.

TOTAL ADDENDA: 3

(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

Contractor

BY _____

Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

President

Address

Secretary

Address

Treasurer

Address

The following is my (our) itemized proposal.

STBG-0074-02(013)/ 108846301000

Kemper County(ies)

Revised 01/26/2016

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Tuesday, April 26, 2022, from Bid Express Service and shortly thereafter publicly read on the Sixth Floor for:

Bridge Preservation on SR 39 over Strait Creek (Bridge No. 34.7), known as Federal Aid Project No. STBG-0074-02(013) / 108846301 in Kemper County.

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

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

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

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

Plans must be purchased online at <https://shopmdot.ms.gov>. Costs of plans will be on a per sheet basis plus a small convenience fee. If you have any questions, you can contact the MDOT Plans Print Shop at (601) 359-7460, or e-mail at plans@mdot.state.ms.us. Plans will be shipped upon receipt of payment. Cash or checks will not be accepted as payment.

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

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

BRAD WHITE
EXECUTIVE DIRECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4005

CODE: (SP)

DATE: 4/19/2022

SUBJECT: Contract Time

PROJECT: STBG-0074-02(013) / 108846301 – Kemper County

The calendar date for completion of work to be performed by the Contractor for this project shall be **December 2, 2022** which date or extended date as provided in Subsection 108.06 shall be the end of contract time. It is anticipated that the Notice of Award will be issued no later than **May 10, 2022** and the effective date of the Notice to Proceed / Beginning of Contract Time will be **June 9, 2022**.

Should the Contractor request a Notice to Proceed earlier than **June 9, 2022**, and it is agreeable with the Department for an early Notice to Proceed, the requested date will become the new Notice to Proceed date.

All requests for an early Notice to Proceed shall be sent to the Project Engineer who will forward it to the Contract Administration Division.

Contract time was established with the assumption that Shop Drawing Submittals and Fabrication will begin upon Notice of Award.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 4007

CODE: (SP)

DATE: 4/19/2022

SUBJECT: Bridge Closure Restrictions

PROJECT: STBG-0074-02(013) / 108846301 – Kemper County

Bidders are hereby advised of the following restrictions on the above captioned project.

The Contractor will be allowed to close Bridge No. 34.7 on SR 39 over Strait Creek for **14 consecutive calendar days** to perform all work associated with the pay items below.

- 406-D001: Fine Milling of Bituminous Pavement, All Depths
- 907-824-PP003: Bridge Repair, Removal of Bridge Deck
- 907-804-O001: Bridge Deck Overlay Concrete
- 907-824-PP007: Bridge Repair, Hybrid Polymer Concrete Overlay

All work, with the exception of the items mentioned above, may be done under lane closures.

The Contractor will be charged a fee of **\$900.00** for each full or partial 24-hour period the bridge is closed outside of the restrictions stated above.

The Contractor shall notify the Project Engineer at least fourteen (14) calendar days prior to the bridge closure.

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

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 -NOTICE TO BIDDERS NO. 4227

CODE: (SP)

DATE: 4/19/2022

SUBJECT: Hybrid Polymer Concrete Overlay

PROJECT: STBG-0074-02(013) / 108846301 – Kemper County

Bidders are hereby advised of the following requirements pertaining to the Hybrid Polymer Concrete Overlay.

Hybrid Polymer Concrete Overlay

Hybrid Polymer Concrete shall be the following:

1. Hybrid Polymer CE700 as manufactured by FasTrac Construction Products.
<https://www.fastracproducts.com/>

The overlay shall be placed at a minimum thickness of ½”

A Manufacturer representative shall be present for sufficient time to ensure that the Contractor is properly schooled in surface preparation and placement requirements for the overlay.

Surface preparation shall be performed as per the Manufacturer’s recommendations.

The hybrid polymer concrete overlay shall have a calcined bauxite topping that will produce a friction number of at least 65 in accordance with AASHTO Designation: T 242 using a tire meeting the requirements of AASHTO Designation M 261. The Department will conduct a friction test within 30 days after installation to verify that the material meets a friction number of 65.

All materials and labor associated with this item of work shall be paid for per cubic yards of overlay installed under pay item 907-824-PP007: Bridge Repair, Hybrid Polymer Concrete Overlay.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 -NOTICE TO BIDDERS NO.4228

CODE: (SP)

DATE: 4/20/2022

SUBJECT: Pay Item Correction

PROJECT: STBG-0074-02(013) / 108846301 – Kemper County

The Bidder's attention is called to Working Number 1 of 5, Sheet Number 8002 in the Contract Plans.

Pay Item 907-417-A001, Polymer Cement Surface System, 427 SY, is in error. The correct Pay Item is 907-824-PP007, Bridge Repair, Hybrid Polymer Concrete Overlay, 7 CY. Any reference to Polymer Cement Surface System in the Contract Plans shall be understood to mean Bridge Repair, Hybrid Polymer Concrete Overlay.

The Bid Sheets are correct.

Section 905

STBG-0074-02(013)/108846301

Proposal (Sheet 2 - 1)

KEMPER

Bridge Preservation on SR 39 over Strait Creek (Bridge No. 34.7), known as Federal Aid Project No. STBG-0074-02(013) / 108846301 in Kemper County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
Roadway Items					
0010	618-A001		1	Lump Sum	Maintenance of Traffic
0020	619-A1003		320	Linear Feet	Temporary Traffic Stripe, Continuous White, Paint
0030	619-A4001		160	Linear Feet	Temporary Traffic Stripe, Skip Yellow
0040	619-D1001		16	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet
0050	619-D2001		308	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More
0060	619-G4001		48	Linear Feet	Barricades, Type III, Double Faced
0070	619-G4005		48	Linear Feet	Barricades, Type III, Single Faced
0080	619-G7001		4	Each	Warning Lights, Type "B"
0090	620-A001		1	Lump Sum	Mobilization
0100	626-B001		320	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Continuous White
0110	626-D002		160	Linear Feet	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0120	907-619-E3001		2	Each	Changeable Message Sign
Bridge Items					
0130	202-B169		130	Linear Feet	Removal of Joint Material
0140	406-D001		427	Square Yard	Fine Milling of Bituminous Pavement, All Depths
0160	907-804-O001	(S)	4	Cubic Yard	Bridge Deck Overlay Concrete
0170	907-808-A002	(S)	130	Linear Feet	Joint Repair
0180	907-823-A001		135	Linear Feet	Preformed Joint Seal, Type I
0190	907-823-B001		260	Linear Feet	Saw Cut, Type I
0200	907-824-PP003		12	Square Feet	Bridge Repair, Epoxy Repair
0210	907-824-PP003		730	Square Feet	Bridge Repair, Installation of FRP Wrap
0220	907-824-PP003		110	Square Feet	Bridge Repair, Removal of Bridge Deck
0230	907-824-PP006		32	Each	Bridge Repair, Bearing Replacement
0240	907-824-PP006		5	Each	Bridge Repair, Cap Cleaning
0250	907-824-PP007		3	Cubic Yard	Bridge Repair, Elastomeric Concrete
0252	907-824-PP007		7	Cubic Yard	Bridge Repair, Hybrid Polymer Concrete Overlay

STATE	PROJECT NO.
MISS.	STBG-0074-02(013)

DESCRIPTION OF SHEETS	WORKING NUMBER	SHEET NUMBER
SPECIAL DESIGN SHEETS ~ BRIDGE DRAWINGS		
DETAILED INDEX (BRIDGE)	DI-BR	8001
SR 39 over Strait Creek - Bridge Repair		
GENERAL NOTES AND ESTIMATED QUANTITIES	1 OF 5	8002
JOINT REPAIR DETAILS ARMORED JOINT	2 OF 5	8003
BEARING DETAILS	3 OF 5	8004
FRP WRAP DETAILS INT. BENTS 2, 3, & 4	4 OF 5	8005
CHIP SEAL REMOVAL AND FULL DEPTH DECK REPLACEMENT	5 OF 5	8006

SPECIAL DESIGN SHEETS	
INFORMATION ONLY PLANS	8007
INFORMATION ONLY PLANS	8008
INFORMATION ONLY PLANS	8009
INFORMATION ONLY PLANS	8010
INFORMATION ONLY PLANS	8011
INFORMATION ONLY PLANS	8012
INFORMATION ONLY PLANS	8013

BRIDGE DIVISION		
REVISIONS		
DATE	SHEET NO.	BY
3/21/22	8002	CW



	BY	REVISION	DATE
MISSISSIPPI DEPARTMENT OF TRANSPORTATION			
BRIDGE AT STA. 81+40.00			
DETAILED INDEX			
FMS: 108846 / 301000			
COUNTY: KEMPER			
PROJECT NUMBER: STBG-0074-02(013)			
DESIGNER: Carlisle, Walden			
DETAILER: Carlisle, Walden			
CHECKER: Alex Hawkins			
ISSUE DATE: 2022-03-22			
DIRECTOR OF STRUCTURES: SCOTT WESTERFIELD, P.E.			
DEPT. DIR. OF STRUCTURES: ASST. STATE BRIDGE ENGINEER - MICHAEL LEW, P.E.			
WORKING NUMBER			SHEET NUMBER
DI-BR			8001

EPOXY MORTAR REPAIR NOTES

ADDENDUM

- Repair concrete spalled areas on the bridge as directed by the Project Engineer using epoxy mortar.
- Repair all concrete spalled areas listed on this sheet of standard drawings and as directed by the Project Engineer.
- Repair any additional concrete spalled areas not listed on this page as directed by the Project Engineer.
- The Contractor shall determine the depth of reinforcement prior to any saw cutting.
- Spalled areas where pack rust has developed around or on reinforcement shall be blasted clean. Hammers used for removal shall be limited to 30 pounds.
- All areas of the bridge repaired with epoxy mortar shall be restored to the original dimensions and details as shown in the information plans, unless noted otherwise.
- Materials:
 - Epoxy Resin: Resin shall be selected from the MDOT approved materials list and meet the requirements of ASTM C881, Type I, Grade 2, Class C.
 - Silica Sand: Silica sand material shall be bagged general purpose blast cleaning sand.
 - Epoxy Mortar Mix: Epoxy mortar mix shall consist of part liquid epoxy and part clean, dry sand mixed in the ratio recommended by the manufacturer.
- Application:
 - A representative of the epoxy manufacturer must be present for sufficient time to ensure the Contractor is properly schooled in the use of the epoxy materials.
 - Prior to placement of the mortar mix the prepared surface shall be lightly primed with neat epoxy.
 - Curing time shall be in accordance with manufacturer's recommendations.
- The cost of saw cutting, removing spalled or cracked concrete, cleaning exposed reinforcing steel, patching material, labor and any miscellaneous materials necessary to complete the repairs as shown shall be paid for on a square feet basis as Bridge Repair, Epoxy Repair. This item shall be bid such that this item may be increased, decreased, or eliminated as directed by the Project Engineer.

VERTICAL JACKING NOTES:

The Contractor shall provide adequate bracing and jacking arrangements as required to raise the span ends 4' and replace existing bearings. The Contractor shall employ the service of a Mississippi Registered Professional Engineer who is knowledgeable in the field of Bridge Design. A complete set of bracing and jacking arrangement plans along with design calculations shall be submitted to the Director of Structures, State Bridge Engineer through the Project Engineer for review prior to construction and shall bear the design engineer's seal. All jacks on the bent shall be coupled to a common manifold and the beam ends raised uniformly. Jacking points shall be under the bottom flange of the prestressed concrete beams at each bent and no jacking points will be allowed under any diaphragms or the bays. After the beam ends are raised into position, temporary blocking shall be provided to secure the beam in this position while the new bearing assemblies are being installed. Temporary blocking points shall be under the bottom flange of the prestressed concrete beam at each bent and no temporary blocking will be allowed under any diaphragms or the bays. Traffic shall be maintained on the bridge for duration of the repair. Any damage to the bridge resulting from uneven or improper jacking shall be repaired by the Contractor at no additional cost to the State.

SEQUENCE OF CONSTRUCTION AND SCOPE OF WORK:

The following items of work shall be provided under this Contract.

- Remove existing Chip Seal from bridge deck in accordance with details on sheet no. 8006 and replace with polymer cement surface. Work shall be paid for in square yards under pay item no. 406-0001, Fine Milling of Bituminous Pavement, All Depths.
- Remove and replace full depth portions of the bridge deck in accordance with the details on sheet 8006. Work shall be paid for under pay item 907-824-PP003, Bridge Repair, Removal of Bridge Deck, and 907-804-0001, Bridge Deck Overlay Concrete. Subsequent to the full depth repairs place polymer cement surface per sheet 8006. Work shall be paid for under pay item 907-417-A001, Polymer Cement Surface System.
- Jack the bridge and replace bearings at bents no. 2-4 in accordance with the details on sheet no. 8004. Bearing replacements shall be paid for per each bearing replaced under pay item no. 907-824-PP006, Bridge Repair Bearing Replacement, Per Plans.
- Reseal existing joints in accordance with the details shown on sheet no. 8003. Work shall be paid for in linear feet under pay item nos. 202-B169, Removal of Existing Joint Material, 907-808-A001, Joint Repair, 907-823-A001, Preformed Joint Seal, Type I, and 907-823-B001, Saw Cut, Type I.
- Clean all bent caps in accordance with the notes on this sheet. Work shall be paid for per each cap cleaned under pay item 907-824-PP006, Bridge Repair, Cap Cleaning, Per Plans.
- Remove all damaged or unsound concrete and repair concrete spalled areas using epoxy mortar at the locations indicated by the Project Engineer. Work for epoxy repair shall be performed as per the notes and details on this sheet and shall be paid for in square feet under pay item 907-824-PP003, Bridge Repair, Epoxy Repair, Per Plans.
- Install FRP wrap on the int. bent caps 2, 3, and 4 under Pay item 907-824-PP003, Bridge Repair Installation of FRP Wrap.

PAY ITEM CODE	DESCRIPTION	UNIT	QUANTITY
202-B169	REMOVAL OF EXISTING JOINT MATERIAL	LF	130
406-0001	FINE MILLING OF BITUMINOUS PAVEMENT, ALL DEPTHS	SY	427
907-417-A001	POLYMER CEMENT SURFACE SYSTEM	SY	427
907-804-0001	BRIDGE DECK OVERLAY CONCRETE	CY	4
907-808-A002	JOINT REPAIR	LF	130
907-823-A001	PREFORMED JOINT SEAL, TYPE I	LF	135
907-823-B001	SAW CUT, TYPE I	LF	260
907-824-PP003	BRIDGE REPAIR, INSTALLATION OF FRP WRAP	SF	730
907-824-PP003	BRIDGE REPAIR, EPOXY REPAIR	SF	12
907-824-PP003	BRIDGE REPAIR, REMOVAL OF BRIDGE DECK	SF	110
907-824-PP006	BRIDGE REPAIR, CAP CLEANING	EACH	5
907-824-PP006	BRIDGE REPAIR, BEARING REPLACEMENT	EACH	24
907-824-PP007	BRIDGE REPAIR, ELASTOMETIC CONCRETE	CY	3

ESTIMATED BRIDGE QUANTITIES

EPOXY BINDING NOTES:

Contact areas where new concrete is placed against old concrete shall be blasted clean and then treated with an approved epoxy binder designed to bond the new concrete to old concrete. The binder shall be applied in accordance with manufacturer's directions.

NOTE:

Saw cut existing concrete 1" deep so as to obtain a rectangular area. All existing reinforcement shall be carefully prepared and blast cleaned. Flag for saw cut. Contractor shall verify depth and location of any reinforcing steel before any saw cuts are made.

DISTURBANCE NOTE:

Any surrounding area that is disturbed in order to accomplish the work described herein shall be restored to it's original condition. There will be no separate payment for this work.

CAP CLEANING NOTE:

Cap cleaning should be performed by removing all large debris by hand. All other debris (dirt and rust) shall be removed by pressure washing the bent caps to the satisfaction of the Project Engineer. The pressure washer shall be able to maintain 3,500 Psi of pressure. Cap cleaning shall be done after all other work is completed.

HEAVY EQUIPMENT NOTE:

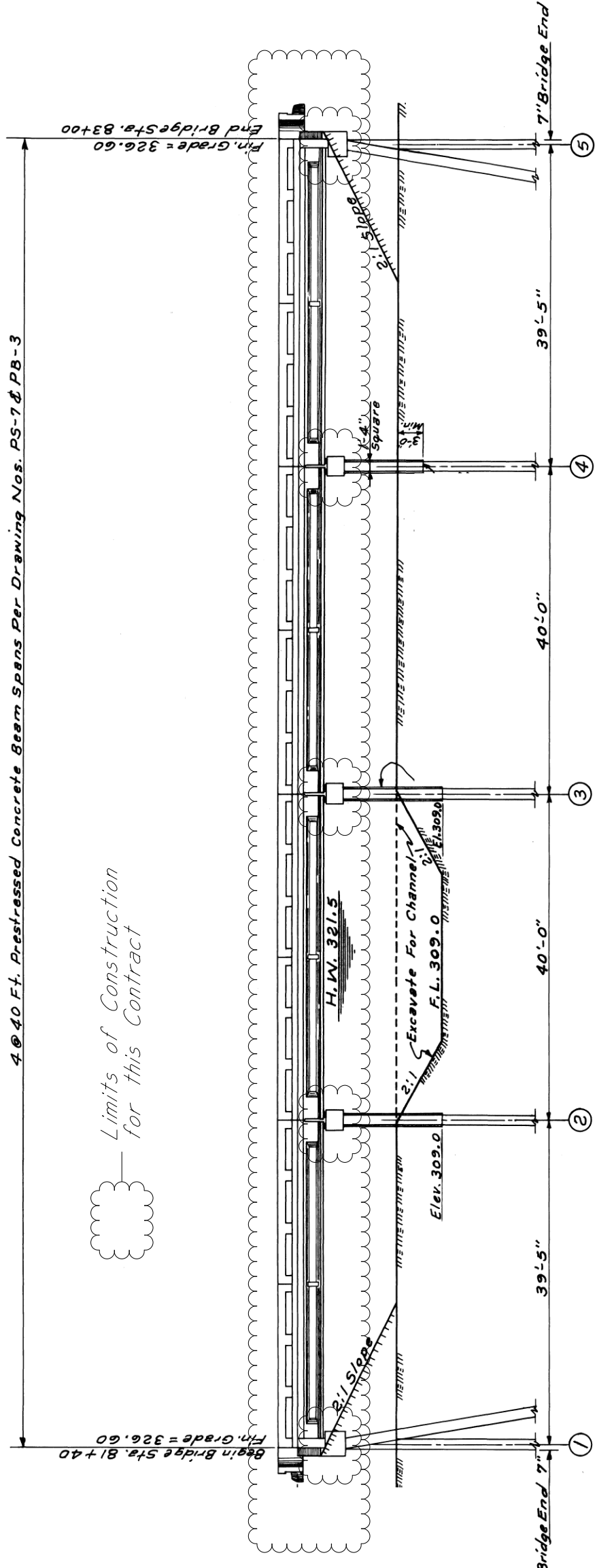
The pertinent equipment will not be allowed to park or be stored on the bridges and will not be allowed to stay in the road under a lane closure overnight. A milling machine will have a milling feed no larger than 4 feet

Total Length of Bridge = 160'-0"

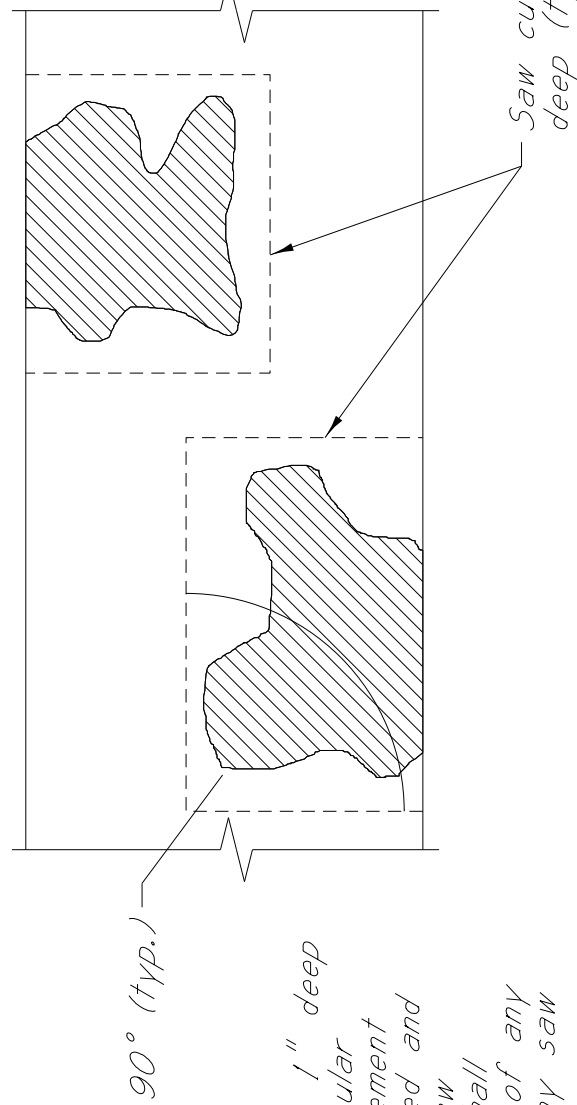
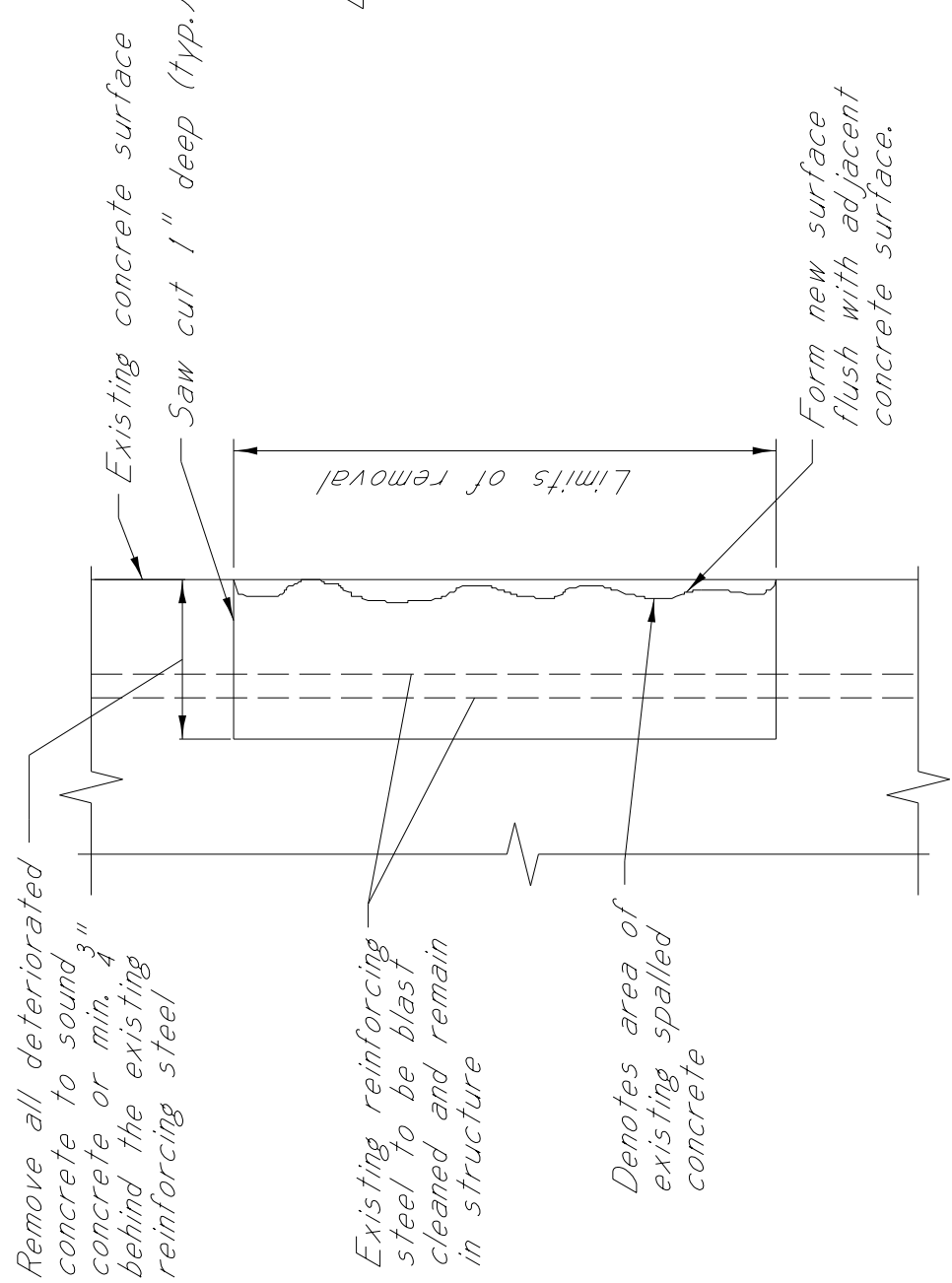
0.00% Grade

4 @ 40 Ft. Prestressed Concrete Beam Spans Per Drawing Nos. PS-7& PS-3

Limits of Construction for this Contract



BRIDGE LAYOUT



EPOXY MORTAR SPALL REPAIR DETAIL

SPECIAL PROVISIONS REQUIRED

907-417: Polymer Cement Surface System
907-808: Joint Repair
907-823: Preformed Joint Seal

INFORMATION PLANS

Original proj. no. F-025-216)
See sheet nos. 8008-8014



DATE	REVISION	BY
3/12/22	Revised Quantity and Work Location	CM
DESIGNER	Carla L. Waldon	
DETAILER	Carla L. Waldon	
ISSUE DATE	2022-03-22	
CHECKER	Alex Hawkins	
DIRECTOR OF STRUCTURES	STATE BRIDGE ENGINEER, WESTFIELD, P.E.	
DEPT. OF STRUCTURES	U.S.S.I. STATE BRIDGE ENGINEER	
WORKING NUMBER	1 OF 5	
SHEET NUMBER	8002	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
BRIDGE AT STA. 81+40.00

GENERAL NOTES AND ESTIMATED QUANTITIES

FMS:108846 / 301000

COUNTY: KEMPER

PROJECT NUMBER: STB-0074-02(013)

LOCATION	UNIT	QUANTITY
Overhang Outside Beam 4 at End Bent 1	SF	0.042
Bay 1 at End Bent 1 (Multiple Locations)	SF	0.5
Overhang Outside Beam 1 at End Bent 1 (Multiple Locations)	SF	2.666
Bay 3 at Span 4	SF	2.25
Bay 3 at End Bent 5	SF	1.25
Face of Cap at Int. Bent 4	SF	4.5

EPOXY MORTAR REPAIR LOCATIONS

BEARING REPLACEMENT

Bearings at bents 2-4 shall be removed and replaced in accordance to Bearing Assembly details on sheet no. 8004. All structural steel shall conform to A.S.T.M designation A709 grade 50. All steel shall be new. Extreme care shall be exercised in removing the existing bearing plates that are welded to the anchor plates embedded in the precast concrete girders. Existing anchor bolts shall be ground to 1/4" below the concrete surface and grouted with epoxy mortar.

The bottom of the existing anchor plates shall be finished smooth to accommodate the new steel plates and painted with approved encapsulating paint. All pack rust and scale within the designated areas shall be removed by using small hand tools, mechanical process, or needle gun. All areas required to be painted containing grease films after the initial cleaning shall be cleaned with a biodegradable solvent. All debris removed from the existing structure shall become property of the Contractor and shall be disposed of properly. The Contractor shall provide technical data for the proposed encapsulating paint to be used on this project to the Director of Structures, State Bridge Engineer for approval. New paint shall be applied by hand, with either a brush or roller.

After the pads are vulcanized to the new steel plate, the new steel plate shall be cleaned and painted with one shop coat of inorganic zinc, one field intermediate coat of acrylic latex, and one field top coat of acrylic latex per Section 814 of the Specifications.

In no case shall Neoprene Pads be field cut. Cutting torches shall not be used in any case to remove existing bearing plates from prestressed beams.

MAINTENANCE OF TRAFFIC

Maintain traffic in accordance with Section 618 of the 2017 edition of The Standard Specifications for Road And Bridge Construction, Part VI of the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES and the Traffic Control Plans included in these Plans.

Full road closure shall only be in place for items A and B in the Sequence of Construction found on this sheet. Items C-G may be performed during the full road closure provided productive work is being performed on items A and B. The full road closure will have a maximum duration of 2 calendar weeks.