

**SECTION 905 -- PROPOSAL (CONTINUED)**

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

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

ADDENDUM NO. <u>1</u>	DATED <u>8/20/2018</u>	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. <u>2</u>	DATED <u>8/22/2018</u>	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. _____	DATED _____	ADDENDUM NO. _____	DATED _____

Number	Description
1	Revised Plan Sheets No. 2, 9, & 14; Amendment EBS Download Required.
2	Revised Plan Sheet Nos. 8001 & 8019; Amendment EBS Download Required.

TOTAL ADDENDA: 2  
 (Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE \_\_\_\_\_

\_\_\_\_\_  
 Contractor

BY \_\_\_\_\_  
 Signature

TITLE \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

FAX \_\_\_\_\_

E-MAIL \_\_\_\_\_

(To be filled in if a corporation)

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

_____ President	_____ Address
_____ Secretary	_____ Address
_____ Treasurer	_____ Address

The following is my (our) itemized proposal.

BR-0070-04(025)/ 107639301000

Lafayette County(ies)

Revised 01/26/2016



# ADDENDUM

STATE MISS. PROJECT NO. BR-0070-04(025)

## REINFORCED FIBER WRAP REPAIR NOTES:

New fiber reinforced wrap shall be a carbon fiber wrap meeting the required properties shown in "REQUIRED FIBER REINFORCEMENT EPOXY WRAP PROPERTIES" on this sheet. Prior to application of fiber reinforced wrap, concrete surface shall be prepared according to the Manufacturer's recommendations. Fiber wrap shall be installed in strict accordance with the Manufacturer's instructions. Special attention to be paid to the application to corners.

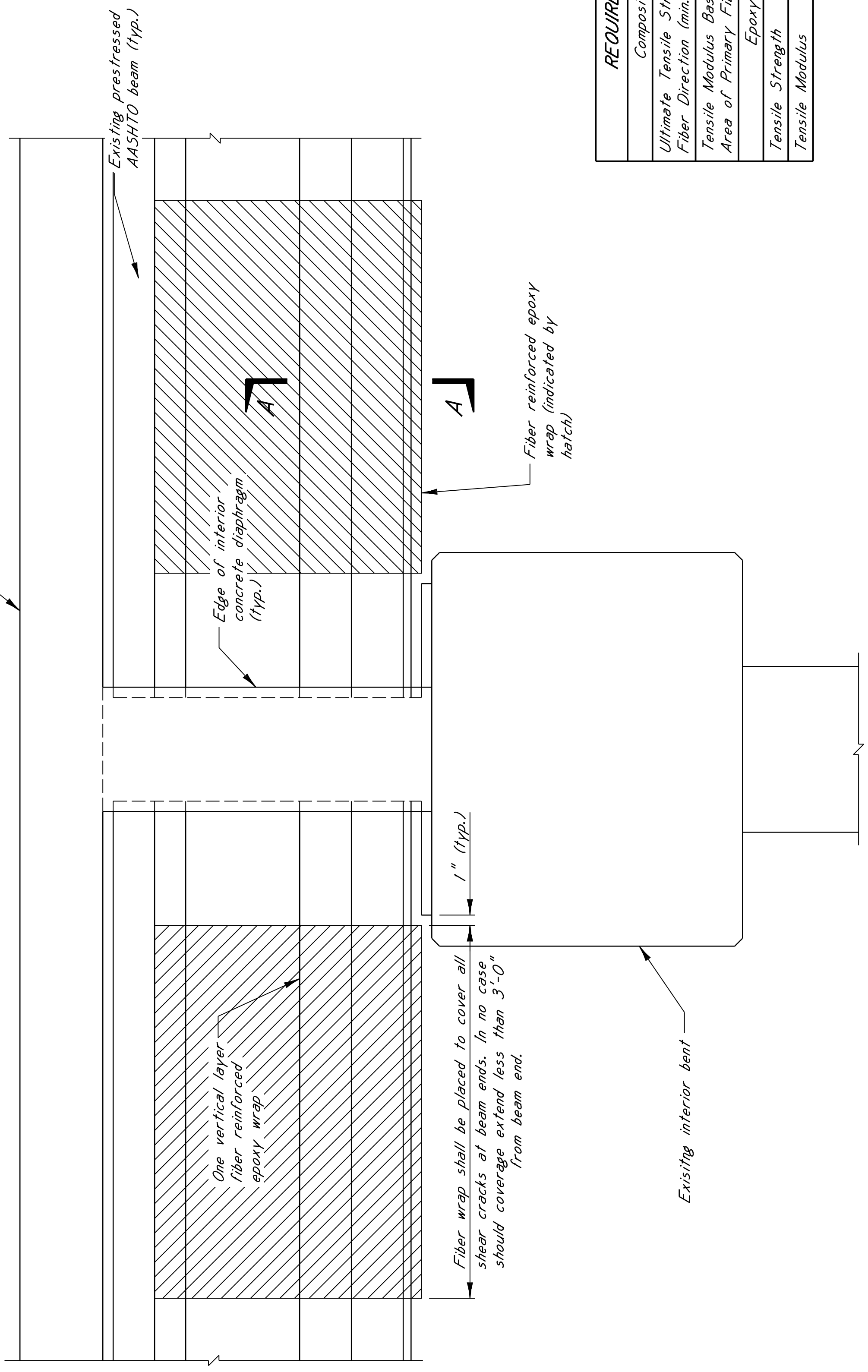
The fiber reinforced wrap shall be applied to the prestressed beams with the fibers oriented vertically.

The Contractor shall submit reinforced fiber wrap system for approval prior to application. The cost of all work, including material, to install reinforced fiber wrap shall be paid for on a square foot basis as Bridge Repair, Reinforced Fiber Wrap Repair.

In addition to the Manufacturer's requirements, the Contractor shall ensure the structural integrity and durability of the reinforced fiber wrap system by meeting the following acceptance guidelines:

- Small delaminations, less than 2 in<sup>2</sup> each, are permissible as long as the delaminated area is less than 5% of the total laminate area and there are no more than 10 such delaminations per 10 ft<sup>2</sup>;
- Large delaminations, greater than 25 in<sup>2</sup>, can affect the performance of the installed system and shall be repaired by selectively cutting away the affected sheet and applying an overlapping sheet patch of equivalent piles; and
- Delaminations less than 25 in<sup>2</sup> may be repaired by ply replacement.

Before repairing any delaminated areas, the Contractor shall submit a FRP repair procedure to the Director of Structures, State Bridge Engineer for review and approval.



**BEAM ELEVATION**  
Scale: 3/4" = 1'-0"

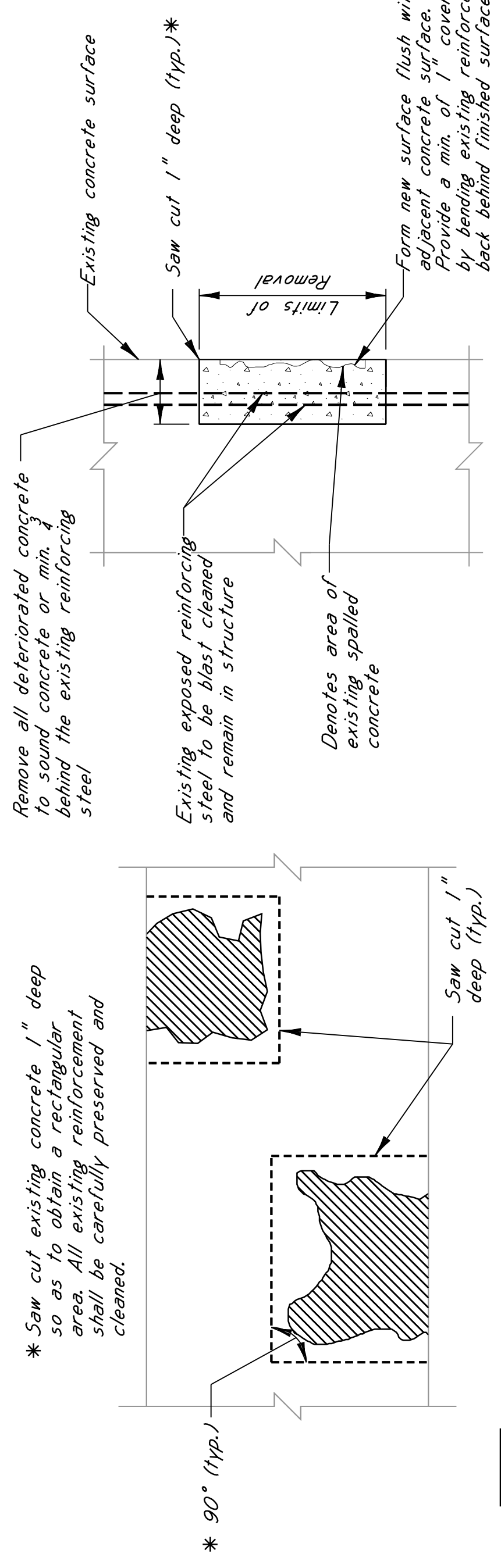
REQUIRED FIBER REINFORCEMENT EPOXY WRAP PROPERTIES	
Composite Properties	ASTM Test Method
Ultimate Tensile Strength in Primary Fiber Direction (min.)	D3039
Tensile Modulus Based on Cross Sectional Area of Primary Fibers (min.)	D3039
Epoxy Properties	ASTM Test Method
Tensile Strength	D-638
Tensile Modulus	D-638

## EPOXY REPAIR NOTE:

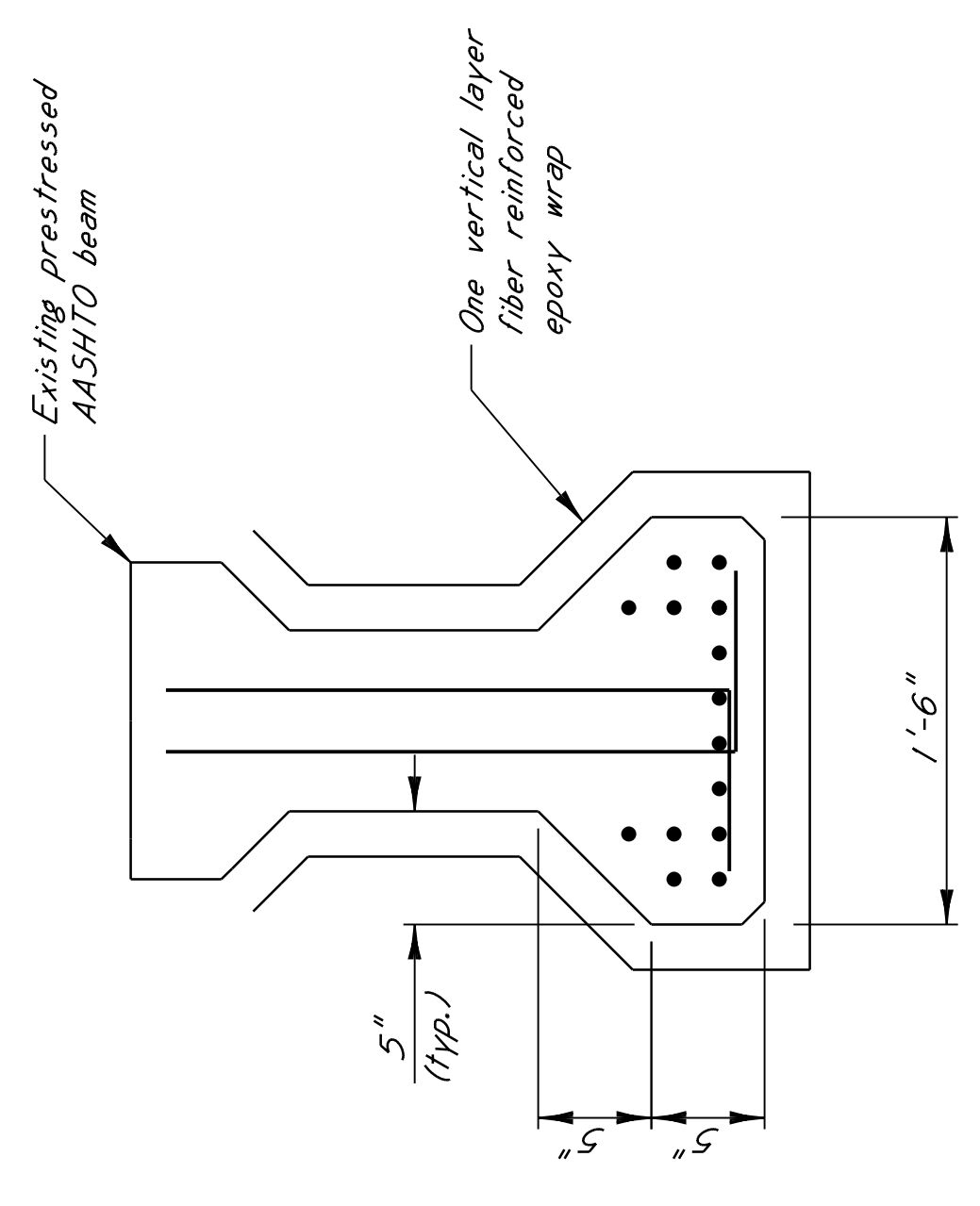
Repair concrete spalled areas on the left lane bridge, as noted on the plans using epoxy mortar. Spalled areas where patch rust has developed around or on reinforcement shall be removed by small hand tools or pressure washing (using 3500 psi pressure). The area of the bridge repaired with epoxy mortar shall be restored to the original dimensions and details as shown in the information plans, unless noted otherwise.

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 foot basis as Bridge Repair, Epoxy Repair.

Patching material shall be an epoxy mortar from the MDT approved materials list. See EPOXY MORTAR NOTES on sheet no. 1.



**SPALL REPAIR DETAILS**  
Left Lane North End of Bent 3



**SECTION A-A**  
Scale: 3/4" = 1'-0"

DATE	REVISIONS
8/21/18	ADDED REPAIR NOTE, PROVIDED
PC	ADDITIONAL PROPERTY VALUES IN TABLE
BR	

DESIGNER: Madison McEntire  
 DETAILER: Madison McEntire  
 CHECKER: Anwar Khairi  
 ISSUE DATE: 08/21/18  
 DIRECTOR OF STRUCTURES, STATE BRIDGE ENGINEER - JUSTIN WALKER PE  
 DEPT. DIR. OF STRUCTURES, ASSIST. STATE BRIDGE ENGINEER - SCOTT WESTERFIELD PE

PROJECT 107639/301000  
 BR-0070-04(025)  
 LAFAYETTE COUNTY

MISSISSIPPI DEPARTMENT OF TRANSPORTATION  
 BRIDGE AT STA. 120+11.21 LT.&RT.LN.  
 MISCELLANEOUS  
 CONCRETE REPAIRS

WORKING NUMBER 18 of 19  
 SHEET NUMBER 8019

