



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**Request for
 Quotation**

RFQ NUMBER
 05110139

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 BUYER 33
 304-558-2402

VENDOR

*709042451 304-425-8955
 EASTERN VAULT COMPANY INC
 PO BOX 1134
 PRINCETON WV 24740

SHIP TO

DIVISION OF HIGHWAYS
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B	FREIGHT TERMS
09/16/2010	NET 30	OUR TRUCK	JOBSITE	INCLUDED

BID OPENING DATE: 10/13/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	8	SF		210-16		\$45,694.00 <i>BA</i>
	17"X36" PRESTRESSED CONCRETE BOX BEAMS/KING LEAR					
0002	7	SF		210-16		\$64,198.50 <i>BA</i>
	27"X36" PRESTRESSED CONCRETE BOX BEAMS/AVON BEND					
	TO PROVIDE PRESTRESSED CONCRETE BOX BEAMS FOR THE AVON BEND BRIDGE PROJECT NO. S319-25/14-1.50 AND KING LEAR BRIDGE PROJECT NO. S319-25/14-1.50 WITH ACCESSORIES FOR THE WEST VIRGINIA DIVISION OF HIGHWAYS PER THE ATTACHED SPECIFICATIONS AND DRAWINGS.					
	EXHIBIT 10					
	REQUISITION NO.:					
	ADDENDUM ACKNOWLEDGEMENT					
	I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.					
	ADDENDUM NO.'S:					
	NO. 1					
	NO. 2					
	NO. 3					

RECEIVED
 2010 OCT 13 AM 8:14
 WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *B.P. [Signature]* TELEPHONE 304-425-8955 DATE 10-10-10

TITLE Controller FEIN 55-0520255 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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 Department of Administration
 Purchasing Division
 2019 Washington Street East
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VENDOR

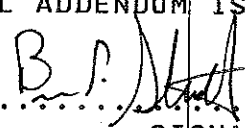
*709042451 304-425-8955
 EASTERN VAULT COMPANY INC
 PO BOX 1134
 PRINCETON WV 24740

SHIP TO

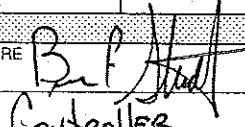
DIVISION OF HIGHWAYS
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/16/2010				

BID OPENING DATE: **10/13/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
NO. 4					
NO. 5					
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF TH ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;">  BRIAN P. STRUBLE SIGNATURE EASTERN VAULT Co., INC. COMPANY 10-10-10 DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE  TELEPHONE **304-425-8955** DATE **10-10-10**

TITLE **Controller** FEIN **55-0520255** ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO REQ INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED VENDOR



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09/16/2010				

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER:				33		
RFQ. NO.:				05110139		
BID OPENING DATE:				10/13/2010		
BID OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
----- 304 425-1171 -----						
CONTACT PERSON (PLEASE PRINT CLEARLY):						
----- BRIAN P. STRUBE -----						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

Item No.	Quantity	Description	Unit Price	Amount
PRESTRESSED CONCRETE BOX BEAMS & ASSOCIATED HARDWARE				
AVON BEND BRIDGE, STATE PROJECT #S319-25/14-1.50				
01	2.00	Each - EXTERIOR BEAMS 27" depth x 36" width x 51'-4" overall length (49'-10" c-c bearing anchor bolt holes). With all guardrail & hardware attached.	<u>10,323.00</u> BPA	<u>20,646.00</u> BPA
02	5.00	Each - INTERIOR BEAMS 27" depth x 36" width x 51'-4" overall length (49'-10" c-c bearing anchor bolt holes).	<u>7,800.00</u> BPA	<u>39,000.00</u> BPA
03	14.00	Each - ELASTOMERIC BEARING PADS (1 5/8" thick x 9" x 24").	<u>100.00</u>	<u>1400.00</u>
04	14.00	Each - NO. 8 DEFORMED ANCHOR BOLT (Grade 60) bar. 1" diameter x 2'-0" length.	<u>10.00</u>	<u>14000</u>
05	45.00	LF - PREFORMED JOINT FILLER (1" thick x 27")	<u>22.50</u>	<u>1012.50</u>
06	4.00	Each - POST TENSIONING BARS (1" diameter, threaded, 24' full length bars, with all plates, hex nuts and other hardware as required).	<u>500.00</u> BPA	<u>2000.00</u>
			TOTAL	<u>\$ 64,198.00</u> BPA
EXTERIOR BEAMS ARE TO BE SHIPPED COMPLETE WITH ALL GUARDRAIL, INSERTS, GUARDRAIL POSTS, AND GUARDRAIL ATTACHED.				
ALL BEAMS AND OTHER ITEMS ARE TO BE IN ACCORDANCE WITH THE ATTACHED PLANS AND SPECIFICATIONS FOR THIS PROJECT.				
ABOVE ITEMS FOR AVON BEND BRIDGE				

Item No.	Quantity	Description	Unit Price	Amount
PRESTRESSED CONCRETE BOX BEAMS & ASSOCIATED HARDWARE				
KING LEAR BRIDGE, STATE PROJECT #S319-25/14-1.50				
01	2.00	Each - EXTERIOR BEAMS 17" depth x 36" width x 31'-6" overall length (30'-0" c-c bearing anchor bolt holes). With all guardrail & hardware attached.	<u>7,293.00</u> BPM	<u>14,586.00</u> BPM
02	6.00	Each - INTERIOR BEAMS 17" depth x 36" width x 31'-6" overall length (30'-0" c-c bearing anchor bolt holes).	<u>4,500.00</u> BPM	<u>27,000.00</u> BPM
03	16.00	Each - ELASTOMERIC BEARING PADS (3/4" thick x 5" x 24").	<u>75.00</u>	<u>1200.00</u>
04	16.00	Each - NO. 8 DEFORMED ANCHOR BOLT (Grade 60) bar. 1" diameter x 2'-0" length.	<u>10.00</u>	<u>160.00</u>
05	50.00	LF - PREFORMED JOINT FILLER (1" thick x 17")	<u>15.00</u>	<u>750.00</u>
06	3.00	Each - POST TENSIONING BARS (1" diameter, threaded, 27' full length bars, with all plates, hex nuts and other hardware as required).	<u>666.00</u>	<u>1998.00</u>
EXTERIOR BEAMS ARE TO BE SHIPPED COMPLETE WITH ALL GUARDRAIL, INSERTS, GUARDRAIL POSTS, AND GUARDRAIL ATTACHED.			TOTAL	\$ <u>45,694.00</u> BPM
ALL BEAMS AND OTHER ITEMS ARE TO BE IN ACCORDANCE WITH THE ATTACHED PLANS AND SPECIFICATIONS FOR THIS PROJECT.				
ABOVE ITEMS FOR KING LEAR BRIDGE				

SPECIFICATIONS

The West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2000 as modified by the latest Supplemental Specifications shall apply to this requisition.

All Prestressed Concrete Box Shaped Beams shall be manufactured in accordance with West Virginia Department of Transportation, Division of Highways Standard Bridge Plan Sheets dated 9/96 as follows:

<u>Item Description</u>	<u>Standard Sheet No</u>	<u>Revision Date</u>
Superstructure Plan	BR-1 & BR-1A	9/91
General Notes	BR-2A	9/93
17" Box Beam	BR-B17A & BR-B17B	9/96
27" Box Beam	BR-B27A & BR-B27B	9/96
Beam Details	BR-B100, BR-B101, & BR-B104	9/96
Post-Tensioning Details	BR-B103	9/96

Alternates to the above Division of Highways standards will be permitted if approved by the District Five Bridge Engineer. Alternate designs must be submitted for approval using the Design Data Charts provided as a part of the quotation sheets for this requisition and must be approved prior to award of this requisition purchase order.

The terms "Contractor" and "Vendor" used in the above specifications or this requisition are interchangeable. Contractor shall mean Vendor and Vendor shall mean Contractor.

West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2000 and Supplemental Specifications dated January 1, 2009 may be obtained from:

WEST VIRGINIA DIVISION OF HIGHWAYS
 CONTRACT ADMINISTRATION DIVISION
 1900 KANAWHA BLVD, EAST
 BLDG. 5, ROOM A-729
 CHARLESTON, WV 25305
 PHONE (304) 558-2871

West Virginia Department of Transportation, Division of Highways Standard Bridge Plan Sheets may be obtained from:

WEST VIRGINIA DIVISION OF HIGHWAYS
DISTRICT FIVE HEADQUARTERS, BRIDGE DEPT.
P.O. BOX 99
BURLINGTON, WV 26710-0099
PHONE (304) 289-2220

ACCEPTANCE

Cracks developing in a beam may be cause for rejection of the beam. Cracks that are not detrimental to the structural integrity of the beam, as determined by the Division of Highways, may be accepted under the following conditions:

- 1) Cracks of 0.004 inch or less shall be treated with a second coat of a Division of Highways approved concrete sealer.
- 2) Cracks of greater than 0.004 inch shall be treated by a Division of Highways approved epoxy injection methods.

All concrete sealer and epoxy injection required for acceptance shall be performed at no additional cost to the Division of Highways.

DELIVERY REQUIREMENTS

Upon receipt of a State Purchase Order the Vendor shall submit shop drawings to the District Five Bridge Engineer within twenty (20) calendar days for the Avon Bend Bridge 27" beams, and within thirty (30) calendar days for the King Lear Bridge. Shop drawings must be approved the Division of Highways prior to the manufacture of any beam sections.

All beam sections and accessories shall be available for delivery to the specified delivery site within (60) calendar days after Vendor's receipt of approved shop drawings.

The Division of Highways requires that all seven (7) beam sections for Avon Bend Bridge be delivered on the same day, and all eight (8) beams for King Lear Bridge be delivered on a subsequent, but single day.

Should the Vendor fail to meet the above delivery schedule, liquidated damages will be assessed in accordance with Section 108.7 of the current Division of Highways Standard Specifications Road and Bridges except, said liquidated damages shall apply to the months of December thru March as well as April thru November. Additionally, in the event the Vendor fails to deliver all beams for a particular bridge on a single day, a separate penalty of \$1,000.00 per day up to a maximum of \$3,000.00 per bridge shall be assessed.

Prior to delivery, all Beams, Accessories, and Optional Items shall be inspected for acceptance in accordance with Section 603 of the Division of Highways Standard Specifications Road and Bridges adopted 2000 as modified by the January 1, 2009 Supplemental Specifications.

VENDOR INVOICE

Vendors invoices must be submitted in original and one copy and contain the following:

- a. Division of Highways Requisition Purchase Order number.
- b. Total quantity and unit price with the total cost of each Item.

NOTE: Under no circumstance will the West Virginia Division of Highways, accept or pay for quantities of material in excess of the quantity stated on the Requisition Purchase Order.

PARTIAL PAYMENT OF APPROVED BOXES & BEAMS

Upon completion of manufacture and approval by the Division of Highways of all Box Sections and Beams specified on an individual State Contract Order (SCO), the vendor may invoice and the Division will pay for the cost of manufacturing the Box Sections and Beams, not to exceed 65% of the total cost of the delivered Box Sections and Beams. Partial payment for Box Sections and Beams shall be subject to the following conditions:

- a. The vendor must request partial payment and furnish an official invoice for the manufactured and approved Box Sections and Beams.
- b. The partial payment invoice shall be accompanied by a surety bond equal to the invoiced amount guaranteeing delivery of all items specified on the State Contract Order (SCO).
- c. The vendor shall furnish a statement of approved Box Sections and Beams condition and exact storage location.

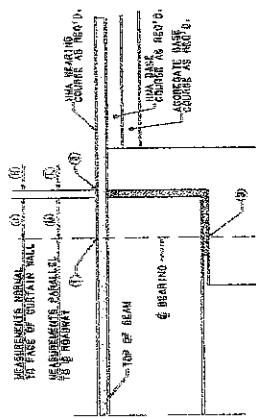
- d. The vendor shall furnish a legal right-of-entry onto the storage site to Division of Highways' employees and/or agents for the purpose of inspecting, sampling, testing and removing any or all Box Sections and Beams.
- e. The vendor shall certify that the stored Box Sections and Beams are suitably marked and identified as property of the Division of Highways and will not be used for any purpose not designated by the Division.
- f. The vendor shall furnish an official invoice and the Division of Highways shall process that invoice for the remaining amount (not to exceed 35%) of the total cost of the units upon acceptance of delivery by the Division of Highways.

SHEET NO.	16
LOCAL DATE	
COUNTY	JEFFERSON
PROJECT NUMBER	331P-25/1A-1.3D
DATE	6/19/13

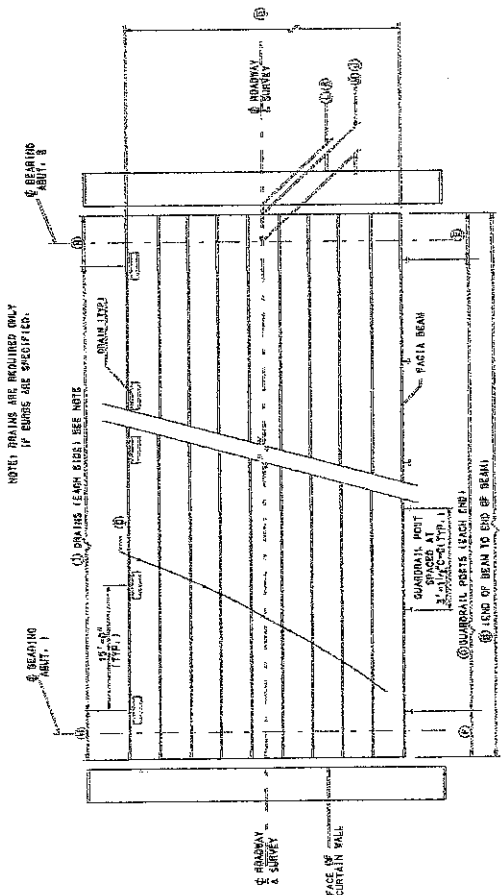
CONTROL DIMENSIONS

DIMENSION	CODE	VALUE
NORMAL CURVING	A	
LENGTH OF BEAM, OUT-TO-OUT	B	31'-0"
BEAM WIDTH, OUT-TO-OUT	C	24'-0"
NUMBER OF BEAMS	D	8
SPAN LENGTH, ϕ BEARING TO ϕ BEARING	E	30'-0"
DISTANCE FROM END OF BEAM TO FIRST QUADRANT POST	F	1'-0"
NUMBER OF QUADRANT POSTS, EACH SIDE	G	10
DISTANCE FROM END OF BEAM TO ϕ OF DRAIN (IF REQUIRED)	H	N/A
NUMBER OF DRAINS, EACH SIDE (IF REQUIRED)	I	N/A
PERPENDICULAR DISTANCE FROM ϕ BEARING TO END OF BEAM	J	9"
PERPENDICULAR WIDTH OF SEPARATION BETWEEN QUADRANT POSTS	K	1"
NUMBER OF QUADRANT POSTS, EACH SIDE (IF REQUIRED)	L	1"
DISTANCE FROM ϕ BEARING TO ϕ OF BEAM (PARALLEL TO ϕ ROAD)	M	9"
GRADE δ	N	0.19%

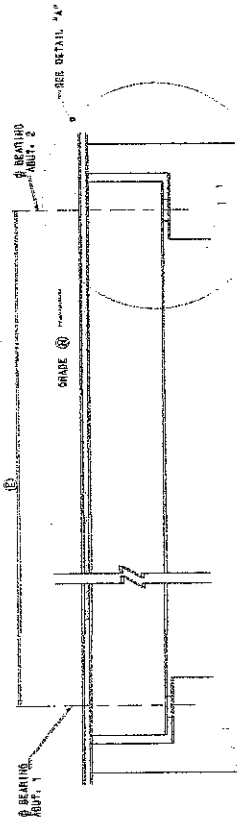
ITEM	DESCRIPTION	UNIT	QUANTITY
301-312	CLASS 1 AGGREGATE BASE COURSE, 5.16"	CY	N/A
301-313	CLASS 1 AGGREGATE BASE COURSE, 5.16"	CY	N/A
401-0110	1/4" BASE COURSE, 5.16"	TON	N/A
401-01150	1/4" BASE COURSE, 5.16"	TON	N/A
401-0225	1/4" WEARING COURSE, 5.16"	TON	N/A
401-0225a	1/4" WEARING COURSE, 5.16"	TON	N/A
901-01	PRESTRESSED CONCRETE BEAMS	UP	252



CONTROL ELEVATIONS & BEARING DIMENSIONS
ALONG ϕ ROADWAY
DETAIL "A"



SUPERSTRUCTURE LAYOUT PLAN



SUPERSTRUCTURE ELEVATION ALONG ϕ ROADWAY

ESTIMATE OF QUANTITIES

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

KING LEAR BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

BRIDGE NO. CRK
PROJECT NO.
DESIGN NO.
DATE
SCALE
DATE
BY
CHECKED BY
BRIDGE NUMBER
19-25/14-16

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES
DESIGNED BY
CHECKED BY
DATE
BY
DATE

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES
DESIGNED BY
CHECKED BY
DATE
BY
DATE

SHEET BR-1

GOVERNING SPECIFICATIONS

The governing provisions apply to the project as the West Virginia Department of Highways finds that the project meets the requirements of the governing specifications and the provisions of the Virginia Department of Highways, the contract documents and the contract documents.

DESIGN-NEW STRUCTURES

The design is required for a two (2) foot opening with a 24 inch opening width.
Class 1 Concrete, 4,000 P.S.I.
Class 2 Concrete, 3,500 P.S.I.
Structural Steel, A36, 25000 P.S.I.

DESIGN-REHABILITATION AND STRENGTHENING

This design is required for a two (2) foot opening with a 24 inch opening width.
P.A.L. Rehabilitation shall be in accordance with the requirements of the Rehabilitation Manual.

CONCRETE (CAST-IN-PLACE)

Concrete shall be placed in accordance with Subsection 201.1 of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

SUBSTRUCTURE CONCRETE (CAST-IN-PLACE)

All concrete in the substructure shall be placed in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

SUBSTRUCTURE CONCRETE (CAST-IN-PLACE)

All concrete in the substructure shall be placed in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

REINFORCING STEEL BARS

All reinforcing steel bars shall be placed in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

EXCAVATION FOOTINGS FOUNDED IN ROCK

Excavation footings founded in rock shall be placed in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

STEEL JOINTS REQUIREMENT

The provisions of the Standard Specifications shall apply to the project as the West Virginia Department of Highways finds that the project meets the requirements of the governing specifications and the provisions of the Virginia Department of Highways, the contract documents and the contract documents.

PAINTING (NEW STRUCTURES)

Steel and steel painting shall be in accordance with Section 105 of the Standard Specifications. The provisions of the Standard Specifications shall apply to the project as the West Virginia Department of Highways finds that the project meets the requirements of the governing specifications and the provisions of the Virginia Department of Highways, the contract documents and the contract documents.

STEEL GRID FLOORING (OPEN TYPE)

The steel grid flooring and uniform in all applicable requirements as shown on the contract documents. The provisions of the Standard Specifications shall apply to the project as the West Virginia Department of Highways finds that the project meets the requirements of the governing specifications and the provisions of the Virginia Department of Highways, the contract documents and the contract documents.

STEEL GRID FLOORING (CONCRETE FILLED TYPE)

The steel grid flooring and uniform in all applicable requirements as shown on the contract documents. The provisions of the Standard Specifications shall apply to the project as the West Virginia Department of Highways finds that the project meets the requirements of the governing specifications and the provisions of the Virginia Department of Highways, the contract documents and the contract documents.

CLEANING AND PAINTING (EXISTING STRUCTURES)

Paint cleaning and painting shall be in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

STEEL GRID FLOORING (OPEN TYPE)

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MAINTAINING TRAFFIC

Traffic shall be maintained in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

STRUCTURE EXCAVATION (FOOTINGS FOUNDED ON PILES)

Structure excavation footings founded on piles shall be placed in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

PREFORMED ELASTOMERIC JOINT BEARERS

The preformed elastomeric joint bearers shall be placed in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

PROJECT NUMBER	CITY	SHEET TOTAL
6	JEFFERSON	2
DATE		NO.
8/10/10		16

MAIL LAMINATED WOOD DECK

The bridge structure shall be constructed in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

STRUCTURAL STEEL

All structural steel shall be placed in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

STEEL GRID FLOORING (OPEN TYPE)

The steel grid flooring and uniform in all applicable requirements as shown on the contract documents. The provisions of the Standard Specifications shall apply to the project as the West Virginia Department of Highways finds that the project meets the requirements of the governing specifications and the provisions of the Virginia Department of Highways, the contract documents and the contract documents.

STEEL GRID FLOORING (CONCRETE FILLED TYPE)

The steel grid flooring and uniform in all applicable requirements as shown on the contract documents. The provisions of the Standard Specifications shall apply to the project as the West Virginia Department of Highways finds that the project meets the requirements of the governing specifications and the provisions of the Virginia Department of Highways, the contract documents and the contract documents.

STEEL GRID FLOORING (OPEN TYPE)

The steel grid flooring and uniform in all applicable requirements as shown on the contract documents. The provisions of the Standard Specifications shall apply to the project as the West Virginia Department of Highways finds that the project meets the requirements of the governing specifications and the provisions of the Virginia Department of Highways, the contract documents and the contract documents.

STEEL GRID FLOORING (CONCRETE FILLED TYPE)

The steel grid flooring and uniform in all applicable requirements as shown on the contract documents. The provisions of the Standard Specifications shall apply to the project as the West Virginia Department of Highways finds that the project meets the requirements of the governing specifications and the provisions of the Virginia Department of Highways, the contract documents and the contract documents.

MAINTAINING TRAFFIC

Traffic shall be maintained in accordance with the requirements of the Standard Specifications. A minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete. The minimum curing period shall be provided to the surface of the concrete to the full depth of the concrete.

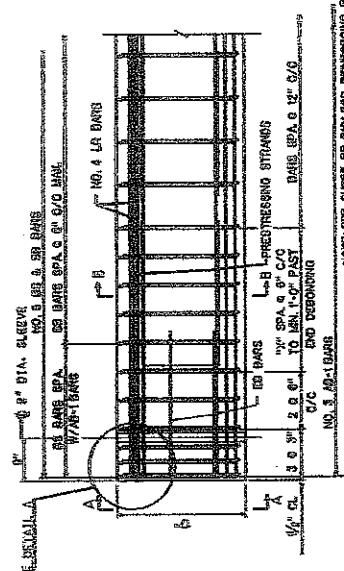
NOTE SECTION TABLE	
NO.	DESCRIPTION
1	GENERAL NOTES
2	GENERAL NOTES
3	GENERAL NOTES
4	GENERAL NOTES
5	GENERAL NOTES
6	GENERAL NOTES
7	GENERAL NOTES
8	GENERAL NOTES
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41	GENERAL NOTES
42	GENERAL NOTES
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44	GENERAL NOTES
45	GENERAL NOTES
46	GENERAL NOTES
47	GENERAL NOTES
48	GENERAL NOTES
49	GENERAL NOTES
50	GENERAL NOTES

CONTROL VALUE	
CON.	VALUE
1	1.00
2	1.00
3	1.00
4	1.00
5	1.00
6	1.00
7	1.00
8	1.00
9	1.00
10	1.00
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14	1.00
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49	1.00
50	1.00

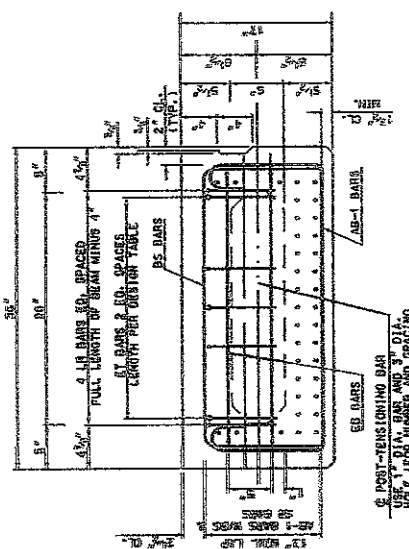
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	DRIVE NO. 0000
DIVISION OF HIGHWAYS-STRUCTURE	DRAWN BY 0000
KING LEAR BRIDGE	CHECKED BY 0000
OVER	DATE 00/00/00
BULLSKIN RUN	SCALE 1"=40'
IN	PROJECT NO. 0000
JEFFERSON COUNTY	DATE 00/00/00
GENERAL NOTES	BRIDGE NUMBER 10-2094-1-00

SHEET NO.	15
DATE	
COUNTY	JEFFERSON
PROJECT NUMBER	0310-08/14-108
DATE	3/16

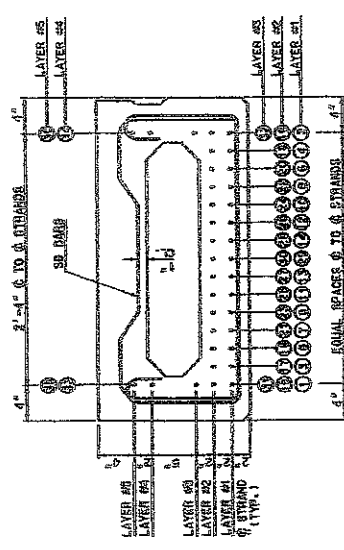
- NOTES:**
- ALL NON-PRESTRESSING REINFORCING BARS SHALL BE GRADE 60.
 - ALL LAP SPICES LENGTHS EXCEPT WHERE SHOWN, SHALL BE AS PER TABLE ON SHEET BR-501A.
 - ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED.
 - ALL STRANDS SHALL BE ENCLOSED INSIDE THIS SHEET TO BE USED WITH STANDARD SHEET NUMBERS 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 AND 30 ARE USED. SEE SHEET BR-501A FOR DETAIL OF 3" DIA. ANCHOR STRAND.



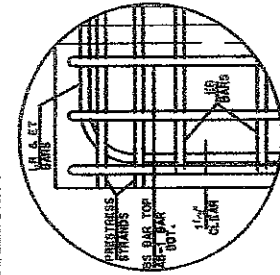
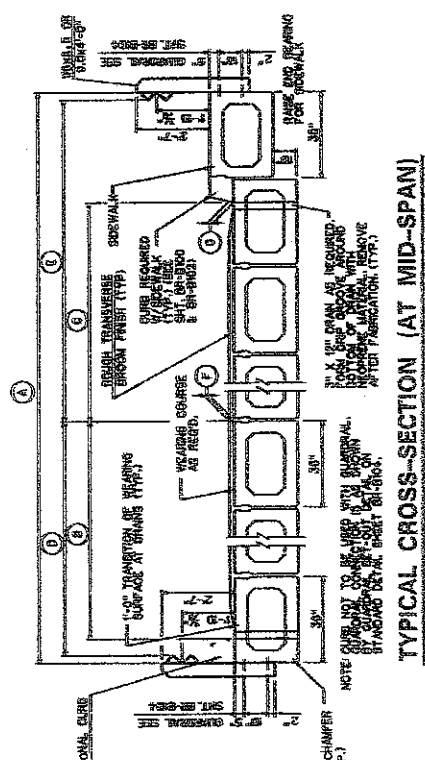
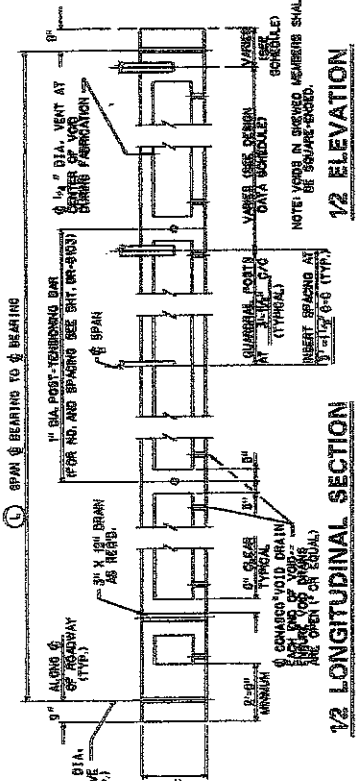
REINFORCING STEEL ELEV. VIEW



SECTION A-A
TYPICAL BEAM REINFORCEMENT



SECTION B-B
TYPICAL BEAM PRESTRESSING



DETAIL A

CODE	DESCRIPTION	VALUE	DESCRIPTION	VALUE
A	BECK WIDTH OUT TO OUT	24'-0"	HOT-LAD BITUMINOUS CONCRETE REQUIRED (YES OR NO)	YES
B	DISTANCE FROM FACE OF CURB TO FACE OF CURB (NO SIDEWALK)	N/A	GUARDRAIL REQUIRED (YES OR NO)	YES
C	DISTANCE FROM FACE OF CURB TO FACE OF CURB (WITH SIDEWALK)	N/A	DRAINS REQUIRED (YES OR NO)	NO
D	DISTANCE FROM FACE OF CURB TO FACE OF GUARDRAIL (NO SIDEWALK)	12'-0"	CURTAIN WALL REQUIRED (YES OR NO)	YES
E	DISTANCE FROM FACE OF CURB TO FACE OF GUARDRAIL (WITH SIDEWALK)	N/A	GUARDRAIL SETOUT REQUIRED (YES OR NO)	YES
F	THICKNESS OF WEARING COURSE AT FACE OF ROADWAY	3"	GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO
G	THICKNESS OF WEARING COURSE AT FACE OF CURB	1"		
H	SPAN LENGTH, & BEARING TO & BEARING	30'		
I	OPTIONAL 10" CURB TO BE INCLUDED (YES OR NO) (SEE SPECIAL DESIGN)	NO		
J	TOE PLATE REQUIRED (YES OR NO)	NO		

CODE	DESCRIPTION	VALUE
A	HOT-LAD BITUMINOUS CONCRETE REQUIRED (YES OR NO)	YES
B	GUARDRAIL REQUIRED (YES OR NO)	YES
C	DRAINS REQUIRED (YES OR NO)	NO
D	CURTAIN WALL REQUIRED (YES OR NO)	YES
E	GUARDRAIL SETOUT REQUIRED (YES OR NO)	YES
F	GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY-STRUCTURES

KING LEAR BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

17" PRESTRESSED BOX BEAM
DESIGN & ASSEMBLY DETAILS

BRIDGE NUMBER
19-25/14-1

DESIGNER & ASSEMBLY DETAILS
STANDARD SHEET BR-501A

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY-STRUCTURES
17" PRESTRESSED BOX BEAM
DESIGN & ASSEMBLY DETAILS
STANDARD SHEET BR-501A

DATE: 3/16

BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

PROJECT NO.	PROJECT REPAIR	COUNTY	SHEET TOTAL
5	3310-26/14-1.80	JEFFERSON	4
DATE			NO. SHEETS
5/14/80			76

MIN. CONCRETE STRENGTH @ DEFLECTION = 4,500 PSI.
 MIN. CONCRETE STRENGTH @ CRACKING = 3,800 PSI.
 JACKING FORCE ALLOW RELAX GAINING = 36,800 LBS.

LAYER 1-REBENDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	DESIGN DATA FOR 17" DEPTH BOX BEAM									
	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'
1. SPAN LENGTH @ TO & BEARING	17'-2"	23'-8"	28'-6"	27'-6"	29'-6"	31'-6"	33'-6"	35'-6"	37'-6"	39'-6"
OVERALL LENGTH ALONG & ROADWAY	17'-2"	23'-8"	28'-6"	27'-6"	29'-6"	31'-6"	33'-6"	35'-6"	37'-6"	39'-6"
NO. OF GRADE STG. 1/2" DIA. LONG-RELAX. STRANDS - AREA/STRAND = 0.193 SQ. IN.	8	8	8	8	8	8	8	8	8	8
STAND POSITION NUMBER	12, 12, 28 & 30	12, 12, 11, 12, 15, 16, 35 & 38	12, 12, 11, 12, 15, 16, 35 & 38	12, 12, 11, 12, 15, 16, 35 & 38	12, 12, 11, 12, 15, 16, 35 & 38	12, 12, 11, 12, 15, 16, 35 & 38	12, 12, 11, 12, 15, 16, 35 & 38	12, 12, 11, 12, 15, 16, 35 & 38	12, 12, 11, 12, 15, 16, 35 & 38	12, 12, 11, 12, 15, 16, 35 & 38
PRESTRESSING FORCE AT DETENSION (KIPS/BEAM)	182	241	241	241	259	280	356	413	413	488
FINAL PRESTRESSING FORCE (KIPS/BEAM)	163	221	222	221	213	211	352	388	388	412
ULTIMATE DESIGN MOMENT (FT-KIPS/BEAM)	202	225	249	282	322	351	402	442	488	533
ULTIMATE RESISTING MOMENT (FT-KIPS/BEAM)	200	270	276	293	345	372	480	476	490	555
TOTAL NUMBER OF DEBENDED STRANDS	-	-	-	-	-	-	-	-	-	-
LAYER 1-REBENDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	-	-	-	-	-	-	-	-	-	-
LAYER 2-REBENDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	-	-	-	-	-	-	-	-	-	-
END TENSION STEEL EACH END (SIZE & LENGTH)	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 7'-0"	3-#4 X 7'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"
DEFLECTION, INCHES UPWARD (in)	0.03	0.08	0.08	0.11	0.14	0.22	0.27	0.37	0.42	0.61
ERECTOR, INCHES UPWARD (in)	0.08	0.12	0.11	0.13	0.20	0.32	0.39	0.55	0.63	0.93
FINAL, INCHES UPWARD (in)	0.04	0.13	0.10	0.13	0.18	0.31	0.37	0.54	0.59	0.93
WEIGHT OF TYPICAL BEAM INCLUDING DIAPHRAGM (TONS/10.0')	9.0	6.1	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.0
NO. OF INSERTS	7	8	8	8	10	10	11	12	12	13
NUMBER AND SPACING OF REBAR/ALL INSERTS	1-#6 @ 1'-0"	1-#6 @ 1'-0"	1-#6 @ 1'-0"	1-#6 @ 1'-0"	1-#6 @ 1'-0"	1-#6 @ 1'-0"	1-#6 @ 1'-0"	1-#6 @ 1'-0"	1-#6 @ 1'-0"	1-#6 @ 1'-0"
NO. OF BEAM TO EACH END	1	1	1	1	1	1	1	1	1	1
NO. OF FIRST INSERT TO & SECOND INSERT EACH END	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"

- NOTES:
- BEAM WEIGHTS LISTED IN DESIGN TABLES ARE APPROXIMATE AND ARE BASED ON ZERO SKEW AND DIAPHRAGMS SPACING OF 10'-0" TO 15'-0" MAX. ADDITION OF SKEW AND EXTRA DIAPHRAGMS WILL INCREASE WEIGHT.
 - FOR STANDARD CURVE ADD 53 LBS. (0.05 TON) PER CURB PER FOOT OF BEAM.
 - PURPOSES ONLY NOT TO BE USED FOR INSPECTION PURPOSES UNLESS PERMITTED BY THE DIRECTOR OF STRUCTURES DIVISION.
 - DATA LISTED IN THE DESIGN TABLE MAY NOT BE VALID FOR SPAN LENGTHS THAT FALL OUTSIDE THE RANGE OF 10' TO 40' AND ENTER SPECIFIC DATA FOR BEAM LENGTH REQUIRED IN THIS COLUMN.
 - THIS SHEET IS TO BE USED WITH STANDARD SHEET NUMBERS BR-1 OR BR-1A, BR-17A, BR-800, BR-801, BR-802, BR-803, AND BR-804.
 - MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
 - DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT BENT BEAM ENDS MAY TWIST OR WARP CAUSING UNEVEN BEAM SEATING AT THE BEARINGS. CONTRACTOR IS REQUIRED TO CHECK THE BEAM SEATING AND MAKE NECESSARY ADJUSTMENTS TO THE BEAM SURFACE. METHOD SHALL BE A PRE-APPROVED METHOD BY DIRECTOR OF STRUCTURES DIVISION.
 - BEAM FABRICATOR SHALL NOTIFY CONTRACTOR THAT BEAM ENDS ARE TWISTED PRIOR TO SHIPPING OF BEAM.

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

KING LEAR BRIDGE
 OVER
BULLSKIN RUN
 IN
JEFFERSON COUNTY

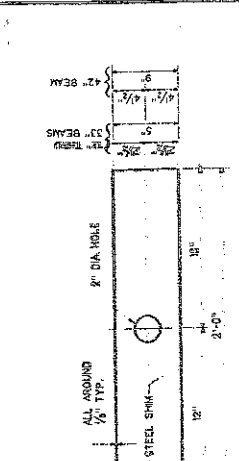
DESIGN TABLE FOR 17"
 PRESTRESSED BOX BEAM

BRIDGE NUMBER
 19-25/14-1-3

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES
 DESIGN TABLE FOR 17"
 PRESTRESSED BOX BEAM

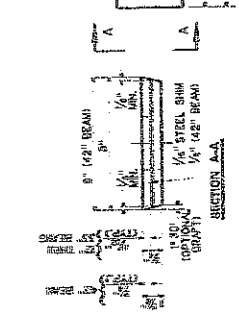
STANDARD SHEET BR-817B

SHEET TOTAL	PROJECT NUMBER	COUNTY	SHEET NO.	TOTAL SHEETS
6	5819-BE/14-1-100	JEFFERSON	6	16



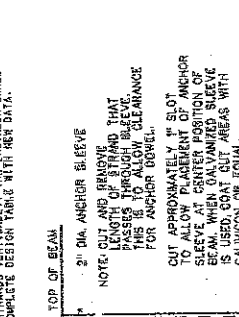
ELASTOMERIC BEARING PAD DETAIL

NOTES: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES. PART 100, SECTION II, WITH A DIMENSIONAL TOLERANCE OF ± 0.1.



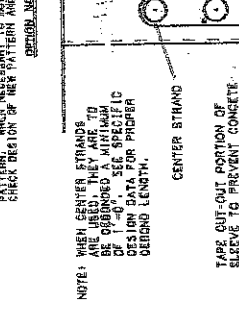
LIFTING LOOP BLOCKOUT DETAILS

NOTES: LIFTING LOOPS SHALL NOT BE EXPOSED TO WEAR OR DAMAGE. ON SKEWED BEAMS, LIFTING LOOPS SHALL BE LOCATED IN A LINE TRANSVERSE TO THE CENTERLINE OF BEAM.



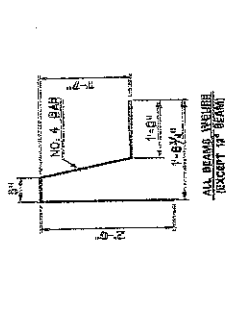
ANCHOR SLEEVE DETAILS

NOTE: WHEN CENTER STRANDS ARE USED, THE LENGTH OF STRAND THAT PASSES THROUGH SLEEVE THIS IS TO ALLOW CLEARANCE FOR ANCHOR BOWELS. CUT APPROXIMATELY 1/4" SLOT TO ALLOW PASSAGE OF ANCHOR BEAM. WHEN GALVANIZED SLEEVE IS USED, COAT CUT AREAS WITH CALUMINON OR EQUAL.



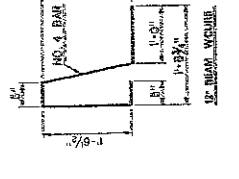
SHEAR REINFORCEMENT DETAIL

NOTES: 1. IF OPTIONAL SPLICES OF LR AND RT BARS ARE USED, THEY SHOULD BE USED AS CLOSE TO THE END OF THE BEAM AS PRACTICABLE. ADDITIONALLY ALL LAP SPLICES SHALL BE CONTACT TYPE.

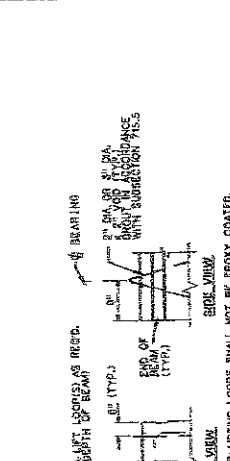


REINFORCING BAR DETAIL

NOTES: 1. MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS EXCEPT FOR NO. 10 AND NO. 11. MINIMUM BAR BENDING DIAMETER SHALL BE 4 BAR DIAMETERS. ALL DIMENSIONS ARE OUT TO OUT.

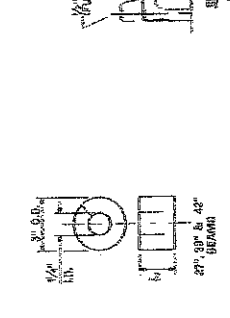


LAP SPLICE TABLE



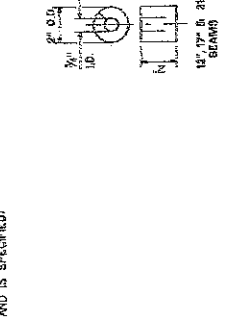
BLOCKOUT DETAIL

NOTES: 1) INDICATOR SHALL PROVIDE BLOCKOUT OF ACUTE CORNERS ON ALL BEAMS WITH SKEWS OF 10 DEGREES OR GREATER. 2) AFTER ERECTION, ALL INTERIOR BLOCKOUT Voids SHALL BE FILLED WITH BROUT IN ACCORDANCE WITH SUBSECTION 719.5 OF THE STANDARD SPECIFICATIONS.



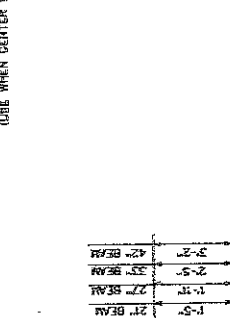
LIFTING LOOP BLOCKOUT DETAILS

NOTES: LIFTING LOOPS SHALL NOT BE EXPOSED TO WEAR OR DAMAGE. ON SKEWED BEAMS, LIFTING LOOPS SHALL BE LOCATED IN A LINE TRANSVERSE TO THE CENTERLINE OF BEAM.



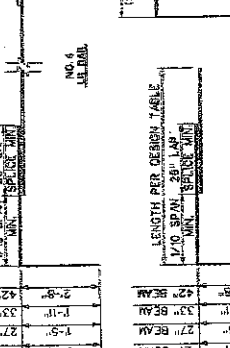
SHEAR REINFORCEMENT DETAIL

NOTES: 1. IF OPTIONAL SPLICES OF LR AND RT BARS ARE USED, THEY SHOULD BE USED AS CLOSE TO THE END OF THE BEAM AS PRACTICABLE. ADDITIONALLY ALL LAP SPLICES SHALL BE CONTACT TYPE.



REINFORCING BAR DETAIL

NOTES: 1. MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS EXCEPT FOR NO. 10 AND NO. 11. MINIMUM BAR BENDING DIAMETER SHALL BE 4 BAR DIAMETERS. ALL DIMENSIONS ARE OUT TO OUT.



LAP SPLICE TABLE

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

KING LEAR BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY
PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

DESIGNED BY: DATE: 10/17/88
CHECKED BY: DATE: 11/10/88
APPROVED BY: DATE: 11/10/88
SCALE: 1/4" = 1'-0"
SHEET NO.: 6
BRIDGE NUMBER: 19-25/14
BRIDGE DEST: UT

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES
DESIGN & ASSEMBLY DETAILS

STANDARD SHEET BR-5101

NOTES: 1. MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS EXCEPT FOR NO. 10 AND NO. 11. MINIMUM BAR BENDING DIAMETER SHALL BE 4 BAR DIAMETERS. ALL DIMENSIONS ARE OUT TO OUT.

2. IF OPTIONAL SPLICES OF LR AND RT BARS ARE USED, THEY SHOULD BE USED AS CLOSE TO THE END OF THE BEAM AS PRACTICABLE. ADDITIONALLY ALL LAP SPLICES SHALL BE CONTACT TYPE.

THIS SHEET IS TO BE USED WITH STANDARD SHEET BR-5101 OR BR-5102, BR-5103, BR-5104, BR-5105, BR-5106, BR-5107, BR-5108, BR-5109, BR-5110, BR-5111, BR-5112, BR-5113, BR-5114, BR-5115, BR-5116, BR-5117, BR-5118, BR-5119, BR-5120, BR-5121, BR-5122, BR-5123, BR-5124, BR-5125, BR-5126, BR-5127, BR-5128, BR-5129, BR-5130, BR-5131, BR-5132, BR-5133, BR-5134, BR-5135, BR-5136, BR-5137, BR-5138, BR-5139, BR-5140, BR-5141, BR-5142, BR-5143, BR-5144, BR-5145, BR-5146, BR-5147, BR-5148, BR-5149, BR-5150, BR-5151, BR-5152, BR-5153, BR-5154, BR-5155, BR-5156, BR-5157, BR-5158, BR-5159, BR-5160, BR-5161, BR-5162, BR-5163, AND BR-5164 AS APPLICABLE.

GENERAL NOTES:

1. TENSIONING THREAD-BARS SHALL BE STRESSED AS FOLLOWS:
 a. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
 b. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
 c. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
2. TENSIONING THREAD-BARS SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
 a. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
 b. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
3. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
 a. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
 b. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
4. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
 a. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.
 b. TENSIONING SHALL BE DONE IN A STRESSING YARD OR IN THE FIELD.

PROCEDURES:

1. THE BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.
 a. THE BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.
 b. THE BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.
2. THE BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.
 a. THE BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.
 b. THE BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.
3. THE BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.
 a. THE BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.
 b. THE BEAMS ARE TO BE SET WITH NO GAP BETWEEN THEM.

POST-TENSIONING BAR DETAILS

1. DO NOT STAND IN LINE WITH THE TENSIONING THREAD-BAR WHEN TENSIONING.
 2. DUE TO THE DANGER ASSOCIATED WITH THE FAILURE OF THE TRANSVERSE POST-TENSIONING SYSTEM COMPONENTS, SPECIAL PROCEDURES SHOULD BE OBSERVED.
 3. REGULAR NUTS SHOULD NOT BE USED FOR THE REPEATED STRESSING OPERATION, AND SHOULD BE USED ONLY ONCE IN THE PERMANENT INSTALLATION.

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

KING LEAR BRIDGE
 OVER
BULLSKIN RUN
 IN
JEFFERSON COUNTY

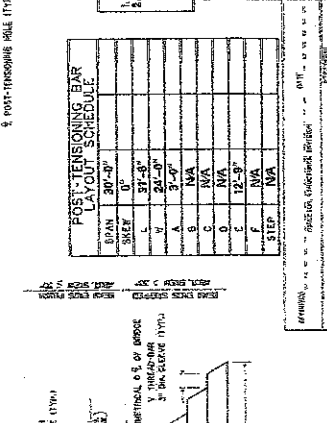
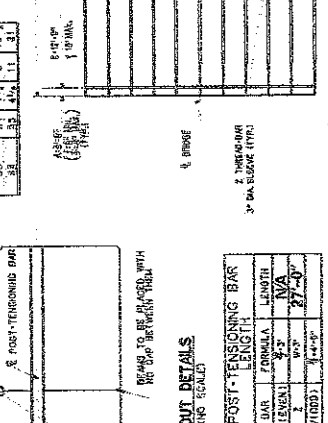
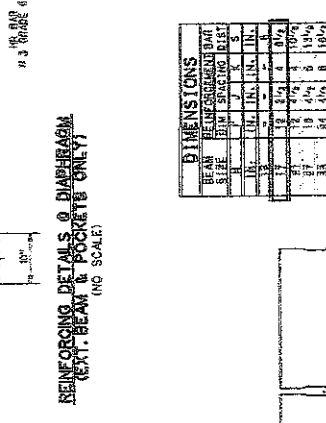
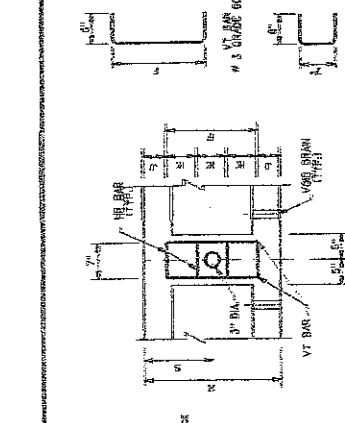
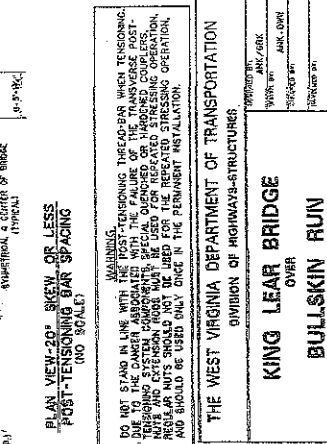
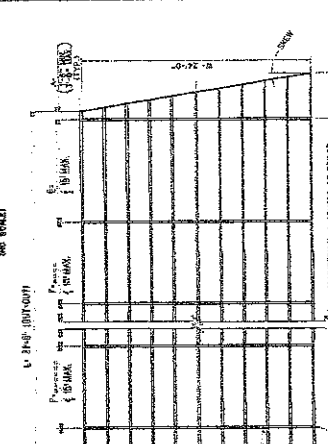
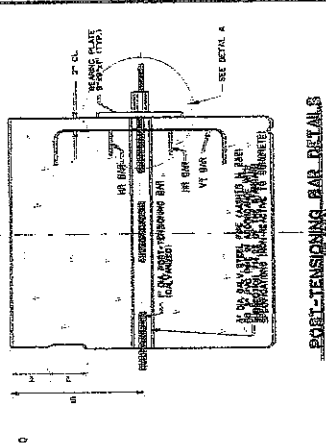
TRANSVERSE POST-TENSIONING DETAILS
PRESTRESSED CONCRETE BEAMS

BRIDGE NUMBER 19-25/14-1-3
 SHEET NO. 7 OF 18

POST-TENSIONING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	NO. PER BEAM	TOTAL
1	1	3"	27'-0"	1	1
2	1	3"	27'-0"	1	1
3	1	3"	27'-0"	1	1
4	1	3"	27'-0"	1	1
5	1	3"	27'-0"	1	1
6	1	3"	27'-0"	1	1
7	1	3"	27'-0"	1	1
8	1	3"	27'-0"	1	1
9	1	3"	27'-0"	1	1
10	1	3"	27'-0"	1	1
11	1	3"	27'-0"	1	1
12	1	3"	27'-0"	1	1
13	1	3"	27'-0"	1	1
14	1	3"	27'-0"	1	1
15	1	3"	27'-0"	1	1
16	1	3"	27'-0"	1	1
17	1	3"	27'-0"	1	1
18	1	3"	27'-0"	1	1
19	1	3"	27'-0"	1	1
20	1	3"	27'-0"	1	1

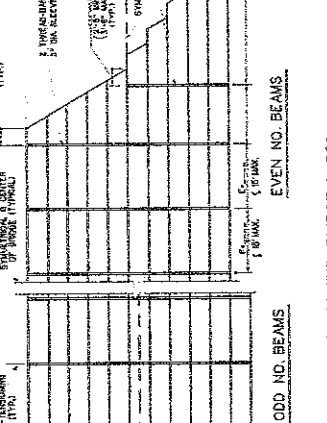
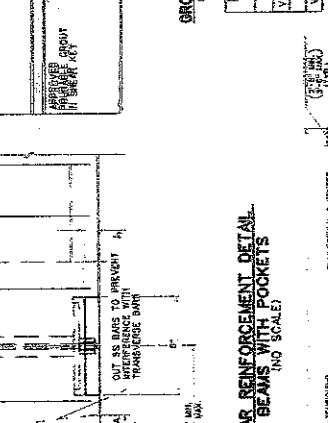
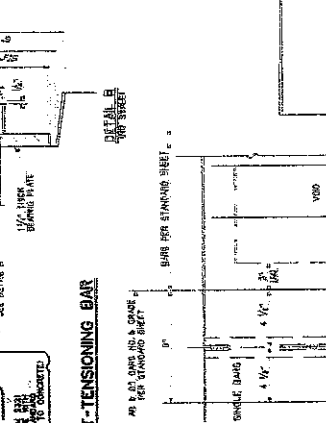
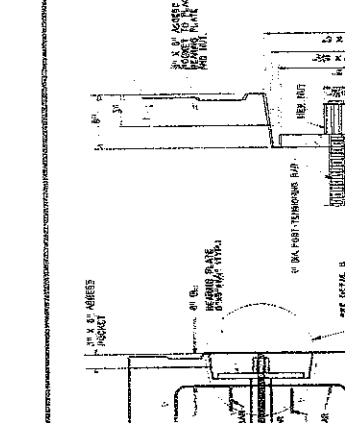
PROJECT NUMBER: JEFFERSON 19-25/14-1-3
 SHEET TOTAL: 18
 SHEET NO.: 7



REINFORCING DETAILS OF DIAPHRAGM (LEFT BEAM & POCKET ONLY)

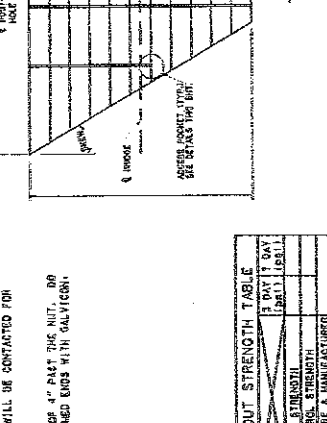
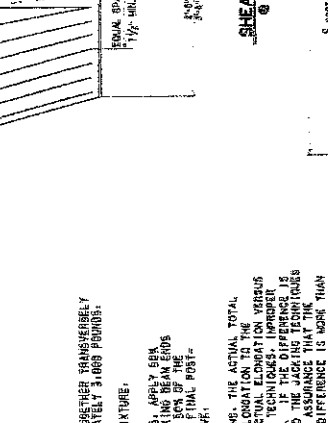
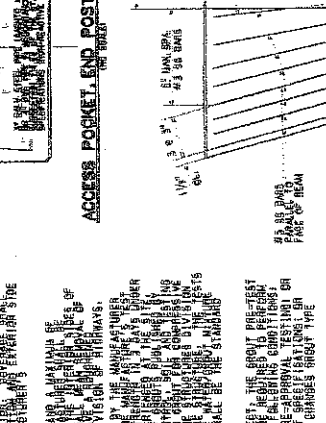
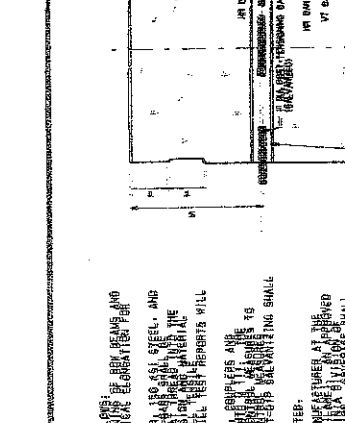
POST-TENSIONING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	NO. PER BEAM	TOTAL
1	1	3"	27'-0"	1	1
2	1	3"	27'-0"	1	1
3	1	3"	27'-0"	1	1
4	1	3"	27'-0"	1	1
5	1	3"	27'-0"	1	1
6	1	3"	27'-0"	1	1
7	1	3"	27'-0"	1	1
8	1	3"	27'-0"	1	1
9	1	3"	27'-0"	1	1
10	1	3"	27'-0"	1	1
11	1	3"	27'-0"	1	1
12	1	3"	27'-0"	1	1
13	1	3"	27'-0"	1	1
14	1	3"	27'-0"	1	1
15	1	3"	27'-0"	1	1
16	1	3"	27'-0"	1	1
17	1	3"	27'-0"	1	1
18	1	3"	27'-0"	1	1
19	1	3"	27'-0"	1	1
20	1	3"	27'-0"	1	1



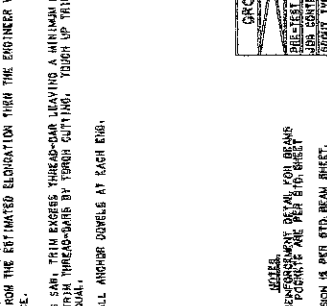
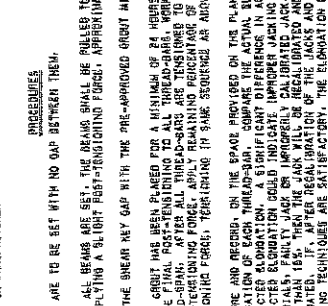
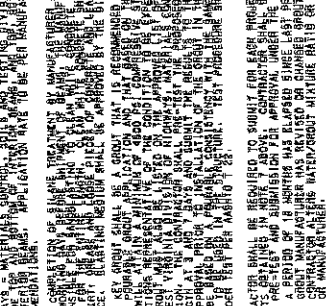
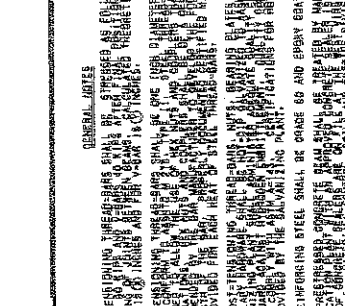
POST-TENSIONING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	NO. PER BEAM	TOTAL
1	1	3"	27'-0"	1	1
2	1	3"	27'-0"	1	1
3	1	3"	27'-0"	1	1
4	1	3"	27'-0"	1	1
5	1	3"	27'-0"	1	1
6	1	3"	27'-0"	1	1
7	1	3"	27'-0"	1	1
8	1	3"	27'-0"	1	1
9	1	3"	27'-0"	1	1
10	1	3"	27'-0"	1	1
11	1	3"	27'-0"	1	1
12	1	3"	27'-0"	1	1
13	1	3"	27'-0"	1	1
14	1	3"	27'-0"	1	1
15	1	3"	27'-0"	1	1
16	1	3"	27'-0"	1	1
17	1	3"	27'-0"	1	1
18	1	3"	27'-0"	1	1
19	1	3"	27'-0"	1	1
20	1	3"	27'-0"	1	1



POST-TENSIONING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	NO. PER BEAM	TOTAL
1	1	3"	27'-0"	1	1
2	1	3"	27'-0"	1	1
3	1	3"	27'-0"	1	1
4	1	3"	27'-0"	1	1
5	1	3"	27'-0"	1	1
6	1	3"	27'-0"	1	1
7	1	3"	27'-0"	1	1
8	1	3"	27'-0"	1	1
9	1	3"	27'-0"	1	1
10	1	3"	27'-0"	1	1
11	1	3"	27'-0"	1	1
12	1	3"	27'-0"	1	1
13	1	3"	27'-0"	1	1
14	1	3"	27'-0"	1	1
15	1	3"	27'-0"	1	1
16	1	3"	27'-0"	1	1
17	1	3"	27'-0"	1	1
18	1	3"	27'-0"	1	1
19	1	3"	27'-0"	1	1
20	1	3"	27'-0"	1	1

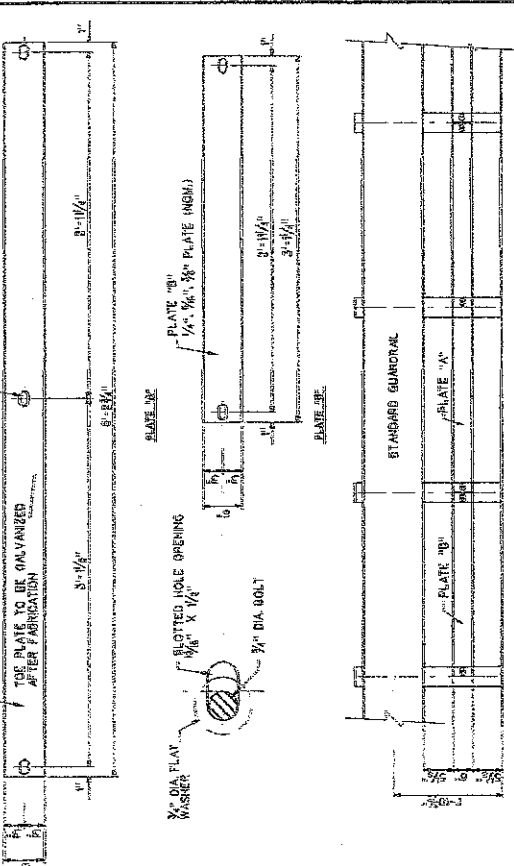


POST-TENSIONING BAR SCHEDULE

BAR	NO.	SIZE	LENGTH	NO. PER BEAM	TOTAL
1	1	3"	27'-0"	1	1
2	1	3"	27'-0"	1	1
3	1	3"	27'-0"	1	1
4	1	3"	27'-0"	1	1
5	1	3"	27'-0"	1	1
6	1	3"	27'-0"	1	1
7	1	3"	27'-0"	1	1
8	1	3"	27'-0"	1	1
9	1	3"	27'-0"	1	1
10	1	3"	27'-0"	1	1
11	1	3"	27'-0"	1	1
12	1	3"	27'-0"	1	1
13	1	3"	27'-0"	1	1
14	1	3"	27'-0"	1	1
15	1	3"	27'-0"	1	1
16	1	3"	27'-0"	1	1
17	1	3"	27'-0"	1	1
18	1	3"	27'-0"	1	1
19	1	3"	27'-0"	1	1
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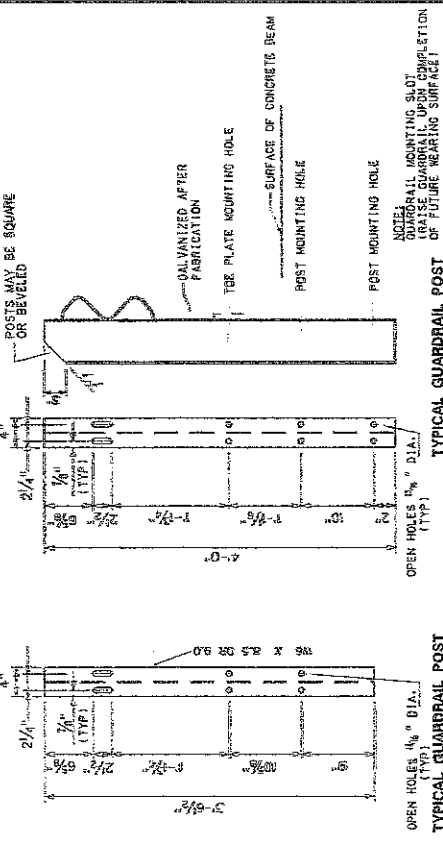
STATE	PROJECT NUMBER	COUNTY	SHEET TOTAL
VA.	5319-28/14-1.66	JEFFERSON	9 OF 16

SEE DETAIL



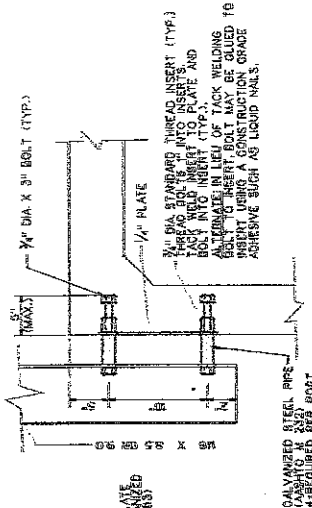
TOE PLATE DETAILS

FOR USE ON STRUCTURES WITH NO CURB

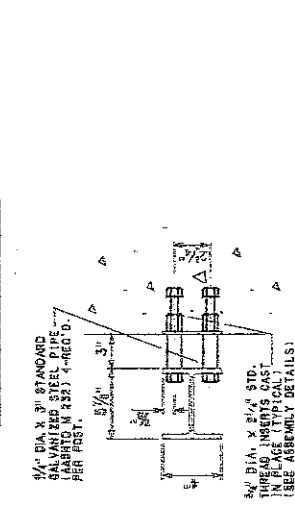


NOTE: GUARDRAIL MOUNTING SLOT TO BE RAISED GUARDRAIL UPON COMPLETION OF FUTURE WEARING SURFACE.

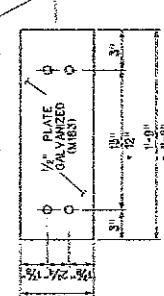
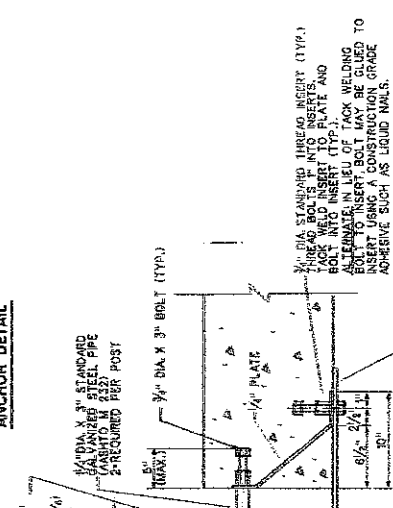
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS-STRUCTURES	
KING LEAR BRIDGE	
OVER	
BULLSKIN RUN	
IN	
JEFFERSON COUNTY	
PRESTRESSED CONCRETE BEAM	
DESIGN & ASSEMBLY DETAILS	



GUARDRAIL SET-OUT DETAIL

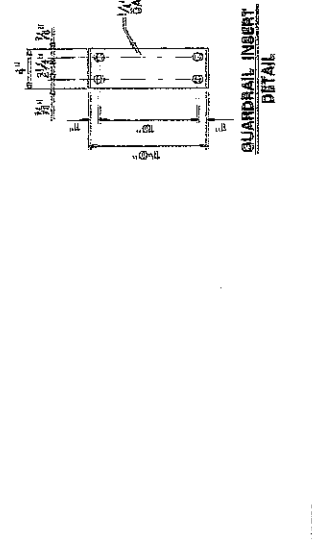


ANCHOR DETAIL

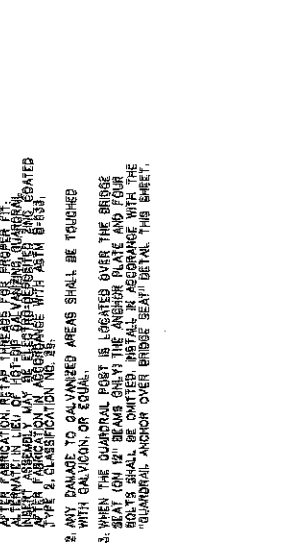


GUARDRAIL SET-OUT DETAIL (FOR 12" BEAM ONLY)

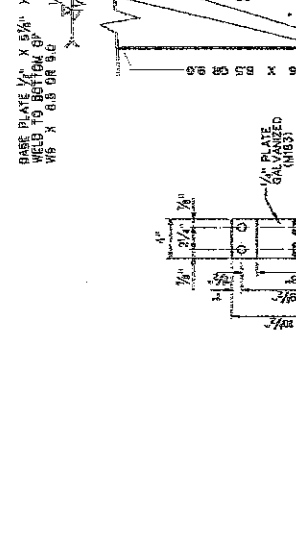
WITHOUT SET-OUT



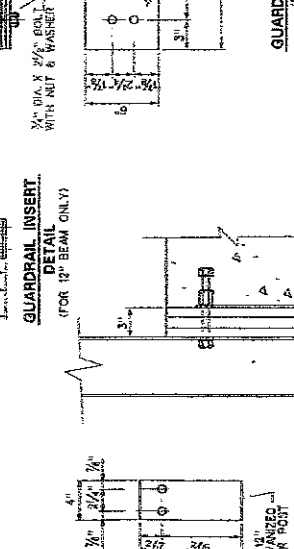
GUARDRAIL ANCHOR OVER BRIDGE SEAT (FOR 12" BEAM ONLY)



GUARDRAIL INSERT DETAIL (FOR 12" BEAM ONLY)



GUARDRAIL SET-OUT DETAIL (FOR 12" BEAM ONLY)



NOTE: THIS SHEET TO BE USED WITH STANDARD SHEET BR-1 OR BR-1A, BR-S12A, BR-S12B, BR-917A, BR-917B, BR-921A, BR-921B, BR-927A, BR-927B, BR-933A, BR-933B, BR-942A, BR-942B, BR-950, BR-951, BR-952, AND BR-953 AS APPLICABLE.

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE	DATE
PROJECT NO.	DATE
SHEET NO.	DATE

PROJECT NO.	8319-24/1-1, 40	JEFFERSON
DATE	5	16

CONTROL ELEVATIONS	
SECTION	ADJUSTMENT
1	2

CONTROL ELEVATIONS
ESTABLISHED FROM

CONTROL STATIONING	
SECTION	ADJUSTMENT
1	2

CONTROL STATIONING
ESTABLISHED FROM

SECTION	ADJUSTMENT	VALUE
1	2	10'-0"
3	4	51'-4"
5	6	21'-0"
7	8	7
9	10	90'-0"
11	12	1/4
13	14	1/4
15	16	0'-0"
17	18	1'-0"
19	20	1'
21	22	-0.27%

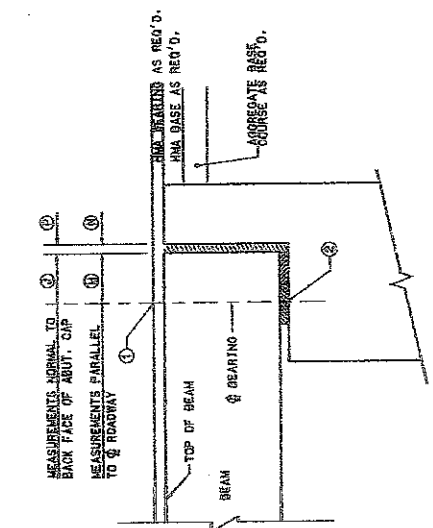
ITEM	DESCRIPTION	UNIT	QUANTITY
1	PREPARED CONCRETE BEAMS	LF	264.31
2	FORMS	SQ. YD.	104

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

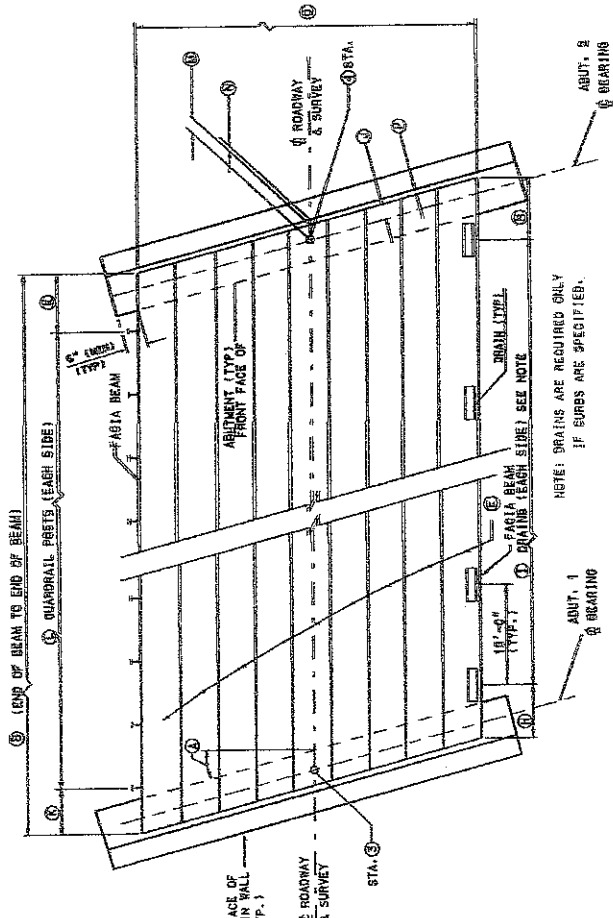
AVON BEND BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

BRIDGE NUMBER
18-25/14-1-57
BRIDGE DIST. CO.

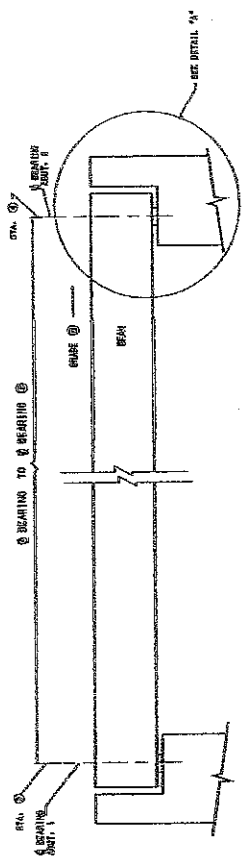
IF BEARING SURFACE IS
INDICATED BY A
DASHED LINE, ELEVATIONS SHALL BE
TAKEN AT THE TOP SURFACE
OF THE BEAM.



CONTROL ELEVATIONS & BEARING DIMENSIONS
ALONG ROADWAY
DETAIL "A"



SUPERSTRUCTURE LAYOUT PLAN



SUPERSTRUCTURE ELEVATION ALONG ROADWAY

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

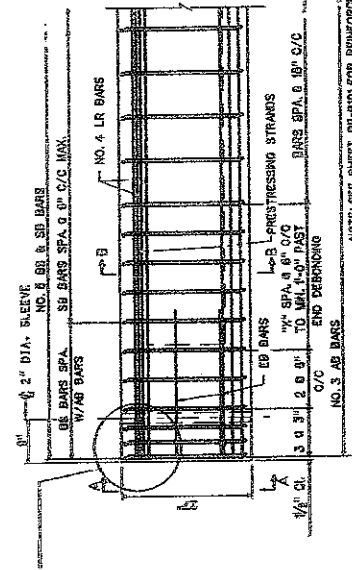
AVON BEND BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

BRIDGE NUMBER
18-25/14-1-57
BRIDGE DIST. CO.

SHEET BR-1A

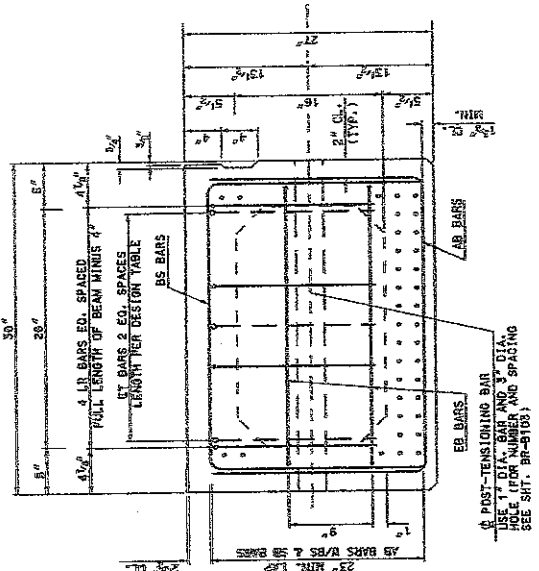
STATE	PROJECT NUMBER	COUNTY	SHEET TOTAL
VA	5319-07/14-100	JEFFERSON	11
DATE			15

- NOTES:
1. ALL NON-PRESTRESSING REINFORCING BARS SHALL BE GRADE 60.
 2. ALL LAP SPLICE LENGTHS, EXCEPT WHERE SHOWN, SHALL BE AS IN TABLE ON SHEET BR-8101.
 3. ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED.
 4. ALL STRANDS SHALL BE ENCLOSED INSIDE STIRRUP CAGE ENTIRE LENGTH OF BEAM.
 5. THIS SHEET IS TO BE USED FOR BR-8101, BR-8102, AND BR-8103.
 6. WHEN STRAND NOS. 28 AND 30 ARE USED, SEE SHEET BR-8101 FOR DETAIL OF 2" DIA. ANCHOR SLEEVE.



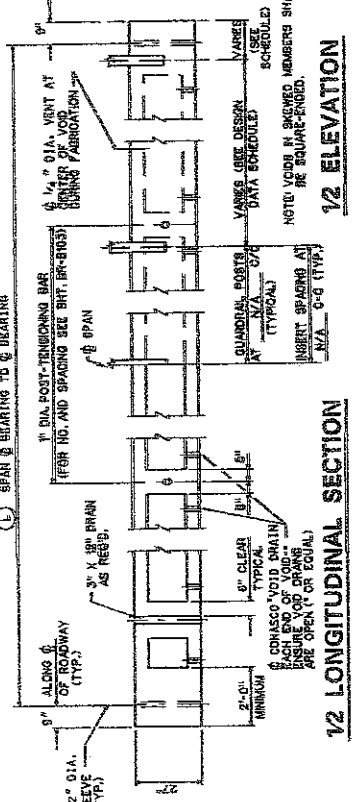
REINFORCING STEEL ELEVATION VIEW

NOTE: SEE SHEET BR-8101 FOR REINFORCING BAR DETAILS AND FOR REINFORCEMENT LAYOUT DETAILS FOR SHEWED BEAMS.

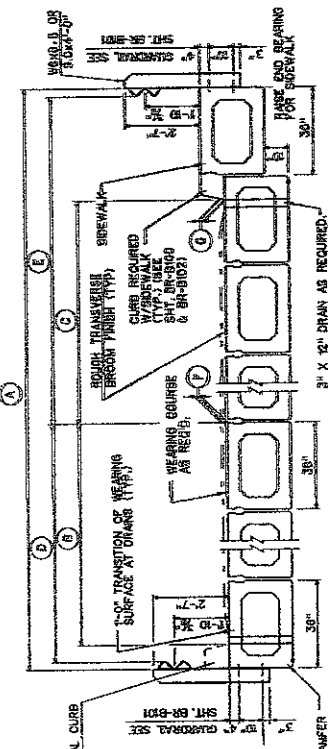


SECTION A-A
TYPICAL BEAM REINFORCEMENT

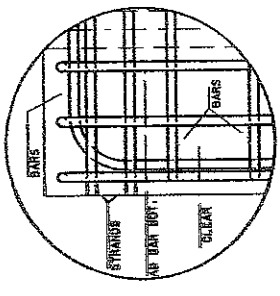
SECTION B-B
TYPICAL BEAM PRESTRESSING



1/2 LONGITUDINAL SECTION



TYPICAL CROSS-SECTION (AT MID-SPAN)



DETAIL A

DESCRIPTION	VALUE	DESCRIPTION	VALUE
DECK WIDTH, OUT TO OUT	21'-0"	HOT-LAND BITUMINOUS CONCRETE REQUIRED (YES OR NO)	YES
DISTANCE FROM FACE OF ROADWAY TO FACE OF CURB (NO SIDEWALK)	N/A	GUARDRAIL REQUIRED (YES OR NO)	YES
DISTANCE FROM FACE OF ROADWAY TO FACE OF CURB (WITH SIDEWALK)	N/A	GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO
DISTANCE FROM FACE OF ROADWAY TO FACE OF GUARDRAIL (NO SIDEWALK)	10'-0"	SPAN LENGTH, ϕ BEARING TO ϕ BEARING	49'-0"
DISTANCE FROM FACE OF ROADWAY TO FACE OF GUARDRAIL (WITH SIDEWALK)	N/A	SPAN LENGTH, ϕ BEARING TO ϕ BEARING	49'-0"
THICKNESS OF WEARING COURSE AT ϕ ROADWAY (WITH SIDEWALK)	3"	ONAL CURB TO BE INCLUDED (YES OR NO)	NO
THICKNESS OF WEARING COURSE AT FACE OF CURB	4"	ONAL PARAPET TO BE INCLUDED (YES OR NO)	NO
THICKNESS OF WEARING COURSE AT FACE OF CURB	4"	ADDITIONAL SPECIAL DESIGN	NO
SPAN LENGTH, ϕ BEARING TO ϕ BEARING	49'-0"	PLATE REQUIRED (YES OR NO)	NO

DESCRIPTION	VALUE
HOT-LAND BITUMINOUS CONCRETE REQUIRED (YES OR NO)	YES
GUARDRAIL REQUIRED (YES OR NO)	YES
GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO
SPAN LENGTH, ϕ BEARING TO ϕ BEARING	49'-0"
ONAL CURB TO BE INCLUDED (YES OR NO)	NO
ONAL PARAPET TO BE INCLUDED (YES OR NO)	NO
ADDITIONAL SPECIAL DESIGN	NO
PLATE REQUIRED (YES OR NO)	NO

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

DESIGNED BY: **AVON BEND BRIDGE OVER BULLSKIN RUN IN JEFFERSON COUNTY**

27" PRESTRESSED BOX BEAM DESIGN & ASSEMBLY DETAILS

BRIDGE NUMBER: **82**

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

27" PRESTRESSED CONCRETE BOX BEAM DESIGN & ASSEMBLY DETAILS

SHEET BR-827A

PROJECT NUMBER	8314-871-1-1-B
DATE	8/1/58
DESIGNER	JEFFERSON
SHEET TOTAL	12
SHEET NO.	16

MIN. CONCRETE STRENGTH @ DETENTION = 4,000 PSI.
 MIN. CONCRETE STRENGTH @ 28 DAYS = 6,000 PSI.
 JACKING FORCE - LOW RELAX STRAND = 30,000 LBS.

DESIGN DATA FOR 27' DEPTH BOX BEAM

SPAN LENGTH @ TO @ BEARING	48'-10"
OVERALL LENGTH ALONG @ ROADWAY	51'-4"
NO. OF STRANDS @ DIA. LOW RELAX. STRANDS - AREA/STRAND @ 1.53 SQ. IN.	16
STRAND POSITION NUMBER	1 47U 81 9 37U 144 39 @ 30
PRESTRESSING FORCE AT DETENTION (KIPS/BEAM)	414
FINAL PRESTRESSING FORCE (KIPS/BEAM)	374
ULTIMATE DESIGN MOMENT (FT-KIPS/BEAM)	800
ULTIMATE RESISTING MOMENT (FT-KIPS/BEAM)	810
TOTAL NUMBER OF DEBONDED STRANDS	17
LAYER 1-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	17
LAYER 2-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	17
END TENSION STEEL EACH END (SIZE & LENGTH)	3 #11 @ 11'-0"
DEVIATION, INCHES +UPWARD (+) / -DOWNWARD (-)	0.30
ERECTOR, INCHES +UPWARD (+) / -DOWNWARD (-)	0.82
FINAL, INCHES +UPWARD (+) / -DOWNWARD (-)	0.39
HEIGHT OF TYPICAL BEAM INCLUDING DIAPHRAGM (TOTAL) (D.62)	16.5
NO. OF INSERTS	17
NO. OF FIRST INSERT TO @ BEGGIN INSERT EACH END	17
NO. OF SECOND INSERT TO @ BEGGIN INSERT EACH END	17
NUMBER AND SPACING OF QUADRIL INSERTS	17 @ 1'-8"
NUMBER AND SPACING OF QUADRIL INSERTS	2 @ 0'-8"

- NOTES:**
1. BEAM WEIGHTS LISTED IN DESIGN TABLE ARE APPROXIMATE AND ARE BASED ON ZERO SHEAR AND DIAPHRAGMS SPACING OF 10' TO 12' MAXIMUM. LOCATION OF BEAM AND EXTRA DIAPHRAGMS WILL INCREASE WEIGHT.
 2. FOR STANDARD CURVE, ADD 63 LBS. (0.08 TON) PER CURB PER FOOT OF BEAM.
 3. DIMENSIONS LISTED ARE BASED ON THE ASSUMPTIONS AND ARE FOR COMPARISON ONLY. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND MAKE NECESSARY ADJUSTMENTS PERMITTED BY THE DIRECTOR OF STRUCTURES DIVISION.
 4. DATA LISTED IN THE DESIGN TABLE MAY NOT BE VALID FOR BEAM LENGTHS THAT FALL BETWEEN THE SPAN LENGTHS LISTED. LENGTHS NOT LISTED IN THIS COLUMN, CALCULATE AND ENTER PRECISE DATA IN THE DESIGN TABLE.
 5. BEAM BR-802, BR-803, BR-804, BR-805, BR-806, BR-807, BR-808, BR-809, BR-810, BR-811, BR-812, BR-813, BR-814, BR-815, BR-816, BR-817, BR-818, BR-819, BR-820, BR-821, BR-822, BR-823, BR-824, BR-825, BR-826, BR-827, BR-828, BR-829, BR-830.
 6. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
 7. DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT SKEWED BEAM ENDS MAY TWIST OR WARP DURING BEAM ERECTION. CONTRACTOR IS REQUIRED TO CONSULT WITH DESIGNER AND FABRICATOR TO DETERMINE THE METHOD OF BEAM ERECTION BEFORE BEAM ENDS ARE BEGUN IN THE FIELD. THE METHOD SHALL BE A PRE-APPROVED METHOD BY THE DIRECTOR OF STRUCTURES DIVISION.
 8. BEAM FABRICATOR SHALL NOTIFY CONTRACTOR THAT BEAM ENDS ARE TWISTED PRIOR TO SHIPPING OF BEAMS.

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

AVON BEND BRIDGE
OVER BULLSKIN RUN
 IN JEFFERSON COUNTY

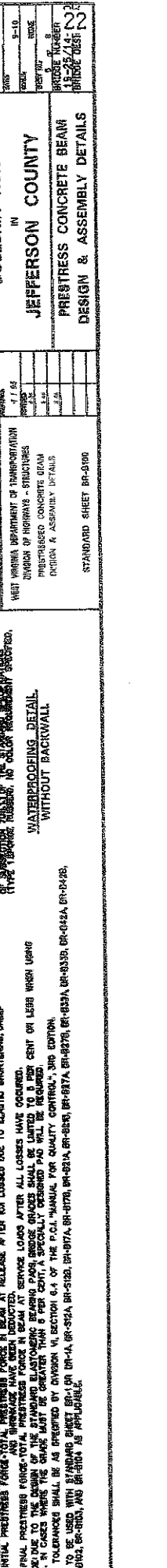
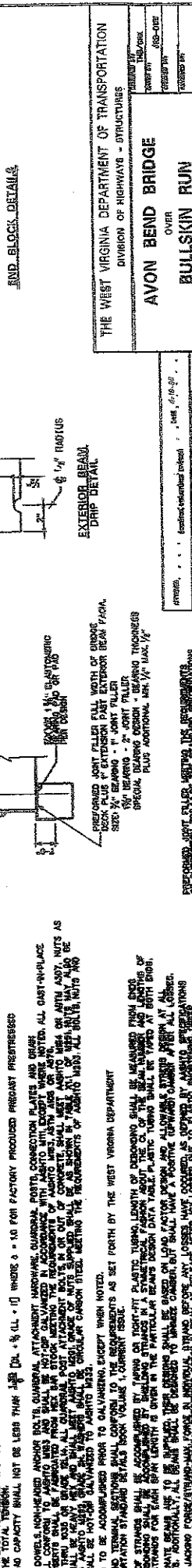
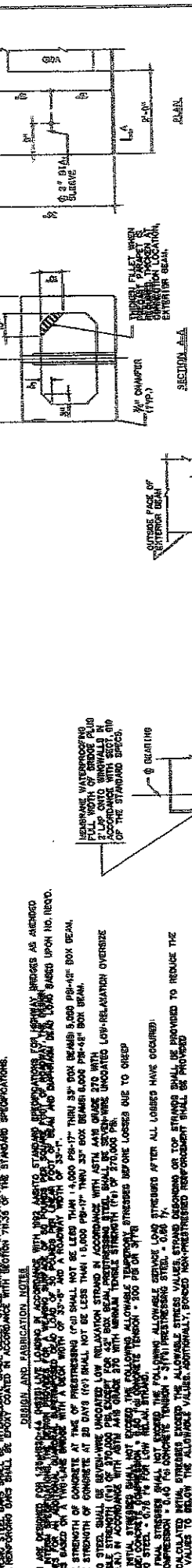
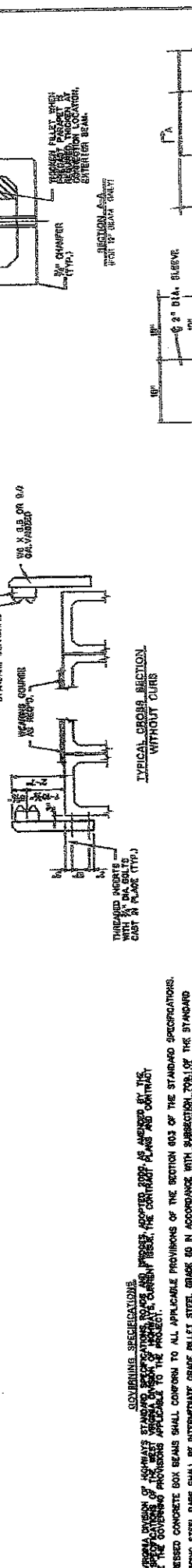
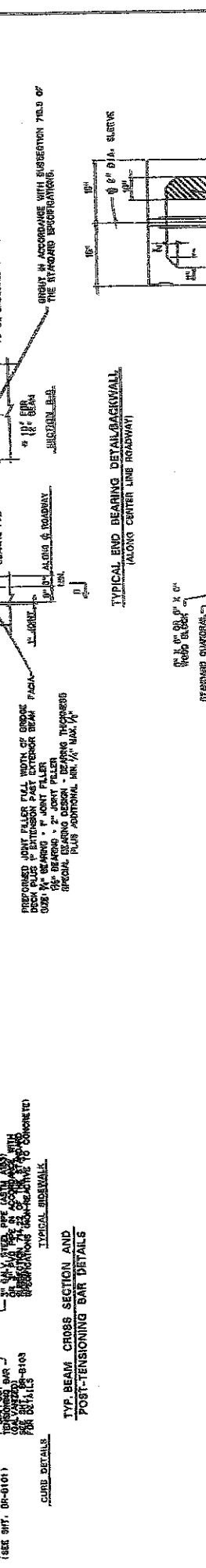
DESIGN TABLE FOR 27' PRESTRESSED BOX BEAM

SHEET 85-827B

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS-STRUCTURES DESIGN TABLE FOR 27' PRESTRESSED BOX BEAM	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS-STRUCTURES DESIGN TABLE FOR 27' PRESTRESSED BOX BEAM
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SHEET 85-827B

PROJECT NO.	100-0-100	PROJECT NUMBER	5310-02(1)-1-50	COUNTY	JEFFERSON	IND. SHEETS	18	16
DATE	10/1/50	DATE	10/1/50	CITY	JEFFERSON	NO. OF SHEETS	18	16



THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY - STRUCTURES

AVON BEND BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY
PRESTRESS CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

STANDARD SHEET BR-900

GOVERNING SPECIFICATIONS

WEST VIRGINIA DEPARTMENT OF HIGHWAY - STRUCTURES, SECTION 603 OF THE STANDARD SPECIFICATIONS.

REINFORCED CONCRETE BOX BEAMS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF THE STANDARD SPECIFICATIONS.

WHERE THESE SPECIFICATIONS SHALL BE DEPARTED FROM IN ACCORDANCE WITH SUBSECTION 701.02 OF THE STANDARD SPECIFICATIONS, THE DEPARTURE SHALL BE INDICATED BY A NOTE.

DESIGN AND FABRICATION NOTES

1. ALL DIMENSIONS SHALL BE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

2. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED.

3. ALL DIMENSIONS SHALL BE TO CENTERLINE UNLESS OTHERWISE NOTED.

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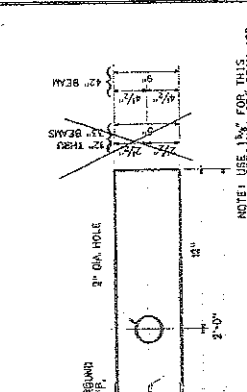
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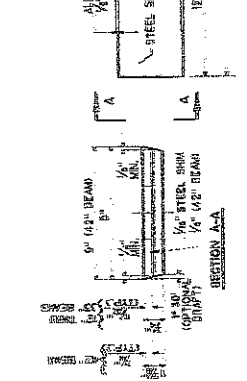
PROJECT NO.	6	2310-2071-1-1-50	JEFFERSON	14	16
COUNTY	JEFFERSON				
SHEET TOTAL	16				



ELASTOMERIC BEARING PAD DETAIL

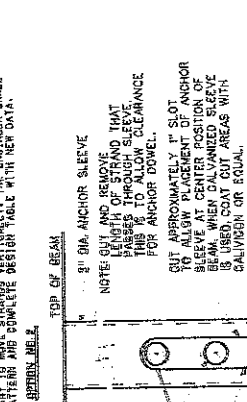
NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES. SECTION 707.01. BEARING IS WITH A DIMENSIONAL TOLERANCE OF ±0.125.

NOTE: USE 1/4" FOR THIS BEAM JOB.



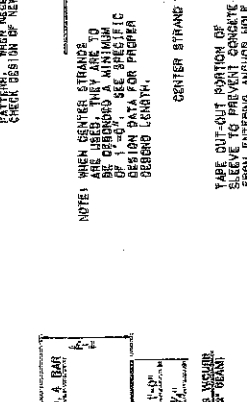
LIFTING LOOP BLOCKOUT DETAILS

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES. SECTION 707.01. BEARING IS WITH A DIMENSIONAL TOLERANCE OF ±0.125.

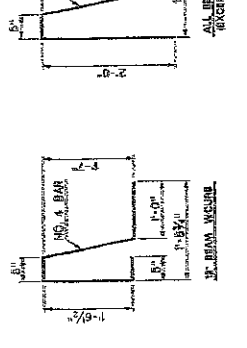


ANCHOR SLEEVE DETAILS

NOTE: USE WHEN CENTER STRAND IS SPECIFIED

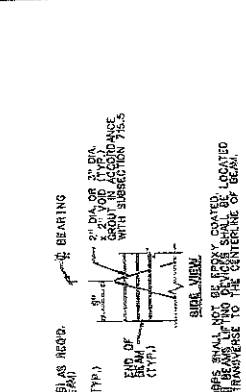


REINFORCING BAR DETAIL



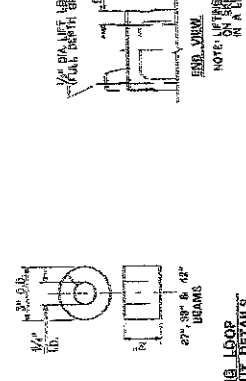
LAP SPLICE TABLE

BAR NO.	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	
DC	60	20"	28"	33"	38"	46"

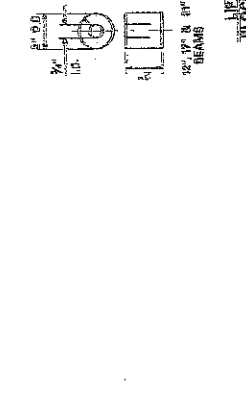


FOAM BLOCKOUT

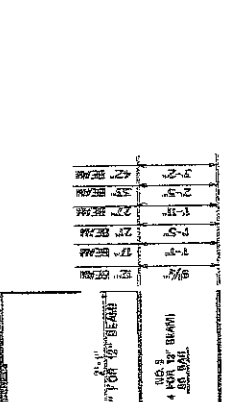
NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES. SECTION 707.01. BEARING IS WITH A DIMENSIONAL TOLERANCE OF ±0.125.



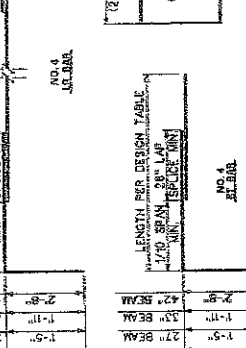
LIFTING LOOP BLOCKOUT DETAILS



ANCHOR SLEEVE DETAILS

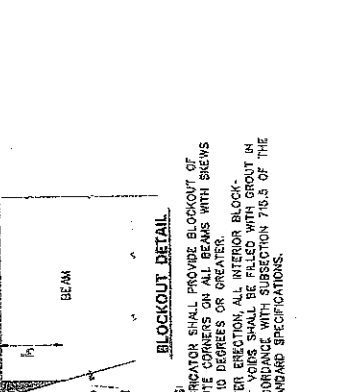


REINFORCING BAR DETAIL

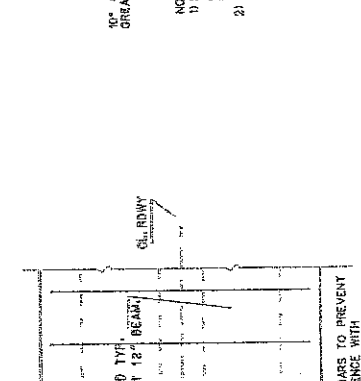


LAP SPLICE TABLE

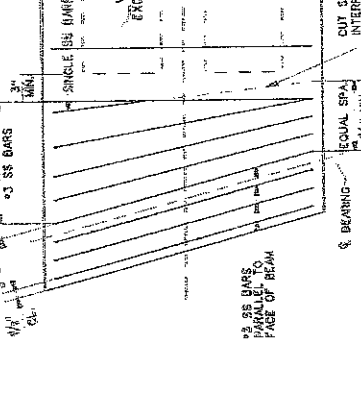
BAR NO.	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	
DC	60	20"	28"	33"	38"	46"



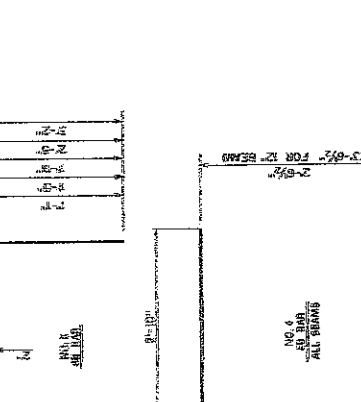
SHEAR REINFORCEMENT DETAIL



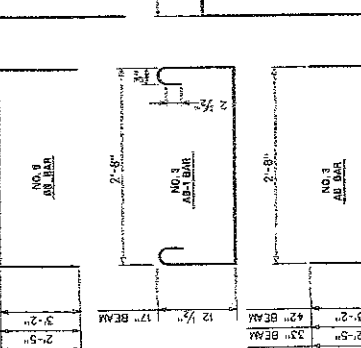
LIFTING LOOP BLOCKOUT DETAILS



ANCHOR SLEEVE DETAILS



REINFORCING BAR DETAIL



LAP SPLICE TABLE

BAR NO.	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	
DC	60	20"	28"	33"	38"	46"

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

AVON BEND BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

STANDARD SHEET BR-501

DATE: 4-26-85

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

DATE: 4-26-85

SCALE: 1/4" = 1'-0"

PROJECT NO.: 2310-2071-1-1-50

SHEET NO.: 14

NOTES:

- 1) CONTRACTOR SHALL PROVIDE BLOCKOUT OF 1/2" DIA. CORNERS ON ALL BEAMS WITH SLEWS OF 10 DEGREE OR GREATER.
- 2) AFTER ERECTION ALL INTERIOR BLOCKOUT VOIDS SHALL BE FILLED WITH GROUT IN ACCORDANCE WITH SUBSECTION 710.5 OF THE STANDARD SPECIFICATIONS.

REINFORCING BAR DETAIL

NOTES:

1. MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETER, EXCEPT FOR NO. 3 BAR. MINIMUM BAR BENDING DIAMETER SHALL BE 4 BAR DIAMETER. ALL DIMENSIONS ARE OUT TO OUT.
2. IF OPTIONAL SPLICING OF LR AND RT BARS IS USED, TERMINUS OF LAP SHALL BE AT LEAST 1/10 OF THE SPAN LENGTH. ADDITIONALLY ALL LAP SPLICES SHALL BE CONTACT TYPE.

NOTE: THIS SHEET TO BE USED WITH STANDARD SHEET BR-1 OR BR-2, BR-3 OR BR-4, BR-5 OR BR-6, BR-7 OR BR-8, BR-9 OR BR-10, BR-11 OR BR-12, BR-13 OR BR-14, BR-15 OR BR-16, BR-17 OR BR-18, BR-19 OR BR-20, BR-21 OR BR-22, BR-23 OR BR-24, BR-25 OR BR-26, BR-27 OR BR-28, BR-29 OR BR-30, BR-31 OR BR-32, BR-33 OR BR-34, BR-35 OR BR-36, BR-37 OR BR-38, BR-39 OR BR-40, BR-41 OR BR-42, BR-43 OR BR-44, BR-45 OR BR-46, BR-47 OR BR-48, BR-49 OR BR-50, BR-51 OR BR-52, BR-53 OR BR-54, BR-55 OR BR-56, BR-57 OR BR-58, BR-59 OR BR-60, BR-61 OR BR-62, BR-63 OR BR-64, BR-65 OR BR-66, BR-67 OR BR-68, BR-69 OR BR-70, BR-71 OR BR-72, BR-73 OR BR-74, BR-75 OR BR-76, BR-77 OR BR-78, BR-79 OR BR-80, BR-81 OR BR-82, BR-83 OR BR-84, BR-85 OR BR-86, BR-87 OR BR-88, BR-89 OR BR-90, BR-91 OR BR-92, BR-93 OR BR-94, BR-95 OR BR-96, BR-97 OR BR-98, BR-99 OR BR-100.

ELASTOMERIC BEARING PAD DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES. SECTION 707.01. BEARING IS WITH A DIMENSIONAL TOLERANCE OF ±0.125.

NOTE: USE 1/4" FOR THIS BEAM JOB.

LIFTING LOOP BLOCKOUT DETAILS

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES. SECTION 707.01. BEARING IS WITH A DIMENSIONAL TOLERANCE OF ±0.125.

ANCHOR SLEEVE DETAILS

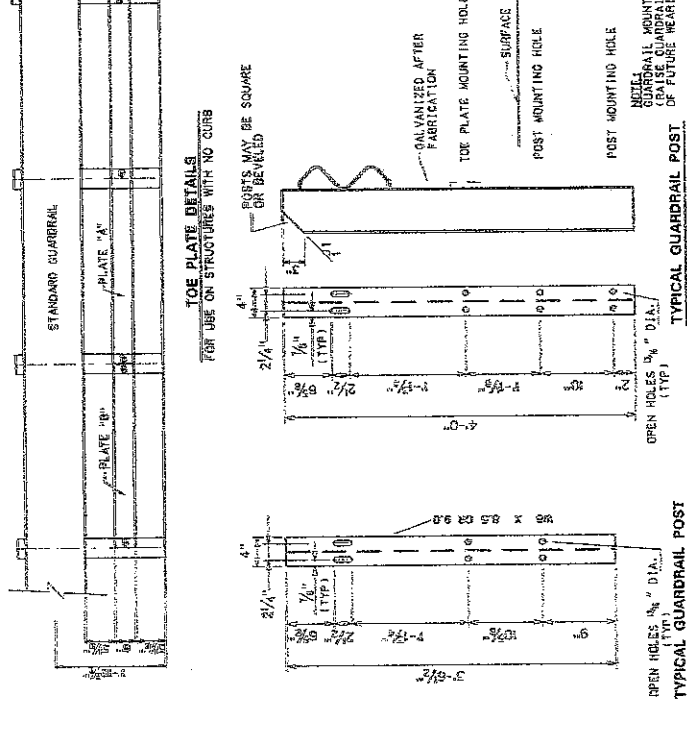
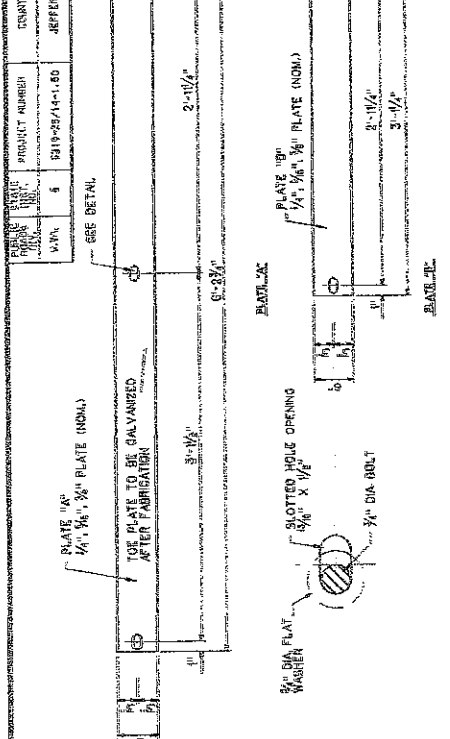
NOTE: USE WHEN CENTER STRAND IS SPECIFIED

REINFORCING BAR DETAIL

LAP SPLICE TABLE

BAR NO.	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	
DC	60	20"	28"	33"	38"	46"

DATE	BY	CHKD	REV	DESCRIPTION	SHEET TOTAL
11/21/19	10/11/19	10/11/19	10/11/19	10/11/19	16
11/21/19	10/11/19	10/11/19	10/11/19	10/11/19	16
11/21/19	10/11/19	10/11/19	10/11/19	10/11/19	16
11/21/19	10/11/19	10/11/19	10/11/19	10/11/19	16
11/21/19	10/11/19	10/11/19	10/11/19	10/11/19	16
11/21/19	10/11/19	10/11/19	10/11/19	10/11/19	16
11/21/19	10/11/19	10/11/19	10/11/19	10/11/19	16
11/21/19	10/11/19	10/11/19	10/11/19	10/11/19	16
11/21/19	10/11/19	10/11/19	10/11/19	10/11/19	16



THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY STRUCTURES

PROJECT NO. 19-297(4) 16

AVON BEND BRIDGE OVER BULLSKIN RUN IN JEFFERSON COUNTY

PRESTRESSED CONCRETE BEAM DESIGN & ASSEMBLY DETAILS

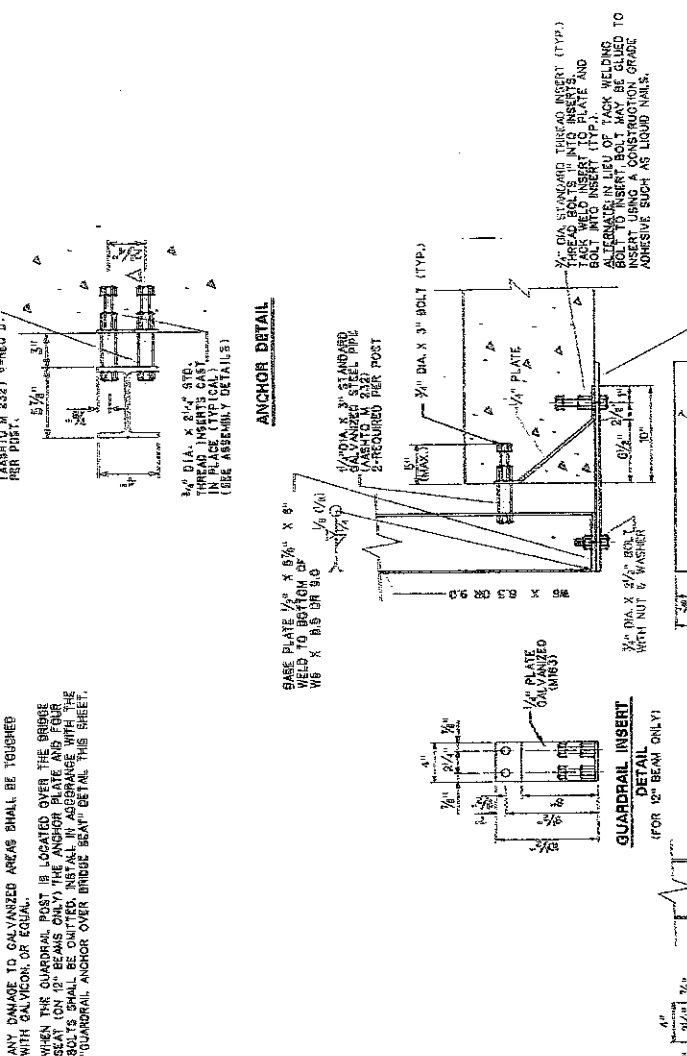
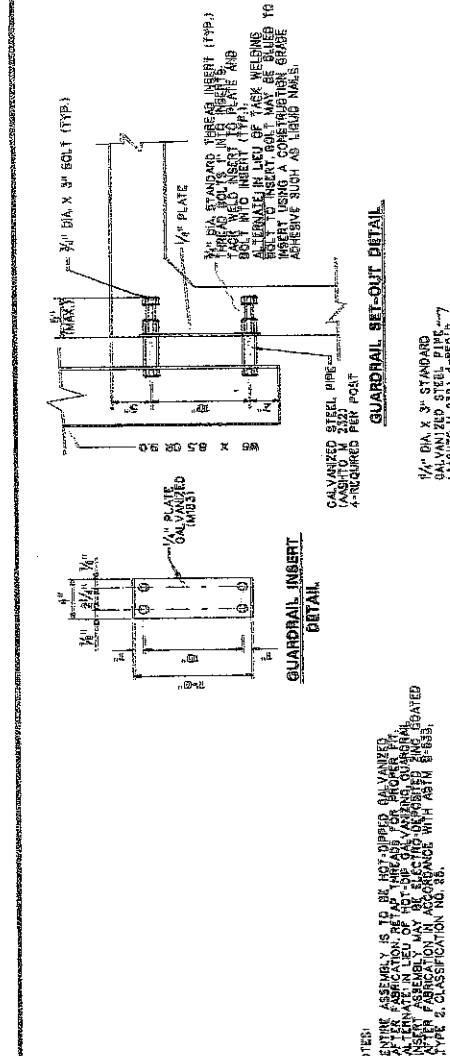
DATE 12-20-18

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]

STANDARD SHEET BR-31M

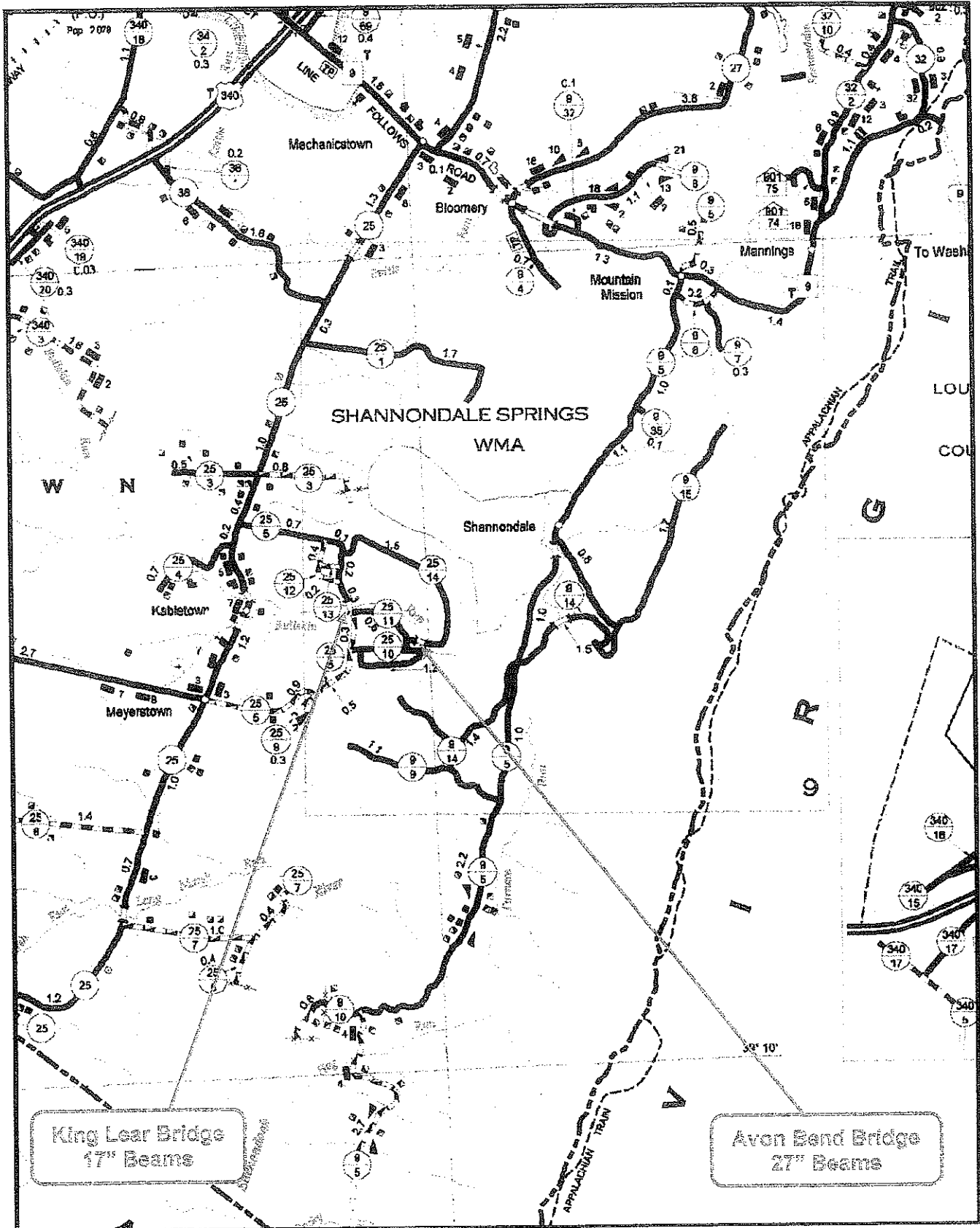


NOTES:

- ENTIRE ASSEMBLY IS TO BE NOT-DIPPED GALVANIZED AFTER FABRICATION. FOR GALVANIZED GUARDRAIL INSERT ASSEMBLY MAY BE ELECTRO-DIP COATED AND COATED IN ACCORDANCE WITH ASTM B-689, TYPE 2, CLASSIFICATION NO. 20.
- ANY DAMAGE TO GALVANIZED ANCHOR SHALL BE TOUCHED UP WITH GALVALUM OR EQUAL.
- WHEN THE GUARDRAIL POST IS LOCATED OVER THE BRIDGE SEAT ON 12" BEAMS ONLY, THE ANCHOR PLATE AND PERMISSIBLE GUARDRAIL ANCHOR OVER BRIDGE SEAT DETAIL THIS SHEET.

NOTE: THIS SHEET TO BE USED WITH STANDARD SHEET BR-1 OR BR-1A, BR-2, BR-2A, BR-2B, BR-3, BR-3A, BR-3B, BR-4, BR-4A, BR-4B, BR-5, BR-5A, BR-5B, BR-6, BR-6A, BR-6B, BR-7, BR-7A, BR-7B, BR-8, BR-8A, BR-8B, BR-9, BR-9A, BR-9B, BR-10, BR-10A, BR-10B, BR-11, BR-11A, BR-11B, BR-12, BR-12A, BR-12B, BR-13, BR-13A, BR-13B, BR-14, BR-14A, BR-14B, BR-15, BR-15A, BR-15B, BR-16, BR-16A, BR-16B, BR-17, BR-17A, BR-17B, BR-18, BR-18A, BR-18B, BR-19, BR-19A, BR-19B, BR-20, BR-20A, BR-20B, BR-21, BR-21A, BR-21B, BR-22, BR-22A, BR-22B, BR-23, BR-23A, BR-23B, BR-24, BR-24A, BR-24B, BR-25, BR-25A, BR-25B, BR-26, BR-26A, BR-26B, BR-27, BR-27A, BR-27B, BR-28, BR-28A, BR-28B, BR-29, BR-29A, BR-29B, BR-30, BR-30A, BR-30B, BR-31, BR-31A, BR-31B, BR-32, BR-32A, BR-32B, BR-33, BR-33A, BR-33B, BR-34, BR-34A, BR-34B, BR-35, BR-35A, BR-35B, BR-36, BR-36A, BR-36B, BR-37, BR-37A, BR-37B, BR-38, BR-38A, BR-38B, BR-39, BR-39A, BR-39B, BR-40, BR-40A, BR-40B, BR-41, BR-41A, BR-41B, BR-42, BR-42A, BR-42B, BR-43, BR-43A, BR-43B, BR-44, BR-44A, BR-44B, BR-45, BR-45A, BR-45B, BR-46, BR-46A, BR-46B, BR-47, BR-47A, BR-47B, BR-48, BR-48A, BR-48B, BR-49, BR-49A, BR-49B, BR-50, BR-50A, BR-50B, BR-51, BR-51A, BR-51B, BR-52, BR-52A, BR-52B, BR-53, BR-53A, BR-53B, BR-54, BR-54A, BR-54B, BR-55, BR-55A, BR-55B, BR-56, BR-56A, BR-56B, BR-57, BR-57A, BR-57B, BR-58, BR-58A, BR-58B, BR-59, BR-59A, BR-59B, BR-60, BR-60A, BR-60B, BR-61, BR-61A, BR-61B, BR-62, BR-62A, BR-62B, BR-63, BR-63A, BR-63B, BR-64, BR-64A, BR-64B, BR-65, BR-65A, BR-65B, BR-66, BR-66A, BR-66B, BR-67, BR-67A, BR-67B, BR-68, BR-68A, BR-68B, BR-69, BR-69A, BR-69B, BR-70, BR-70A, BR-70B, BR-71, BR-71A, BR-71B, BR-72, BR-72A, BR-72B, BR-73, BR-73A, BR-73B, BR-74, BR-74A, BR-74B, BR-75, BR-75A, BR-75B, BR-76, BR-76A, BR-76B, BR-77, BR-77A, BR-77B, BR-78, BR-78A, BR-78B, BR-79, BR-79A, BR-79B, BR-80, BR-80A, BR-80B, BR-81, BR-81A, BR-81B, BR-82, BR-82A, BR-82B, BR-83, BR-83A, BR-83B, BR-84, BR-84A, BR-84B, BR-85, BR-85A, BR-85B, BR-86, BR-86A, BR-86B, BR-87, BR-87A, BR-87B, BR-88, BR-88A, BR-88B, BR-89, BR-89A, BR-89B, BR-90, BR-90A, BR-90B, BR-91, BR-91A, BR-91B, BR-92, BR-92A, BR-92B, BR-93, BR-93A, BR-93B, BR-94, BR-94A, BR-94B, BR-95, BR-95A, BR-95B, BR-96, BR-96A, BR-96B, BR-97, BR-97A, BR-97B, BR-98, BR-98A, BR-98B, BR-99, BR-99A, BR-99B, BR-100, BR-100A, BR-100B.

AVON BEND BRIDGES
STATE PROJECT NO: S319-25/14-1.50



State of West Virginia VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. **Application is made for 5% resident vendor preference for the reason checked:**
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: _____ Signed: _____

Date: _____ Title: _____

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

RFQ No. 05110139

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: EASTERN VAULT Co., Inc.

Authorized Signature: *Brad Street* Date: 10-10-10

State of West Virginia

County of Mercer, to-wit:

Taken, subscribed, and sworn to before me this 10th day of October, 2010.

My Commission expires Oct 18, 2015, 2015.

AFFIX SEAL HERE

NOTORY PUBLIC *Frances J. McKinney*

