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

Request for Quotation

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304-558-2402

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DIVISION OF HIGHWAYS JOBSITE SEE SPECIFICATIONS

DATE PRINTED TERMS OF SALE SHIP VIA FOB FREIGHT TERMS 05/11/2011 **BID OPENING DATE:** 06/01/2011 BID OPENING TIME 01:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT NO. 0001 LS 210-16 1 PRESTRESSED CONCRETE BOX BEAMS REQUEST FOR QUOTATION (RFQ) THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS FOR A CONTRACT TO PROVIDE PRESTRESSED CONCRETE BOX BEAMS FOR SIAS BEAM SPAN OVER MUD RIVER ON CR 7 IN LINCOLN COUNTY PER THE ATTACHED SPECIFICATIONS. TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO PAUL REYNOLDS IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT PAULREYNOLDSawv.gov A WORD DOCUMENT HAS BEEN ATTACHED FOR YOUR CONVENIENCE TO SUBMIT TECHNICAL QUESTIONS. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 05/24/2011 AT THE CLOSE OF ANY TECHNICAL QUESTIONS RECEIVED WILL BE BUSINESS. ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED. EXHIBIT 10 REQUISITION NO.: ADDENDUM ACKNOWLEDGEMENT SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE **FELEPHONE** DATE TITLE FEIN

ADDRESS CHANGES TO BE NOTED ABOVE

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.
- 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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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
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VENDOR

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

Request for Quotation

RFO NUMBER 02110383

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304-558-2402

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DIVISION OF HIGHWAYS **JOBSITE** SEE SPECIFICATIONS

DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. FREIGHT TERMS 05/11/2011 **BID OPENING DATE:** 06/01/2011 **BID OPENING TIME** 01:30PM CAT NO. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT FABRICATED OR OTHERWISE SIMILARLY PROCESSED, OR PROCESSED BY A COMBINATION OF TWO OR MORE OF SUCH OPERATIONS, FROM STEEL MADE BY THE OPEN HEARTH, BASIC DXYGEN, ELECTRIC FURNACE, BESSEMER OR OTHER STEEL MAKING PROCESS. "UNITED STATES" MEANS THE UNITED STATES OF AMERICA AND INCLUDES ALL TERRITORY, CONTINENTAL OR INSULAR, SUBJECT TO THE JURISDICTION OF THE UNITED STATES. 2. THE DIRECTOR OF THE PURCHASING DIVISION MAY, IN WRITING, AUTHORIZE THE USE OF FOREIGN STEEL PRODUCTS IF: THE COST FOR EACH CONTRACT ITEM USED DOES NOT EXCEED ONE TENTH OF ONE PERCENT (.1%) OF THE TOTAL CONTRACT COST OR TWO THOUSAND FIVE HUNDRED DOLLARS (2,500.00), WHICHEVER IS FOR THE PURPOSES OF THIS SECTION, GREATER. THE COST IS THE VALUE OF THE STEEL PRODUCT AS DELIVERED TO THE PROJECT OR. THE DIRECTOR OF THE PURCHASING DIVSION В. DETERMINES THAT SPECIFIED STEEL MATERIALS ARE NOT PRODUCED IN THE UNITED STATES IN SUFFICIENT QUANTITY OR OTHERWISE ARE NOT REASONABLY AVAILABLE TO MEET CONTRACT REQUIREMENTS. A CONTRACTOR WHO USES STEEL PRODUCTS IN 3. VIOLATION OF THIS SECTION MAY BE SUBJECT TO CIVIL PENALTIES PURSUANT TO WV CODE SECTION 5A-3-56. REV. 10/01/01 SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE DATE TITLE ADDRESS CHANGES TO BE NOTED ABOVE



SIGNATURE

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

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DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. FREIGHT TERMS 05/11/2011 **BID OPENING DATE:** 06/01/2011 **BID OPENING TIME** 01:30PM UNIT PRICE LINE QUANTITY UOP ITEM NUMBER AMOUNT NOTICE A SIGNED BID MUST BE SUBMITTED TO: 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 PAUL REYNOLDS - FILE 33 BUYER: RFQ. NO.: 02|110383 BID OPENING DATE: 06/01/2011 BID OPENING TIME: 1:30 PM PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: CONTACT PERSON (PLEASE PRINT CLEARLY): SEE REVERSE SIDE FOR TERMS AND CONDITIONS

TELEPHONE

DATE

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VENDOR

DATE PRINTED

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

TERMS OF SALE

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Quotati	on

REO NUMBER 02110383

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DIVISION OF HIGHWAYS JOBSITE SEE SPECIFICATIONS

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Specifications

Purpose: To establish a purchase order to provide Concrete Box Beam Installment

1.0 DEFINITIONS

- A. The "Agency" shall be defined as the West Virginia Division of Highways
- B. The "Vendor" shall be defined as the successful bidder.
- C. The "Purchase Order" shall be defined as the binding agreement that is entered into between the State of West Virginia and the Vendor to provide the services as herein specified.
- D. "Mandatory Requirements: The terms "must", "will", "shall", "minimum", "maximum", or "is/are required" identify a mandatory item or factor. Decisions regarding compliance with any mandatory requirements shall be at the sole discretion of the State.

2.0 SCOPE OF WORK

The successful Vendor shall provide materials for Sias Beam Span over Mud River on CR 7 in Lincoln County.

2.1 Technical Requirements:

The vendor shall provide the materials including delivery to the project site of the items listed on the Form WV 35 for Sias Beam Span over Mud River on CR 7 in Lincoln County.

Material supplied under this contract shall meet the applicable requirements of Section 603 of the West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2010. These Standard Specifications Roads and Bridges and the current Supplemental Specifications are available at the following website:

www.transportation.wv.gov/highways/engineering/Pages/publications.aspx

2.2 Freight

- 2.2.1 All shipments are to be FOB Destination.
- 2.2.2 The vendor shall be responsible for all costs associated with delivery to the job site.

2.3 Delivery

2.3.1 The above material is to be delivered to:

WV Department of Highways SIAS Beam Span (s322-7-15.71) SIAS, WV Attn: Jerry Ross 304-528-5678

Delivery date: 6/15/11

2.3.2 Delivery is an integral part of this purchase order and failure to comply will be cause to initiate a WV-82, Vendor Performance Form. This form will officially notify the West Virginia Division of Purchasing and the Vendor of unsatisfactory performance in the execution of this purchase order and the requirement herein.

3.0 INVOICING

- 3.1 Payment
 - 3.1.2 The Vendor must send an invoice to:

ATTN: William Wade WV Department of Highways 801 Madison Avenue Huntington, WV 25712

3.2 Partial Payment of Approved Beams

- 3.2.1 Upon completion of manufacture and approval by the Division of Highways of all beams specified on an individual Requisition Purchase Order (RPO), the vendor may invoice and the Division will pay for the cost of manufacturing the beams, not to exceed 65% of the total cost of the delivered beams. The remaining 35% or more may be invoiced when all the beams are delivered. Partial payment for beams shall be subject of the following Conditions:
- a. The vendor must request partial payment and furnish and official invoice for the manufactured and approved beams

4 AWARD

Purchase order will be awarded complete and not split.

Cost Sheet RFQ#: 02110383

Item Number	Quantity/Location	Description	Unit Price	Amount
1	316	LF. 36" x 17" Prestressed box beams; Lenth 39'-6" (out to out); Width 18'-3 3/4" Out to Out (includes / 3/4" between Beams); Skew 20 Lfs Degrees; Designed to be in accordance wit section 603 of the current WVDOH; Standard and Specifications.		
		Total Amount		

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.

Date:	Title:
Bidde	r: Signed:
	r penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is tru ccurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificat ges during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
author the red deeme	omission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and izes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has pain quired business taxes, provided that such information does not contain the amounts of taxes paid nor any other informationed by the Tax Commissioner to be confidential.
require agains or ded	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the ements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency ucted from any unpaid balance on the contract or purchase order.
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.
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,
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,
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,
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,
	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 ,
	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
	Application is made for 2.5% resident vendor preference for the reason checked:
ivision	will make the determination of the Resident Vendor Preference, if applicable.

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

RFQ	No.	

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 owed 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.

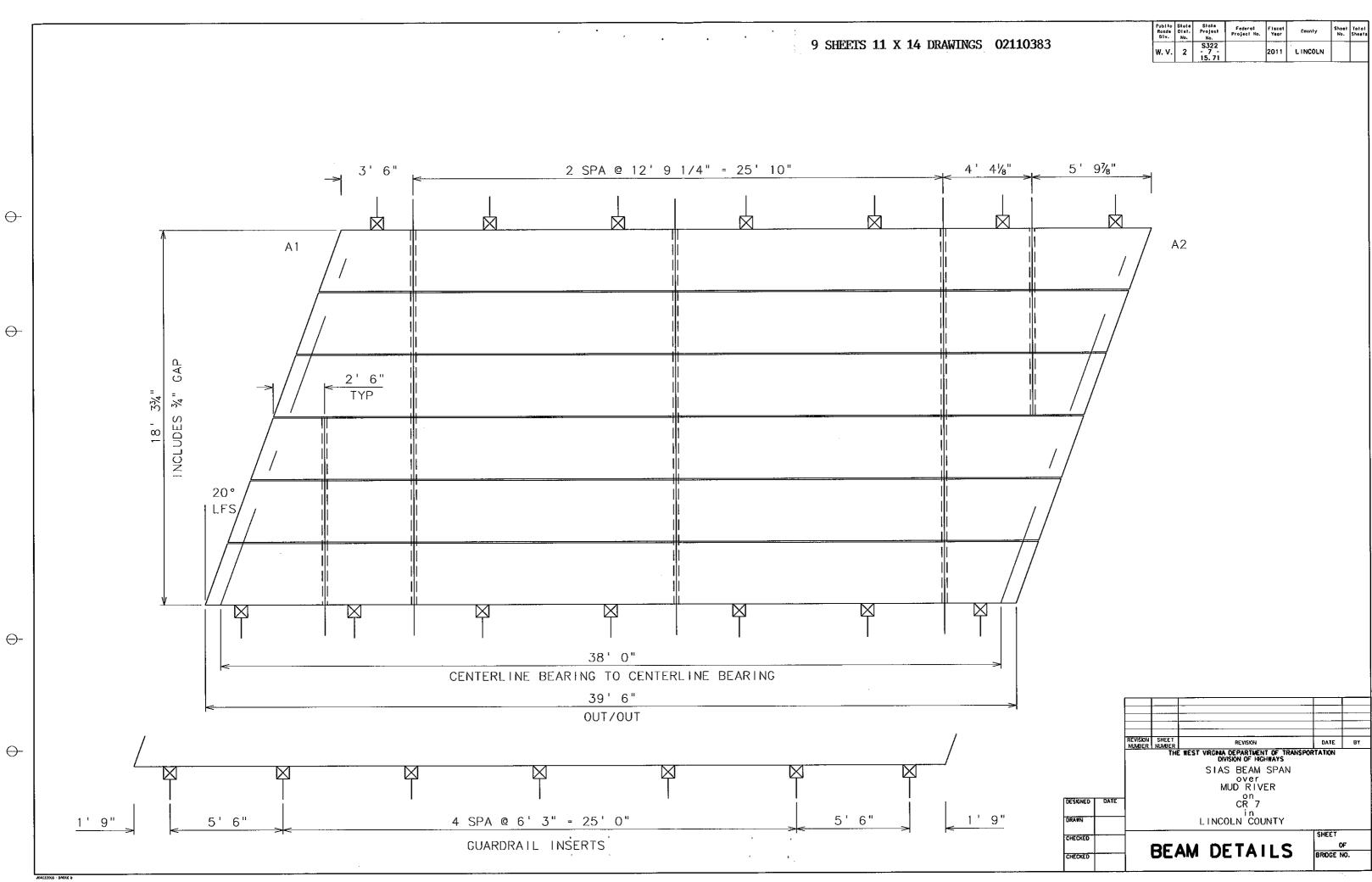
Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

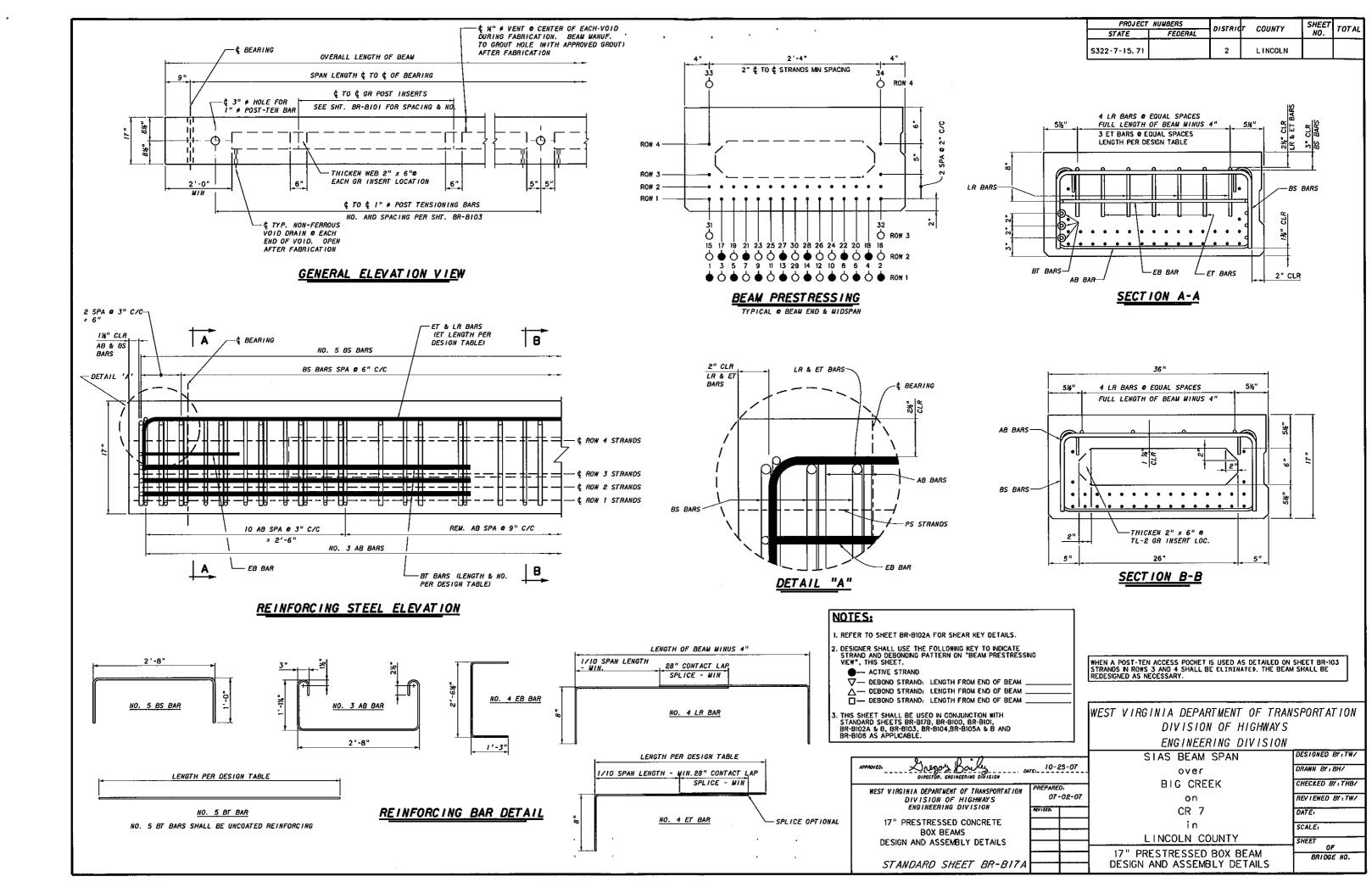
WITNESS THE FOLLOWING SIGNATURE

Vendor's Name:			
Authorized Signature:		_ Date:	
State of			
County of, to-wit:			
Taken, subscribed, and sworn to before me this da	y of		, 20
My Commission expires	, 20		
AFFIX SEAL HERE	NOTARY PUBLIC		

Please	se use this document for technical questions, posing in quest	ion format.
Techn	nical Questions for RFQ:	
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	DESIGN DATA FOR 17" DEPTH ADJACENT BOX BEAM																	
SPAN LENGTH & TO &	BEARING		20'-0"	22'-0"	24'-0"	26 ' - 0 "	28'-0"	30'-0"	32'-0"	34'-0"	36'-0"/	38'-0"	40'-0"					
OVERALL LENGTH OF	BEAM		24'-6"	23'-6"	25′-6"	27 '-6"	29'-6"	31'-6"	33'-6"	35'-6"	37 ' 76 "	39′-6"	41'-6"					
NO. OF 270 KSI. 1/2 STRANDS, AREA/STRAN			10	10	10	10	12	12	14	14	16	16	16					
		ROW 1	1.2.11.12	1.2.11.12	1.2.11.12	1.2.11.12	1,2.7.8.13,14	1.2,7,8,13.14	1.2.7.8.13.14	1.2.7.8.13.14	1.2.5.6.9.10.	1.2.5.6.9.10. 13.14	1.2,5,6.9.10. 13.14					<u> </u>
		ROW 2	17.18.25.26	17.18.25.26	17,18.25.26	17.18.25.26	17.18.27.28	17.18.27.28	17.18.21.22. 27.28	17.18.21.22. 27/28	17.18.21.22. 27.28	17,18,21.22. 27.28	17.18.21.22, 27.28					
STRAND POSITION NU	MBER	ROW 3		_\		·				/—								
															ļ <u> </u>			_
		ROW 4	33,34	33.34	33.34	33,34	33,34	33.34	\$3.34	33.34	33,34	33,34	33.3					
PRESTRESSING FORCE STRAND RELEASE, Pp			326	326	326	326	389	389	451	451	512	512	513			ļ		
EFFECTIVE PRESTRESS ALL LOSSES, Ppe, 16		AFTER	293	293	294	294	345	348	396	397	443	445	#47		<u> </u>		_	
REQUIRED FACTORED & STRENGTH 1. Mu (M)	204	231	260	289	319	349	382	4/5	453	491	\$3/1					
FACTORED FLEXURAL RESISTANCE, Mr (FT	-KIPS/BEAM)		408	408	408	408	496	496	566	566	646	646	646					
TOTAL NO. DEBONDED	STRANDS						$\perp \times$										-	
DEBONDED STRAND PO NUMBER & SHIELDING		ROW 1						<u></u>						···				
FROM EACH END		ROW 2				/		+										
HUMBER & LENGTH #4 TENSION BARS @ EAC			3 - #4 x 3'-6"	3 - #4 x 3'-6"	3 - #4 x 4'-0"/	3 - #4 x 4'-0"	3 - #4 x 4'-0"	3 - #4 x 4'-6"	3 - #4 x 4'-6"	3 - #4 x 5'-0"	3 - #4 x 9'-0"	3 - #4 x 9'-0"	3 - 4 x 9' 6"					
NUMBER & LENGTH #5 TENSION BARS & EAC			2 - #5 x 4'-0"	2 - #5 x 4'-0"	2 - #5 x 4'/-6"	2 - #5 x 4'-6"	2 - #5 x 4'-6"	2 - #5 x 5'-0"	8 - #5 x 5'-0"	2 - #5 x 5'-6"	2 - #5 x 5'-6"	2 - #5 x 5'-6"	2 - #5 # 6'-0"					
DESIGN CAMBER	e RELEASE		0.13	0.14	0.16	0.17	0. 28	0. 30	0.40	0. 42	0. 59	0.62	0.63					
	@ ERECTION		0.21	0.24	0. 26	0. 27	0.45	0. 47	0.64	0.65	0.93	0, 95	0.95					
	@ FINAL		0. 27	0. 29	0. 30	0. 30	0.53	0.53	0.71	0.69	1.03	0.99	0.92		-			
	NO OF INSE	RTS REGO.										ļ	11 1			.		-
HUMBER & SPACING OF TL-2 GUARDRAIL INSERTS	END OF BEA ¢ OF FIRST EA. END																	
SEE NOTE 6	¢ OF Ist I TO ¢ 2nd I EA. END																	
WEIGHT OF TYPICAL DIAPHRAGU (FONS)	BEAM INCLUE	DING	5.6	6. 1	6.6	7.1	7.6	8. 1	8.6	9.1	9.6	10.1	10.6					

STATE PROJECT NUMBER	FEDERAL PROJECT HUNBER	STATE DIST. COUNTY NO.		SHEET NO.	TOTAL SHEET
S350-7-15.71		2	LINCOLN		

MIN. CONCRETE STRENGTH @ RELEASE = 5500 PSI MIN. CONCRETE STRENGTH @ 28 DAYS = 8000 PSI = 33,820 LBS INITIAL PULL/STRAND = 0, 167 SQ. IN. CROSS-SECTION AREA/STRAND

NOTES

1.BEAM WEIGHTS LISTED IN THE DESIGN TABLE ARE BASED ON ZERO SKEW, 2 FT. LONG ENDBLOCK AND DIAPHRAGMS SPACED @ 15 FT C/C. WEIGHTS FOR SKEWED BEAMS, LONGER ENDBLOCKS AND ADDITIONAL DIAPHRAGRUS SHOULD BE ADJUSTED ACCORDINGLY.

FOR ADDITIONAL DIAPHRAGMS. ADD 135 LBS/DIAPHRAGM.

FOR SKEW ADD 17 LBS/DEGREE OF SKEW/END.

FOR LONGER ENDBLOCK, ADD 163 LBS/LF/END.

2.DESIGNERS SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON EVEN SPAN LENGTHS. A TWO LANE STRUCTURE B BEAMS WIDE AND ZERO SKEW. SUPERIMPOSED DEAD LOADS INCLUDE TYPE F PARAPET (321 PLF) AND A FWS OF 50 PSF. FOR NON-STANDARD BRIDGES DATA SHOULD BE VERIFIED AND IF REQUIRED NEW DESIGN DATA ENTERED INTO BLANK COLUMNS. IN NO CASE SHALL

3. PREDICTED DESIGN CAMBER VALUES LISTED IN THE TABLE ARE BASED ON EMPIRICAL FORMULAS
AND AS SUCH ARE APPROXIMATE. FOR MEMBERS WITH SPAN-TO-DEPTH RATIOS AT OR EXCEEDING 25.
THE TOLERANCE VALUES LISTED IN APPENDIX B OF PCI MANUAL FOR QUALITY CONTROL. MNL-116. MAY 8. THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-BI7A, BR-BIOO. BR-BIOI.

MEASUREMENT OF CAMBER FOR COMPARISON TO PREDICTED DESIGN VALUES SHOULD BE COMPLETED WITHIN 72 HOURS OF RELEASE. ADDITIONALLY, CAMBER SHOULD BE EVALUATED UNDER CONDITIONS THAT MINIMIZE THE EFFECT OF TEMPERATURE VARIATION.

- 4.DESIGNER, FABRICATOR, AND ERECTOR SHALL BE AWARE THAT SKEWED END BEAMS MAY TWIST OR WARP. CAUSING UNEVEN BEAM SEATING AT THE BEARINGS. THE CONTRACTOR IS REQUIRED TO CORRECT AT THE TIME OF ERECTION., BEFORE THE BEAMS ARE SECURED IN PLACE. METHOD OF CORRECTION SHALL PROVIDE AN EVEN, TOTAL BEARING AND A LEVEL TOP BEAM SURFACE. TOLERANCE, AFTER CORRECTION, SHALL BE (*/-) % INCH. THE FABRICATOR SHALL NOTIFY THE CONTRACTOR AND DESIGNER IF CORRECTIONS ARE REQUIRED PRIOR TO SHIPMENT.
- 5. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
- 6.DESIGNER INPUT VALUES OF NUMBER OF INSERTS. DISTANCE FROM END OF BEAM TO & FIRST INSERT. AND TO ¢ SECOND INSERT. ABOVE VALUES SHALL BE BASED ON THE REQUIRED 6'-3" GUARDRAIL POST SPACING
- 7. SPECIAL STRAND NOTE FOR 17" BOX SECTION ONLY: WHEN TL-2 GUARDRAIL INSERTS ARE REQUIRED THE BOTTOM INSERT (TYPE 2A ANCHOR) CONFLICTS WITH STRAND NO. 15. STRANDS 15 AND 16 HAVE BEEN MOVED TO POSITIONS IT AND IB. FOR UNIFORMITY PURPOSES. ALL BEAMS OF THE SAME DESIGN
- BR-B102A & B. BR-B103. BR-B104. BR-B105A & B AND BR-B106 AS APPLICABLE.

AND & FIRST INSERT ACING ACROSS		WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ENGINEERING DIVISION				
		SIAS BEAM SPAN	OESIGNED BY: THB/			
		over	ORAWN 8/: TH8/			
Dregory Bailey	10-25-07	BIG CREEK	CHECKED BY : TM/			
DIRECTOR. EMPLOYEERING DIVISION		on	REVIEWED BY ITM/			
T VIRGINIA DEPARTMENT OF TRANSPORTATION	07-02-07	CR 7	DATE			
	O SE O	in	SCALE			
DESIGN TABLE FOR 17"		LINCOLN COUNTY	SHEET NO OF			
PRESTRESSEO BOX BEAM		DESIGN TABLE FOR 17"	BRIDGE WUMBER			
STANDARD SHEET BR-B17B		PRESTRESSED BOX BEAM				

GOVERNING SPECIFICATIONS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, ADOPTED 2010 AS AMENDED BY THE CURRENT SUPPLEMENTAL SPECIFICATIONS. THE CONTRACT PLANS AND CONTRACT SPECIAL PROVISIONS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT

ALL BEAMS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 1998 AS AMENDED BY THE 2003 INTERIM SPECIFICATIONS.

DESIGN NOTES

ALL STANDARD ADJACENT PRESTRESSED CONCRETE BRIDGE BEAMS ARE DESIGNED TO MEET THE FOLLOWING CRITERIA:

1. DESIGN LOADS:

HL-93 LIVE LOAD IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

FUTURE WEARING SURFACE OF 50 PSF OF ROADWAY.

TYPE F PARAPET WEIGHING 321 PLF.

DIAPHRAGM DEAD LOAD, NUMBER REQUIRED BASED ON 15'-O" MAX. SPACING.

- 2. TWO LANE BRIDGE WITH AN OVERALL WIDTH OF 24'-5" (INCL. %" GAP BETWEEN ADJ. BEAMS). A CURB-TO-CURB WIDTH OF 22'-1", TRANSVERSE POST-TENSIONING. AND ZERO SKEW.
- 3. DESIGN STRENGTH AND UNIT STRESSES:

WINIMUM CONCRETE STRENGTH & STRAND RELEASE	5500 PS1
MINIMUM CONCRETE STRENGTH • 28 DAYS — — — — — —	8000 PS1
TEMPORARY STRESS LIMITS IN CONCRETE BEFORE LOSSES:	
COMPRESSION STRESS LIMIT & STRAND RELEASE— — — — —	3600 PS1
TENSION STRESS LIMIT @ STRAND RELEASE	-200 PSI
COMPRESSIVE STRESS LIMITS IN CONCRETE & SERVICE I AFTER LOSSES:	
• FINAL I (PS.DL.L++	4800 PS1
@ FINAL 2 (PS·DL)— — — — — — — — — — — —	3600 PSI
@ FINAL 3 [50% (PS+OL) +L+1	3200 PS1
TENSILE STRESS LIMIT IN CONCRETE & SERVICE III AFTER LOSSES:	
• FINAL 1 (PS+DL+LL)	-270 PSI
TENDON STRESS LIMIT PRIOR TO TRANSFER	202. 5 KSI
TENDON STRESS LIMIT AFTER ALL LOSSES	194.4 KSI

- 4. DEBONDING OR SHIELDING OF STRANDS TO REDUCE TEMPORARY TENSILE STRESSES
 IS PERMITTED. HOWEVER DEBONDING IS LIMITED TO 40% PER ROW AND 25% TOTAL.
 IN NO INSTANCES SHALL OUTER STRANDS BE DEBONDED. DEBONDED STRANDS SHALL
 BE SEPARATED BY AT LEAST ONE FULLY BONDED STRAND AND SHALL BE SYMMETRICAL
 ABOUT THE & OF THE BEAM.
 SHIELDING OF STRANDS SHALL BE ACCOMPLISHED BY TAPING OR TIGHT FITTING PLASTIC
- 5. THE ELASTOMERIC BEARING PADS PROVIDED IN THE STANDARD DESIGNS ARE BASED ON ZERO GRADE AND ARE LIMITED TO A MAXIMUM OF 5% GRADE. IN INSTANCES OF GRADES EXCEEDING THIS LIMIT. PADS SHALL BE SPECIFICALLY DESIGNED. INDIVIDUAL PAD DESIGNS SHALL BE IN ACCORDANCE WITH SECTION 14. AASHTO LRFD. BEVELED
- 6. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.

SOLE PLATES ARE PERMITTED.

- 7. WHEN ALTERNATE DESIGNS OR SITE SPECIFIC DESIGNS ARE PROVIDED. CRITERIA SET FORTH IN THESE STANDARDS SHALL APPLY.
- B. NEGATIVE DESIGN CAMBER AFTER ALL LOSSES IS NOT PERMITTED.
- 9. EACH BEAM PROVIDED IN THESE STANDARD DESIGNS HAS BEEN LOAD RATED IN ACCORDANCE
 WITH SECTION 3.15 OF THE WEST VIRGINIA DIVISION OF HIGHWAYS BRIDGE DESIGN MANUAL. 2004.
 ADDITIONALLY. LOAD RATING PROCEDURES ARE IN ACCORDANCE WITH THE AASHTO MANUAL
 FOR CONDITION EVALUATION AND LOAD AND RESISTANCE FACTOR RATING OF HIGHWAY BRIDGES,
 2003.

LAP SPLICE TABLE							
BAR SIZE	10. 3	NO. 4	WO. 5	NO.			
SPLICE LEN.	21"	28"	34"	41"			

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-817A & B THRU BR-842A & B, BR-8101. BR-8102A & B, BR-8103, BR-8104. BR-8105A & B AND BR-8106 AS APPLICABLE.

MATERIALS & FABRICATION NOTES

• THE PRESTRESSED CONCRETE BEAMS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF SECTION 603 OF THE STANDARD SPECIFICATIONS.

WILD REINFORCEMENT:

- ALL WILD REINFORCING STEEL SHALL BE GRADE 60. DEFORMED BILLET STEEL AND SHALL BE EPOXY COATED EXCEPT WHERE NOTED. ALL UNCOATED REINFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M31. ALL EPOXY COATED REINFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M284. EXCEPT WHERE AMENDED BY SECTION 709. I OF THE STANDARD SPECIFICATIONS.
- ALL TENSION LAP SPLICES SHALL BE A CLASS B, CONTACT TYPE. MINIMUM LAP

 SPLICE LENGTHS SHALL BE AS GIVEN IN THE "LAP SPLICE TABLE". THIS SHEET. ADDITIONALLY.

 IF LAP SPLICING OF ET, LR, AND BT BARS IS USED, TERMINATION OF THE SPLICE

 SHALL BE NO CLOSER TO THE END OF THE BEAM THAN 1/10 OF THE SPAN LENGTH.
- MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS. EXCEPT THAT NO. 4 AB BARS MAY HAVE A MINIMUM BEND DIAMETER OF 4 BAR DIAMETERS.
- MINIMUM CONCRETE COVER SHALL BE AS SPECIFIED IN SECTION 603.5 OF THE STANDARD SPECIFICATIONS. EXCEPT WHERE NOTED ON THE PLANS.

PRESTRESSING STRAND:

- ALL PRESTRESSING STEEL SHALL BE 1/4" \$. GRADE 270, 7 WIRE UNCOATED, LOW-RELAXATION STRAND MEETING THE REQUIREMENTS OF AASHTO M203, SUPPLEMENT SI.
- ALL BEAMS DESIGNED IN THESE STANDARDS UTILIZE STRANDS WITH A NOMINAL AREA OF 0.167 SQ. IN.

 STRANDS WITH A NOMINAL AREA OF 0.153 SQ. IN. IS PERMITTED FOR INDIVIDUAL OR ALTERNATE DESIGNS.

 HOWEVER THE DESIGNER IS ENCOURAGED TO USE THE LARGER STRAND FOR UNIFORMITY REASONS. IN

 NO CASES WILL STRESS-RELIEVED STRAND BE PERMITTED.
- ALL STRANDS SHALL BE ENCLOSED INSIDE THE STIRRUP CAGE FOR THE FULL LENGTH OF THE BEAM.
- ALL EXPOSED PRESTRESSING STRAND AT EACH BEAM END SHALL BE SHOP COATED WITH A LIQUID COLD-APPLIED BITUMINOUS ELASTOMERIC WATERPROOFING MEMBRANE. MATERIAL SHALL MEET ASTM C836-84.

CONCRETE:

- ALL CONCRETE USED IN MANUFACTURING PRESTRESSED CONCRETE BEAMS SHALL

 MEET THE REQUIREMENTS OF SECTION 603.6 OF THE STANDARD SPECIFICATIONS.

 DESIGN STRENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES SET FORTH IN

 THESE BLANS
- · ALL CONCRETE USED IN PARAPETS AND CURBS SHALL BE CLASS K CONCRETE.

ELASTONERIC BEARING PADS:

- ALL BEARING PADS SHALL WEET THE APPLICABLE REQUIREMENTS AS SET FORTH IN SECTION 18.2 OF THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS. 1998 EDITION WITH CURRENT INTERIMS. ALL BEARINGS SHALL BE STEEL REINFORCED LAWINATED BEARINGS.
- THE ELASTOMER MATERIAL SHALL BE 60 DUROMETERS WITH A MINIMUM LOW TEMPERATURE GRADE OF 3 (ZONE C).
- · ALL STEEL REINFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M270. GRADE 36.

GUARDRAIL, GUARDRAIL POSTS, TUBING & INSERTS:

• ALL W-BEAM GUARDRAIL AND ATTACHMENT HARDWARE SHALL BE IN ACCORDANCE WITH SECTION
712.4 OF THE STANDARD SPECIFICATIONS. GUARDRAIL POSTS. STRUCTURAL TUBING. POST ATTACHMENT
INSERTS. AND HARDWARE SHALL MEET THE LISTED MATERIAL AND COATING SPECIFICATIONS:

<u>ITEM</u>	DESCRIPT 10N	MATERIAL SPEC.	COATING SPE
POST	W6x25	AASHTO M270, GR 36	AASHTO WIII
PLATE	%" x 7"	AASHTO M270. GR 36	AASHTO WIII
TUBING	TS 8x4x3/16	ASTM A500, GR B	AASHTO MIII
CHANNEL	C7x9.8	AASHTO M270, GR 36	AASHTO MIII
FERRULE TYPE 2A	1%" \$ x 2%" WIH LEN.	ASTM A108 (IILI7 STEEL)	AASHTO W232
WIREANCHOR	%" ∮	ASTM A510 (1018 STEEL)	AASHTO W232
STUDS	1¼" ∮ x 8" LONG	ASTM A108 (1045 C.D. STEEL	AASHTO W232
NUTS	1%" ≠	AASHTO M291. CLASS C	AASHTO W232
COUPLERS TYPE IA	1%" # x 5" LONG	ASTM A108 (12L14 STEEL)	AASHTO W232
BOLTS ANCHOR	1¼" \$ x 12" LONG	AASHTO W164 (TYPE 1. HH)	AASHTO M232
BOLTS	%" ♥ x ALL LEN.	AASHTO W164 (TYPE 1. HH)	AASHTO M232
NUTS	%" ≠	AASHTO M291, CLASS C	AASHTO M232
WASHERS	ALL	AASHTO M293	AASHTO W232

WELDING

- TACK WELDING OF REINFORCEMENT IS NOT PERMITTED. REINFORCING CAGES AND LONGITUDINAL STEEL SHALL BE ADEQUATELY TIED WITH APPROVED MEANS TO PREVENT RACKING AND MISALIGNMENT.
- ALL WELDING OF FABRICATED ITEMS. AS SHOWN IN THESE PLANS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF AASHTO/AWS DI. 5. 2002.

STATE PROJECT NUMBER	FEDERAL PROJECT NUMBER	STATE DIST. WO.	COUNTY	SHEET NO.	TOTAL SHEETS
S322-7-15.71	ž ·	. ∵.2 ,	LINCOLN	-	

POST-TENSIONING BARS:

- POST TENSIONING THREAD BARS SHALL BE ONE INCH DIAMETER, 150 KSI STEEL. AND SHALL CONFORM TO AASHTO M275, TYPE II. STEEL THREAD BARS SHALL BE DESIGNED TO ALLOW THE USE OF HEAVY HEX NUTS AND COUPLERS THAT THREAD ONTO THE END OF THE DEFORMATIONS. HEAVY HEX NUTS AND COUPLERS SHALL BE OF A DESIGN AND MATERIAL RECOMMENDED BY THE BAR MANUFACTURER TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR. PROPERLY DOCUMENTED CERTIFIED MILL TEST REPORTS SHALL BE PROVIDED FOR EACH HEAT OF STEEL THREAD BARS.
- ALL POST-TENSIONING THREAD BARS, NUTS, BEARING PLATES, COUPLERS, AND ANCILLARY HARDWARE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO MIII. THE GALVANIZING PLANT SHALL ADMINISTER ADEQUATE QUALITY CONTROL MEASURES TO SAFEGUARD AGAINST HYDROGEN EMBRITTLEMENT. QUALITY CONTROL MEASURES SHALL COMPLY WITH ASTM A-143. CERTIFICATION FOR HOT-DIP GALVANIZING SHALL BE PROVIDED BY THE GALVANIZING PLANT.
- ALL POST-TENSIONING BEARING PLATES SHALL CONFORM TO AASHTO M270, GRADE 36.

SHEAR KEY GROUT:

- SHEAR KEY GROUT SHALL BE A GROUT THAT IS RECOMMENDED BY THE MANUFACTURER FOR A POURABLE GROUT APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST DATA WILL ATTAIN A MINIMUM OF 4500 PSI COMPRESSIVE STRENGTH IN 3 DAYS UNDER CONDITIONS REPRESENTATIVE OF THE CONDITIONS TO BE EXPERIENCED AT THE SITE. THE GROUT MUST BE LISTED ON THE APPROVED LIST OF GROUTS PUBLISHED BY THE WEST VIRGINIA DIVISION OF HIGHWAYS, MATERIALS CONTROL, SOIL AND TESTING DIVISION. THE CONTRACTOR SHALL PRE-TEST THE PROPOSED GROUT FOR COMPRESSIVE STRENGTH AT 3 AND 7 DAYS AND SUBMIT THE RESULTS TO THE BRIDGE PROJECT MANAGER FOR APPROVAL PRIOR TO INSTALLATION OF THE GROUT IN THE STRUCTURE. THE TESTS WILL BE BASED ON A POURABLE CONSISTENCY WITH THE SAME WATER/GROUT MIXTURE RATIO TO BE USED IN THE STRUCTURE.
- *THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR EACH PROJECT. THE GROUT PRE-TEST RESULTS OBTAINED IN THE NOTE ABOVE. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM A NEW PRE-TEST AND SUBMISSION FOR APPROVAL UNDER ANY OF THE FOLLOWING CONDITIONS:
- · A PERIOD OF 18 MONTHS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING.
- · GROUT MANUFACTURER HAS REVISED OR CHANGED THE GROUT SPECIFICATIONS.
- . THE CONTRACTOR ALTERS THE WATER/GROUT MIXTURE RATIO.
- THE CONTRACTOR CHANGES GROUT MANUFACTURER.
- THE CONTRACTOR IS REQUIRED TO COMPLETE THE GROUT STRENGTH TABLE ON BR-8103.
- TEST PROCEDURE FOR DETERMINING THE COMPRESSIVE STRENGTH OF GROUT SHALL USE CUBE SPECIMENS IN ACCORDANCE WITH ASTM C109. AS MODIFIED BY ASTM C1107. GROUT TESTING IN ACCORDANCE WITH AASHTO T23 (STANDARD CYLINDER TEST) IS NOT ACCEPTABLE.

PROTECTIVE SURFACE TREATMENT:

- EACH PRESTRESSED CONCRETE BEAM SHALL BE TREATED BY THE MANUFACTURER AT THE FABRICATION PLANT WITH AN APPROVED CONCRETE SEALER (SILANE). AN APPROVED LIST OF CONCRETE SEALERS ARE ON FILE AT THE WEST VIRGINIA DIVISION OF HIGHWAYS, MATERIALS CONTROL, SOIL AND TESTING DIVISION. COVERAGE SHALL INCLUDE TOP AND BOTTOM OF INTERIOR BEAMS, AND TOP, BOTTOM AND EXTERIOR SIDE OF EXTERIOR BEAM. APPLICATION RATE SHALL BE PER TREATMENT MANUFACTURER'S RECOMMENDATION.
- AFTER COMPLETION OF THE SILANE TREATMENT BY FABRICATOR AND A MAXIMUM OF FIVE WORKING DAYS PRIOR TO SHIPMENT OF THE BEAMS. THE FABRICATOR SHALL BE RESPONSIBLE FOR ABRASIVE BLAST CLEANING TO CLEAN WHITE CONCRETE THE INTERIOR SIDES OF BEAMS FOR THE FULL LENGTH. CLEAN WHITE CONCRETE SHALL MEAN REMOVAL OF ALL DIRT. GREASE. OIL, AND LOOSE CONCRETE LAITANCE AND PROVIDE A ROUGHENED CONCRETE SURFACE. BLASTING MEDIUM SHALL BE APPROVED BY THE DIVISION OF HIGHWAYS.

SHOP DRAWING

THE FABRICATOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWINGS IN ACCORDANCE WITH THE WEST VIRGINIA DIVISION OF HIGHWAYS DOCUMENTS. DD-102 AND THE STANDARD SPECIFICATIONS. ADDITIONAL INFORMATION IS PROVIDED IN SECTION 7 OF THE BRIDGE DESIGN MANUAL. SHOP DRAWINGS SHALL INCLUDE THE FABRICATOR'S DETENSIONING PLAN.

		WEST VIRGINIA DEPARTMENT OF TRAI DIVISION OF HIGHWAYS ENGINEERING DIVISION	VSPORT AT ION
		STAS BEAM SPAN	DESIGNED BY: THB/
		over	DRAWN BY:THB/
Dregos Baily	10-25-07	BIG CREEK	CHECKED BY:TM/
othecron, Elevatentes of Trice		on	REVIEWED BY: TW/
ST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	07-02-07	CR 7	DATE
ENGINEERING DIVISION	Abristo	in	SOALE
PRESTRESSED CONCRETE BEAM		LINCOLN COUNTY	SHEET NO OF
DESIGN & ASSEMBLY HOTES		PRESTRESSED CONCRETE BEAM	BAIDSE HUNBER
STANDARD SHEET BR-B100		DESIGN & ASSEMBLY NOTES	

