

VENDOR

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

Request for Quotation

04120658

ADDRESS CORRESPONDENCE TO ATTENTION OF

ALAN CUMMINGS 304-558-2402

*709055926 304-464-4441 CARR CONCRETE CORPORATION PO BOX 265

WAVERLY WV 26184-0265 OH-P Ö

DIVISION OF HIGHWAYS JOBSITE SEE SPECIFICATIONS

DATE PRIN	TED	TEF	IMS OF SAL	.E	SHIP VIA	FO.B.	FREIGHT TERMS
03/26/							
BID OPENING DATE:	ESSESSESSESSESSES	04/11/	2012	50000 P.W. 1000	BID	OPENING TIME 01	:30PM
LINE	QUAI	VTITY	UOP	ÇAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	PRESTR	1	SF CONCR		210-16 OX BEAMS AND ACC	ESSORIES	\$75,577. ^{EQ}
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	RIGHT NOTICE SUPPLI	TO CAN TO TH ED ARE	CEL T E VEN OF A	HIS C DOR I N INF		ELY UPON WRITTEN S AND/OR SERVICES DO NOT CONFORM	
	PREFER	ENCE F	or us	E OF	DOMESTIC STEEL P	RODUCTS	
	PU NO A PR	RCHASI CONTR STATE	NG DI ACTOR CONTR MADE	VISIO MAY ACT P IN T	USE OR SUPPLY ST ROJECT OTHER THA	BSECTION 2 BELOW, EEL PRODUCTS FOR	RECEIVED
	Α.			ION O	T PROJECT" MEANS F, OR ANY ADDITI	ON TO, ALTERATIO	2012 AFR 10 AMII: 45 WV PUFCHASING DIVISION
IGNATURE /	A 1. Ru	111 -	-		TELEPHONE	A // A // / DATE	10 n
IFLE ROVE	11	FE	IN J	WALD:	304	ADDRESS SUAVESES	4-7-16
Project	Manage	ONDING :			5425		TO BE NOTED ABOVE
→ WHI	EN KESK	JNUING	O RFQ,	INSER	I NAME AND ADDRESS I	N SPACE ABOVE LABELE	D '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.html 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).

Rev. 11/09/11



VENDOR

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

Request for

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ADDRESS CHANGES TO BE NOTED ABOVE

ALAN CUMMINGS 304-558-2402

ADDRESS CORRESPONDENCE TO ATTENTION OF:

***709055926** 304-464-4441 CARR CONCRETE CORPORATION PO BOX 265 WAVERLY WV 26184-0265

DIVISION OF HIGHWAYS JOBSITE SEE SPECIFICATIONS

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TERMS OF SALE SHIP VIA FREIGHT TERMS DATE PRINTED F.O.B. 03/26/2012 BID OPENING DATE: 04/11/2012 BID OPENING TIME 01:30PM CAT, LINE QUANTITY UOP AMOUNT ITEM NUMBER UNIT PRICE OF OR OTHER IMPROVEMENT TO ANY BUILDING OR STRUCTURE, INCLUDING, BUT NOT LIMITED TO, ROADS OR HIGHWAYS, OR THE INSTALLATION OF ANY HEATING OR COOLING OR VENTILATING PLANTS OR OTHER EQUIPMENT, OR THE SUPPLY OF AND MATERIALS FOR SUCH PROJECTS, PURSUANT TO A CONTRACT WITH THE STATE OF WEST VIRGINIA FOR WHICH BIDS WERE SOLICITED ON OR AFTER JUNE 6, 2001. "STEEL PRODUCTS" MEANS PRODUCTS ROLLED, FORMED, В. SHAPED, DRAWN, EXTRUDED, FORGED, CAST, FABRICATED OR OTHERWISE SIMILARLY PROCESSED, O PROCESSED BY A COMBINATION OF TWO OR MORE OF SUCH OPERATIONS, FROM STEEL MADE BY THE OPEN HEARTH, BASIC OXYGEN, ELECTRIC FURNACE, BESSEMER OR OTHER STEEL MAKING PROCESS. "UNITED STATES" MEANS THE UNITED STATES OF C. AMERICA AND INCLUDES ALL TERRITORY, CONTINENTAL OR INSULAR, SUBJECT TO THE JURISDICTION OF THE UNITED STATES. THE DIRECTOR OF THE PURCHASING DIVISION MAY, IN 2. WRITING, AUTHORIZE THE USE OF FOREIGN STEEL PRODUCTS IF: THE COST FOR EACH CONTRACT ITEM USED DOES NOT Α. 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, 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 SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE TELEPHONE DATE TITLE



NENDOR

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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Purchasing Division
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RFQ#: 04120658

Specifications One Time Purchase

Purpose: To provide the West Virginia Divisions of Highways with prestressed concrete box beams and accessories for state project S346-5/5-1.66, Wickwire I-Beam Bridge.

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 Agency.

2.0 SCOPE OF WORK

The Vendor shall provide 36" wide by 21" deep Prestressed Concrete Box Beams with accessories.

2.1 Technical Requirements

All prestressed concrete box beams and accessories manufactured and delivered shall be in accordance with the West Virginia Division of Highways Standard Specifications Roads and Bridges adopted 2010 and the current Supplemental Specifications, and the attached control prints. If larger prints are required, contact District Four Bridge Department 304-842-

2.1.1 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 Agency, may be accepted under the following conditions: RFQ#: 04120658

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- A) Cracks of 0.004 inch or less shall be treated with a second coat of an Agency approved concrete sealer.
- B) Cracks of greater than 0.004 inch shall be treated by an Agency approved epoxy injection method.

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

2.1.2 Upon receipt of a Purchase Order, the Vendor shall submit shop drawings to the District Bridge Engineer issuing the Purchase Order within twenty (20) calendar days. Shop drawings must be approved by the Agency prior to the manufacture of any items.

2.2 Freight

2.3.1 All shipments are to be FOB Destination

2.4 Delivery

- 2.4.1 All materials covered by this order shall be delivered to the project site on Taylor County Route 5/5 near Grafton, WV (See Attached Map).
- 2.4.2 Delivery is currently scheduled for a mid-morning time in August 2012. Vendor shall coordinate delivery with the District Bridge Engineer or his designated agent at 304-842-1512.
- 2.4.3 The Agency requires all materials to be delivered to the designated job site in a single calendar day.
- 2.4.4 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 requirements herein.

3.0 INVOICING

3.1 Payment

3.1.1 The Vendor must send a proper invoice to:

West Virginia Division of Highways District Four Headquarters P.O. Box 4220 Clarksburg, WV 26302

3.2 Partial Payment of Approved Beams

- 3.1.3 Upon completion of manufacture and approval by the Agency of all Beams specified on the Purchase Order, the Vendor may invoice and the Agency will pay for the cost of manufacturing the Beams, not to exceed 65% of the total cost of the delivered Beams. The remaining may be invoiced when all beams are delivered. Partial payment for 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 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 Purchase Order.
 - c. The Vendor shall furnish a statement of approved Beams condition and exact storage location.
 - d. The Vendor shall furnish a legal right-of-entry onto the storage site to Agency employees and/or agents for the purpose of inspecting, sampling, testing and removing any or all Beams

4.0 AWARD

4.1 A Purchase Order will be awarded complete and not split to the lowest acceptable bidder.

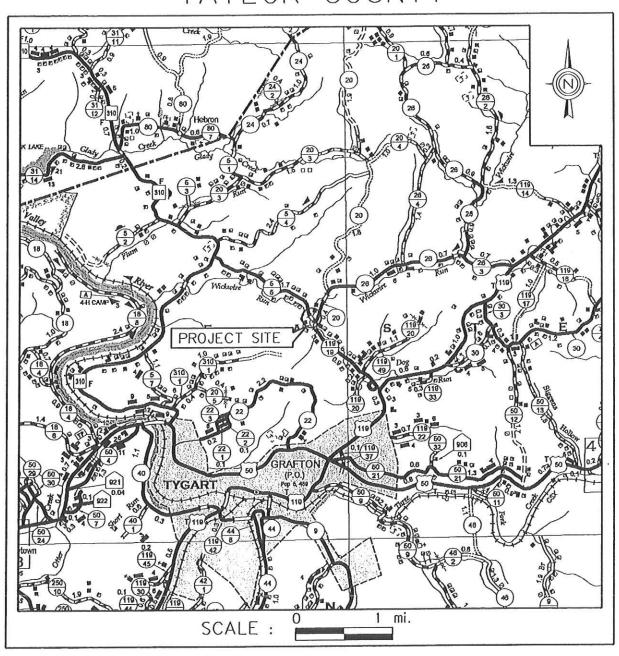
COST SHEET

RFQ # 04120658

Item Number	Quantity	Description	Unit Price	Amount
1	891	SF - Interior Beams; 21"D X 36"W Prestressed Concrete Box Beams. 6 Beams @ 49'6" Long.	40.25	35,862,75
2	297	SF - Exterior Beams; 21"D X 36"W Prestressed Concrete Box Beams. 2 Beams @ 49'6" Long.	40.25	11,954.25
3	16	EA - Additional cost of Skewing one beam end 5° RFS	2.C. Du	320. Esp
4	14	EA – Elastomeric Laminated Bearing Pads B1 Pad 1 13/16" T X 4 3/4" W x 2'4" L (60 Duro)	250.84	3,504,04
5	4	EA – Elastomeric Laminated Bearing Pads B2 Pad 1 13/16" T X 4 ¾" W x 1'3 1/2" L (60 Duro)	2000	3,564.64
6	16	EA – #8 Rebar Anchor Rods X 2'0" long Galvanized	10.00	160.00
7	61	LF - 2" Thick Sponge Rubber Preformed Joint Filler 6" wide	26. ¢¢	1,220.00
8	50	LF 1" Thick Sponge Rubber Preformed Joint Filler 21" wide	20.60	1,000.04
9	28	EA – Sponge Rubber Washers 8" X 8" X 1" thick	20.88	5604
10	16	EA – Guardrail Attachment Assembly Type TL-2 Includes inserts, studs, nuts and washers. Galvanized	236.84	4,0000.40
11	110	LF – 8"x 4" x 3/16" tubing for TL-2 Guardrail System. Includes blocks for posts, and splices. Galvanized	1000 ad	11,0005,00
12	110	LF – Galvanized W-Beam Guardrail with bolts and nuts.	ZO.09	2,200.00
13	110	LF – 1" dia. Post-Tensioning Thread Bars with nuts. 4 @ 27'6"	20.0cb	2,200.00
14	8	EA – Bearing Plates 9" X 9" x 1" Galvanized	1\$0.80	2,200.09 800.09 \$75,577.9
			TOTAL	\$75,577.

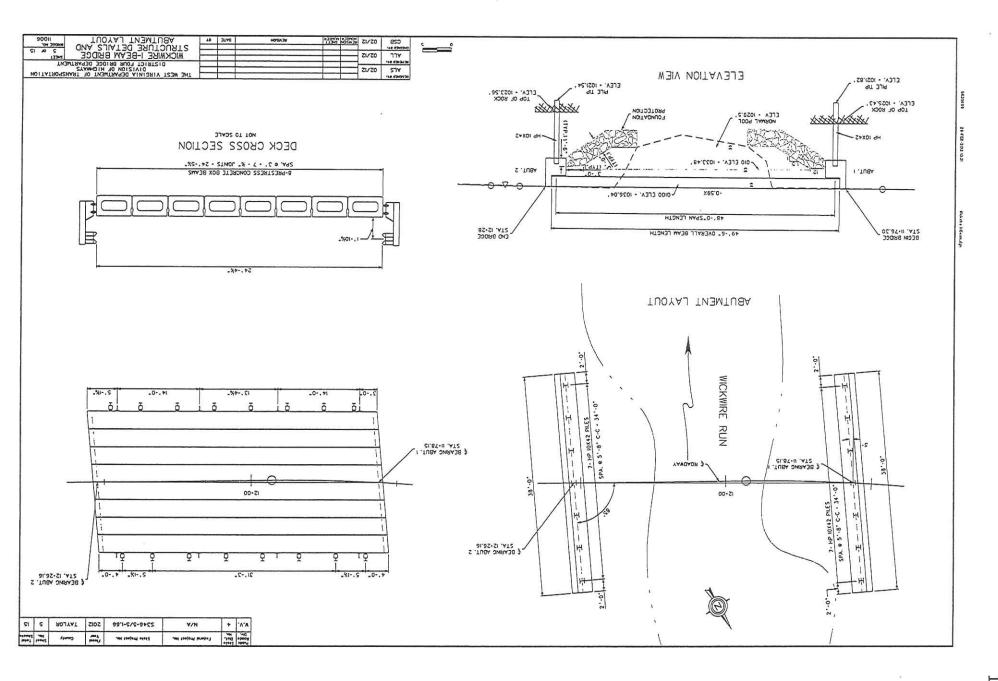
LOCATION MAP

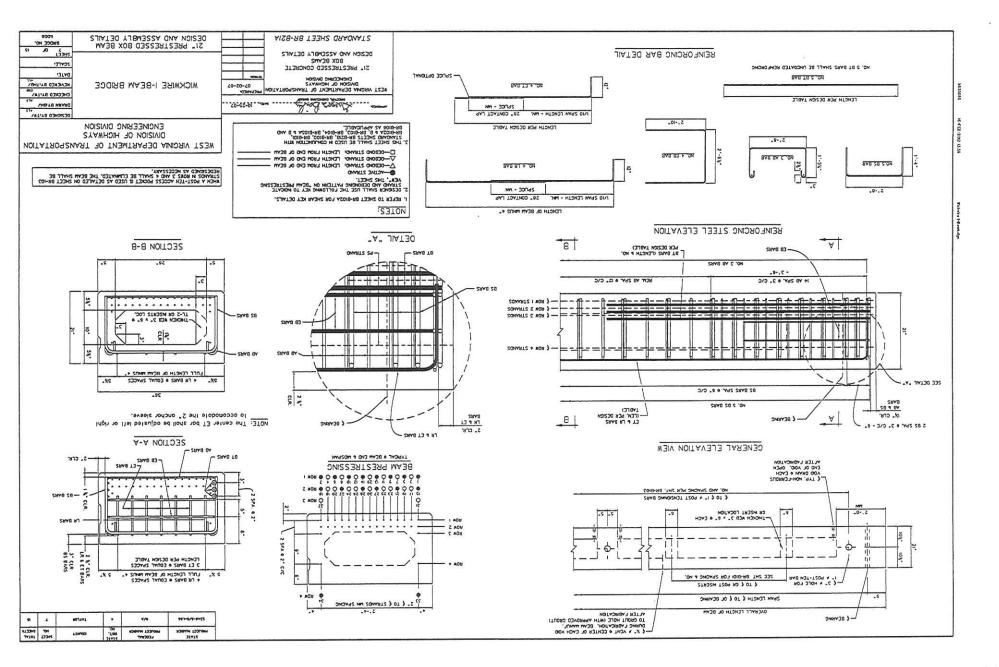
WICKWIRE I-BEAM BRIDGE STATE PROJECT NO. S346-5/5-1.66 FEDERAL PROJECT NO. N/A TAYLOR COUNTY



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

DISTRICT FOUR BRIDGE DEPARTMENT





DESIGN DATA FOR 21" DEPTH ADJACENT BOX BEAM SPAN LENGTH & TO & BEARING 48"-0" /\$474/}\|#\$;\#\$|\\|\$1/74|}\|#\$!-&*|\\!!#\!-\$4|}\\!#\$!\\$!\\!#\$!\\$! 49"-6" OVERALL LENGTH OF BEAM NO. OF 270 KSI, %" / LOW-RELAXATION STRANDS, AREA/STRAND - 0.167 SO. N. 1,2,5,6,9,10, 13,14 ROW I 15,16,21,22, ROW 2 STRAND POSITION NUMBER 33,34 ROW 4 PRESTRESSING FORCE IMMEDIATELY AFTER STRAND RELEASE, Ppt. DOPS/BEAM EFFECTIVE PRESTRESSING FORCE AFTER ALL LOSSES, Ppe, (KIPS/BEAM) 456 REQUIRED FACTORED MOMENT 746 . STRENGTH L MU (FT-KPS/BEAM) FACTORED FLEXURAL RESISTANCE, M. OFT-NPS/BEAM TOTAL NO. DEBONDED STRANDS ROW 1 DEBONDED STRAND POSITION MARGER & SHELDING LENGTH FROM EACH END ROW 2 NUMBER & LENGTH *4 ET TOP x 5'-0" TENSION BARS & EACH END NUMBER & LENGTH +5 BT BOTTOM 0.55 . RELEASE += POSITIVE (UP) e ERECTION 0.76 0.59 P FNAL NO OF INSERTS REOD. END OF BEAM TO MARGER & SPACING OF TL-2 GUARDRAIL INSERTS 4'-0" ¢ OF FRST NSERT EA. END ¢ OF 1st NSERT TO ¢ 2nd NSERT 5"-1%" SEE NOTE 6 EA. END WEIGHT OF TYPICAL BEAM NOLUDING DIAPHRAGM (TONS) 14.3

. 5344-5/3-1.66

MIN. CONCRETE STRENGTH @ RELEASE - 5500 PSI MIN. CONCRETE STRENGTH @ 28 DAYS - 8000 PSI - 33,820 LBS

NITIAL PULL/STRAND

CROSS-SECTION AREA/STRAND

- 0.167 SQ. IN.

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

FOR ADDITIONAL DIAPHRAGMS, ADD 226 LBS/DIAPHRAGM.

FOR SKEW ADD 21 LBS/DEGREE OF SKEW/END.

FOR LONGER ENDBLOCK, ADD 271 LBS/LF/END.

- 2. DESIGNERS SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON EVEN SPAN LENGTHS. A THO LANE STRUCTURE B BEAMS WOE AND ZERO SICH. SUPERIMPOSED DEAD LOADS INCLUDE TYPE F PARAPET (32) PLF) AND A FWS OF 50 PSF. FOR NON-STANDARD BROCES DATA SHOULD BE VERFED AND F REGURED NEW DESIGN DATA ENTERED NTO BLANK COLUMNS. IN NO CASE SHALL THE STANDARD DESIGN TABLE BE ALTERED.
- 3.F BEAM DOES NOT MEET ALL TOLERANCES REFER TO MP 603.10.40 FOR GUIDANCE. 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 MANAZET THE EFFECT OF TEMPERATURE VARANTION.

4.OCSIDNER, FABRICATOR, AND ERECTOR SHALL BE ARARE THAT SKEWED END BEAUS MAY THIST OR WARP, CAUSING UNEVEN BEAM SEATING AT THE BEAUSING. THE CONTRACTOR IS REQUIRED TO CORRECTION THE REAL FACE SECURED IN PLACE. IN ETHOO OF CORRECTION, SHALL PROVIDE AN EVEN, TOTAL BEAMRS AND A LEVEL TOP BEAM SURFACE, TOLERANCE, AFTER CORRECTION, SHALL PROVIDE AND EVEN, TOTAL BEAMRS AND A LEVEL TOP BEAM SURFACE, TOLERANCE, AFTER CORRECTION, SHALL NOTEY THE CONTRACTOR AND EXCENSE F CORRECTIONS ARE REQUIRED PROR TO SHARGAT.

S. MAXMUM BEAM SKEW SHALL BE 30 DEGREES.

6.DESEMER MPUT VALUES OF MANDER OF INSERTS, DISTANCE FROM EMO OF BEAM TO & FIRST INSERT, AND & FIRST INSERT TO & SECOND INSERT, ABOVE VALUES SHALL BE BASED ON THE REQUIRED 6"-3" GUARDRAIL POST SPACING ACROSS THE BROCE.

7. THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-821A, BR-8100, BR-8101, BR-8102A & 8,

BR-BIO3, BR-BIO4, BR-BIOSA & B AND BR-BIOS AS APPLICABLE.

K022			ENGINEERING DIVISION			
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0,				DAME BYITIE! ALS		
_ Sunos Raily	10-2	5-07		ACHENED STATIST ALL		
and the second second			WICKWIRE I-BEAM BRIDGE			
VEST VIIGHA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	07-0	02-07	more than a second	DATE		
DIGHCERNG DYSION				SCALE.		
DESIGN TABLE FOR 21"	07/10	19		MEET NO B OF 15		
			DESIGN TABLE FOR 21"	BROSE NUMBER		
PRESTRESSED BOX BEAM		_		11006		
STANDARD SHEET BR-B218	-	-	PRESTRESSED BOX BEAM	1100000		

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GOVERNING SPECIFICATIONS

THE WEST VIRGINA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, ADDPTED 2010 AS AMENOCO BY THE CURRENT SUPPLEMENTAL SPECIFICATIONS. THE CONTRACT PLANS AND CONTRACT SPECIAL PROVISIONS ARE THE GOVERNING PROVISIONS APPLICABLE TO

ALL BEAMS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO LIFE BROCE 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.

T. DESIGN LOADS.

HL-93 LIVE LOAD IN ACCORDANCE WITH THE AASHTO LIFE BROGE DESIGN SPECFICATIONS.

FUTURE WEARING SURFACE OF 50 PSF OF ROADWAY

TYPE F PARAPET WEIGHING 321 PLF.

DIAPHRACM DEAD LOAD, NUMBER REQUIRED BASED ON 15"-0" MAX, SPACING.

- 2. THO LANE BROCE MITH AN OVERALL WIDTH OF 24"-5" (NCL.K" GAP BETWEEN ADJ. BEAMS). A CURB-TO-CURB WIDTH OF 22"-1", TRANSVERSE POST-TENSIONING. AND ZERO SKEW.
- 3. DESIGN STRENGTH AND UNIT STRESSES

MROWLIM CONCRETE STRENGTH & STRAND RELEASE	5500 PSI
MINIMUM CONCRETE STRENGTH # 28 DAYS	8000 PSI
TEMPORARY STRESS LIMTS IN CONCRETE BEFORE LOSSES.	
COMPRESSION STRESS LIMIT & STRAND RELEASE	3300 PSI
TENSION STRESS LIMT & STRAND RELEASE	-200 PSI
COMPRESSIVE STRESS LMTS IN CONCRETE & SERVICE AFTER LOSSES!	
4 FNAL I (PS-DL-LL)	4800 PSI
0 FNAL 2 (PS-DL)	3600 PSI
9 FNAL 3 (50X(PS-DL)-LL)	3200 PSI
TENSILE STRESS LIMT IN CONCRETE & SERVICE & AFTER LOSSES!	
e FNAL 1 (PS-DL-LL)	-540 PSI
TENDON STRESS LMT PROR TO TRANSFER:	202.5 KSI
TENDON STRESS LIMT AFTER ALL LOSSES:	194.4 KSI

4. DEBONDING OR SHELDING OF STRANDS TO REDUCE TEMPORARY TENSILE STRESSES IS PERMITTED. HOWEVER DERONOING IS LIMITED TO 40Y PER ROW AND 25Y TOTAL. N NO INSTANCES SHALL OUTER STRANDS RE DERONDED. DERONDED STRANDS SHALL BE SEPARATED BY AT LEAST ONE FULLY BONDED STRAND AND SHALL BE SYMMETRICAL ABOUT THE & OF THE BEAM.

SHELDING OF STRANDS SHALL BE ACCOMPLISHED BY TAPING OR TICHT FITTING PLASTIC TUBES TAPED AT EACH END.

- 5. THE ELASTOMERIC BEARING PADS PROVIDED IN THE STANDARD DESIGNS ARE BASED ON ZERO GRADE AND ARE LIMTED TO A MAXIMUM OF 5X GRADE. IN INSTANCES OF GRADES EXCEEDING THIS LIMT, PADS SHALL BE SPECIFICALLY DESIGNED. NOWOUAL PAD DESIGNS SHALL BE IN ACCORDANCE WITH SECTION 14, AASHTO LIFTD. BEVELED SOLE PLATES ARE PERMITTED.
- S. MAXMAM BEAM SKEW SHALL BE 30 DEGREES.
- 7. WHEN ALTERNATE DESIGNS OR SITE SPECIFIC DESIGNS ARE PROVIDED, CRITERIA SET FORTH IN THESE STANDARDS SHALL APPLY.
- A 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 VIRGINA DIVISION OF HIGHWAYS BRIDGE DESIGN MANUAL, 2004. ADDITIONALLY, LOAD RATING PROCEDURES ARE IN ACCORDANCE WITH THE MASHTO MANUAL FOR CONDITION EVALUATION AND LOAD AND RESISTANCE FACTOR RATING OF HIGHWAY BRIDGES,

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

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-817A & 8 THRU BR-842A & 8, BR-8101, BR-8102A & 8, BR-8103, BR-8104, BR-8105A & 8 ANO BR-8106 AS APPLICABLE.

MATERIALS & FABRICATION NOTES

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

MLD RENFORCEMENT

. ALL MILD RENFORCING STEEL SHALL BE GRADE 60, DEFORMED BILLET STEEL AND SHALL BE EPOXY COATED EXCEPT WHERE NOTED. ALL UNCOATED RENFORCING SHALL MEET THE REQUIREMENTS OF AASHTO MIL. ALL EPOXY COATED RENFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M284, EXCEPT WHERE AMENDED BY SECTION 709.1 OF THE STANDARD SPECIFICATIONS.

. ALL TENSION LAP SPLICES SHALL BE A CLASS B, CONTACT TYPE. MINMUM 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.

MINMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS, EXCEPT THAT NO. 3 AB BARS MAY HAVE A MINMUM BEND DIAMETER OF 4 BAR DIAMETERS.

· MINMAIN CONCRETE COVER SHALL BE AS SPECEED IN SECTION 603.5 OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE NOTED ON THE PLANS.

- ALL PRESTRESSING STEEL SHALL BE " +, GRADE 270, 7 MIRE 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 SO. IN. STRANDS WITH A NOWINAL AREA OF 0.153 SO. IN. IS PERWITTED FOR INDIVIDUAL OR ALTERNATE DESIGNS, HOWEVER THE DESIGNER IS ENCOURAGED TO USE THE LARGER STRANG FOR UNFORMTY REASONS. N NO CASES WILL STRESS-RELEVED STRAND BE PERMITTED.
- ALL STRANDS SHALL BE ENCLOSED INSIDE THE STRRUP CACE FOR THE FULL LENGTH OF THE BEAM
- . ALL EXPOSED PRESTRESSING STRAND AT EACH BEAM END SHALL BE SHOP COATED WITH A LIQUID COLD-APPLIED BITUMNOUS 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 MINMUM VALUES SET FORTH IN THESE PLANS.
- *ALL CONCRETE USED IN PARAPETS AND CURBS SHALL BE CLASS K CONCRETE.

ELASTOMERIC BEARING PAGS:

- ALL BEARING PADS SHALL MEET THE APPLICABLE REQUIREMENTS AS SET FORTH IN SECTION 18.2 OF THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 2010 FOITION WITH CURRENT INTERMS. ALL BEARINGS SHALL BE STEEL REINFORCED. LAMNATED BEARINGS.
- . THE ELASTONER MATERIAL SHALL BE GO DURONETERS WITH A MANAGEM LOW TEMPERATURE GRADE OF 3 (ZONE C).
- . ALL STEEL REINFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M270, GRADE 36.

CUARDRAL CUARDRAIL POSTS, TUBING & INSERTS:

- ALL M-BEAM GUARDRAIL AND ATTACHMENT HARDWARE SHALL BE IN ACCORDANCE WITH SECTION 712 4 OF THE STANDARD SPECERATIONS. CHARDRAIL POSTS STRUCTURAL TURING, POST ATTACHMENT INSERTS, AND HARDWARE SHALL MEET THE LISTED MATERIAL AND COATING SPECIFICATIONS:

ITEM	DESCRIPTION	MAJERIAL SPEC	COATING SPEC.
POST	W6×25	AASHTO M270, CR 36	AASHTO MIII
PLATE	%" x 7"	AASHTO M270, GR 38	AASHTO MIT
TUBING	TS 8=4x3/16	ASTM ASOO, GR B	AASHTO MIT
CHANNEL	C7×9.8	AASHTO M270, CR 36	AASHTO MIII
FERRULE TYPE	2A 1%" # x 2%" MN LEN.	ASTM AIDS HILLY STEEL)	AASHTO M232
WIRE ANCH	OR %" #	ASTM ASID HOTE STEEL)	AASHTO M232
STUDS	1%" # x 8" LONG	ASTM AIDS 11045 C.D. STEEL)	AASHTO ME32
NUTS	1%* •	AASHTO M291, CLASS C	AASHTO M232
COUPLERS TYPE	1A 1%" # x 5" LONG	ASTM AIDS (12LI4 STEEL)	AASHTO M232
BOLTS JANCHO	R 1%" # # 12" LONG	AASHTO MIG4 (TYPE 1, HH)	AASHTO MQJQ
BOLTS	%" . ALL LEN.	AASHTO MIG4 (TYPE 1, HH)	AASHTO M232
MUTS	X	AASHTO M291, CLASS C	AASHTO M232
WASHERS	ALL	AASHTO NOSS	AASHTO M232

- * TACK WELDING OF REINFORCEMENT IS NOT PERMITTED. REINFORCING CAGES AND LONGITUDINAL STEEL SHALL BE ADEQUATELY TIED WITH APPROVED HEARS 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 DLS, 2002.

PROJECT HABER	PROJECT MAREN	DIST.	COUNTY	SHEET MD.	TOTAL SHEETS	
5346-5/5-1,64	N/A		TAYLOR		13	

POST-TENSIONING BARS:

- . POST TENSIONING THREAD BARS SHALL BE ONE NON DIAMETER, 150 KSI STEEL, AND SHALL CONFORM TO MASHTO MOTS, TYPE IL 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 CERTIFED MILL TEST REPORTS SHALL BE PROVIDED FOR EACH HEAT OF STEEL THREAD BARS.
- . ALL POST-TENSIONING THREAD BARS, MUTS, BEARING PLATES, COUPLERS, AND ANCILLARY HARDWARE SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH AASHTO MIII. THE CALVANZING PLANT SHALL ADMINSTER ADEQUATE QUALITY CONTROL MEASURES TO SAFEGUARD AGAINST HYDROGEN EMBRITTLEMENT QUALITY CONTROL MEASURES SHALL COMPLY WITH ASTM A-143. CERTFICATION FOR HOT-DIP CALVANZING SHALL BE PROVIDED BY THE GALVANZING PLANT.
- · ALL POST-TENSIONING BEARING PLATES SHALL CONFORM TO AASHTO M270, GRADE 36

SHEAR KEY GROUT

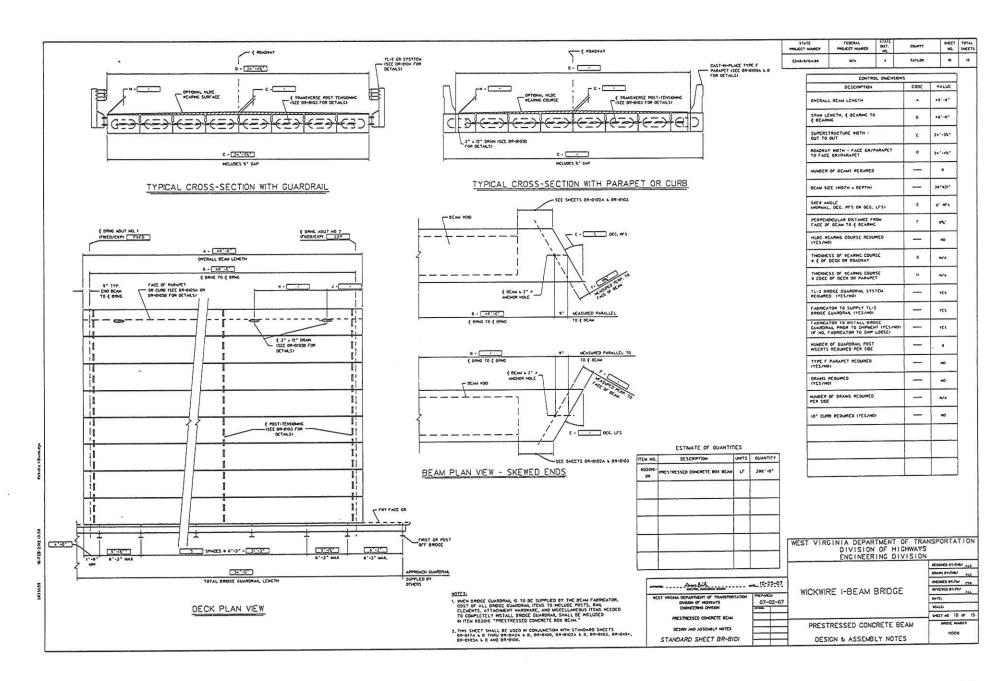
- SHEAR KEY GROUT SHALL BE A GROUT THAT IS RECOMMENDED BY THE MANUFACTURER FOR A POURABLE CROUT APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST DATA WILL ATTAIN A MINISTER OF 4500 PSI COMPRESSIVE STRENGTH IN 3 DAYS UNDER CONDITIONS REPRESENTATIVE OF THE CONDITIONS TO BE EXPERIENCED AT THE SITE. THE GROUT MUST BE LISTED ON THE APPROVED LIST OF GROUTS PUBLISHED BY THE WEST VIRGINA 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
- 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 WONTHS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING.
- . CROUT 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 MODFIED BY ASTM C1107. GROUT TESTING IN ACCORDANCE WITH AASHTO T23 (STANDARD CYLINDER TEST) IS NOT ACCEPTABLE.

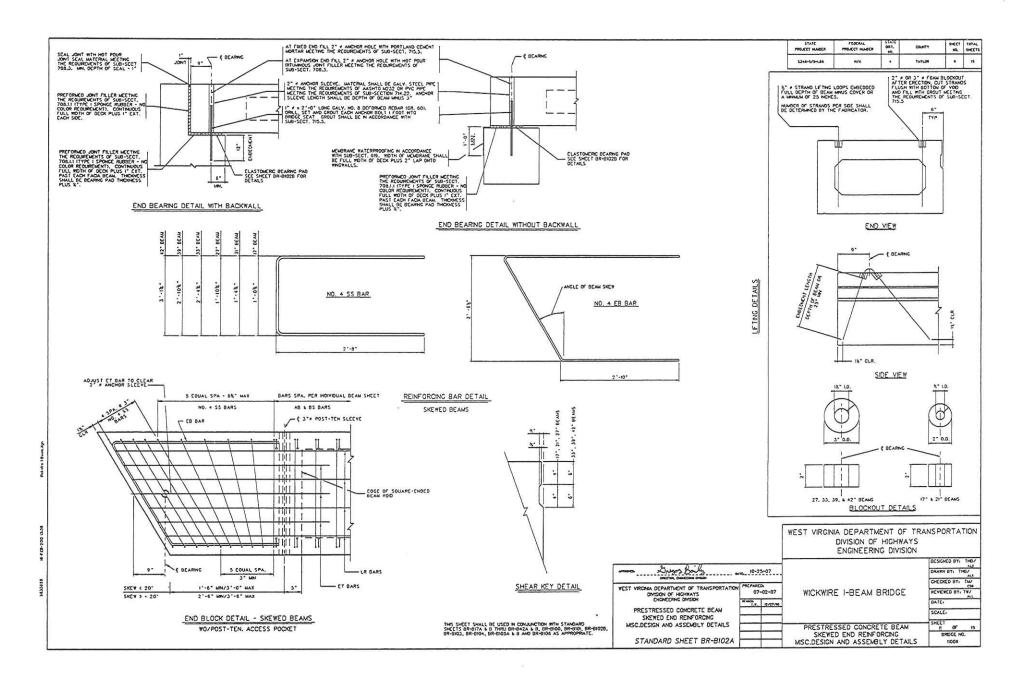
PROTECTIVE SURFACE TREATMENT

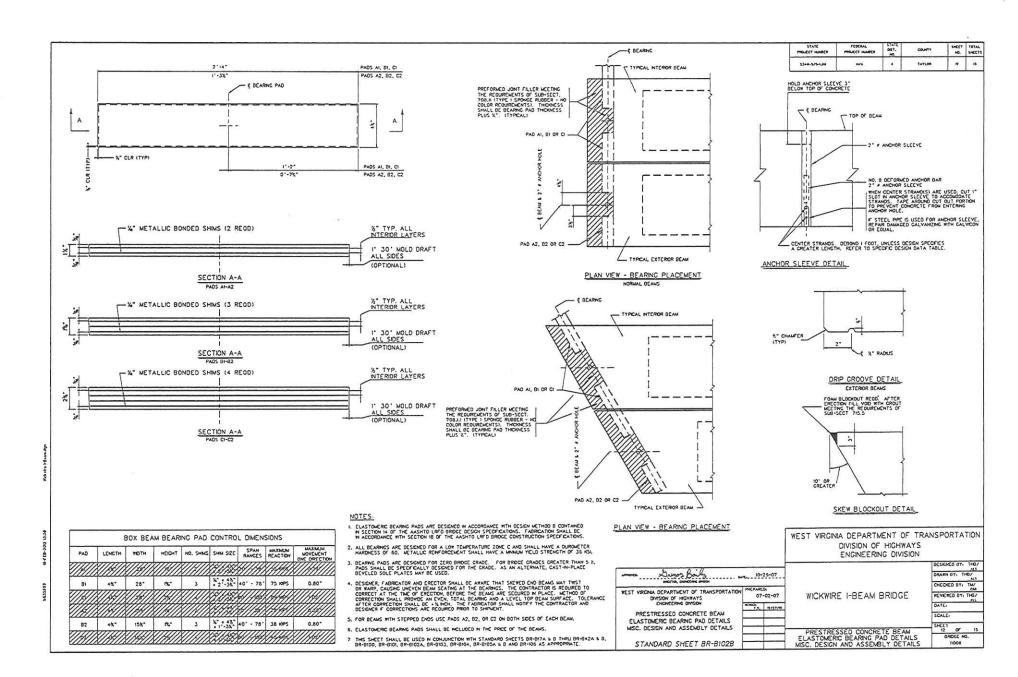
- EACH PRESTRESSED CONCRETE BEAM SHALL BE TREATED BY THE MANUFACTURER AT THE FABRICATION PLANT WITH AN APPROVED CONCRETE SEALER (SILANE). AN APPROVED LIST OF CONCRETE SEALERS ARE ON FILE AT THE WEST VIRGINIA DIVISION OF HICHWAYS, MATERIALS CONTROL. SOIL AND TESTING DIVISION. COVERAGE SHALL INCLUDE TOP AND BOTTOM OF INTERIOR BEAMS, AND TOP, BOTTOM AND EXTERIOR SIDE OF EXTERIOR BEAM, APPLICATION RATE SHALL DE PER TREATMENT MANUFACTURER'S RECOMMENDATION
- . AFTER COMPLETION OF THE SILANE TREATMENT BY FABRICATOR AND A MAXIMUM OF FIVE WORKING DAYS PRIOR TO SHPWENT 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 HICHWAYS.

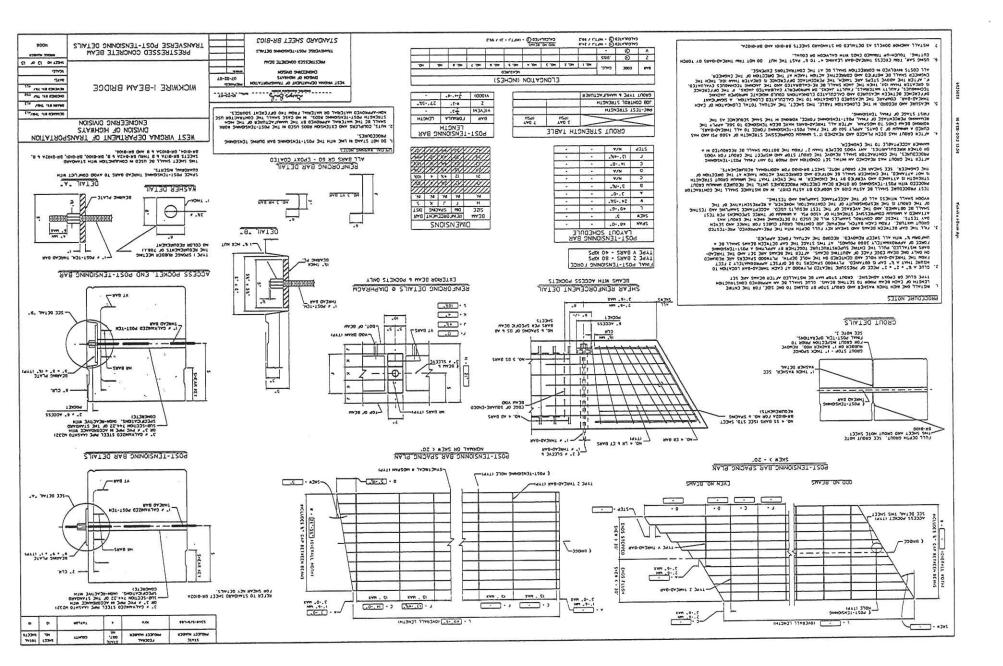
SHOP DRAWNESS.
THE FABRICATOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWNES IN ACCORDANCE WITH THE WEST VIRGINA DIVISION OF HIGHWAYS DOCUMENTS, DD-102 AND THE STANDARD SPECIFICATIONS. ADDITIONAL INFORMATION IS PROVIDED IN SECTION 7 OF THE BRIDGE DESIGN MANUAL. SHOP DRAWINGS SHALL INCLUDE THE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

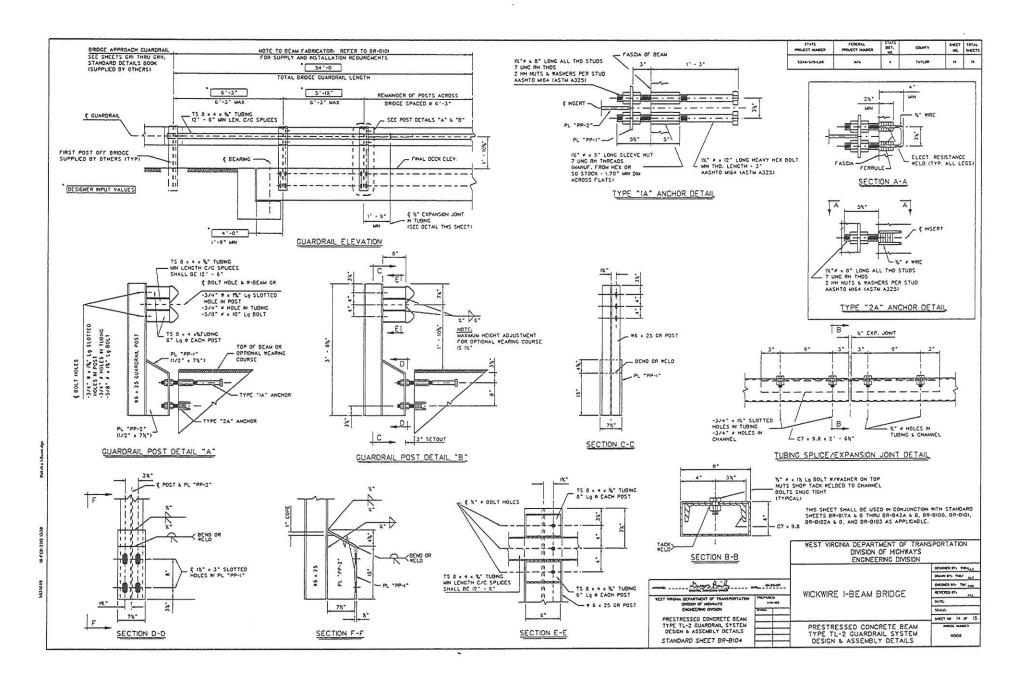
			WEST VIRGINIA DEPARTMENT OF TR DIVISION OF HICHWAY ENGINEERING DIVISIO	S
Dogs bils	್ಷ ಗಿಲ	-07	WOODS LOCAL BRIDGE	OCSIDED SYTHMY ALS ORAM SYTHMY ALS DECOGO SYTHW CSB
WEST VIRGINA DEPARTMENT OF TRANSPORTATION DIVISION OF HOMERS ENGINEERING DIVISION	07-02-07		WICKWIRE I-BEAM BRIDGE	DATE.
PRESTRESSED CONCRETE BEAM	00/10	TF		WEET NO 9 0 15
			PRESTRESSED CONCRETE BEAM	P30AH 32086

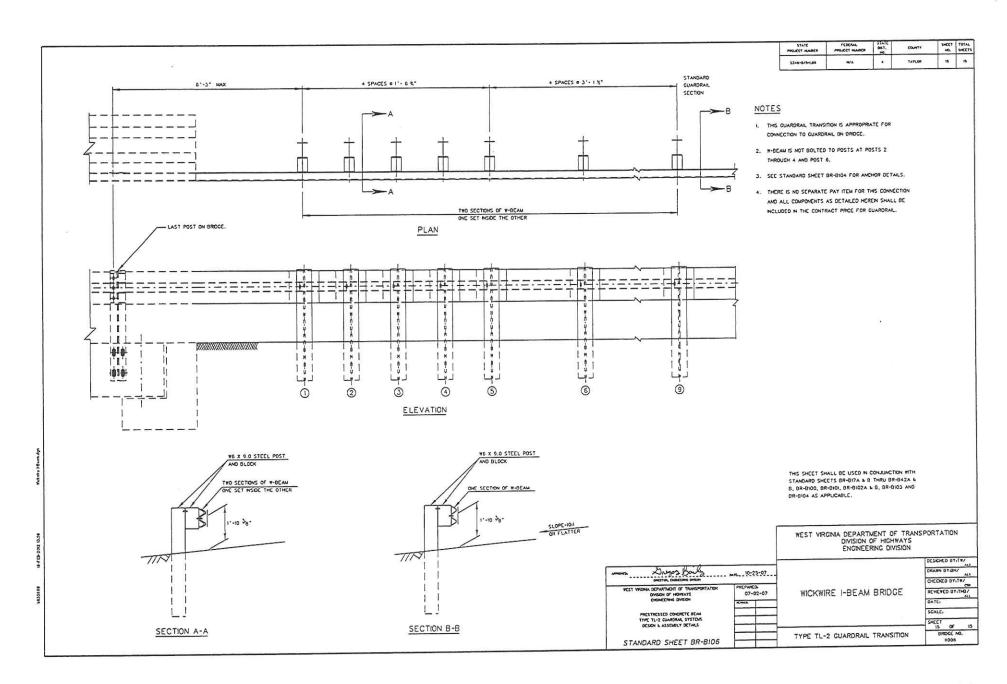


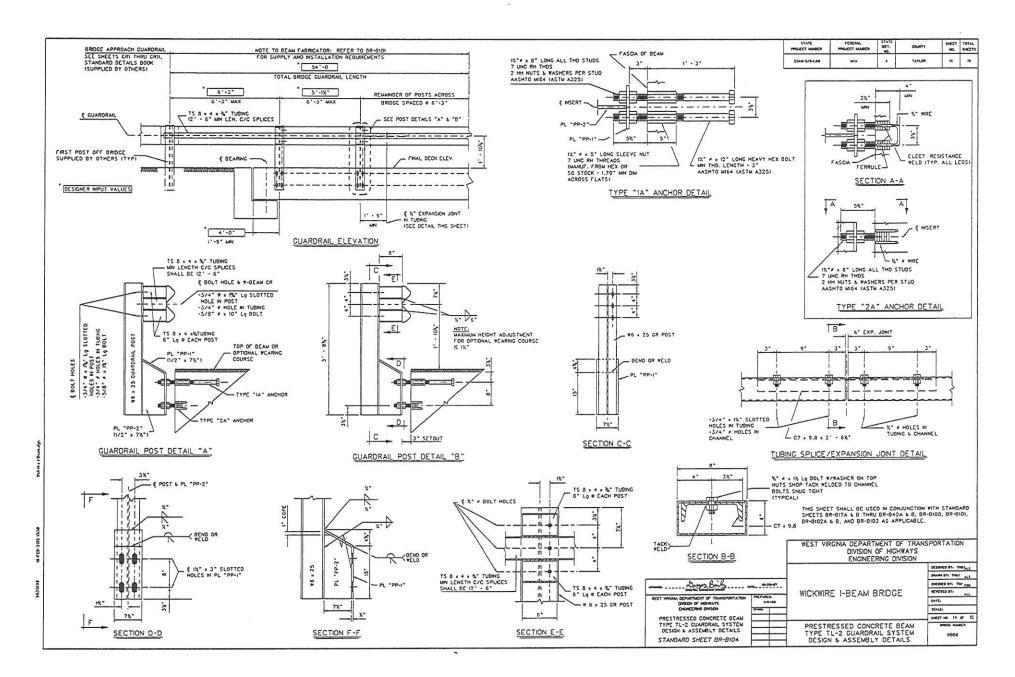












State of West Virginia

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.

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 data of this partifications are	
_		ing 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,	
-	B. ——	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	X	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	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,	
-), ——	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 meer requirements for such preference, the Secretary may order the Director of Purchasing to (a) reject the bid; or (b) assess a peragainst such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting ago 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 authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has 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.		ments 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	
		a	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true curate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate as during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
E	Bidder:	Carr Concrete Corp. Signed: Robert Bun Stanley	
Date: 9-9-12 Title: Project Manager			
*	Check a	ny combination of preference consideration(s) indicated above, which you are entitled to receive.	

RFQ No. 04 120658

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.



Please use this document for technical questions, posing in a question format

Please refer to the section your question is in reference to.	
Technical questions for RFQ#	
Vendor Name:	÷.
Questions:	
	¥
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