

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

# Request for REQUIMBER

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04120658

ADDRESS CORRESPONDENCE TO ATTENTION OF

ALAN CUMMINGS 304-558-2402

DIVISION OF HIGHWAYS JOBSITE SEE SPECIFICATIONS

RFQ COPY TYPE NAME/ADDRESS HERE \*709042451 304-425.8955 EASTERN VAULT CO., INC. PO BOX 1134 PRINCETON, WV 24740

DATE PRINT	ĖD	TER		Ë	SHIP V		F,O.B,		FREIGHT TERMS
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GENERAL MANAGER FEIN 55-0520255 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.
- 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).



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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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PRINCETON WV 24740

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VENDOR

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

304-425-8955

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REQ NUMBER 04120658

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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:

- 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

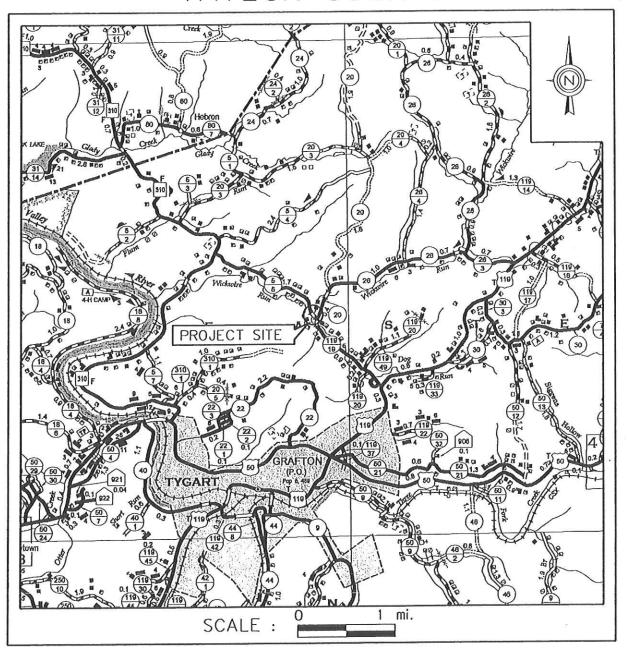
4.1 A Purchase Order will be awarded complete and not split to the lowest acceptable bidder.

# 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.	35,00	31,185.00
2	297	SF - Exterior Beams; 21"D X 36"W Prestressed Concrete Box Beams. 2 Beams @ 49'6" Long.	50.00	14850.00
3	16	EA - Additional cost of Skewing one beam end 5° RFS	200.00	3,200.00
4	14	EA – Elastomeric Laminated Bearing Pads B1 Pad 1 13/16" T X 4 ¾" W x 2'4" L (60 Duro)	200.00	2,800.00
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)	200.00	800.00
6	16	EA – #8 Rebar Anchor Rods X 2'0" long Galvanized	20.00	320.00
7	61	LF - 2" Thick Sponge Rubber Preformed Joint Filler 6" wide	20.00	1,220.00
8	50	LF 1" Thick Sponge Rubber Preformed Joint Filler 21" wide	20.00	1,000.00
9	28	EA – Sponge Rubber Washers 8" X 8" X 1" thick	20.00	540.00
10	16	EA – Guardrail Attachment Assembly Type TL-2 Includes inserts, studs, nuts and washers. Galvanized	300,00	4,800.00
11	110	LF – 8"x 4" x 3/16" tubing for TL-2 Guardrail System. Includes blocks for posts, and splices. Galvanized	100.00	1,1000.00
12	110	LF – Galvanized W-Beam Guardrail with bolts and nuts.	20.00	2,200.00
13	110	LF – 1" dia. Post-Tensioning Thread Bars with nuts. 4 @ 27'6"	20.00	2,200.00
14	8	EA – Bearing Plates 9" X 9" x 1" Galvanized	50.00	400.00
			TOTAL	76,535.00

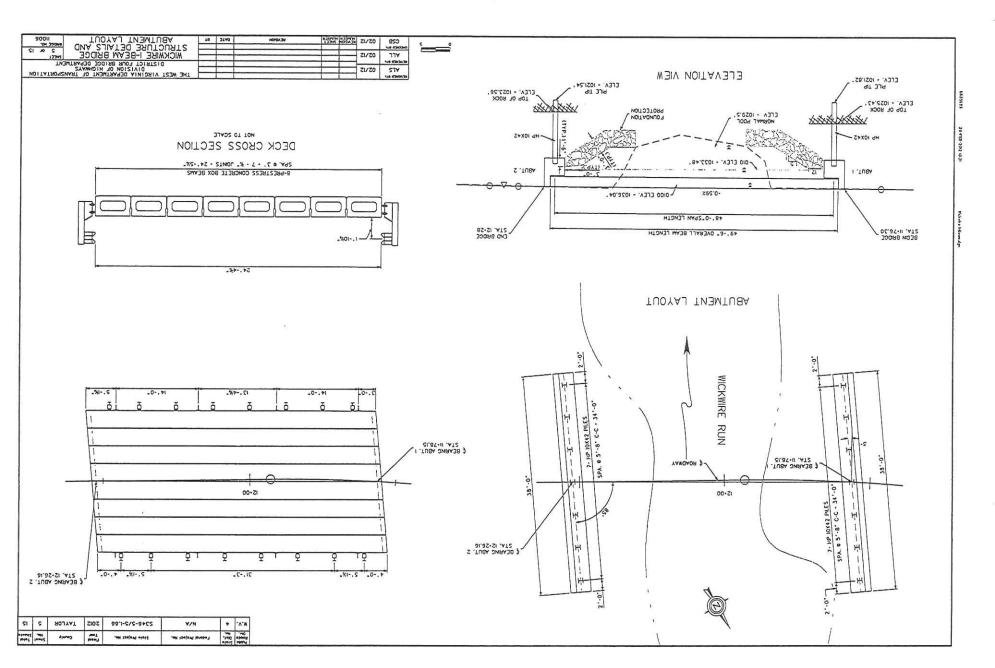
# LOCATION MAP WICKWIRE I-BEAM BRIDGE STATE PROJECT NO. S346-5/5-1.66 FEDERAL PROJECT NO. N/A TAYLOR COUNTY

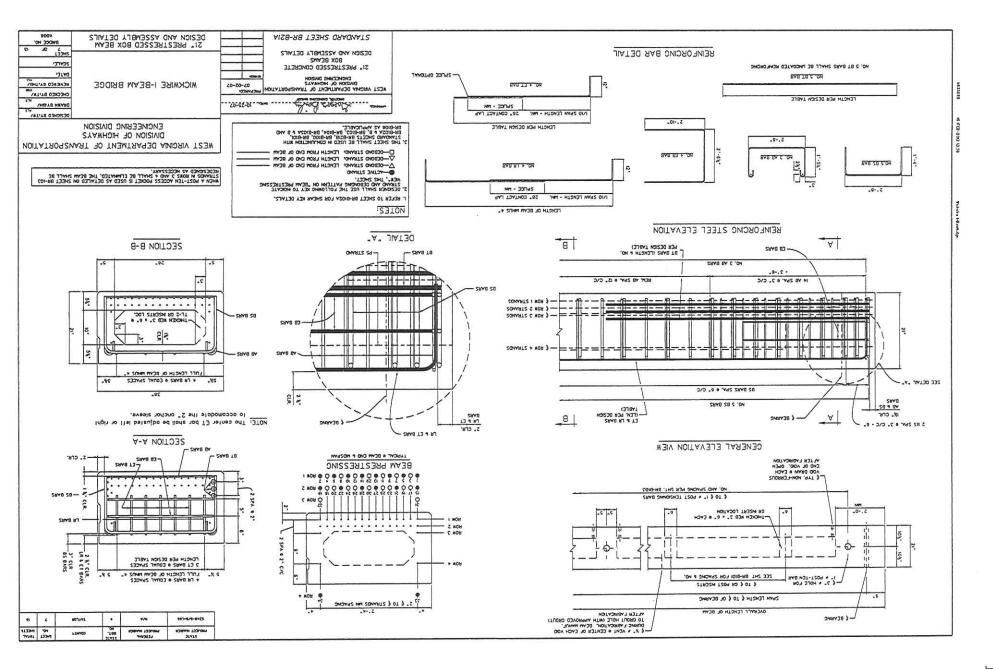


WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

OISTRICT FOUR BRIDGE DEPARTMENT







			DESIGN DATA FOR 21" DEPTH ADJACENT BOX BEAM	
SPAN LENGTH ( TO C	BEARING		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
OVERALL LENGTH OF E	DEAM		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
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NSERTS SEE NOTE 6	¢ OF 1st INSERT TO ¢ 2nd INSER EA. END		2 - 1/4.	
WEIGHT OF TYPICAL BE	EAM INCLUDING		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	

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

5346+5/5-1,06

SHEET TOTAL

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4.0ESIGNER, FABRICATOR, AND ERECTOR SHALL BE AVARE THAT SIGNED END BEAUS MAY THIST OR WARP, CAUSING UNIVERSIDED TO CORRECT AT THE CAUSING UNIVERSIDED TO CORRECT AT THE CONTROL TO THE BEAUS ARE SCIURCED IN PLACE. INCHING OF CORRECTION, BEFORE THE BEAUS ARE SCIURCED IN PLACE. INCHING CORRECTION SHALL PROVIDE AN EVEN, TOTAL BEAMRICA MOTEY THE CONTRACTOR AND EXCHANGE, AND TRE CORRECTION SHALL NOTEY THE CONTRACTOR AND EXCHANGE F CORRECTIONS AND EXDURED PRIOR TO SHAMCAY.

NOTES

1. BEAM MEICHTS LISTED IN THE DESIGN TABLE ARE BASED ON ZERO SKEM, 2 FT. LONG ENDBLOCK AND DAPHRACIUS SPACED O 15 FT C/C. MEICHTS FOR SKEMED BEAMS, LONGER ENDBLOCK AND ADDITIONAL DAPHRACIUS SHOULD BE ADJUSTED ACCORDINGLY.

S. MAXMUM BEAM SKEW SHALL BE 30 DECREES. 6. DESIGNER NIPUT VALUES OF NUMBER OF INSERTS, DISTANCE FROM END OF BEAM TO \$ FIRST INSERT, AND \$ FIRST INSERT TO \$ SECOND INSERT, ABOVE VALUES SHALL BE BASED ON THE REQUIRED 6"-3" CHARDRAIL POST SPACING ACROSS THE BROCE.

7. THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-021A, BR-0100, BR-0101, BR-0102A & B, BR-0103A, BR-0105A & B AND BR-0106 AS APPLICABLE.

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	Websell .					
2 2 . 6	_ 10-2	5-07				
			WICKWIRE I-BEAM BRIDGE			
CST YEROMA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHEAYS	07-0	2-07	MORNING TODAM OTHER	DATE-		
ENCHCERNIC DIVISION	Nat.			SCALC		
DESIGN TABLE FOR 21"	97 <i>n</i> 0 TP			SHEET NO B OF 15		
17.30 St. (10.00 St. (10.00 St.)			DESIGN TABLE FOR 21"	BROLC HARICA		
MESTRESSED BOX BEAM	_	-		11006		
STANDARD SHEET BR-B218	_	-	PRESTRESSED BOX BEAM			

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS ENGINEERING DIVISION

3.F BEAM DOES NOT MEET ALL TOLERANCES REFER TO MP 603.10.40 FOR GUDANCE. MEASUREMENT OF CAMER FOR COMPARISON TO PREDICTED DESIGN VALUES SHOULD BE COMPLETED WITHIN 72 HOURS OF RELEASE. ADDITIONALLY, CAMER SHOULD BE EVALUATED UNDER CONDITIONS THAT MEMBLE THE EFFECT OF TEMPERATURE VARIATION.

2.DESONERS SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON EVEN SPAIL LENGTHS, A THO LANE STRUCTURE B BEARS BOLD AND ZERO SIGH. SUPERMOSED OFAD LOADS NACLUDE TYPE F PARAPET LISZI PLY) AND A FES OF DEST. FOR NON-STANDARD BRODES DATA SHOULD BE VERRED AND F EQUIVED ME DESIGN DATA ENTERED INTO BLANK COLUMNS. IN NO CASE SHALL THE STANDARD DESIGN TABLE BE ALTERED.

FOR ADDITIONAL DIAPHRAGINS, ADD 226 LBS/DIAPHRAGIL

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

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

# LAP SPLCE TABLE BAR SIZE NO. 3 NO. 4 NO. 5 NO. 6 SPLCE LEN. 21 22 34 4 41

2003

GOVERNING SPECIFICATIONS

TO MEET THE FOLLOWING CRITERIA.

DESIGN NOTES

I. DESIGN LOADS

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS

STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, ADDITED 200 AS AMENDED BY THE CURRENT SUPPLEMENTAL SPECIFICATIONS. THE CONTRACT PLANS AND CONTRACT SPECIAL PROVISIONS ARE THE COVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

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

HL-93 LIVE LOAD IN ACCORDANCE WITH THE MASHTO LIFT BROCE DESIGN SPECE CATIONS.

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

2. THO LANE BRIDGE WITH AN OVERALL WIDTH OF 24"-5" (NCL.X" GAP BETWEEN ADJ. BEAMS), A CURB-TO-CURB WIDTH OF 22"-1", TRANSVERSE POST-TENSIONING,

MANAUM CONCRETE STRENGTH & STRAND RELEASE ---- 5500 PSI

MANUM CONCRETE STRENGTH . 28 DAYS \_\_\_\_\_ \_ \_ \_ \_ \_ \_ 8000 PSI

COMPRESSION STRESS LIMT & STRAND RELEASE ---- - 3300 PSI

8 FNAL 2 (PS-0L) \_\_\_\_\_ 3600 PSI

9 FNAL 3 (50X(PS-DL)-LL) - - - - - - - - - - 3200 PSI

TENDON STRESS LIMIT PROR TO TRANSFER: ----- 202.5 KSI

ALL STANDARD ADJACENT PRESTRESSED CONCRETE BROCE BEAMS ARE DESIGNED

TEMPORARY STRESS LIMITS IN CONCRETE BEFORE LOSSES.

COMPRESSIVE STRESS LIMTS IN CONCRETE & SERVICE I AFTER LOSSES.

4. DEBONDING OR SHELDING OF STRANDS TO REDUCE TEMPORARY TENSILE STRESSES

5. THE ELASTOMERIC BEARING PADS PROVIDED IN THE STANDARD DESIGNS ARE BASED

7. WHEN ALTERNATE DESIGNS OR SITE SPECIFIC DESIGNS ARE PROVIDED, CRITERIA

ON ZERO CRADE AND ARE LIMTED TO A MAXMUM OF 5X CRADE. IN INSTANCES OF

GRADES EXCEEDING THIS LIMT, PADS SHALL BE SPECIFICALLY DESIGNED. NOWOUAL

PAD DESIGNS SHALL BE IN ACCORDANCE WITH SECTION 14, AASHTO LIFD. BEVELED

9. EACH BEAM PROVIDED IN THESE STANDARD DESIGNS HAS BEEN LOAD RATED IN ACCORDANCE

ADDITIONALLY, LOAD RATING PROCEDURES ARE IN ACCORDANCE WITH THE MASHTO MANUAL

WITH SECTION 3.15 OF THE WEST VIRGINA DIVISION OF HIGHWAYS BRIDGE DESIGN MANUAL, 2004.

FOR CONDITION EVALUATION AND LOAD AND RESISTANCE FACTOR RATING OF HIGHWAY BROGES,

IS PERMITTED, HOWEVER DEBONDING IS LIMITED TO 40X PER ROW AND 25X TOTAL.

N NO INSTANCES SHALL OUTER STRANDS BE DEBONDED. DEBONDED STRANDS SHALL

BE SEPARATED BY AT LEAST ONE FULLY BONDED STRAND AND SHALL BE SYMMETRICAL

SHELDING OF STRANDS SHALL BE ACCOMPLISHED BY TAPING OR TICHT FITTING PLASTIC

TENSILE STRESS LIMT IN CONCRETE & SERVICE II AFTER LOSSES!

e FNAL 1 (PS-OL-LL) ------

FUTURE WEARING SURFACE OF 50 PSF OF ROADWAY.

TYPE F PARAPET WEIGHNG 321 PLF.

3. DESIGN STRENGTH AND UNIT STRESSES:

ABOUT THE & OF THE BEAM.

TUBES TAPED AT EACH END.

SOLE PLATES ARE PERMITTED.

6. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.

SET FORTH IN THESE STANDARDS SHALL APPLY.

B. NEGATIVE DESIGN CAMBER AFTER ALL LOSSES IS NOT PERMITTED.

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS. BR-BIZA & B. THRU.
BR-B42A & B. BR-BIOI, BR-BIO2A & B. BR-BIO3, BR-BIO3, BR-BIO3A & B. AND BR-BIO6 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 MLD REMFORENG STEEL SHALL BE GRADE 60, DEFORMED BILLET STEEL AND SHALL BE EPOXY COATED EXCEPT WHER NOTED. ALL UNCOATED REMFORENGE SHALL MCET THE REQUIREMENTS OF ASSITTO MSI. ALL EPOXY COATED REMFORENG SHALL MCET THE REQUIREMENTS OF ASSITTO MSI. ALL EPOXY COATED REMFORENG SHALL MCET THE REQUIREMENTS OF ASSITTO MSI. SECTED TWHERE MAKINGED BY SECTION 709.10 FTMS STANDAGO SPECIFICATION SECTION 709.10 FTMS STANDAGO SPECIFICATION.
- ALL TENSION LAP SPLICES SHALL BE A CLASS B, CONTACT TYPE, LIMBAUM 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 THAM IND OF THE SPAN LENGTH.
- \* MINIMUM BAR BENONG DIAMETER SHALL BE 6 BAR DIAMETERS, EXCEPT THAT NO. 3 AB BARS MAY HAVE A MINIMUM BENO DIAMETER OF 4 BAR DIAMETERS.
- MINIMUM CONCRETE COVER SHALL BE AS SPECEED IN SECTION 603.5 OF THE STANDARD SPECEFICATIONS, EXCEPT WHERE NOTED ON THE PLANS.

#### PRESTRESSING STRAND

- ALL PRESTRESSING STEEL SHALL BE ¾" ≠, GRADE 270, 7 WIRE UNCOATED, LOW-RELAXATION STRAND MEETING THE REQUIREMENTS OF AASHTO M203, SUPPLEMENT SI.
- ALL BEARS DESIGNED IN THESE STANDARDS UTILIZE STRANDS WITH A NOWNAL AREA OF 0.167 SO. N.
  STRANDS WITH A NOWALL AREA OF 0.135 SO. N. IS PERRATTED FOR NOVOUAL OR ALTERNATE DESIGNS,
  HOWEVER THE DESIGNER IS ENCOURACED TO USE THE LARGER STRAND FOR UNFORMTY REASONS. N
  NO CASES WILL STRESS-RELEVED STRAND BE PERMITTED.
- \*ALL STRANDS SHALL BE ENCLOSED INSIDE THE STRRUP CAGE FOR THE FULL LENGTH OF THE BEAM.
- ALL EXPOSED PRESTRESSING STRAND AT EACH BEAM END SHALL BE SHOP COATED
  WITH A LIDURO COLO-APPLED BITUMHOUS CLASTOWERS WATERPROOFING MEMBRANE.
  MATERIAL SHALL MEET ASTM CO30-04.

#### CONCRETE

4800 951

- 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 MANUAL VALUES SET FORTH IN THESE PLANS.
- ALL CONCRETE USED IN PARAPETS AND CURBS SHALL BE CLASS K CONCRETE.

## ELASTOMERIC BEARING PADS:

- ALL BEARNG PADS SHALL MEET THE APPLICABLE REQUIREMENTS AS SET FORTH N SECTION 18.2 OF THE AASHTO LINED BROCK CONSTRUCTION SPECIFICATIONS, 2010 EDITION WITH CURRENT INTERMS. ALL BEARNGS SHALL BE STEEL REINFORCED LAMBATED BEARNES.
- THE ELASTOWER MATERIAL SHALL BE 60 DUROWETERS WITH A MINMUM LOW TEMPERATURE GRADE OF 3 (ZONE C).
- -ALL STEEL RENFORCING SHALL MEET THE REQUIREMENTS OF AASHTO M270, GRADE 36.

## CUARDRAL CUARDRAIL POSTS, TUBING & INSERTS:

- ALL W-BEAM GUARDRAIL AND ATTACHMENT MARDYARE SHALL BE N ACCORDANCE WITH SECTION 1214 OF THE STRANGES SPECIFICATION. GUARDRAIC POSTS, STRUCTURAL TUBING, POST ATTACHMENT MSCRETS, AND MARDWARE SHALL MECT THE LISTED MATERIAL AND COATNO SPECIFICATIONS.

ITEM	DESCRIPTION	MATERIAL SPEC.	COATING SPEC
POST	W6×25	AASHTO M270, CR 36	AASHTO MIII
PLATE	%" x 7"	AASHTO M270, CR 36	AASHTO MIII
TUBNC	TS 8×4×3/16	ASTM ASOO, CR B	AASHTO MIT
CHANNEL	C7x9.8	AASHTO M270, CR 36	AASHTO MIT
FERRULE TYPE 2A	1%" # * 2%" MN LEN.	ASTM AIDS IIILIT STEEL)	AASHTO M232
WIRE ANCHOR	** *	ASTM ASIO (1018 STEEL)	AASHTO M232
STUDS	1%" # x 8" LONG	ASTM AIDS (1045 C.D. STEEL)	AASHTO M232
MUTS	13," *	AASHTO M291, CLASS C	AASHTO MQ32
COUPLERS TYPE IA	1%" # x 5" LONG	ASTM AIDS (12LI4 STEEL)	AASHTO M232
BOLTS JANCHOR	14" # x 12" LONG	AASHTO MIGA (TYPE 1, HH)	AASHTO M232
BOLTS	%" # . ALL LEN.	AASHTO MIGA (TYPE 1, HH)	AASHTO M232
MUTS	X	AASHTO M291, CLASS C	AASHTO M232
WASHERS	ALL	AASHTO M293	AASHTO MEJE

## MELDING

- TACK YELDING OF REMFORCEMENT IS NOT PERMITTED. REMFORCING CAGES AND LONGITUDINAL STEEL SHALL BE ADEQUATELY TIED WITH APPROVED MEANS TO PREVENT RACINGLAND MISALIDAMENT.
- ALL WELDING OF FABRICATED ITENS, AS SHOWN IN THESE PLANS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF AASHTO/AWS 01.5, 2002.

#### POST-TENSIONING BARS:

POST - TENSONNE THREAD DARS SHALL BE ONE NON DIAMETER, 150 KSI STEEL, AND SHALL COMFORN TO AASHTO M273, TYPE I, STEEL THREAD BARS SHALL DE DESIGNED TO ALLOW THE USE OF HEAVY HEX NOTS AND COUPLERS THAT THREAD ONTO THE END OF THE DEFORMATIONS, NEAVY HEX NOTS AND COUPLERS SHALL BE OF A DESIGN AND MATERIAL RECOMMENDED BY THE BAR MANAFEATURER TO DEVELOP THE FULL TENSIEL STRENGTH OF THE BAR. PROPERLY DOCUMENTED CERTIFED MILL TEST REPORTS SHALL BC PROVOCO FOR EACH HEAT OF STEEL THREAD BARS.

1346-5/3-166

- ALL POST-TENSONNE THREAD BARS, MITS, DEARNO PLATES, COUPLERS, AND ANCILLARY
  HARDMARE SHALL BE HOT-OPPED GALVANZED IN ACCORDANCE MITH ABSTOMINE THE
  CALVANZED PLANT SHALL ADMISTER ADGULATE QUALITY CONTROL MEASURES TO
  SAFEGUARD AGAINST HYDROCEN EMBRITLEMENT QUALITY CONTROL MEASURES SHALL
  COMPLY MITH ASTM A-HAS. DERTECATION FOR HOT-OP GALVANZING 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'S FOR A POURABLE CROUT APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST DATA MILL ATTAIN A MANUAU OF 4500 PSI COMPRESSIVE STRENGTH IN 3 DAYS UNDER COMPTIONS REPRESENTATIVE OF THE COMPTIONS TO BE EXPERENCED AT THE SITE. THE CROUT MISST BE LISTED ON THE APPROVED UST OF GROUTS PRUBLISHED OF THE WEST WIRGING DIVISION OF INCHMAYS, 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 BRODE PROJECT MANAGER FOR APPROVAL PROR TO INSTALLATION OF THE GROUT IN THE STRUCTURE. THE TESTS MILL BE DASED ON A POURABLE CONSISTENCY WITH THE SAME MATER/GROUT MATURE RATO TO BE USED IN THE STRUCTURE.
- THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR EACH PROJECT. THE GROUT PRE-TEST RESULTS OBTAINED IN THE MOTE ABOVE. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM A ME! PRE-TEST AND SUBMISSION FOR APPROVAL UNDER ANY OF THE FOLLOWING CONDITIONS:
- . A PERIOD OF 18 MONTHS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING.
- . CROUT MANUFACTURER HAS REVISED OR CHANGED THE GROUT SPECFICATIONS.
- . 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-BIOD.
- TEST PROCEDURE FOR DETERMING THE COMPRESSIVE STRENGTH OF GROUT SHALL USE CUBE SPECIMENS IN ACCORDANCE WITH ASTIM CIDY, AS MODIFIED BY ASTIM CIDY. GROUT TESTING IN ACCORDANCE WITH ASSITT TEST (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 REST VIRGINAL OWNSON OF MICHAYS, MATERIALS CONTROL, SOIL AND TESTING DIVISION. COVERAGE SHALL INCLUDE TOP AND BOTTOM OF INTEROR BEAMS, AND TOP, BOTTOM AND CXTEROR SOC OF EXTERNE BEAM. APPLICATION RATE SHALL BE PER TREATMENT MANUFACTURER'S RECOMMENDATION.
- AFTER COMPLETION OF THE SILANE TREATMENT BY FABRICATOR AND A MAXIAUM OF FIVE YORKING
  DAYS PROBE TO SHEMLENT OF THE BEAUS, THE FABRICATOR SHALL BE RESPONSIBLE FOR ABRASIVE
  BLAST CLEANING TO CLEAN HISTED CONCRETE THE INTEROR SIDES OF BEAUS FOR THE FULL LENGTH.
  CLEAN HINTE CONCRETE SHALL MEAN REMOVAL OF ALL DRT, CREASE, OIL AND LOOSE CONCRETE
  LAITANCE AND PROVIDE A ROUGHENED CONCRETE SURFACE. BLASTING MEDIUM SHALL BE APPROVED
  BY THE OMISSION OF HISTHAYS.

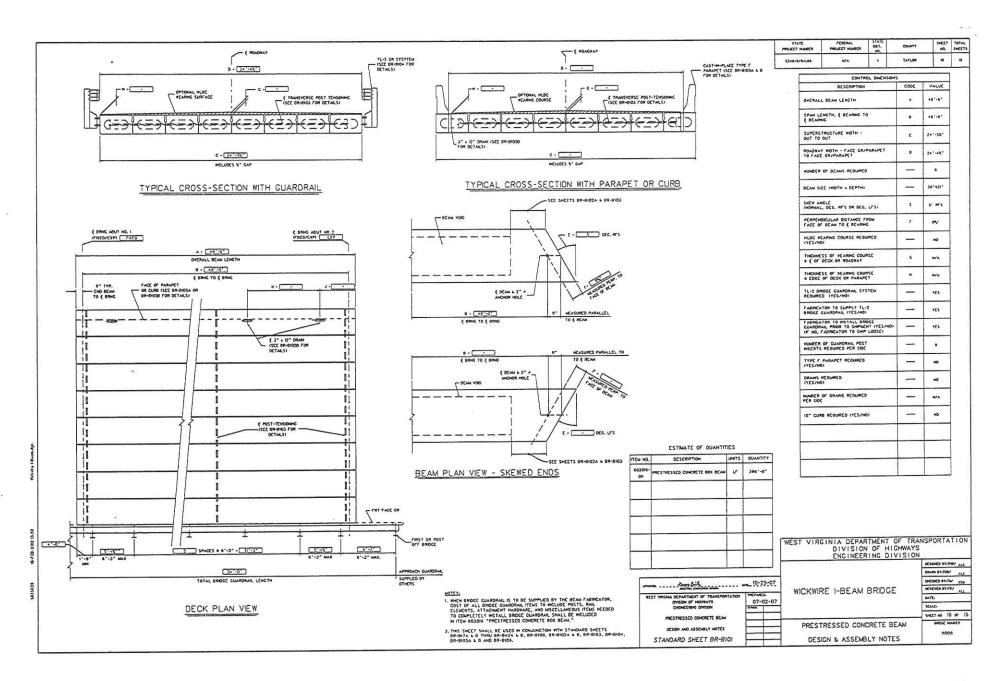
## SHOP DRAWNGS

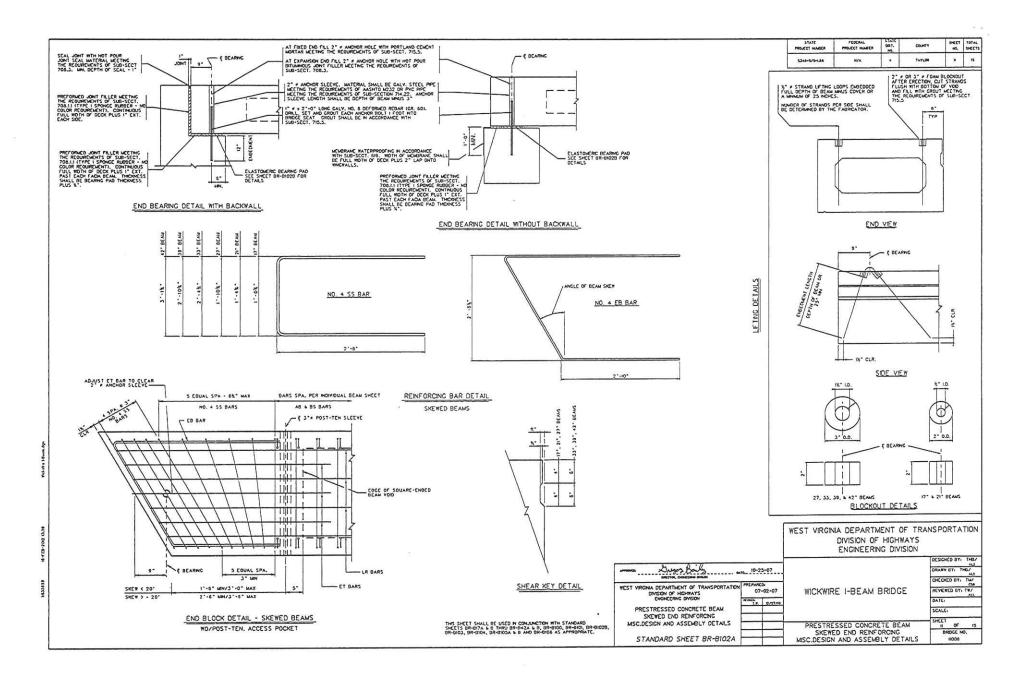
THE FABRICATOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWNGS IN ACCORDANCE.
WITH THE WEST VIRGINA DIVISION OF HIGHHAY'S DOCUMENTS, DO-102 AND THE STAMDARD
SPECEFCATION, ADDITIONAL INFORMATION IS PROVIDED IN SECTION 7 OF THE BROGE DESIGN MANUAL,
SHOP DRAWNGS SHALL INCLUDE THE FABRICATOR'S DETENSIONNE PLAN.

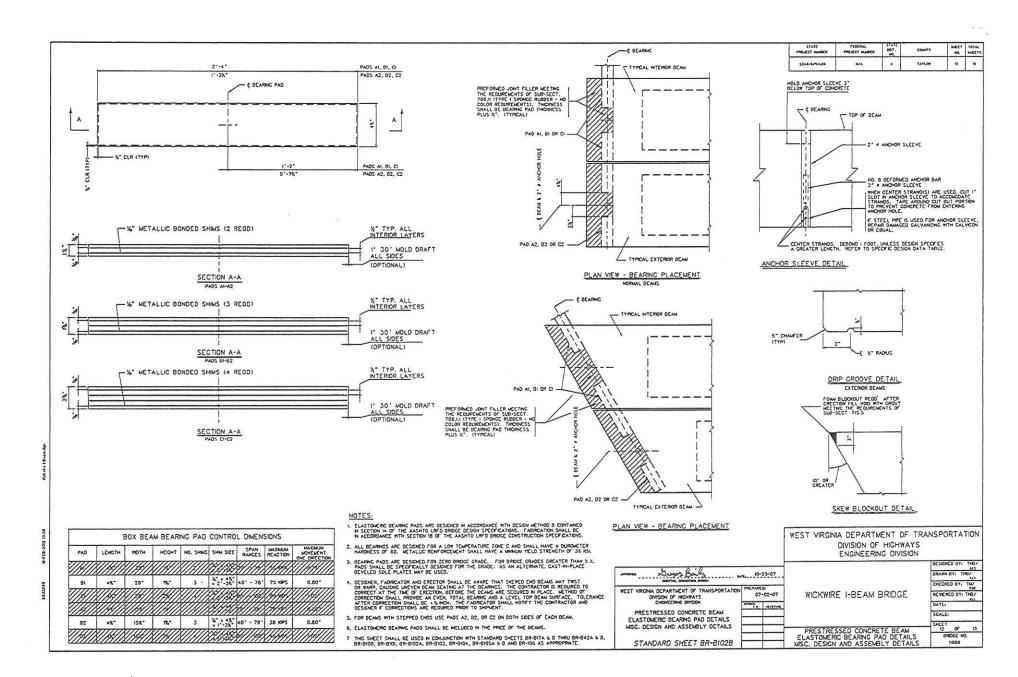
			WEST VIRGINIA DEPARTMENT OF TR DIVISION OF HIGHWAY ENGINEERING DIVISIO	S
Down Billy	n-25	-07	WICKWIRE I-BEAM BRIDGE	DESCREO SY, THEY ALS  DRAWN SY, THEY ALS  DREDGED SY, TMY  CSB  REVERED SY, TMY
WEST VINGINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHRAYS ENGINEERING DIVISION	07-02-07		WICKWIRE I-BEAM BRIDGE	DATES SCALES
PRESTRESSED CONCRETE BEAM	00/10	TE		SHEET NO 9 OF 15
STANDARD SHEET BR-BIOD			PRESTRESSED CONCRETE BEAM DESIGN & ASSEMBLY NOTES	BROSE MARCH 11008

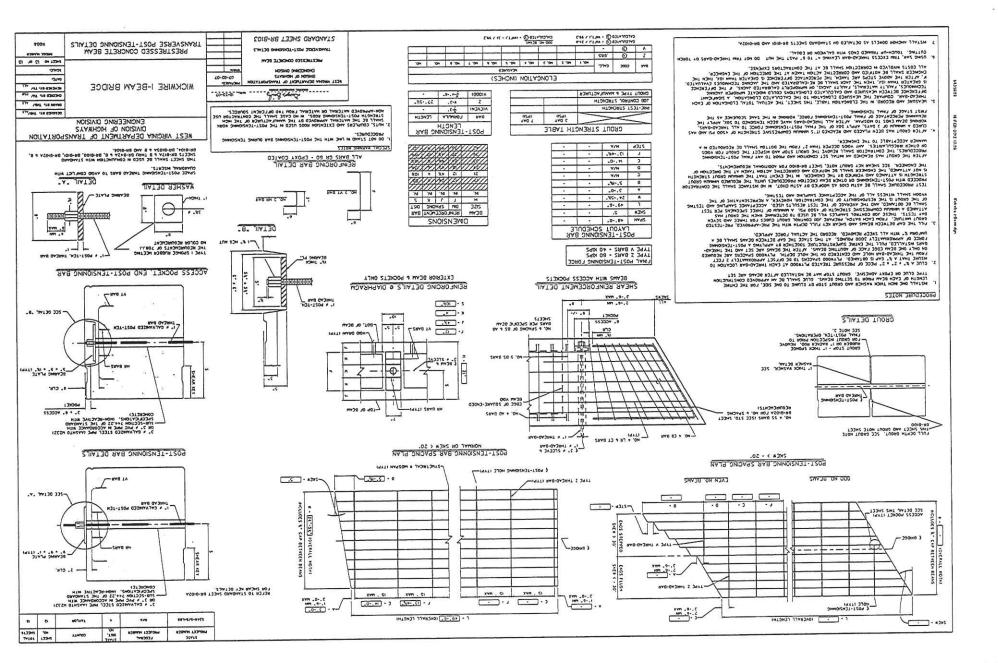
NO. SHEETS

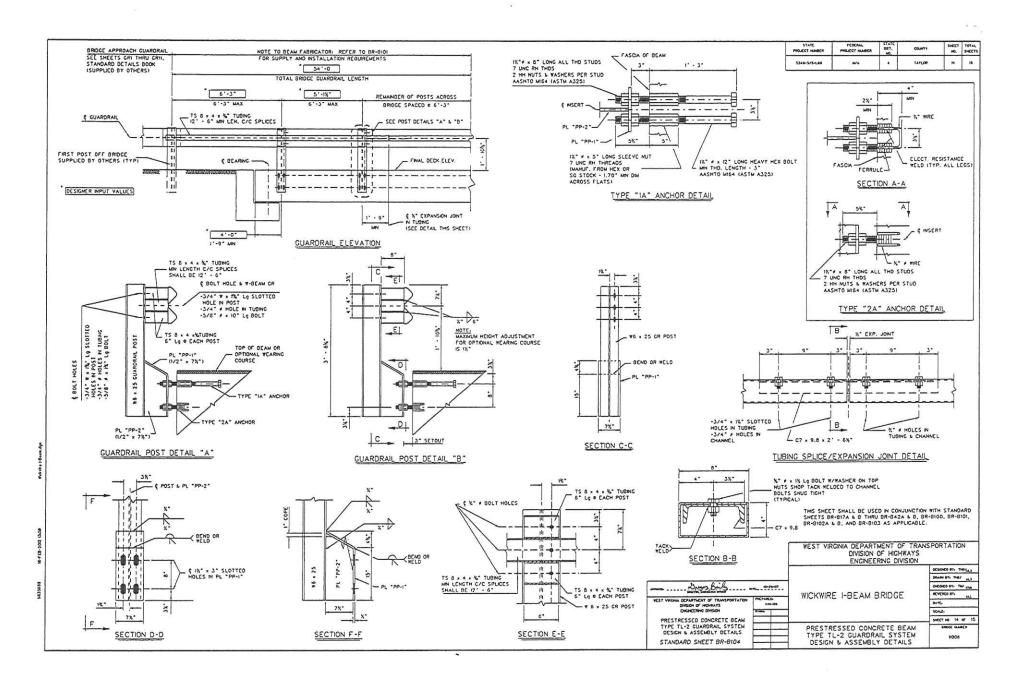
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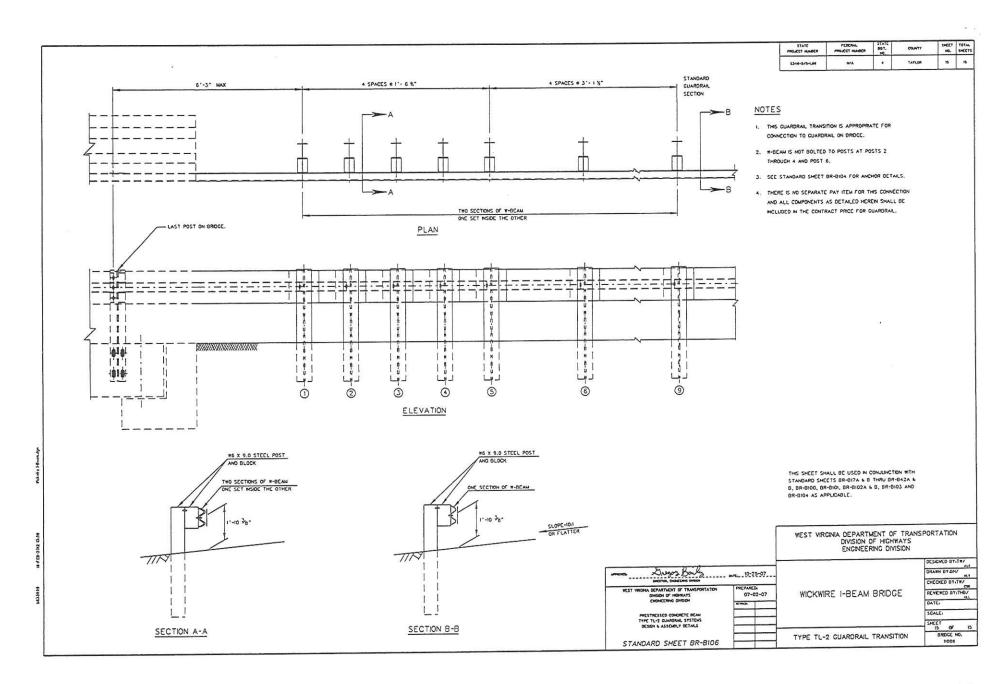












# State of West Virginia

# **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.
require against	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the 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 acted from any unpaid balance on the contract or purchase order.
authorize the required deeme	mission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and zes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid uired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information d by the Tax Commissioner to be confidential.
and ac	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 es during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
Bidder	F
Date:	4-7-2012 Title: GENERAL MANAGER

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

# 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: EASTERN VAULT Co., INC.
Authorized Signature: BRIAN P. STRUBLE Date: 4-7-12
State of West Virginia
County of Mercer, to-wit:
Taken, subscribed, and sworn to before me this 7 day of April , 2012.
My Commission expires Ot 18 , 2015.
AFFIX SEAL HERE NOTARY PUBLIC. Frames J. Mc Kinning
OFFICIAL SEAL OF
NOTARY PUBLIC STATE OF WEST VIRGINIA STATE OF

FRANCES J. MCKINNEY
RT. 2 BOX 347
PRINCETON, WW 24740
My commission expires October 18, 2015

Please use this document for technical questio format	ns, posing in a question
Please refer to the section your question is in reference to.	
Technical questions for RFQ#	
Vendor Name:	
Questions:	