

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

Request for

02120383

ADDRESS CORRESPONDENCE TO ATTENTION OF

ALAN CUMMINGS 304-558-2402

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

WAVERLY WV 26184-0265 DIVISION OF HIGHWAYS JOBSITE SEE SPECIFICATIONS

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FREIGHT TERMS DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. 03/26/2012 BID OPENING DATE: 04/11/2012 BID OPENING TIME 01:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT 0001 210-16 PRESTESSED BOX BEAMS THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH PRESTRESSED CONCRETE BEAMS WITH ACCESSORIES PER THE ATTACHED SPECIFICATIONS. 374 LINEAR FOOT - 36"X17" PRESTRESSED BOX BEAMS LENGTH: 41'-6" (OUT TO OUT) |WIDTH: 27'-6|" (OU|T TO |OUT, INCLUDE 3/4|" BETWEEN BEAMS) SKEW: 20 DEGREE RFS DESIGN TO BE IN ACCORDANCE WITH SECTION 603 OF THE CURRENT WVDOH STANDARDS AND SPECIFICATIONS. BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER. CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN. EXHIBIT 10 2012 AFR 10 AM 11: 45 REQUISITION NO.: SEE REVERSE SIDE FOR TERMS AND CONDITIONS bery Buri Stanle ADDRESS CHANGES TO BE NOTED ABOVE

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

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

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- **4.** All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
- 5. Payment may only be made after the delivery and acceptance of goods or services.
- 6. Interest may be paid for late payment in accordance with the West Virginia Code.
- 7. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
- 11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 12. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
- 13. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.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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304-464-4441 CARR CONCRETE CORPORATION

DIVISION OF HIGHWAYS JOBSITE SEE SPECIFICATIONS

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

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Department of Administration
Purchasing Division
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Specifications One Time Purchase

Purpose: To provide the West Virginia Division of Highways with prestressed concrete beams (designed for a deck) with accessories to be used on Project # S323-14-2.67, Slab Fork 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 State.

2.0 SCOPE OF WORK

The successful Vendor shall provide 36" wide x 17" deep prestressed concrete beams (designed for a deck) with accessories.

2.1 Technical Requirements:

All prestressed concrete beams (designed for a deck) with accessories provided shall be in accordance with West Virginia Division of Highways Standard Specifications Roads and Bridges, adopted 2010 and the current Supplemental Specifications and the attached control prints.

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

- 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.
- 2.2 Delivery
 - 2.2.1 Deliveries shall be made to job site on CR 14 (Map Attached)
 2.2.2

 Vendor
 shall coordinate delivery with the District Bridge Engineer (**)

shall coordinate delivery with the District Bridge Engineer @ 304-528-5655.

2.3 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 an invoice to: West Virginia Division of Highways, District Two 801 Madison Avenue Huntington, WV 25704
- 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 the purchase order, 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 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 Division of Highways' employees and/or agents for the purpose of inspecting, sampling, testing, and removing any or all Beams.
- e. The vendor shall certify that the stored Beams are suitably marked and identified as property of the Division of highways and will not be used for any purpose not designated by the Division.

4.0 AWARD

Purchase order will be awarded complete and not split.

Cost Sheet

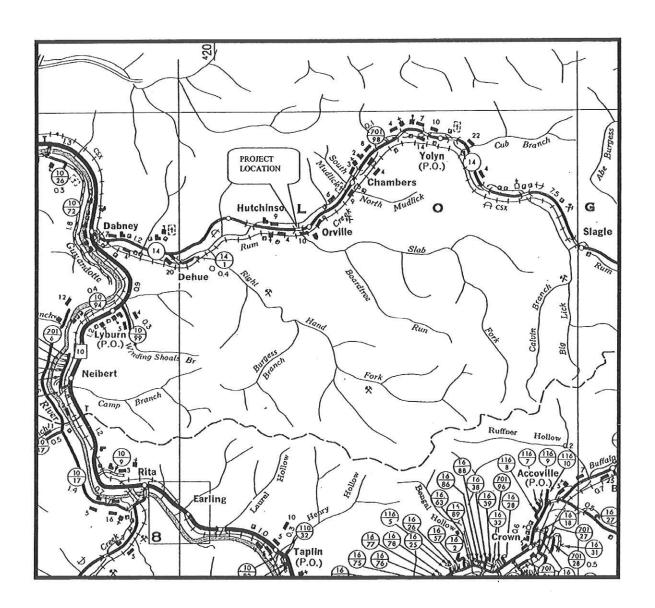
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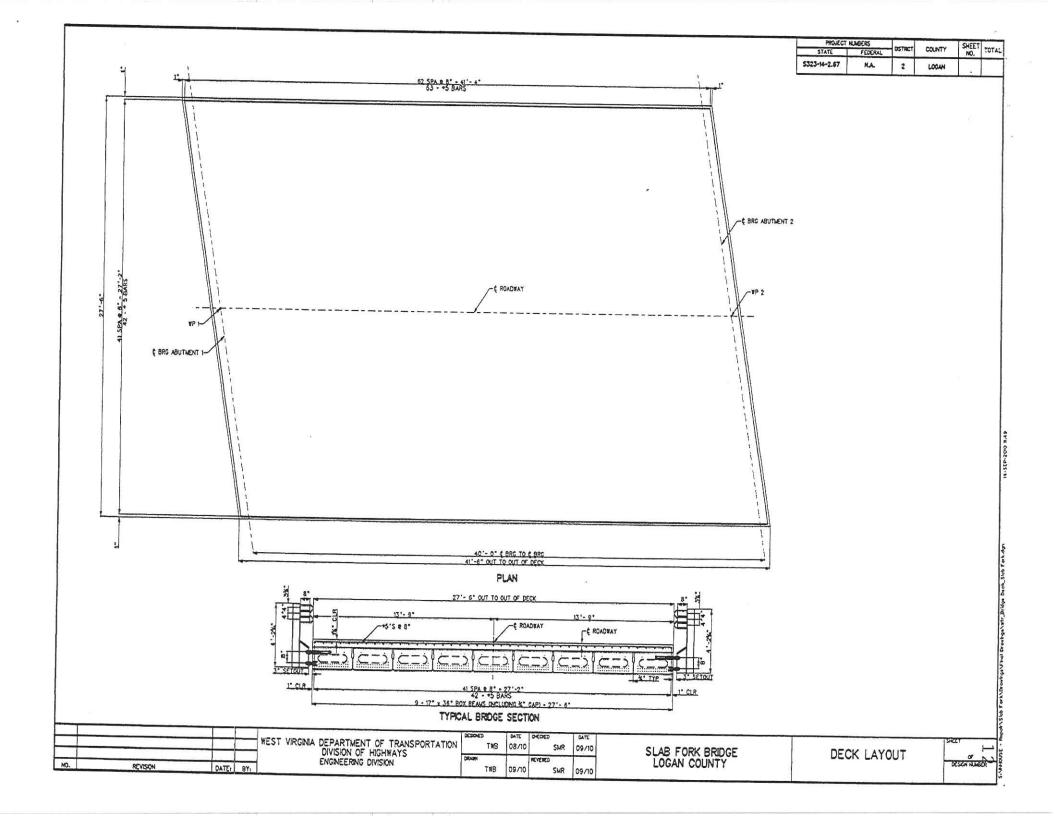
Item Number	Quantity	Unit of Measurement	Description	Unit Price	Extended Amount
1	290.5	Lineal feet	Interior Beam 17" prestressed concrete box beam (3ft. Wide) 7 beams x 41.5	133.00	38,636
2	83	Lineal feet	exterior Beam 17" prestressed concrete box beam (3ft. Wide) 2 beams x 41.5	133,6	11,039.00
3	36	Each	Elastomeric Bearing Pads	20000	7,200.60
4	18	Each	1" Diameter x 2'-0" Anchor bolt or No. 8 deformed rebar	20.00	360.00
5	18	Each	Guardrail Attachment Assembly for box beam w/ studs, nut and washers	20000	3,60000
6	5	Each	1" Diameter Post- Tensioning Bar w/nuts	60000	3,000.00
7	18	Each	Bearing Plates	100.00	1,800.00
8	1	lump sum	Thick sponge rubber Preformed joint filler	3000°	1,800.00 3,000.00
9	85	Lineal feet	Guardrail	110,00	9,350.60
				Total	77,985,50

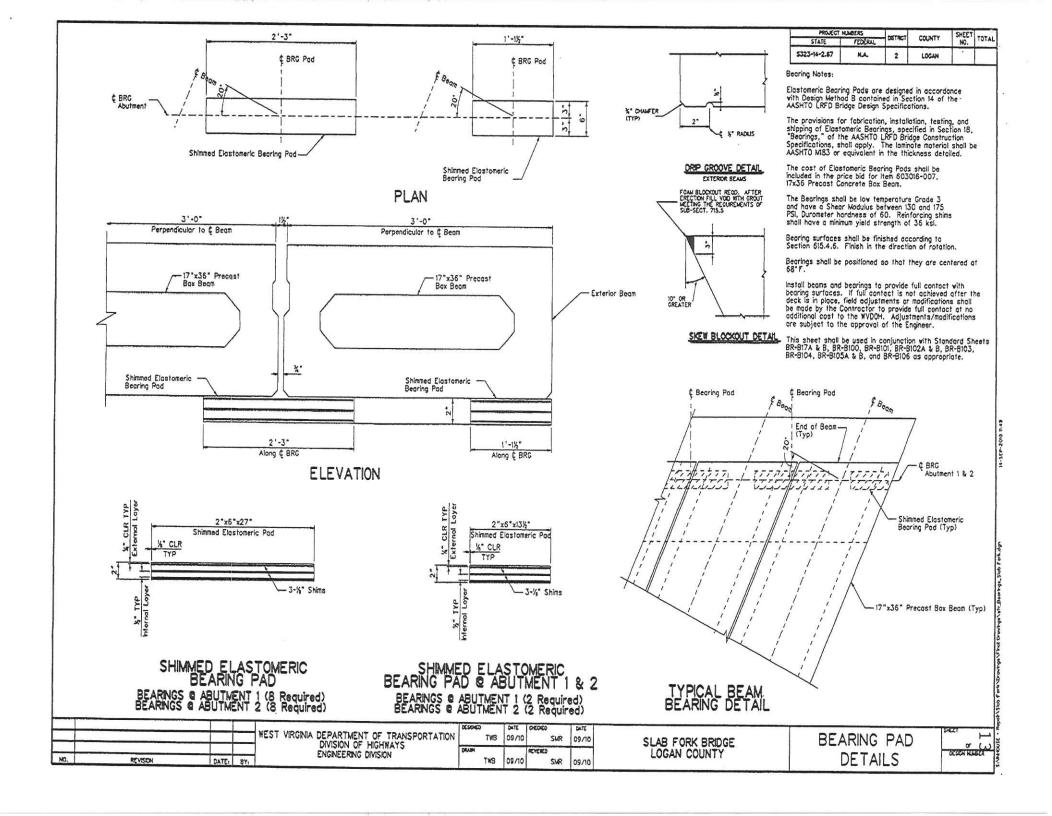
Items for Project S323-14-2.67, Slab Fork

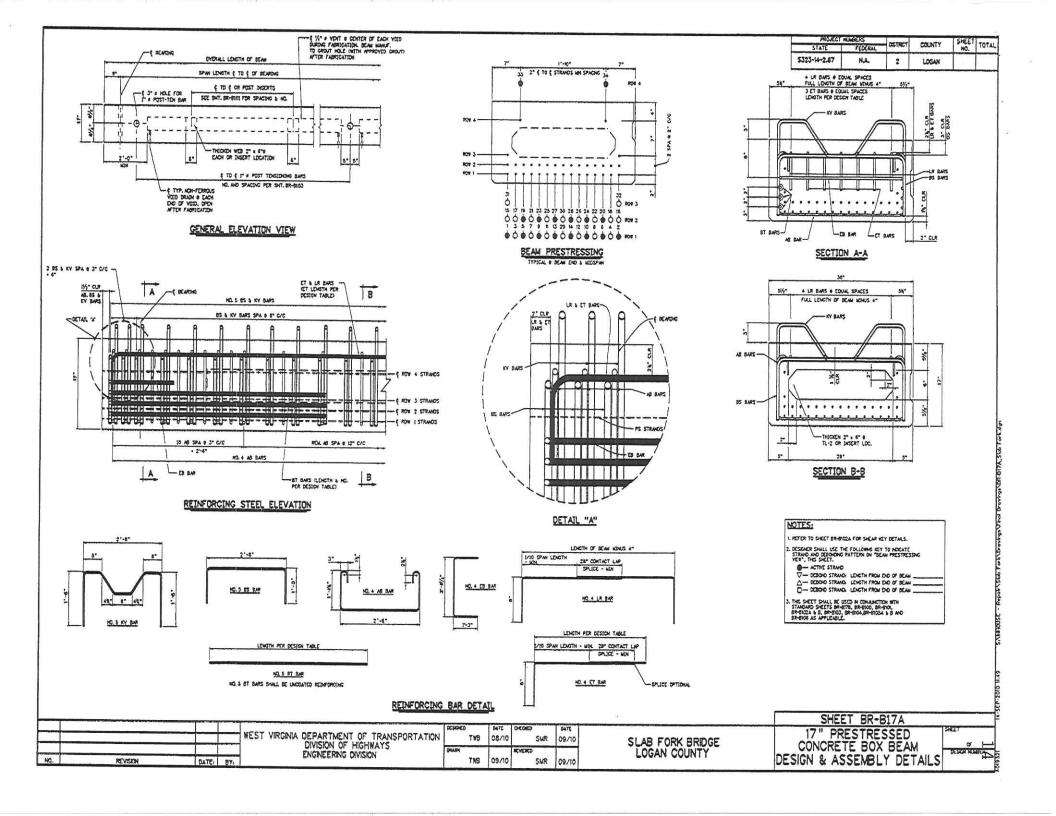
SLAB FORK CONCRETE BEAM BRIDGE

S323-14-2.67 00









DES	SIGN T	ABLE	
SPAN LENGTH & TO \$	BEARING		40'-0"
OVERALL LENGTH OF	BEAM		41'-6"
NO. OF 270 KSI, &" I STRANDS, AREA/STRA	LOW-RELATION - 0.153	CATION SQ. N.	16
		ROW 1	1,2,5,6, 9,10,13,14
		ROW 2	19.20.23, 24.27.28
STRAND POSITION NUM	BER	ROW 3	0
		ROW 4	33,34
PRESTRESSING FORCE STRAND RELEASE, Pp	Y AFTER M)	517	
EFFECTIVE PRESTRES	473		
REQUIRED FACTORED I	MOMENT -KIPS/BEAM		535
FACTORED FLEXURAL RESISTANCE, Mr (FT-K	IPS/BEAM)		919
TOTAL NO. DEBONDED	STRANOS		0
DEBONDED STRAND PO NUMBER & SHIELDING I FROM EACH END	SITION LENGTH	ROW 1	0
FROM EACH END		ROW 2	0
NUMBER & LENGTH +4 TENSION BARS @ EACH	ET TOP		3 - •4 x 6'-0"
NUMBER & LENGTH +5 TENSION BARS Q EACH	BT BOTTOM		2 - •5 x 6'-0"
DESIGN CAMBER	RELEAS		0.582
** POSITIVE (UP)	e ERECTIO	N	0.809
7101107/	R FNAL		0.543
WEIGHT OF TYPICAL BE	EAM INCLUDE	IG	10.6

NUMBERS		-	SHEET	****
FEDERAL	(25) MC-1	COUNTY	NO.	TOTAL
N.A.	2	LOGAN		
	FEDERAL	FEDERAL DISTRICT	FEDERAL DISTRICT COUNTY	FEDERAL DITRICT COUNTY NO.

NOTES

SUPER MPOSED DEAD LOADS NOLUDE TYPE TL-2 GUARDRAIL (50 PLF) AND A FWS OF 25 PSF.

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, MOL-116, MAY NOT APPLY, 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 MISMAZE THE EFFECT OF TEMPERATURE VARIATION.

DESIGNER, FABRICATOR, AND ERECTOR SHALL BE AWARE THAT SKEWED END BEAMS MAY TWIST OR WARP, CAUSING UNEVEN BEAM SEATING AT THE BEARNGS. 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 BEARNG AND A LEVEL TOP BEAM SURFACE. TOLERANCE, AFTER CORRECTION, SHALL BE (*)-) 'A NOR!. THE FABRICATOR SHALL NOTFY THE CONTRACTOR AND DESIGNER F CORRECTIONS ARE REQUIRED PROR TO SHIPMENT.

MIN. CONCRETE STRENGTH & RELEASE - 5500 PSI MIN. CONCRETE STRENGTH @ 28 DAYS - 8000 PSI - 33.82 Kips INITIAL PULL/STRAND CROSS-SECTION AREA/STRAND - 0.167 SQ. IN.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS ENGINEERING DIVISION REVISION DATE: BY

TMB 08/10 SMR 09/10 REVENED TWB 09/10 SMR 09/10

SLAB FORK BRIDGE LOGAN COUNTY

DESIGN TABLE FOR 17" PRESTRESSED BOX BEAM

SHEET BR-B17B

OF

THE WEST VIROURLA DEPARTMENT OF TRANSPORTATION, DIVISION OF KIGHWAYS STANDARD SPECIFICATIONS FOR ROUSE AND BRIDGES, ADOPTED 2000, AS AMENDED BY THE SIMPLEMENTAL SPECIFICATIONS ISSUED JANUARY 1, 2000. THE CONTRACT PLANS AND CONTRACT SPECIAL PROVISIONS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT OF THIS PROVISIONS.

ALL BEAMS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO LAFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION, DATED 2007.

DESIGN NOTES

THE ADJACENT PRESTRESSED CONCRETE BRIDGE BEAMS FOR THIS PROJECT ARE DESIGNED TO MEET THE FOLLOWING CRITERIA:

1. DESIGN LOADS

HL-83 LIVE LOAD IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

FUTURE WEARING SURFACE OF 25 PSF OF ROADWAY.

TYPE TL-2 GUARDRAIL WEIGHING 50 PLF.

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

- TWO LANE BRIDGE WITH AN OVERALL WIDTH OF 27"-0" CINCL.Y," GAP BETWEEN ADJ. BEAMS, A CURB-TO-CURB WIDTH OF 27"-6", TRANSVERSE POST-TENSIONING, A 6" CONCRETE DECK, AND 20" SMEW.
- 3. DESIGN STRENGTH AND UNIT STRESSES!

MINIMUM CONCRETE STRENGTH & STRAND RELEASE	6000	PSI
MUNIMUM CONCRETE STRENGTH . 28 DAYS	8000	PSI
TEMPORARY STRESS LIMITS IN CONCRETE BEFORE LOSSES		
COMPRESSION STRESS LIMIT & STRAND RELEASE		PSI
TENSION STRESS LIMIT & STRAND RELEASE	-200	PSI
COMPRESSIVE STRESS LIMITS IN CONCRETE & SERVICE I AFTER LOSSES!		
• FINAL 1 (PS-DL-LL) — — — — — — — — —	4800	129
4 FINAL 2 (PS-DU	3600	300 ES
# FDNAL 3 (50X0P\$-DU-LL)		1000
TENSILE STRESS LIMIT IN CONCRETE & SERVICE III AFTER LOSSES!	3200	F21
e FINAL 1 (PS-OC-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 SEPRATED BY AT LEAST ONE FULLY BONDED STRAND AND SHALL BE SYMMETRICAL ABOUT THE & OF THE BEAM. SHIELDING OF STRANDS SHALL BE ACCOMPLISHED BY TAPIMG OR TIGHT FITTING PLASTIC
- THES TAPED AT EACH END.
- 5. THE ELASTOWERIC BEARING PADS PROVIDED IN THE STANDARD DESIGNS ARE BASED ON ZERO GRADE AND ARE LIMITED TO A MAXIMUM OF SX GRADE. IN INSTANCES OF GRADES EXCEEDING THIS LIMIT, PADS SMALL BE SPECIFICALLY DESIGNED. INDIVIDUAL PAD DESIGNS SMALL BE IN ACCORDANCE WITH SECTION 14, AASHTO LIFFD. BEVELED SOLE PLATES ARE PERMITTED.
- 6. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
- 7. WHEN ALTERNATE DESIGNS OR SITE SPECIFIC DESIGNS ARE PROVIDED, CRITERIA SET FORTH IN THESE STANDARDS SHALL APPLY.
- 8. NEGATIVE DESIGN CAMBER AFTER ALL LOSSES IS NOT PERMITTED.
- 8. EACH BEAN PROVIDED IN THESE STANDARD DESIGNS HAS BEEN LOAD RATED IN ACCORDANCE WITH SECTION 3.15 OF THE WEST VIRGINIA DIVISION OF KICHWAYS BRIDGE DESIGN MANUAL, ADDITIONALLY, LOAD RATING PROCEDURES ARE IN ACCORDANCE WITH THE AGAITD MANUAL FOR CORDITION EVALUATION AND LOAD AND RESISTANCE FACTOR RATING OF KICHWAY BRIDGES, 2003.

L LA	PSPLI	CE TA	SUE	
BAR SIZE	NO. 3	NQ. 4	NO. 5	NO. 6
SPLICE LEN.	51-	28"	34"	4]"

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-BITA & B THRU BR-B42A & B, BR-BIOL BR-BIO2A & B, BR-BIO3, BR-BIO4, BR-BIO5A & B AND BR-BIO6 AS APPLICABLE.

MATERIALS & FABRICATION NOTES

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

MILD RETHFORCEMENT

- ALL MILD REINFORCING STEEL SHALL BE GRADE GO. DEFORMED BILLET STEEL AND SHALL BE EPICY COATED EXCEPT WHERE NOTED. ALL UNCOLATED REINFORCING SHALL WEST THE REQUIREMENTS OF ASSITIO US). ALL EPICY COLATED REINFORCING SHALL WEST THE REQUIREMENTS OF ASSITIO W284, EXCEPT WHERE WIENDED BY SECTION TOPOL OF THE STANDARD SPECIFICATIONS.
- *ALL TENSION LAP SPLICES SMALL BE A CLASS 8, CONTACT TYPE, MINIMUM LAP
 SPLICE LENGTHS SMALL BE AS GIVEN IN THE TLAP SPLICE TABLET, THIS SHEET, ADDITIONALLY,
 IF LAP SPLICIONS OF ET, LR, AND 8T BARS IS USED, TERMINATION OF THE SPLICE
 SMALL BE NO CLOSER TO THE EXO OF THE BEAM THAN 1/10 OF THE SAM LENGTH.
- *MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS, EXCEPT THAT NO. 4 AB BARS WAY 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 1/5" #, GRADE 270.7 WIRE UNCOATED, LOW-RELAXATION STRAND MEETING THE REQUIREMENTS OF AMSHTO W203, SUPPLEMENT SI.
- -ALL BEAMS DESIGNED IN THESE STANDARDS UTILIZE STRANDS WITH A NOWINAL AREA OF 0.167 SQ. IN.
 STRANDS WITH A NOWINAL AREA OF 0.153 SQ. IN. 15 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 SE 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 BITUKINOUS ELASTCHERIC WATERPROOFING KEUBRANE. MATERIAL SHALL WEET ASTM CB36-84.

CONCRETE

- ALL CONCRETE USED IN MANUFACTURING PRESTRESSED CONCRETE BEAMS SHALL MEET THE REQUIREMENTS OF SECTION 603.6 OF THE STANDARD SPECIFICATIONS. OCSION STRENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES SET FORTH IN THESE PLANS.
- ·ALL CONCRETE USED IN PARAPETS AND CURBS SHALL BE CLASS K CONCRETE.

ELASTOMERIC BEARING PADS:

- *ALL BEARING PADS SMALL MEET THE APPLICABLE REQUIREMENTS AS SET FORTH IN SECTION 18.2 OF THE ASMITO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 1998 EDITION WITH CURRENT INTERIMS. ALL BEARINGS SMALL BE STEEL REINFORCED LAMINATED REPRINCES.
- *THE ELASTDMER MATERIAL SHALL BE 60 DURDWETERS WITH A MINIMAM LOW TEMPERATURE GRADE OF 3 (ZONE C).
- ·ALL STEEL REINFORCING SHALL WEET 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 TURING, POST ATTACHMENT INSERTS, AND HARDWARE SHALL WEET THE LISTED WATERIAL AND COATING SPECIFICATIONS!

ITEM	DESCRIPTION	MATERIAL SPEC.	COATING SPEC.
POST PLATE TUBING CHANNEL	OESCRIPTION W6925 ½	ASHTO W270, GR 36 ASHTO W270, GR 36 ASTW A500, GR 8 ASHTO W270, GR 38	COATING SPEC. ASSITO MILI ASSI
BOLTS NUTS WASHERS	%" * x ALL LEN. %" * ALL	AASHTO MISH (TYPE 1, HH) AASHTO MISH (CLASS C AASHTO MISH (MISH)	AASHTO N232 AASHTO N232 AASHTO N232 AASHTO N232
WASHERS	ALL		100000

PROJECY	NUMBERS		****	SHEET	
STATE	FEDERAL	DISTRICT	COUNTY	NO.	TOTAL
323-14-2.67	N.A.	2	LOGAN		

WELDING

- TACK WELDING OF REINFORCEMENT IS NOT PERMITTED. REINFORCING CAGES AND LONGITUDINAL STEEL SHALL BE ADEQUATELY TIED WITH APPROVED MEMS TO PREVENT RACKING AND MISALIGNAPHY.
- ALL WELDING OF FABRICATED ITEMS, AS SHOWN IN THESE PLANS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF AASHTD/AWS 01.5, 2002.

POST-TENSIONING BAR

- POST TENSIONING THREAD BARS SHALL BE DIE INCH DIAMETER, 150 KSI STEEL, AND SHALL COMPORT TO ANSHITO MOSTS, TYPE II. STEEL THREAD BARS SHALL BE DESIGNED TO ALLOW THE USE OF HEAVY HEX NUTS AND COUPLERS THAT THREAD DITIO THE END OF THE DEFORMATIONS. HEAVY HEX NUTS AND COUPLERS SHALL BE DE A DESIGN AND MATERIAL RECONNEADED BY THE BAR MANUFACTURER TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR. PROPERLY DOCUMENTED CERTIFIED MILL TEST REPORTS SHALL BE PROVIDED FOR EACH WEAT OF STEEL THREAD BARS.
- *ALL POST-TENSIONING THREAD BARS, MUTS, BEARING PLATES, COUPLERS, AND ANCILLARY HARDWARE SHALL BE HOT-DIPPED GALVANIZED IN ACCREDANCE WITH ASSITO WILL THE GALVANIZING PLANT SHALL ADMINISTER ADSOURTE QUALITY CONTROL MEASURES TO SAFEGUARD AGAINST HYDROGEN EMBRITTLEMENT. QUALITY CONTROL MEASURES SHALL COMPLY WITH ASTM A143. CERTIFICATION FOR HOT-DIP GALVANIZING SHALL BE PROVIDED BY THE GALVANIZING PLANT.
- · ALL POST-TENSIONING BEARING PLATES SHALL CONFORM TO MASHTO M270, GRADE 36.

SHEAR KEY CROSS

- 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 UNITIMA 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 MICHAMYS, 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 CROUT IN THE STRUCTURE. THE TESTS WILL BE BASED ON A POWERABLE CONSISTENCY WITH THE SAME WATER/ORDUT 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 CIOS, AS MODIFIED BY ASTM CITO? GROUT TESTING IN ACCORDANCE WITH AMSHID 123 ISTANDARD CYLINDER TEST) IS NOT ACCEPTABLE.

PROTECTIVE SURFACE TREATMENTS

- * 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 VIRCINIA 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 SILVINE TREATMENT BY FABRICATOR AND A MAXIMUM OF FIVE WORKING DAYS PRIOR TO SAPPHENT OF THE BEAMS, THE FABRICATOR SHALL BE RESPONSIBLE FOR ABRASIVE BLAST CLEMING TO CLEM WHITE CONCRETE THE INTERIOR SIDES OF BEAMS FOR THE FULL LENGTH. CLEM WHITE CONCRETE SHALL WEAN REMOVAL OF ALL DIST, OREASE, DIL AND LIGOSE CONCRETE LAITANCE AND PROVIDE A ROUGENED CONCRETE SURFACE. BLASTING MEDIUM SHALL BE APPROVED BY THE DIVISION OF HIGHWAYS.

SHOP DRAWINGS

THE FABRICATOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWINGS IN ACCORDANCE WITH THE WEST VIRGINIA DIVISION OF HIGHWAYS DOCUMENTS, OP-102 AND THE STANDARD SPECIFICATIONS. ADDITIONAL INFORMATION IS PROVIDED IN SECTION 7 OF THE BRIDGE DESIGN MAMAL. SHOP DRAWINGS SHALL INJUDICE THE FABRICATIONS DETENSIONING PLAN.

				WEST VIRGINIA DEPARTMENT OF TRANSPORTATION OF HIGHWAYS	N DESE	TW8	08/10	O-€DED SMR	09/10
NO.	REVISION	DATE:	BY:	ENGINEERING DIVISION	DRAWN	TWB	09/10	REVIEWED SMR	09/10

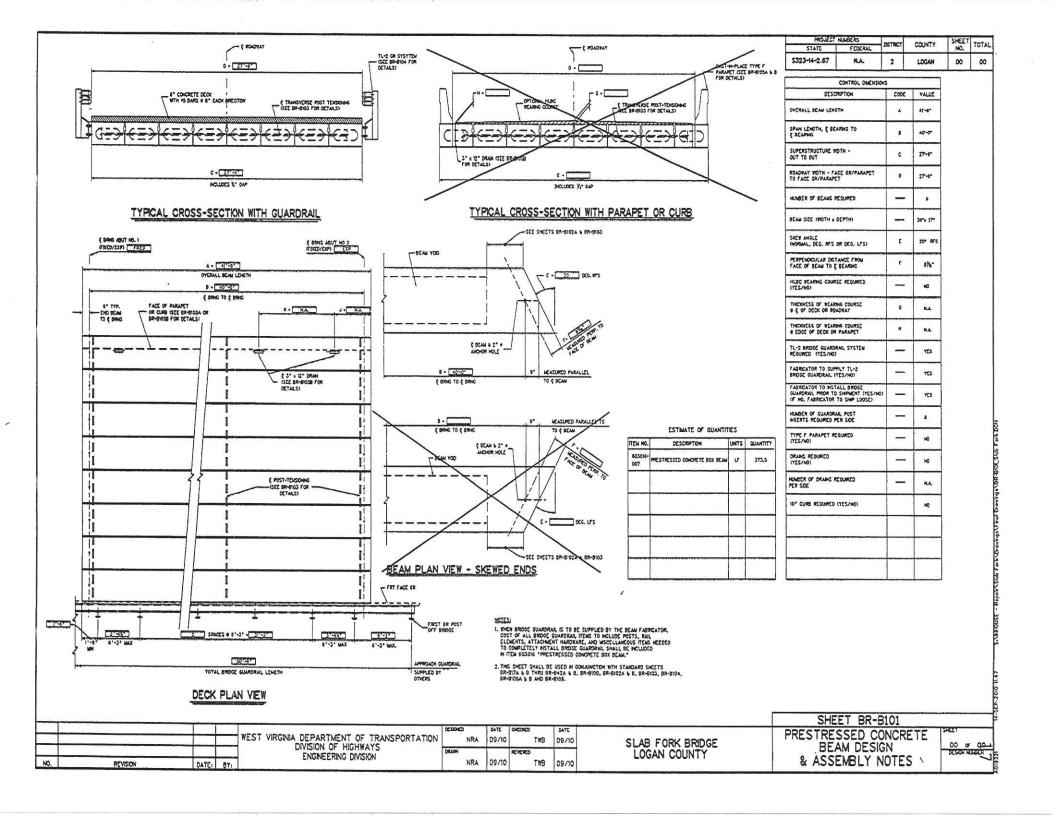
SLAB FORK BRIDGE LOGAN COUNTY SHEET BR-B100

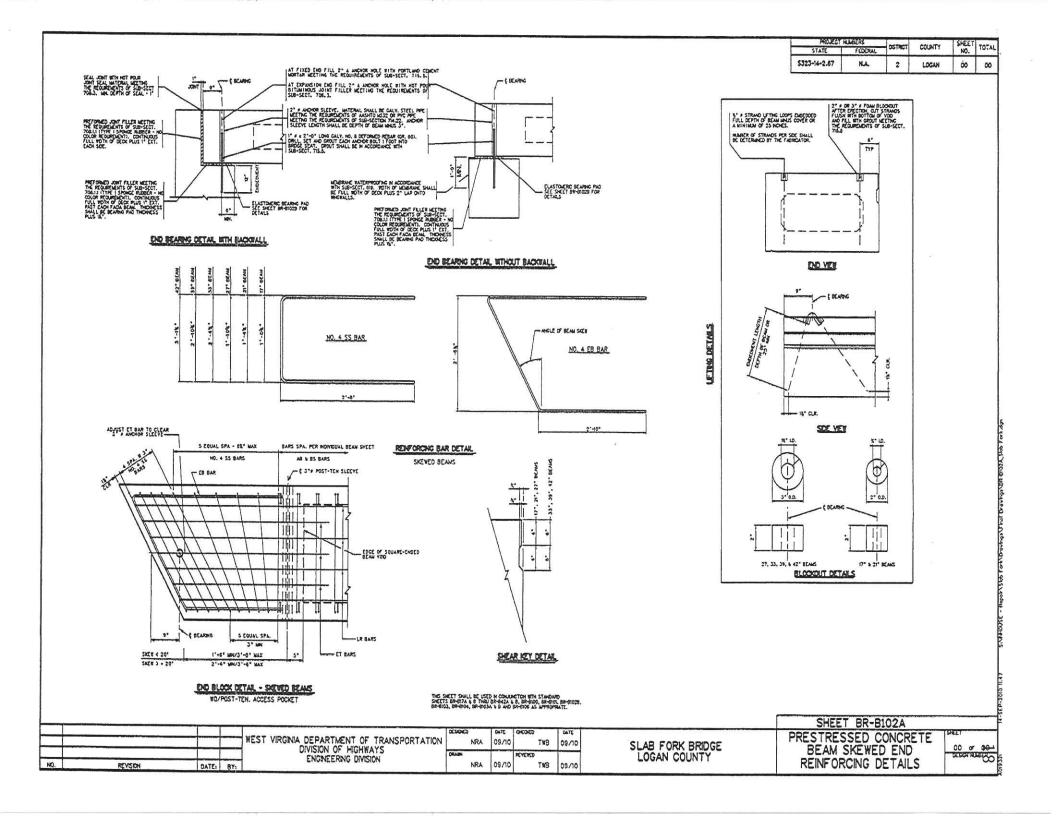
17" PRESTRESSED

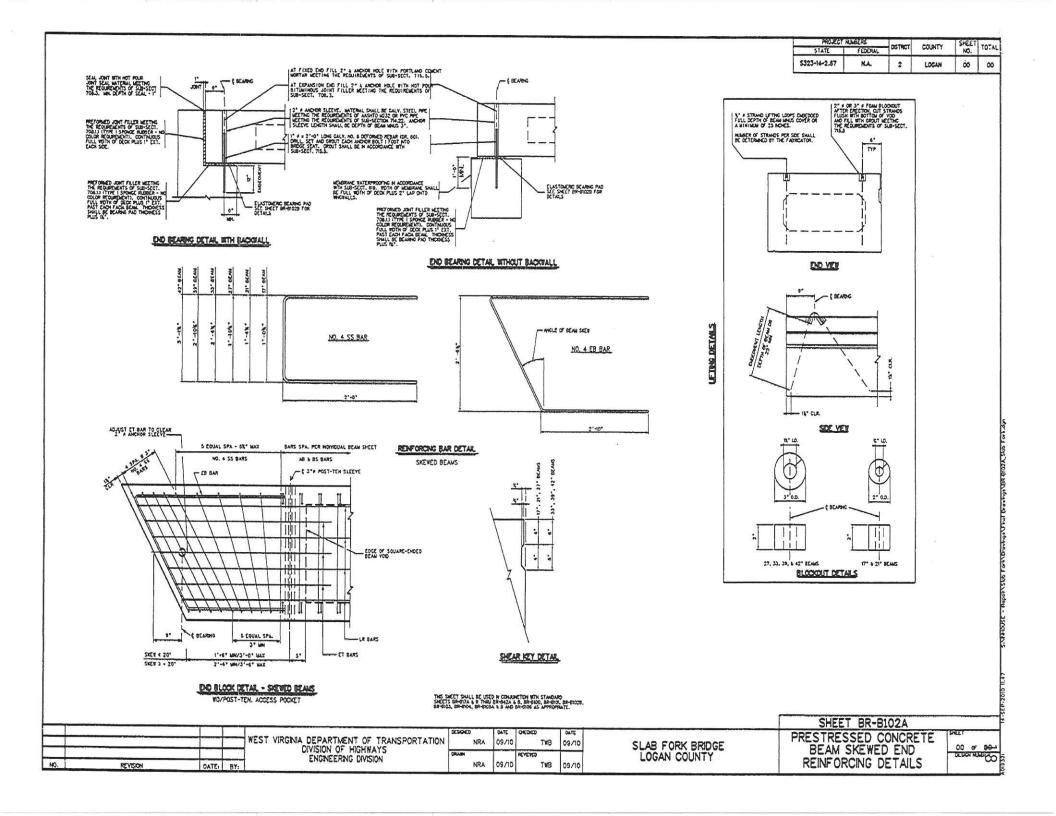
CONCRETE BOX BEAM

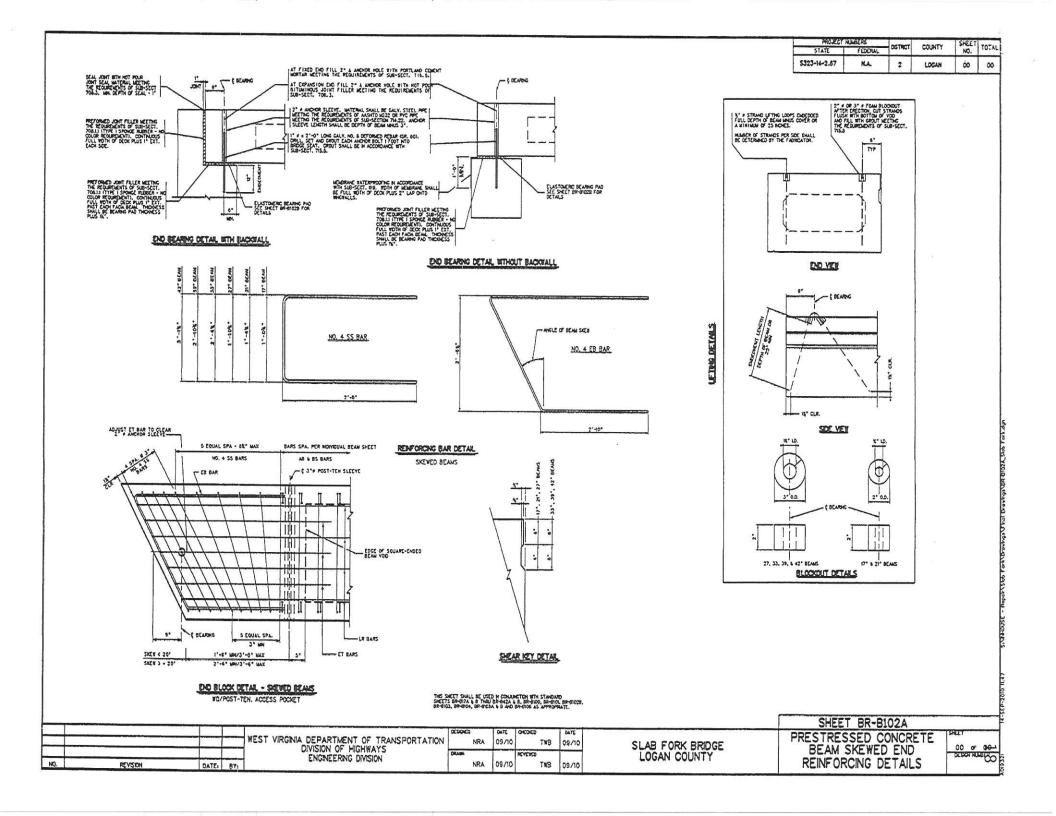
DESIGN & ASSEMBLY NOTES

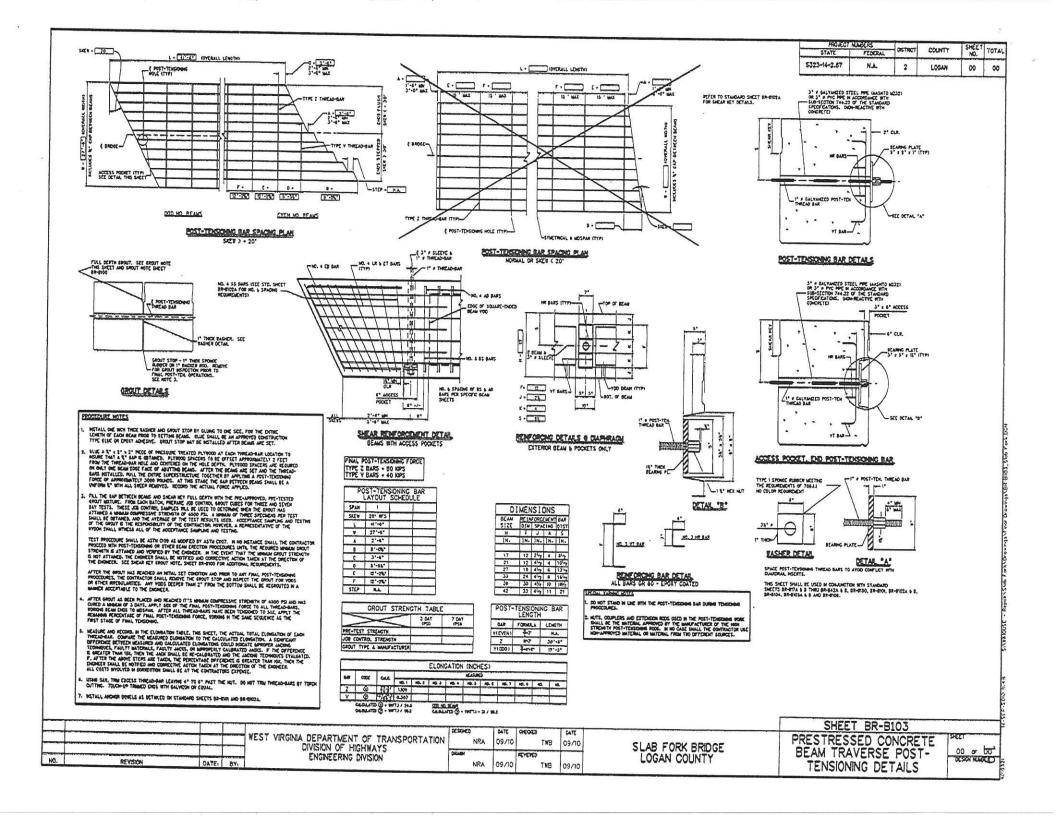
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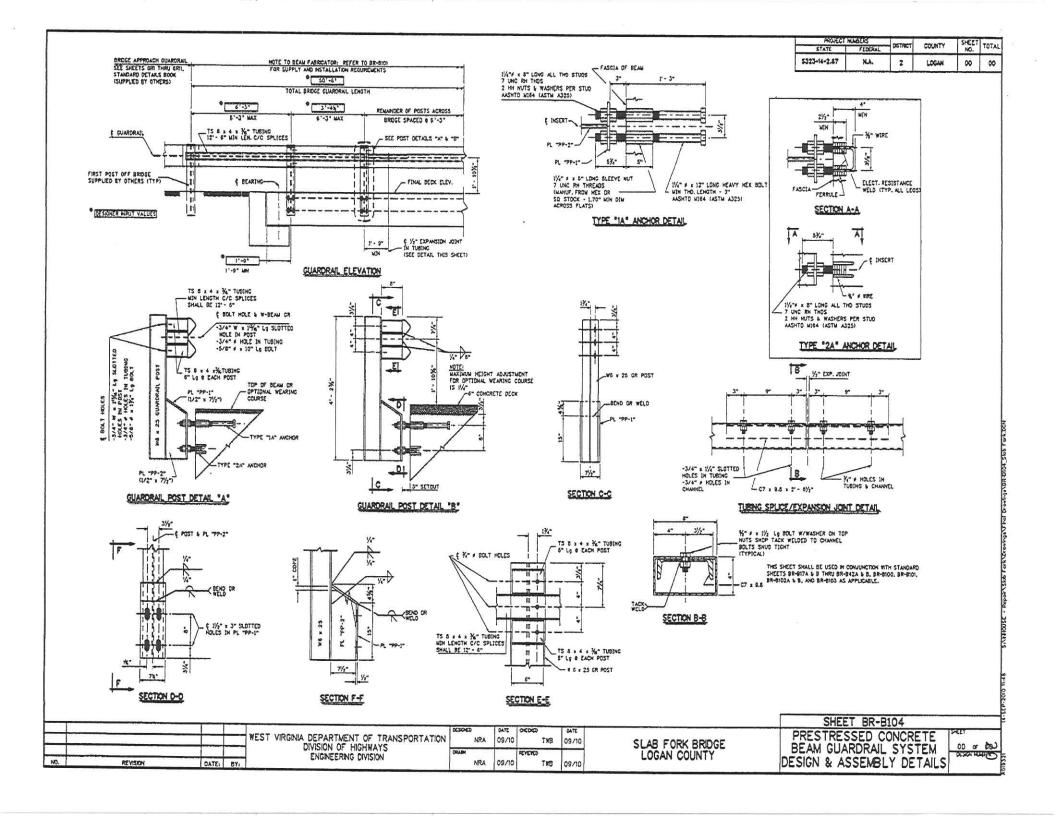


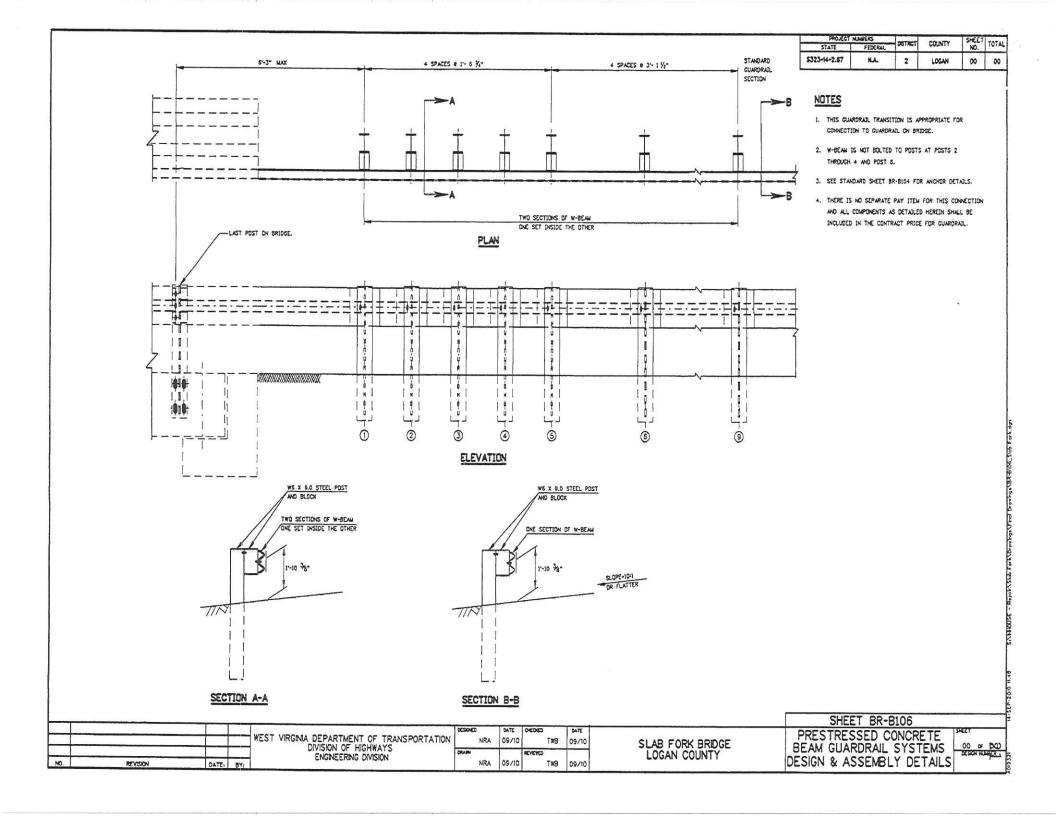












State of West Virginia

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 ha 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 resident 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 employee working on the project being bid are residents of West Virginia who have resided in the state continuously for the two year immediately preceding submission of this bid; or,				
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 a 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,				
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,				
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 meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.				
By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.				
Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.				
Bidder: Car Con Exote Corp Signed: Robert But Stanley				

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

1.

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.

Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preced-

Application is made for 2.5% resident vendor preference for the reason checked:

	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,
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,
5.	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.
requiren against	understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the nents 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 cted from any unpaid balance on the contract or purchase order.
authorize the requ	nission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and es the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid ired business taxes, provided that such information does not contain the amounts of taxes paid nor any other information by the Tax Commissioner to be confidential.
and acc	penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true surate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate s during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.
Bidder:	Carr Concrete Corp signed: Robert Burn Stanley
Date:	4-9-12 Title: Project Manager

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

RFQ No.	
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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:

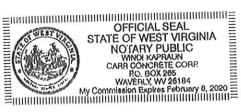
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due 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: Concrete Corp
Authorized Signature: Robert Bun Stonley Date: 4-9-12
State of WV
County of Wood , to-wit:
Taken, subscribed, and sworn to before me this \underline{Q} day of \underline{April} , 20/2.
My Commission expires $\frac{Z/8}{}$, 20 $\underline{20}$.
AFFIX SEAL HERE NOTARY PUBLIC. Windi Kansan



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:		
		5 8 * * * * * * * * * * * * * * * * * * *