



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

Request for Quotation

RFQ NUMBER
05100377

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
MICHAEL AUSTIN
304-558-2402

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

WAVERLY WV 26184-0265

DIVISION OF HIGHWAYS
JOBSITE
SEE SPECIFICATIONS

DATE PRINTED 02/17/2010	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
-----------------------------------	---------------	----------	--------	---------------

BID OPENING DATE: **03/03/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		210-16	\$30,573.00 Lump Sum	\$30,573.00 Lump Sum
PRESTRESSED CONCRETE BOX BEAMS TO PROVIDE PRESTRESSED CONCRETE BOX BEAMS AND HARDWARE FOR LOMAN BRANCH BRIDGE PROJECT S314-23/9-0.67 IN HAMPSHIRE COUNTY FOR THE WEST VIRGINIA DIVISION OF HIGHWAYS PER THE ATTACHED SPECIFICATIONS. EXHIBIT 10 REQUISITION NO.: 05100377 ADDENDUM ACKNOWLEDGEMENT I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC. ADDENDUM NO.'S: NO. 1 <i>N/A</i> NO. 2 NO. 3 NO. 4 NO. 5 I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						

RECEIVED
 2010 MAR -1 PM 1:37
 WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>RE Burr Stanley</i>	TELEPHONE <i>304 464 4441</i>	DATE <i>2/26/10</i>
TITLE <i>Proj Mgr.</i>	FEIN <i>550685425</i>	ADDRESS CHANGES TO BE NOTED ABOVE

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

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

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

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

INSTRUCTIONS TO BIDDERS

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



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

Request for Quotation

RFQ NUMBER
05100377

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF
MICHAEL AUSTIN 304-558-2402

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

DIVISION OF HIGHWAYS
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/17/2010				

BID OPENING DATE: 03/03/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: center;"> <i>RE "Burr" Stanley</i> SIGNATURE <i>Carr Concrete Corp</i> COMPANY <i>2-26-10</i> DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;"> DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 </p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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

SPECIFICATIONS

The following sections of the West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2000 as modified by the January 1, 2003 Supplemental Specifications shall apply to the administration of this requisition: Sections 101, 102.4, 102.5, 105.1, 105.3, 105.4, 105.10, 105.11, 105.12, 105.13, 106.3, 106.4, 106.5, 106.6, 106.7, 106.9, 107.1, 107.2, 107.3, 107.14, 107.19, 107.20, 108.8, 108.9, 109.1, 109.2 and 109.20.

All items supplied under this requisition shall meet the requirements of the "West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2000, as modified by the January 1, 2009 Supplemental Specifications.

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

<u>Item Description</u>	<u>Standard Sheet No</u>	<u>Revision Date</u>
21" Box Beam	BR-B21A & BR-B21B	9/96
Beam Details	BR-B100, BR-B101, BR-B102 & BR-B104	9/96
Post-Tensioning Details	BR-B103	9/96

Alternates to the above Division of Highways standards will be permitted if approved by the District Five Bridge Engineer. Alternate designs must be submitted for approval on the Design Data Charts provided as a part of the quotation sheets for this requisition and must be approved prior to award of this requisition purchase order. In addition to the design criteria contained on the Division of Highways Standard Bridge Plan Sheets referenced above, all alternate designs must be based on the following criteria:

- A. Two lane bridge with a deck width of 24'-0" out to out and roadway width of 23'-0" rail to rail.
- B. Guardrail superimposed dead load of 30 pounds per linear foot assumed to be applied equally to all beams.
- C. Future wearing surface superimposed dead load of 25 psf applied equally to all beams.

D. Live loading of 1.25X HS20-44 (HS25).

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

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

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

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

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

ACCEPTANCE

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

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

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

DELIVERY

Upon receipt of a State Purchase Order the Vendor shall submit shop drawings to the District Five Bridge Engineer within twenty (20) calendar days. Shop drawings must be approved the Division of Highways prior to the manufacture of any beam sections.

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

The Division of Highways requires that all 5 beam sections be delivered on the same day.

Should the Vendor fail to meet the above delivery schedule, liquidated damages will be assessed in accordance with Section 108.7 of the current Division of Highways Standard Specifications Road and Bridges.

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

VENDOR INVOICE

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

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

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

PARTIAL PAYMENT OF APPROVED BOXES & BEAMS

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

- a. The vendor must request partial payment and furnish an official invoice for the manufactured and approved Box Sections and Beams.

- b. The partial payment invoice shall be accompanied by a surety bond equal to the invoiced amount guaranteeing delivery of all items specified on the State Contract Order (SCO).
- c. The vendor shall furnish a statement of approved Box Sections and Beams condition and exact storage location.
- d. The vendor shall furnish a legal right-of-entry onto the storage site to Division of Highways' employees and/or agents for the purpose of inspecting, sampling, testing and removing any or all Box Sections and Beams.
- e. The vendor shall certify that the stored Box Sections and Beams are suitably marked and identified as property of the Division of Highways and will not be used for any purpose not designated by the Division.
- f. The vendor shall furnish an official invoice and the Division of Highways shall process that invoice for the remaining amount (not to exceed 35%) of the total cost of the units upon acceptance of delivery by the Division of Highways.

PRESTRESSED CONCRETE BOX BEAMS & ASSOCIATED HARDWARE

LOMAN BRANCH BRIDGE

STATE PROJECT NO. S314-23/9-0.67

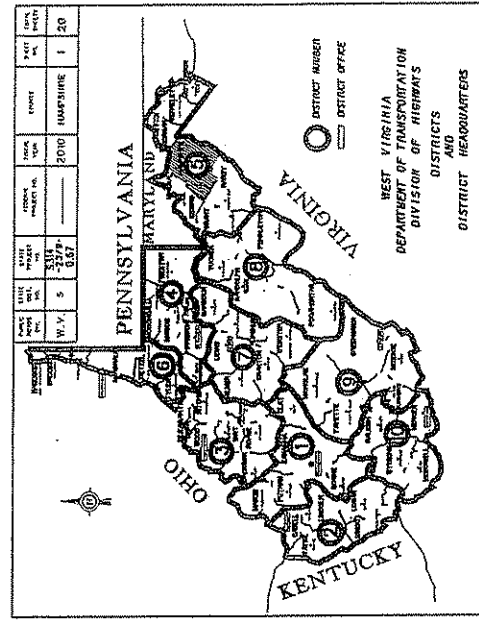
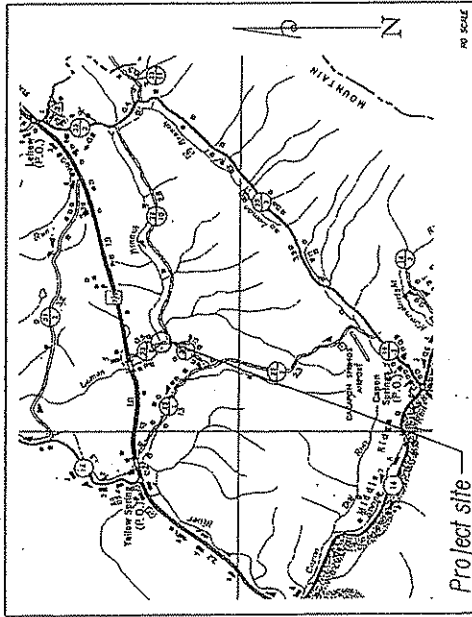
<u>ITEM</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>Unit Price</u>	<u>Amount</u>
01.	2 EACH	EXTERIOR BEAMS 21" depth x 36" width x 43'-6" overall length (42'-0" c-c bearing anchor bolt holes). With all guardrail & hardware attached.	<u>\$5601.⁰⁰</u>	<u>\$11,202.⁰⁰</u>
02.	3 EACH	INTERIOR BEAMS 21" depth x 36" width x 43'-6" overall length (42'-0" c-c bearing anchor bolt holes).	<u>\$5601.⁰⁰</u>	<u>\$16,803.⁰⁰</u>
03.	10 EACH	ELASTOMERIC BEARING PADS (3/4" thick x 5" x 24").	<u>\$70.⁰⁰</u>	<u>\$700.⁰⁰</u>
04.	10 EACH	NO. 8 DEFORMED ANCHOR BOLT (Grade 60) bar. 1" diameter x 2'-0" length.	<u>\$8.⁰⁰</u>	<u>\$80.⁰⁰</u>
05.	32 LF	PREFORMED JOINT FILLER (1" thick x 21").	<u>\$14.⁰⁰</u>	<u>\$448.⁰⁰</u>
06.	4 EACH	POST TENSIONING BARS (1" diameter, threaded, 4 - 18' full length bars, with all plates, hex nuts and other hardware as required).	<u>\$335.⁰⁰</u>	<u>\$1,340.⁰⁰</u>
TOTAL				<u>\$30,573.⁰⁰</u>

EXTERIOR BEAMS ARE TO BE SHIPPED COMPLETE WITH ALL GUARDRAIL, INSERTS, GUARDRAIL POSTS, AND GUARDRAIL ATTACHED.

ALL BEAMS AND OTHER ITEMS ARE TO BE IN ACCORDANCE WITH THE ATTACHED PLANS AND SPECIFICATIONS FOR THIS PROJECT.

WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR CONSTRUCTION

OF
LOMAN BRANCH BRIDGE
STATE PROJECT NO. S314-23/9-067
ROUTE NO. CO. 23/9 (SLS)
CAPON DISTRICT
HAMPSHIRE COUNTY
BRANCH OF KUMP ROAD



PROJECT LENGTH

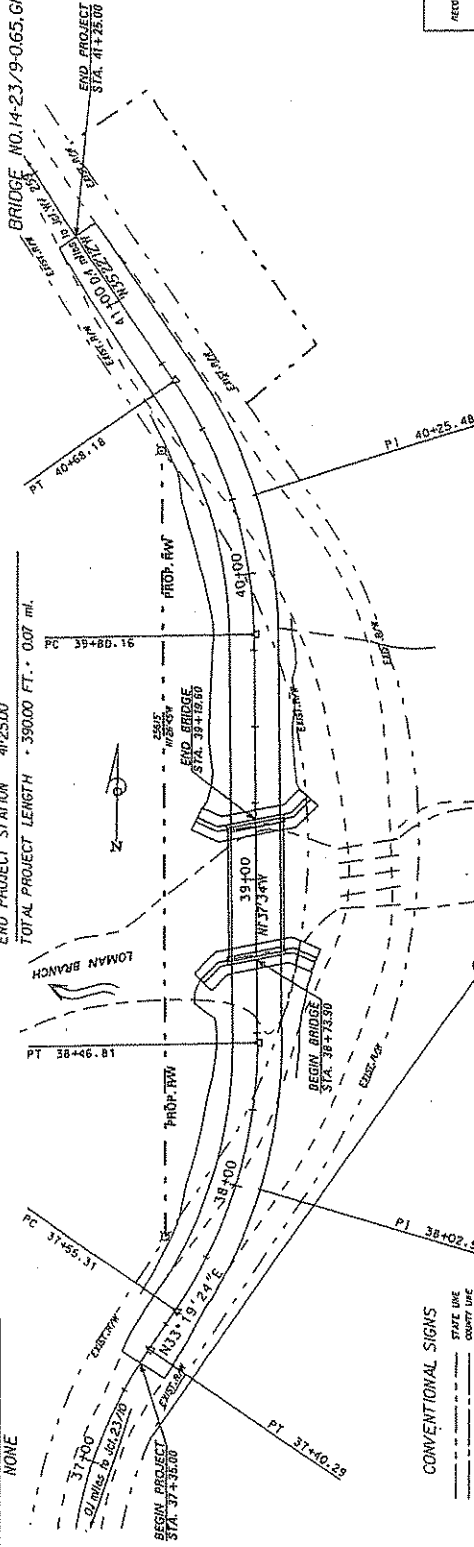
BEGIN PROJECT STATION 37+35.00
END PROJECT STATION 41+25.00
TOTAL PROJECT LENGTH = 3900.00 FT. = 0.07 mi.

UTILITIES ENCOUNTERED

NONE

TYPE OF CONSTRUCTION

BRIDGE NO. 14-23/9-065, GRADE, DRAIN, & PAVE



PLAN HOR. 1" = 40'

PROFILE VERT. 1" = 40'

DESIGN DESIGNATION

A.O.T. (R&B) L	---
A.O.T. (R&B) R	---
D.H.V.	---
B	---
T	---
V	---

CONVENTIONAL SIGNS

STATE USE	---
CONVENTIONAL LINE	---
PROPOSED R&B LINE	---
PROPERTY LINE	---
PROPOSED FENCE	---
EDGE OF STREAM	---
PROPOSED GRADE	---
EXISTING GRADE	---
WATER USE	---
TELEPHONE POLE	---
ELECTRIC POLE	---
TELEPHONE POLE	---
TRAIL	---
CONCRETE POWER AND TELEPHONE POLE	---
SHRUB	---
RIGHT OF WAY MARKER	---

INDEX TO SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES
3	GENERAL NOTES
4	PROFILES OF BRIDGES
5	PLAN SHEET
6	PROFILES & TYPICAL SECTIONS
7-17	BRIDGE PLANS
18-20	GROSS SECTIONS

LAYOUT SCALE 1" = 40'

RECOMMENDED	---
RECOMMENDED	---
APPROVED	---

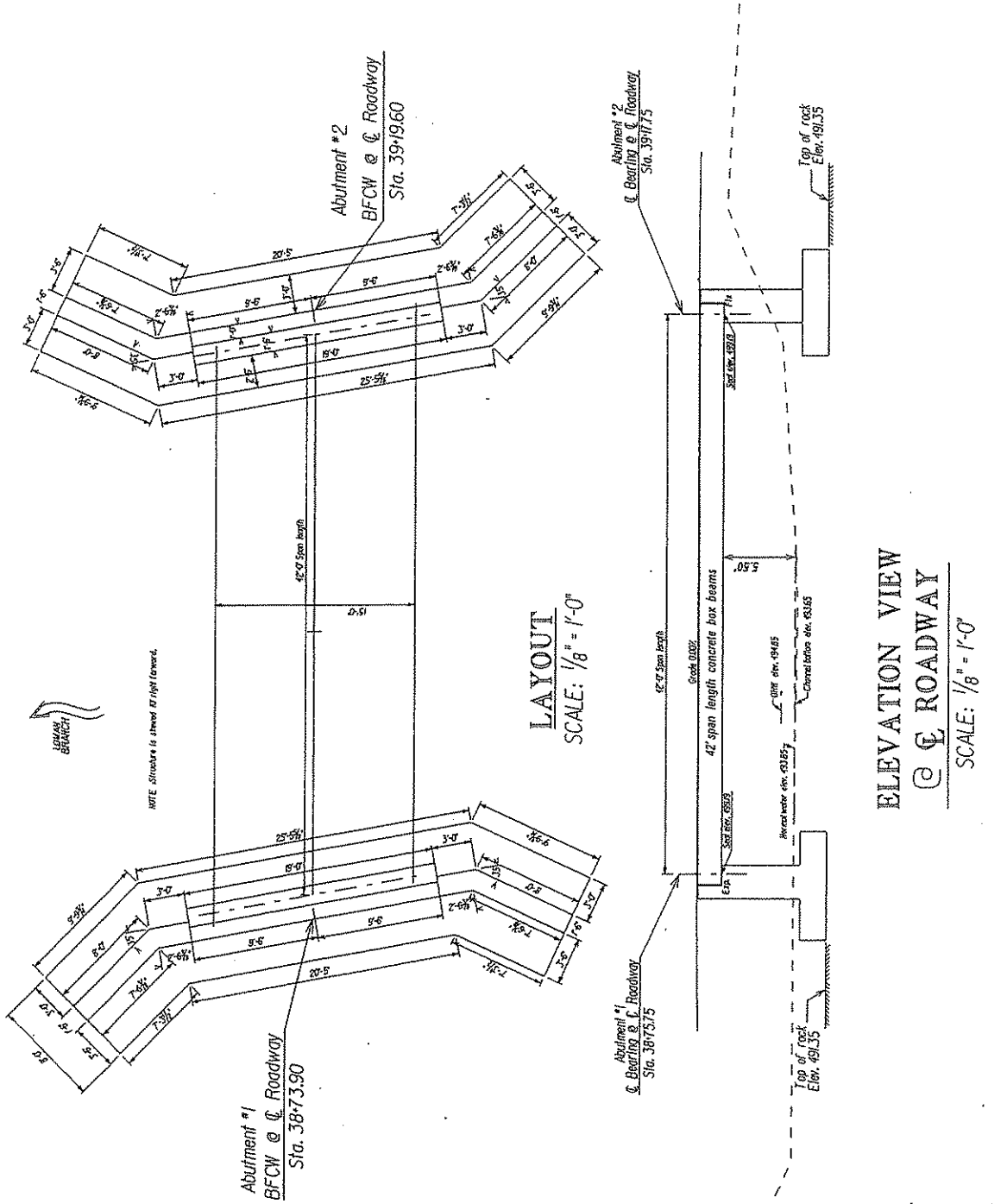
PROJECT NO. S314-23/9-067

STATE PROJECT NUMBER	FEDERAL PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
5314-21/9-0.67		7	20
COUNTY	PROJECT NUMBER		
HAMPSHIRE	5		

HYDRAULIC DATA

DRAINAGE AREA - 6,416 ACRES
 Q 10 (USGS METHOD) - xxx CFS
 NEW OPENING - 205 S.F.
 EXISTING OPENING - 63 S.F.
 ELEVATION BOTTOM OF SUPER-STRUCTURE (NEW) - 499.25
 ELEVATION BOTTOM OF SUPER-STRUCTURE (EXISTING) - N/A

Note: Area of each abutment is 320 s.f.



LAYOUT
SCALE: 1/8" = 1'-0"

ELEVATION VIEW @ ROADWAY
SCALE: 1/8" = 1'-0"

W. VA. DEPARTMENT OF HIGHWAYS STRUCTURES DIVISION
LOMAN BRANCH BRIDGE OVER LOMAN BRANCH IN HAMPSHIRE COUNTY
LAYOUT & ELEVATION

DESIGNED	DATE
BY	5-65
CHECKED	5-69
APPROVED	

FED. ROAD DIST. NO.	STATE	PROJECT NUMBER	COUNTY	SHEET NO.
W.V.A.	5	2314-437-0-61	HAMPSHIRE	0
CONTROL ELEVATIONS				OF 20

CONTROL ELEVATIONS ESTABLISHED FROM SURVEY

CODE	ABUTMENT 1	ABUTMENT 2
10	601.00	591.00
2	499.19	493.19

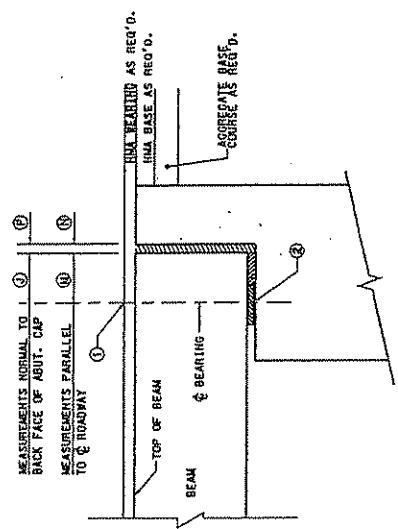
CONTROL STATIONING ESTABLISHED FROM SURVEY

CODE	LOCATION	STATION VALUE
3	BEARING AT	3411.75
4	BEARING AT	3411.75

CONTROL DIMENSIONS

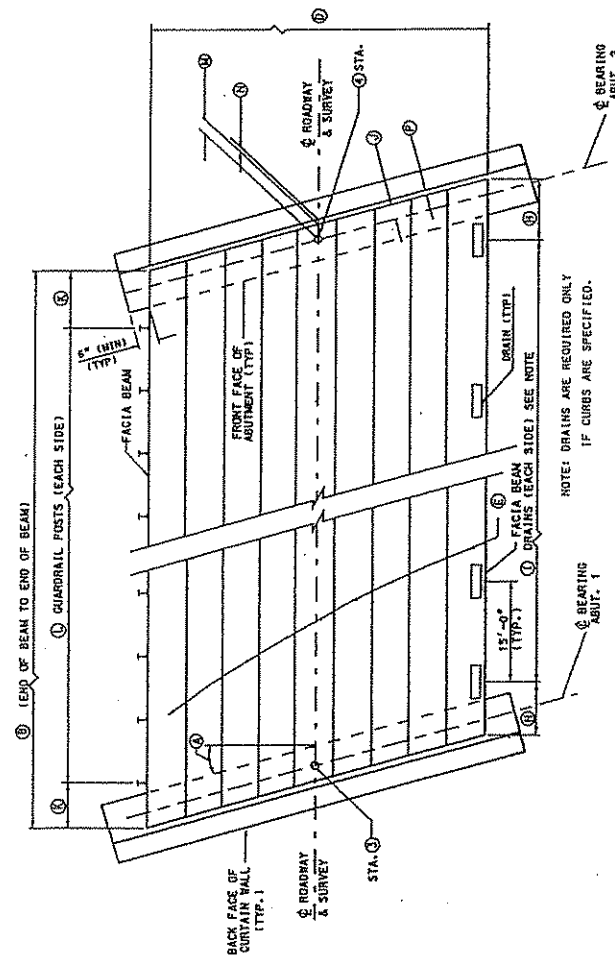
DIMENSION	CODE	VALUE
BEARD CROSSING	A	10" 0"
LENGTH OF BEARS, OUT-TO-OUT	B	15'-0"
BEAR WIDTH, OUT-TO-OUT	D	18'-0"
NUMBER OF BEARS	E	5
BEAR LENGTH, ϕ BEARING TO ϕ BEARING	F	42'-0"
DISTANCE FROM END OF BEAM TO ϕ OF BEAR	H	N/A
NUMBER OF DRAINS, EACH SIDE	I	N/A
PERPENDICULAR DISTANCE FROM ϕ BEARING TO END OF BEAM	J	0'-0"
DISTANCE FROM END OF BEAM TO FIRST GUARDRAIL POST	K	1'-0"
NUMBER OF GUARDRAIL POSTS EACH SIDE	L	14
DISTANCE FROM ϕ BEARING TO END OF BEAR PARALLEL TO ϕ ROAD	M	9'
NUMBER OF EXPANSION JOINTS PARALLEL TO ϕ OF ROAD	N	1
PERPENDICULAR WIDTH OF EXPANSION JOINTS	P	1'
GRADE %	R	0%

IF BEARING SURFACE IS USED FOR ELEVATIONS, ELEVATIONS SHALL BE TAKEN AT THE TOP SURFACE OF THE BEAM.

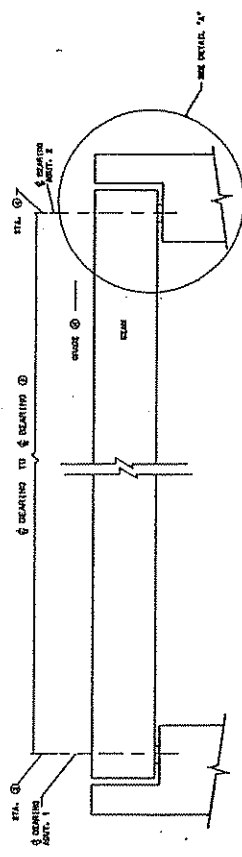


CONTROL ELEVATIONS & BEARING DIMENSIONS ALONG ϕ ROADWAY

DETAIL "A"



SUPERSTRUCTURE LAYOUT PLAN



SUPERSTRUCTURE ELEVATION ALONG ϕ ROADWAY

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

LOMAN BRANCH BRIDGE
OVER
LOMAN BRANCH
HAMPSHIRE COUNTY

SUPERSTRUCTURE PLAN

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

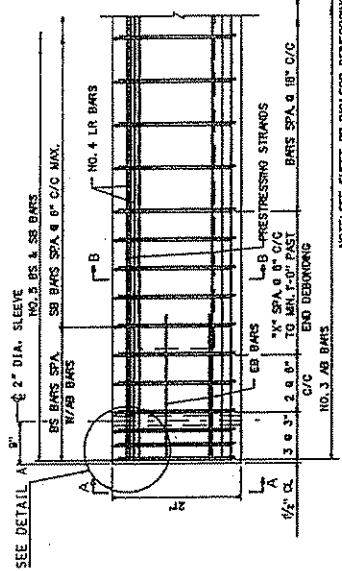
DESIGNED BY: _____
CHECKED BY: _____
DATE: _____

PROJECT NO. - non bonded, later
TRANSFORMED NO. - non bonded, later

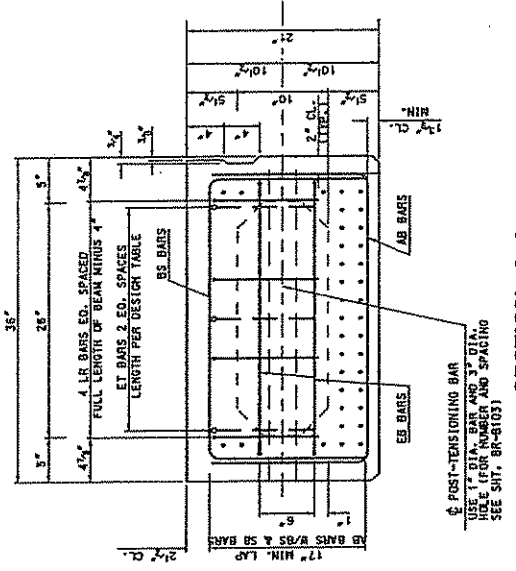
SHEET BR-1A

PROJECT NO.	3114-277-0-87
COUNTY	HAMPSHIRE
PROJECT NAME	
DATE	
SCALE	
SHEET NO.	12
TOTAL SHEETS	20

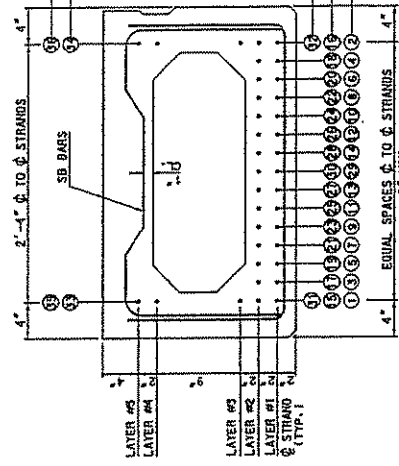
- NOTES:
1. ALL NON-PRESTRESSING REINFORCING BARS SHALL BE GRADE 60.
 2. ALL LAP SPACE LENGTHS, EXCEPT WHERE SHOWN, SHALL BE AS IN TABLE ON SHEET BR-B01.
 3. ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED.
 4. ALL STRANDS SHALL BE ENCLOSED INSIDE STRIPUP CASE ENTIRE LENGTH OF BEAM.
 5. THIS SHEET TO BE USED WITH STANDARD SHEET HEADERS BR-B03.
 6. WHEN STRAND NOS. 29 AND 30 ARE USED, SEE SHEET BR-B01 FOR DETAIL OF 2" DIA. ANCHOR SLEEVE.



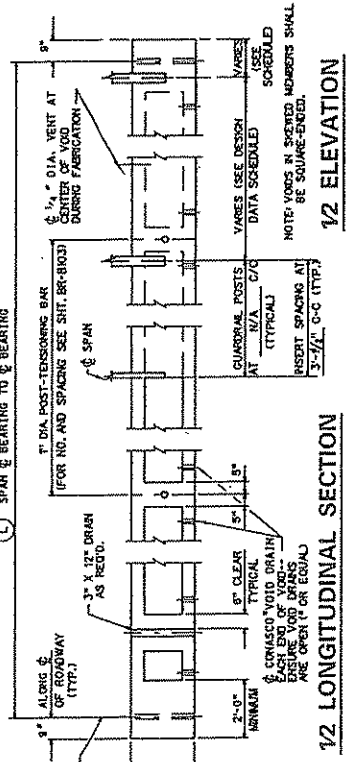
REINFORCING STEEL ELEV. VIEW



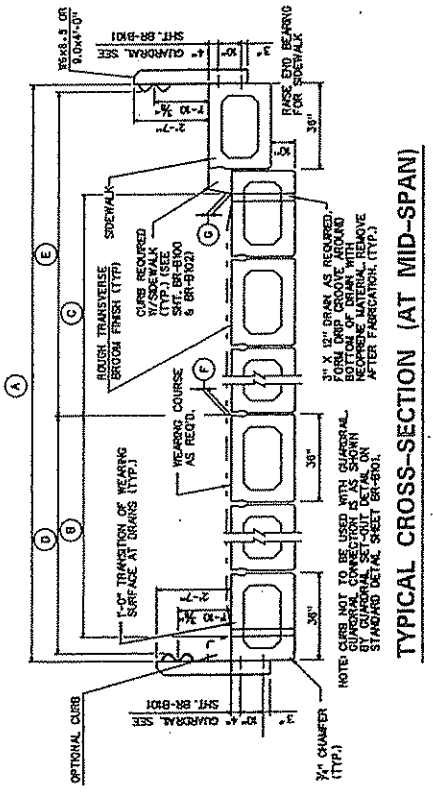
SECTION A-A
TYPICAL BEAM REINFORCEMENT



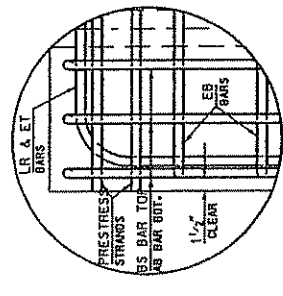
SECTION B-B
TYPICAL BEAM PRESTRESSING



12 ELEVATION



TYPICAL CROSS-SECTION (AT MID-SPAN)



DETAIL A

CODE	DESCRIPTION	VALUE	VALUE	DESCRIPTION	VALUE
A	DECK WIDTH, OUT TO OUT	18'-0"	NO	HOT-LAD BITUMINOUS CONCRETE REQUIRED (YES OR NO)	NO
B	DISTANCE FROM ϕ ROADWAY TO FACE OF CURB (NO SIDEWALK)	N/A	YES	GUARDRAIL REQUIRED (YES OR NO)	NO
C	DISTANCE FROM ϕ ROADWAY TO FACE OF CURB (WITH SIDEWALK)	N/A	NO	DRAINS REQUIRED (YES OR NO)	NO
D	DISTANCE FROM ϕ ROADWAY TO FACE OF GUARDRAIL (WITH SIDEWALK)	7'-6"	YES	CURTAIN WALL REQUIRED (YES OR NO)	YES
E	DISTANCE FROM ϕ ROADWAY TO FACE OF GUARDRAIL (WITH SIDEWALK)	N/A	NO	GUARDRAIL SETOUT REQUIRED (YES OR NO)	YES
F	THICKNESS OF WEARING COURSE AT ϕ ROADWAY	N/A	NO	GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO
G	THICKNESS OF WEARING COURSE AT FACE OF CURB	N/A			
L	SPAN LENGTH, ϕ BEARING TO ϕ BEARING	42'			

OPTIONAL 10" CURB TO BE INCLUDED (YES OR NO)	OPTIONAL PARAPET TO BE INCLUDED (YES OR NO) (REQUIRES SPECIAL DESIGN)	TOE PLATE REQUIRED (YES OR NO)
NO	NO	NO

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

LOMAN BRANCH BRIDGE
OVER
LOMAN BRANCH
IN
HAMPSHIRE COUNTY

21" PRESTRESSED BOX BEAM
DESIGN & ASSEMBLY DETAILS

DESIGNER: THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES
PROJECT NO. 3114-277-0-87
SHEET NO. 12 OF 20

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES
21" PRESTRESSED CONCRETE
BOX BEAMS
DESIGN & ASSEMBLY DETAILS
SHEET BR-B21A

PROJECT NO.	531-4-277-0-41
COUNTY	HAMPSHIRE
SHEET NO.	13
TOTAL SHEETS	20

MIN. CONCRETE STRENGTH @ DETENSION = 4,000 PSI.
 MAX. CONCRETE STRENGTH @ 28 DAYS = 5,000 PSI.
 JACKING FORCE LOW RELAX STRAND = 30,580 LBS.

SPAN LENGTH ϕ TO ϕ BEARING	DESIGN DATA FOR 21" DEPTH BOX BEAM										
	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	(4)
OVERALL LENGTH ALONG ϕ ROADWAY	31'-6"	33'-6"	35'-6"	37'-6"	39'-6"	41'-6"	43'-6"	45'-6"	47'-6"	49'-6"	(4)
NO. OF GRADE STRANDS - AREA/STRAND = 0.153 SQ. IN.	8	10	10	12	12	14	14	15	16	17	(4)
STRAND POSITION NUMBER	1,2,7,8, 13,14 35 & 36	1,2,5,6, 9,10,13,14, 13,14, 35 & 36	1,2,5,6, 9,10,13,14, 35 & 36	1,2, 5,10,13,14, 13,14, 35 & 36	1,2, 5,10,13,14, 13,14, 35 & 36	1,12, 15,16, 35 & 36	1,12, 15,16, 35 & 36	1,12, 15,16, 35 & 36	1,12, 15,16, 35 & 36	1,12, 15,16, 35 & 36	(4)
PRESSING FORCE AT DETENSION (KIPS/BEAM)	241	299	299	356	397	415	413	441	470	498	(4)
FINAL PRESTRESSING FORCE (KIPS/BEAM)	223	273	274	321	323	368	370	393	417	440	(4)
ULTIMATE DESIGN MOMENT (FT-KIPS/BEAM)	348	387	444	453	542	582	643	695	746	797	(4)
ULTIMATE RESISTING MOMENT (FT-KIPS/BEAM)	379	481	401	583	583	679	679	725	767	801	(4)
TOTAL NUMBER OF DEBONDED STRANDS	-	-	-	-	-	-	-	-	-	-	(4)
LAYER 1-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	-	-	-	-	-	-	-	-	-	-	(4)
LAYER 2-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	-	-	-	-	-	-	-	-	-	-	(4)
END TENSION STEEL EACH END (SIZE & LENGTH)	3-#4 X 8'-0"	3-#4 X 7'-0"	3-#4 X 7'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 9'-0"	3-#4 X 9'-0"	3-#4 X 10'-0"	(4)
CAMBER (S)	DETONATION, INCHES \rightarrow UPWARD (in)	0.08	0.18	0.18	0.30	0.21	0.46	0.53	0.51	0.71	(4)
	ERECTOR, INCHES \rightarrow UPWARD (in)	0.11	0.27	0.26	0.47	0.48	0.70	0.59	0.82	1.02	(4)
FINAL, INCHES \rightarrow UPWARD (in)	0.08	0.28	0.24	0.48	0.43	0.72	0.66	0.78	0.79	0.91	(4)
WEIGHT OF TYPICAL BEAM INCLUDING DIAPHRAGM (TONS) (WAZ)	9.1	9.6	10.1	10.6	11.2	11.7	12.2	12.7	13.4	13.9	(4)
NUMBER AND SPACING OF GUARDRAIL INSERTS	NO. OF INSERTS	10	11	12	12	13	14	15	16	16	(4)
	END OF BEAM TO ϕ OF FIRST INSERT EACH END	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"	1'-9"	(4)
NUMBER AND SPACING OF GUARDRAIL INSERTS	ϕ OF FIRST INSERT TO ϕ SECOND INSERT EACH END	3'-0 1/2"	2'-6"	1'-11/4"	2'-11/4"	2'-4 1/2"	1'-8 1/4"	2'-3"	1'-8 1/4"	2'-8 1/4"	(4)

- NOTES:
1. BEAM WEIGHTS LISTED IN DESIGN TABLES ARE APPROXIMATE AND ARE BASED ON ZERO SKEW AND DIAPHRAGMS SPA. & 15'-0" C-C MAX. ADDITION OF SKEW AND EXTRA DIAPHRAGMS WILL INCREASE WEIGHT.
 2. FOR STANDARD CURB, ADD 93 LBS. (0.05 TON) PER CURB PER FOOT OF BEAM.
 3. CAMBER VALUES LISTED IN DESIGN TABLE ARE APPROXIMATE AND ARE FOR COMPARISON PURPOSES ONLY. INSPECTION PURPOSES UNLESS PERMITTED BY THE DIRECTOR OF STRUCTURES DIVISION.
 4. DATA LISTED IN THE DESIGN TABLE MAY NOT BE VALID FOR SPAN LENGTHS THAT FALL BETWEEN THE SPAN LENGTHS LISTED. IF DIFFERENCES ARE ENCOUNTERED, CALCULATE AND ENTER SPECIFIC DATA FOR BEAM LENGTH REQUIRED IN THIS COLUMN.
 5. THIS SHEET TO BE USED WITH STANDARD SHEET NUMBERS BR-1 OR BR-1A, BR-21A, BR-810D, BR-810E, BR-810F, BR-810G, AND BR-810H.
 6. MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
 7. DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT SKEWED BEAM ENDS MAY TWIST OR WARP. CONTRACTOR IS REQUIRED TO CORRECT AT THE TIME OF BEAM ERECTION BEFORE BEAMS ARE SECURED TO THE BRIDGE DECK. CONTRACTOR SHALL BE RESPONSIBLE FOR TOTAL BEARING ON THE PADS AND A LEVEL TOP BEAM SURFACE. METHOD SHALL BE A PRE-APPROVED METHOD BY DIRECTOR OF STRUCTURES DIVISION.
 8. BEAM FABRICATOR SHALL NOTIFY CONTRACTOR THAT BEAM ENDS ARE TWISTED PRIOR TO SHIPPING OF BEAMS.

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

LOMAN BRANCH BRIDGE
 OVER
 LOMAN BRANCH
 IN
 HAMPSHIRE COUNTY

DESIGN TABLE FOR 21" PRESTRESSED BOX BEAM

BRIDGE NO. 14-2379-0-41

DATE 4-12-55

BY [Signature]

DESIGN TABLE FOR 21" PRESTRESSED BOX BEAM

STANDARD SHEET BR-821B

VENDOR PREFERENCE CERTIFICATE

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

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

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

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

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

Bidder: Carr Concrete Corp Signed: RE "Burr" Stanley
Date: 2-26-10 Title: Proj Mgr.

*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 exceeds 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: Carr Concrete Corp

Authorized Signature: RE "Burn" Stantley Jr. Date: 2/26/10

State of WV

County of Wood, to-wit:

Taken, subscribed, and sworn to before me this 26 day of Feb, 2010.

My Commission expires Feb. 8, 2020.

AFFIX SEAL HERE

NOTARY PUBLIC

Wendi Kapraun

