



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
05700310

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
JOHN JOHNSTON 304-558-2402

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

DIVISION OF HIGHWAYS
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/12/2007				

BID OPENING DATE: 03/07/2007 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	7	LS		210-16		
				PRESTRESSED CONCRETE BOX BEAMS		
				SEE ATTACHED		
				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).		
				A. APPLICATION IS MADE FOR 2.5% 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 HEAD-QUARTERS 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 CORPORATION NONRESIDENT VENDOR		

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'

**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. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, 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.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this contract is automatically null and void, and is terminated without further order.
14. **HIPAA Business Associate Addendum -** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** 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. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** 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.

SIGNED BID TO:

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



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LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>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.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() 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;</p> <p>OR</p> <p>() 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 BIDDERS' 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.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & 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) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT</p>						

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<p>AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND 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.</p> <p>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.</p> <p>BIDDER: -----</p> <p>DATE: -----</p> <p>SIGNED: -----</p> <p>TITLE: -----</p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU AR</p>						

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<p>ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</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 THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 33</p> <p>RFQ. NO.: 05700310</p> <p>BID OPENING DATE AND TIME</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p style="text-align: center;">-----</p>						

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CONTACT PERSON (PLEASE PRINT CLEARLY):						

***** THIS IS THE END OF RFQ 05700310 ***** TOTAL:						

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**Prestressed Concrete Box Beams for Pin Oak Road Bridge Project
State Project S314-29/3-0.74**

The following 21" prestressed concrete box beams shall be fabricated, approved, and delivered to the project site.

Two (2) exterior beam sections at 45'-6" overall length (44'-0" span length)

Five (5) interior beam sections at 45'-6" overall length (44'-0" span length)

Elastomeric bearing pads (3/4" x 5" x 24"), No. 8 deformed reinforcing (Grade 60) bar (1" x 2'-0"), 1" thick sponge rubber preformed joint filler, Guardrail attachment assemblies for box beams (installed insert and attachment hardware), 1" diameter Post-tensioning thread-bar with bearing plates, couplers, and hex nuts as required.

The box beams and associated hardware shall be delivered to the project site. This project is located on CR 29/3, 2.20 miles north of the junction with WV 29 near Slanesville in Hampshire County, WV. (See attached location map)

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, 2003 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 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 Division. Alternate designs must be submitted for approval on the Design Date 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 33'-8" out to out and roadway width of 33'1".
- 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 50 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, 2003 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
ENGINEERING DIVISION
1900 KANAWHA BLVD., EAST
BLDG. 5, ROOM A-454
CHARLESTON, WV 25305
PHONE (304) 558-2830

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 preformed at no additional cost to the Division of Highways.

DELIVERY

All beam sections and accessories shall be delivered to the specified delivery site within (90) calendar days after Vendor's receipt of approved shop drawings.

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.

Sites for delivery of beam sections and accessories under this requisition purchase order shall be accessible to equipment that is normally and customarily used for transportation of beam sections. Delivery will not be required where gross vehicle loaded weights will exceed the legal road or bridge load. Upon receipt of an approved Requisition Purchase Order the Vendor must notify the District Engineer within ten (10) calendar days if delivery under the terms of this requisition cannot be performed due to weight restrictions or roadway geometrics.

Prior to delivery, all Beams, Accessories, and Optional Items shall be tested and accepted in accordance with Section 603 of the Division of Highways Standard Specifications Road and Bridges adopted 1993 as modified by the July 1, 1998 Supplemental Specifications

VENDOR INVOICE

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

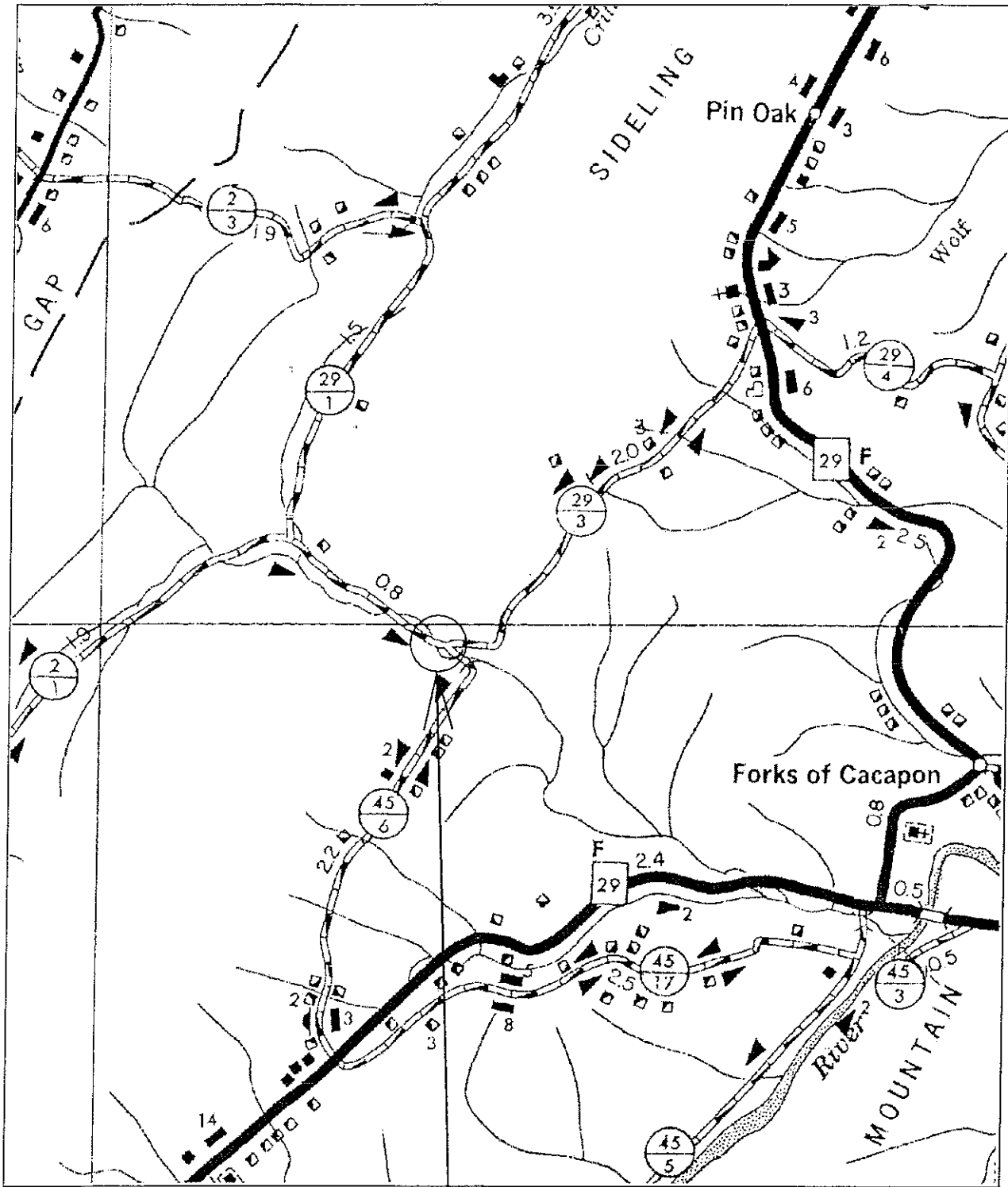
- a. Division of Highways Requisition Purchase Order number
- b. Total quantity and unit price with the total cost of each type of beam section, accessory and optional item furnished.

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 BEAMS

Upon completion of manufacture and approval by the Division of Highways of all Beams, specified on the Requisition 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. 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 Requisition Purchase Order.
- c. The vendor shall furnish a statement of approved beam 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.

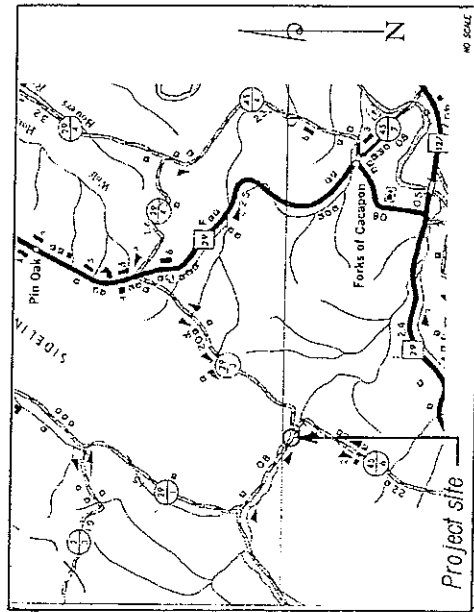


PROJECT SITE
S314-29/3-0.74
HAMPSHIRE COUNTY

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR CONSTRUCTION

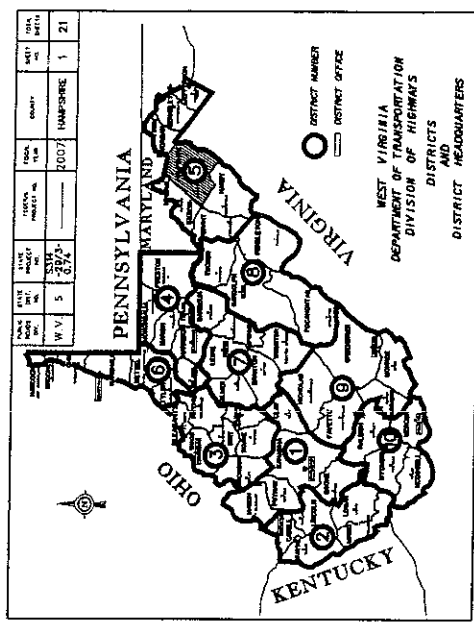
OF PINOAK BRIDGE

STATE PROJECT NO. S314-29/3-074
ROUTE NO. CO. 29/3 (SLS)
BLOOMERY DISTRICT
HAMPSHIRE COUNTY



UTILITIES ENCOUNTERED

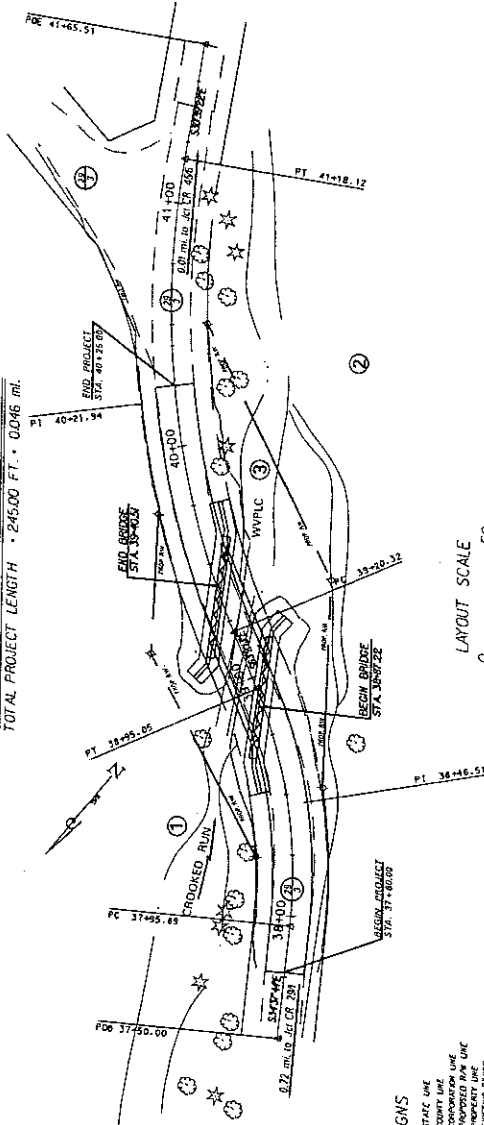
NONE



TYPE OF CONSTRUCTION
BRIDGE NO. 14-29/3-074,
GRADE, DRAIN, & PAVE

PROJECT LENGTH

BEGIN PROJECT STATION 37+80.00
END PROJECT STATION 40+25.00
TOTAL PROJECT LENGTH • 245.00 FT. • 0.046 MI.



LAYOUT SCALE
0 50

CONVENTIONAL SIGNS

- STAT. LINE
- PROPOSED HIGHWAY CENTERLINE
- PROPOSED ROW LINE
- PROPOSED SIDEWALK
- PROPOSED FENCE
- EDGE OF STREAM
- PROPOSED BOARD WALK
- PROPOSED DRAIN
- RAILROAD
- GAS LINE
- WATER LINE
- TELEPHONE LINE
- TELEPHONE POLE
- POWER POLE
- OVERHEAD POWER AND TELEPHONE POLE
- TRAIL
- SHED
- RIGHT OF WAY MARKER

SCALES
PLAN HOR. 0 50
PROFILE VERT. 0 5

DESIGN DESIGNATION	
A. D. T. ARBELL - JR.	
A. D. T. (C.D. I.)	
D. H. V.	
O.	
F.	
V.	

NO.	TITLE SHEET	DESCRIPTION
1	ESTIMATE OF QUANTITIES	
2	GENERAL NOTES	
3	MAINTENANCE OF TRAFFIC	
4	PLAN SHEET	
5	PROPOSED PHYSICAL SECTION	
6	PROPOSED BRIDGE PLANS	
7-18	BRIDGE PLANS	
19-21	CROSS SECTIONS	

INDEX TO SHEETS

APPROVED: [Signature]
DISTRICT ENGINEER

BRIDGE NO. 14-29/3-074

PUBLIC PROJECT NO.	STATE PROJECT NUMBER	COUNTY	SHEET NO.	TOTAL SHEETS
6-14	0314-8K-7-0-74	HAMPSHIRE	7	31

CONTROL ELEVATIONS

CODE	ABUTMENT 1	ABUTMENT 2
1	598.21	597.06
2	598.15	595.01

CONTROL ELEVATIONS ESTABLISHED FROM SURVEY

CONTROL STATIONING

CODE	LOCATION	STATIONING	ABUT. 1	ABUT. 2
1	ROADWAY AT BEARING	34+41.49		
2	ROADWAY AT BEARING	34+08.48		

CONTROL STATIONING ESTABLISHED FROM SURVEY

CONTROL DIMENSIONS

DIMENSION	CODE	VALUE
SKINDED CROSSING	A	80'-0"
LENGTH OF BEAMS, OUT-TO-OUT	B	48'-4"
DECK WIDTH, OUT-TO-OUT	D	31'-0"
NUMBER OF BEAMS	E	7
BEAM LENGTH & BEARING TO END OF BEAM TO & OF DRAIN	F	44'-0"
NUMBER OF ORAINS, EACH SIDE	H	N/A
PERPENDICULAR DISTANCE FROM & BEARING TO END OF BEAM TO FIRST QUARRAIL POST	I	N/A
PERPENDICULAR DISTANCE FROM & BEARING TO END OF BEAM TO EACH SIDE	J	4'-0"
DISTANCE FROM END OF BEAM TO QUARRAIL POSTS	K	1'-0"
NUMBER OF QUARRAIL POSTS EACH SIDE	L	18
DISTANCE FROM & BEARING TO END OF BEAM PARALLEL TO & ABUT.	M	8"
DISTANCE FROM & BEARING TO END OF BEAM PARALLEL TO & ROADWAY	N	8"
PERPENDICULAR WIDTH OF EXPANSION OPENING	P	1"
GRADE S	R	-1.28%

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
BOBBER-DIT	PRESTRESSED CONCRETE BEAM	LF	318.5
SPALLER-DIT	PAV. BEARING COURSE	TON	12

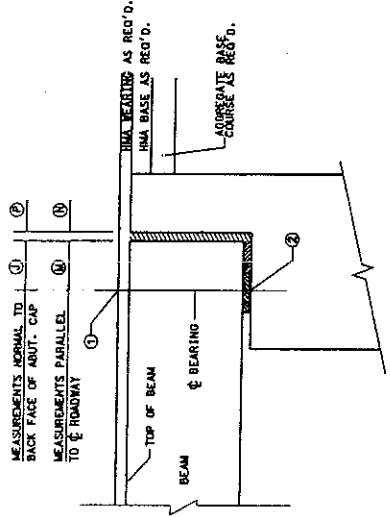
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

PINOAK BRIDGE
OVER
CROOKED RUN
IN
HAMPSHIRE COUNTY

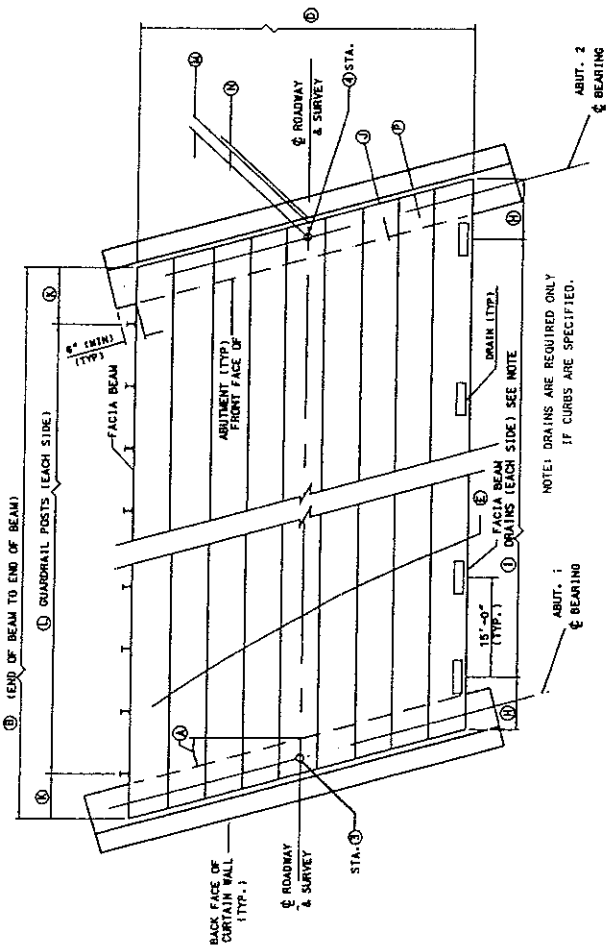
BRIDGE NUMBER
14-2973-0-74
BRIDGE DESIGN NO.
1

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES
PREPARED BY NOT RECORDED
(UNDER PLAN)
SUPERSTRUCTURE PLAN - RIGHT HANDWAY SIDE
SHEET BR-1A

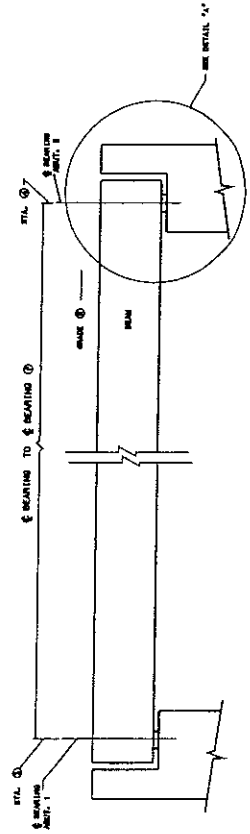
IF BEARING SURFACE IS OBEYED, AFFECTED ELEVATIONS SHALL BE BASED ON THE TOP SURFACE OF THE BEAM.



CONTROL ELEVATIONS & BEARING DIMENSIONS ALONG & ROADWAY
DETAIL "A"



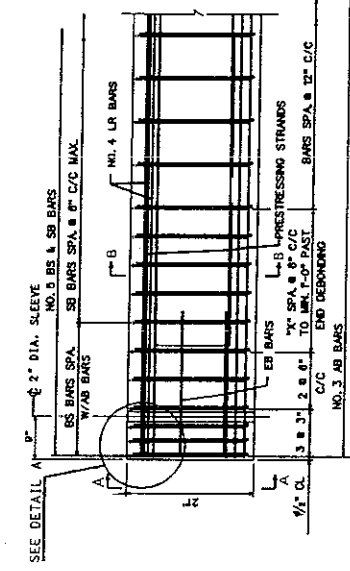
SUPERSTRUCTURE LAYOUT PLAN



SUPERSTRUCTURE ELEVATION ALONG & ROADWAY

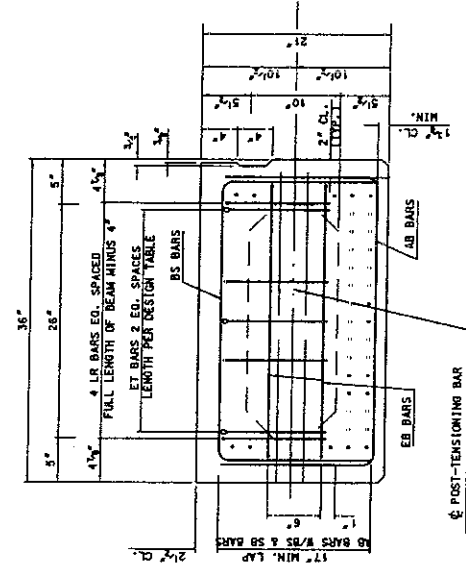
STATE ROUTE NO.	PROJECT NUMBER	COUNTY	SHEET NO.	TOTAL SHEETS
11	1314-017-0-14	HAMPSHIRE	13	21

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 CAGE ENTIRE LENGTH OF BEAM.
 5. THIS SHEET TO BE USED WITH STANDARD SHEET NUMBERS BR-B01, BR-B02, BR-B03, BR-B04, BR-B05, BR-B06, BR-B07, BR-B08, BR-B09, BR-B10, BR-B11, AND BR-B12 FOR DETAIL OF 21" DIA. ANCHOR SLEEVE.



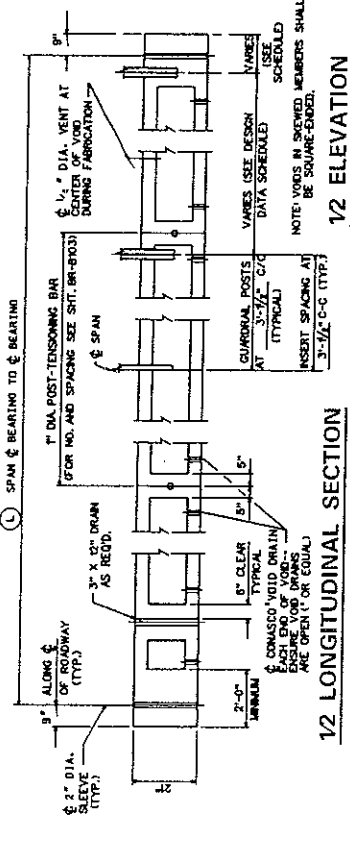
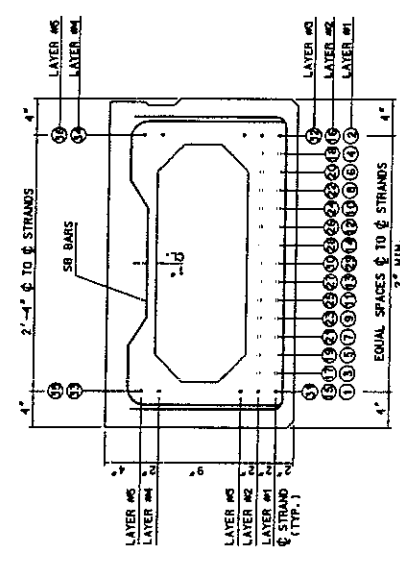
NOTE: SEE SHEET BR-B01 FOR REINFORCING BAR DETAILS AND FOR REINFORCEMENT LAYOUT DETAILS FOR SKewed BEAMS.

REINFORCING STEEL ELEV. VIEW

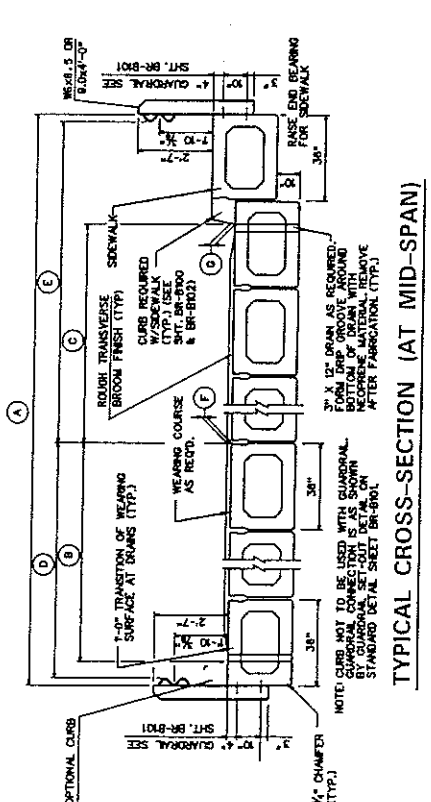


**SECTION A-A
TYPICAL BEAM REINFORCEMENT**

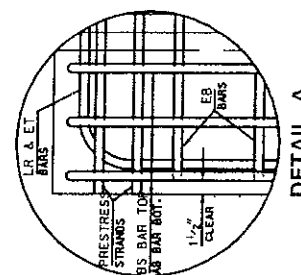
**SECTION B-B
TYPICAL BEAM PRESTRESSING**



12 LONGITUDINAL SECTION



12 ELEVATION



DETAIL A

CODE	DESCRIPTION	VALUE	DESCRIPTION	VALUE
A	DECK WIDTH, OUT TO OUT	21'-0"	HOT-LAND BITUMINOUS CONCRETE REQUIRED (YES OR NO)	YES
B	DISTANCE FROM ROADWAY TO FACE OF CURB (NO SIDEWALK)	N/A	GUARDRAIL REQUIRED (YES OR NO)	YES
C	DISTANCE FROM ROADWAY TO FACE OF CURB (WITH SIDEWALK)	N/A	DRAINS REQUIRED (YES OR NO)	NO
D	DISTANCE FROM ROADWAY TO FACE OF GUARDRAIL (NO SIDEWALK)	10'-0"	CURTAIN WALL REQUIRED (YES OR NO)	YES
E	DISTANCE FROM ROADWAY TO FACE OF GUARDRAIL (WITH SIDEWALK)	N/A	GUARDRAIL SETOUT REQUIRED (YES OR NO)	YES
F	THICKNESS OF WEARING COURSE AT ROADWAY	3"	TOE PLATE REQUIRED (YES OR NO)	YES
G	THICKNESS OF WEARING COURSE AT FACE OF CURB	4"		
H	SPAN LENGTH, FROM BEARING TO BEARING	44'		

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

**PINOAK BRIDGE
OVER
CROOKED RUN
IN
HAMPSHIRE COUNTY**

21" PRESTRESSED BOX BEAM
DESIGN & ASSEMBLY DETAILS

BRIDGE NO. 14-29/3-0-14
 SHEET NO. 13

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

21" PRESTRESSED CONCRETE
BOX BEAMS

DESIGN & ASSEMBLY DETAILS
 SHEET BR-B14

PROJECT NO.	314-27-0-74
COUNTY	HAMPSHIRE
SHEET NO.	14
TOTAL SHEETS	21

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

DESIGN DATA FOR 21" DEPTH BOX BEAM

SPAN LENGTH ϕ TO ϕ BEARING	30'	32'	34'	36'	38'	40'	42'	44'	46'	48'	(4)	(4)	(4)	(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"			
NO. OF GRINDING STRIPS PER DIA. LOW RELAX. STRANDS - AREA/STRAND - 0.153 SQ. IN.	8	10	10	12	12	14	14	15	16	17				
STRAND POSITION NUMBER	1,2,7,8, 13,14 35 & 36	1,2,5,6, 9,10,13,14 35 & 36	1,2,5,6, 9,10,13,14 35 & 36	1,2, 5 thru 10, 13,14, 35 & 36	1,2, 5 thru 10, 13,14, 35 & 36	1 thru 12, 35 & 36	1 thru 12, 35 & 36	1 thru 12, 35 & 36	1 thru 12, 35 & 36	1 thru 12, 15,16,29, 35 & 36				
PRESTRESSING FORCE AT DETENSION (KIPS/BEAM)	241	299	299	356	357	413	413	441	470	488				
FINAL PRESTRESSING FORCE (KIPS/BEAM)	223	273	274	321	323	368	370	393	417	440				
ULTIMATE DESIGN MOMENT (FT-KIPS/BEAM)	349	397	444	493	542	592	643	695	746	797				
ULTIMATE RESISTING MOMENT (FT-KIPS/BEAM)	375	481	481	583	583	679	725	725	797	801				
TOTAL NUMBER OF DEBONDED STRANDS	-	-	-	-	-	-	-	-	-	-				
LAYER 1-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	-	-	-	-	-	-	-	29 ϕ 3'-0"	-	-				
LAYER 2-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END	-	-	-	-	-	-	-	-	-	-				
END TENSION STEEL EACH END (SIZE & LENGTH)	3-#4 x 6'-6"	3-#4 x 7'-0"	3-#4 x 7'-0"	3-#4 x 8'-0"	3-#4 x 8'-0"	3-#4 x 8'-6"	3-#4 x 9'-0"	3-#4 x 9'-6"	3-#4 x 10'-0"	3-#4 x 10'-0"				
DETONATION, INCHES \rightarrow UPWARD (in)	0.08	0.18	0.18	0.30	0.31	0.46	0.46	0.55	0.61	0.71				
ERUCTION, INCHES \rightarrow UPWARD (in)	0.11	0.27	0.26	0.47	0.45	0.70	0.69	0.82	0.88	1.02				
FINAL - INCHES \rightarrow UPWARD (in)	0.08	0.28	0.24	0.40	0.43	0.72	0.66	0.78	0.79	0.91				
WEIGHT OF TYPICAL BEAM INCLUDING DIAPHRAGM (LBS) (LXZ)	9-1	9-6	10-1	10-6	11-2	11-7	12-2	12-7	13-4	13-9				
NO. OF INSERTS	10	11	12	12	13	14	14	15	16	16				
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"	1'-9"				
ϕ OF FIRST INSERT TO ϕ SECOND INSERT EACH END	3'-0 3/4"	1'-10 1/4"	1'-10 1/4"	2'-10 1/4"	2'-4 1/2"	1'-9 3/4"	2'-9 3/4"	2'-3"	1'-8 1/4"	2'-8 1/4"				

- NOTES:
- BEAM WEIGHTS LISTED IN DESIGN TABLES ARE APPROXIMATE AND ARE BASED ON ZERO SKEW AND DIAPHRAGM SPA. 15'-0" C-C MAX. ADDITION OF SKEW AND EXTERIOR DIAPHRAGMS WILL INCREASE WEIGHT.
 - FOR STANDARD CURVE, ADD 93 LBS (0.05 TON) PER CURB PER FOOT OF BEAM.
 - CAMBER VALUES LISTED IN DESIGN TABLES ARE APPROXIMATE AND ARE FOR COMPARISON PURPOSES ONLY. NOT TO BE USED FOR INSPECTION PURPOSES UNLESS PERMITTED BY THE DIRECTOR OF STRUCTURES DIVISION.
 - DATA LISTED IN THE DESIGN TABLE MAY NOT BE VALID FOR SPAN LENGTHS THAT FALL OUTSIDE THE RANGE OF SPAN LENGTHS FOR WHICH THE DATA WAS DEVELOPED. CALCULATE AND ENTER SPECIFIC DATA FOR BEAM LENGTHS OUTSIDE THE RANGE.
 - THIS SHEET TO BE USED WITH STANDARD SHEET NUMBERS BR-10R BR-1A, BR-B21A, BR-B10D, BR-B10T, BR-B10Z, BR-B10J, AND BR-B10K.
 - MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
 - DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT SKEWED BEAM ENDS MAY TWIST OR WARP BEYOND THE BEARING AT THE BEARINGS. CONTRACTOR IS REQUIRED TO CORRECT AT THE TIME OF BEAM ERECTION BEFORE THE BEARING IS PLACED. METHOD OF CORRECTION SHALL PROVIDE EVEN TOTAL BEARING ON THE PADS AND A LEVEL TO BEAM SURFACE. METHOD SHALL BE A PRE-APPROVED METHOD BY DIRECTOR OF STRUCTURES DIVISION.
 - 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

PINOAK BRIDGE
 OVER
CROOKED RUN
 IN
HAMPSHIRE COUNTY

DESIGN TABLE FOR 21"
 PRESTRESSED BOX BEAM

BRIDGE NUMBER
 14-25A14-0.74

DATE: 4-28-25

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES

DESIGN TABLE FOR 21"
 PRESTRESSED BOX BEAM

STANDARD SHEET BR-021B

SHEET NO.	DATE	PROJECT NUMBER	COUNTY
18	5/14-84/1-6-14	5	HAMPSHIRE

REVISION	DESCRIPTION	DATE
1	REVISED PER COMMENTS FROM ARCHITECT	5/14-84
2	REVISED PER COMMENTS FROM ARCHITECT	5/21-84
3	REVISED PER COMMENTS FROM ARCHITECT	6-14-84

DATE	BY
11/08	HLK
11/08	HLK

BRIDGE NO.	SECTION NO.
14-29/3-0-14	1

TO FACILITATE CURBFORM FABRICATION STANDARDS LEAD IN GALVANIZED CURB BEAMS MAY BE SAW CUT AND WELDED TOGETHER WITH JOINTS AND HOLE TO BE FILLER FILLER BEHIND ALL LOCATIONS. ALL JOINTS AND HOLE TO BE FILLER FILLER AFTER COMPLETION OF DRAINING OPERATIONS.

2" DIA. HOLE AT EACH END HOLE TO BE FILLED WITH PORTLAND CEMENT MORTAR MEETING THE REQUIREMENTS OF ASHTO SECTION 708.3. AT FRESH END FILL WITH BITUMINOUS JOINT FILLER MEETING REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR THE EXISTING ZONE.

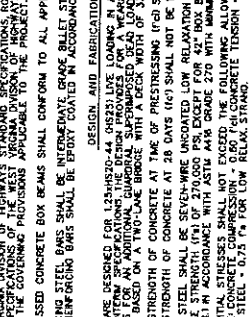
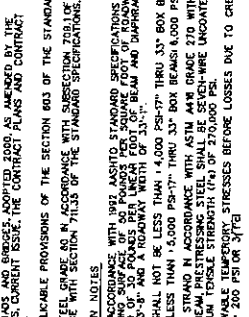
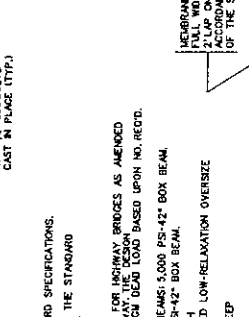
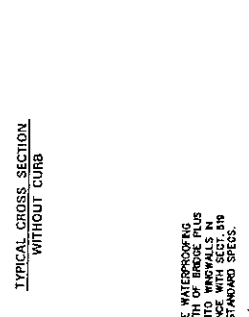
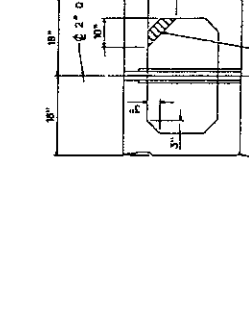
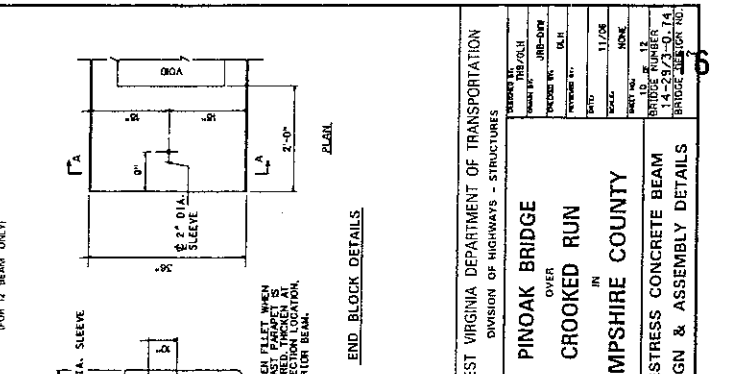
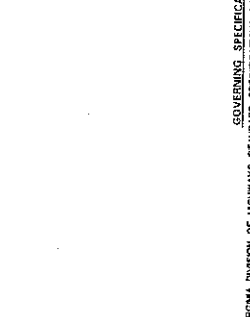
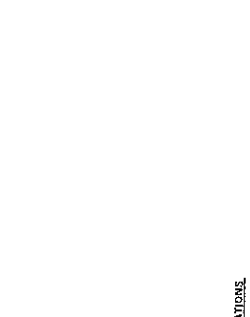
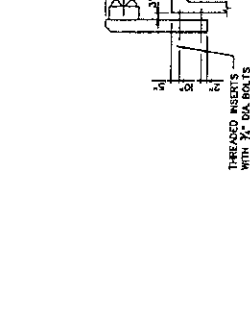
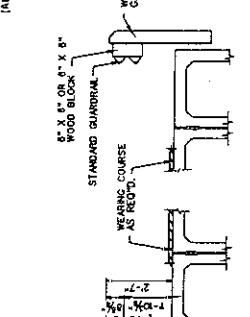
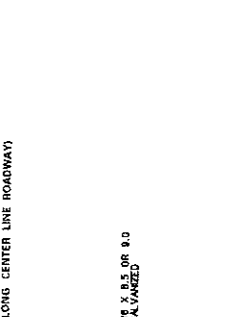
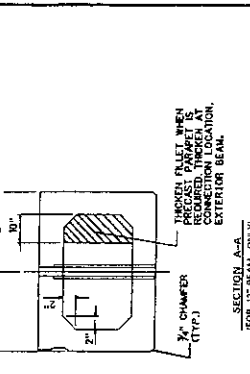
NOTE: JOINTS AS DESCRIBED WITH SUBSTITUTION TYPE WASHDIP W2320 OR PVC SPECIFICATIONS NON-REACTIVE TO CONCRETE SURFACE OF BEAM.

1" DIA. X 2 1/2" H-HAT FOR 12" BEAMS ONLY INVERTED ANCHOR BOLTS OR NO. 8 GALV. DEFORMED BEAR BARS FOR 12" BEAMS AND NO. 8 GALV. DEFORMED BEAR BARS FOR 14" BEAMS AND NO. 8 GALV. DEFORMED BEAR BARS FOR 18" BEAMS. ALL ANCHOR BOLTS AND BEAR BARS TO BE EMBEDDED 1'-0" FOR 12" BEAM, 1'-4" FOR 14" BEAM, 1'-8" FOR 18" BEAM.

PROFORMED JOINT FILLER FULL WIDTH OF BRIDGE DECK PLUS 1" EXTENSION PAST EXTERIOR BEAM FACE. PREPARED JOINT FILLER MEETING THE REQUIREMENTS OF ASHTO SECTION 708.3. AS REQUIRED. (TYPE 1) SPONGE RUBBER - NO COLOR REQUIRED. PLUS ADDITIONAL 1/4" DIA. HAT.

PREPARED JOINT FILLER FULL WIDTH OF BRIDGE DECK PLUS 1" EXTENSION PAST EXTERIOR BEAM FACE. 3/4" BEARING - 1" JOINT FILLER 1/2" THICKNESS SPEC. PLUS ADDITIONAL 1/4" DIA. HAT.

PROFORMED JOINT FILLER MEETING THE REQUIREMENTS OF ASHTO SECTION 708.3. AS REQUIRED. (TYPE 2) SPONGE RUBBER - NO COLOR REQUIRED. PLUS ADDITIONAL 1/4" DIA. HAT.



THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

PINOAK BRIDGE
OVER
CROOKED RUN
IN
HAMPSHIRE COUNTY
PRESTRESS CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

STANDARD SHEET BR-8100

- 1) ALL MEMBERS ARE DESIGNED FOR 125% WINDLOADS IN ACCORDANCE WITH WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AS AMENDED AND PREPARED FOR THE DESIGN OF THE BRIDGE. THE DESIGN IS BASED ON A TWO-LANE BRIDGE WITH A DECK WIDTH OF 33'-0" AND A SHOULDER WIDTH OF 3'-0".
- 2) COMPRESSION STRENGTH OF CONCRETE AT TIME OF PRESTRESSING (7 DAYS) SHALL NOT BE LESS THAN 4,000 PSI (27.7 MPa) THROUGH 33" BOX BEAMS, 5,000 PSI (34.5 MPa) THROUGH 42" BOX BEAMS, AND 5,000 PSI (34.5 MPa) THROUGH 60" BOX BEAMS.
- 3) PRESTRESSING STEEL SHALL BE SEVEN-WIRE UNCOATED LOW RELAXATION STRAND IN ACCORDANCE WITH ASTM A420 GRADE 210 WITH A TENSILE STRENGTH OF 270,000 PSI EXCEPT FOR 42" BOX BEAM PRESTRESSING STEEL SHALL BE SEVEN-WIRE UNCOATED LOW RELAXATION OVERSIZE (ASTM A420) IN ACCORDANCE WITH WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AS AMENDED AND PREPARED FOR THE DESIGN OF THE BRIDGE.
- 4) CALCULATED INITIAL STRESSES SHALL NOT EXCEED THE FOLLOWING: 50% TENSION IN STRANDS - 200 PSI OR 1.37 MPa; 50% TENSION IN STEEL - 0.80% TENSION IN STEEL - 200 PSI OR 1.37 MPa; CONCRETE COMPRESSION - 0.40% TENSION IN CONCRETE.
- 5) WHERE THE CALCULATED INITIAL STRESSES EXCEED THE ALLOWABLE STRESS VALUES, STRONG REINFORCEMENT OR TOP STRAINS SHALL BE PROVIDED TO REDUCE THE CALCULATED VALUES TO BELOW THE ALLOWABLE VALUES. ADDITIONALLY, BONDED NON-PRESTRESSED REINFORCEMENT SHALL BE PROVIDED.
- 6) ULTIMATE LOAD CAPACITY SHALL NOT BE LESS THAN 1.50 (D.L. + S.L.L. + I.) WHERE S = 1.0 FOR FACTORY PRODUCED PRECAST PRESTRESSED MEMBERS.
- 7) ALL ANCHOR BOWELS, NON-HEADED ANCHOR BOLTS, GROUND ATTACHMENT HARDWARE, GROUND POSTS, CONNECTION PLATES, AND DRUM PLATES SHALL CONFORM TO ASHTO M163 AND SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASHTO WITH EXCEPT WHERE NOTED. ALL CAST-IN-PLACE GRADE 40 THROUGH 60S REINFORCEMENT SHALL MEET THE REQUIREMENTS OF ASHTO M163, ASTM A618 OR A572.
- 8) ALL REINFORCEMENT SHALL BE HEAVY METAL AND SHALL MEET ASHTO M163. ALL WELDS SHALL BE IN ACCORDANCE WITH ASHTO M163. ALL WELDS SHALL BE HEAVY METAL AND SHALL MEET ASHTO M163. ALL WELDS SHALL BE HEAVY METAL AND SHALL MEET ASHTO M163.
- 9) ALL WELDS TO BE ACCOMPLISHED PER TO GALVANIZING EXCEPT WHEN NOTED.
- 10) GROUND END TERMINAL SECTIONS SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARD DETAILS BOOK VOLUME 1, CURRENT ISSUE.
- 11) DEFORMING OF STRINGS SHALL BE ACCOMPLISHED BY TAPPING OR TIGHT-FIT TURNING LENGTH OF DEFORMING FROM ENDS OF STRINGS SHALL BE ACCOMPLISHED BY SPLICING STRINGS IN A SYMMETRICAL FASHION ABOUT THE CL OF THE BEAM. NUMBER AND LENGTHS OF SPLICED STRINGS SHALL BE DETERMINED BY THE DESIGNER. ALL GROUND END TERMINAL SECTIONS SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF ASHTO M163. ALL GROUND END TERMINAL SECTIONS SHALL BE DESIGNED TO MEET THE REQUIREMENTS OF ASHTO M163.
- 12) DEFLECTIONS, JOINT STRESSES, TOTAL PRESTRESS FORCE IN BEAM AT SERVICE LOADS AFTER ALL LOSSES HAVE OCCURRED, FINAL PRESTRESS FORCE/TOTAL PRESTRESS FORCE IN BEAM AT RELEASE AFTER LOSSES DUE TO ELASTIC SHORTENING, CRIPPLE AND SHORING, JOINT STRESSES, TOTAL PRESTRESS FORCE IN BEAM AT SERVICE LOADS AFTER ALL LOSSES HAVE OCCURRED.
- 13) BRIDGE CRACKS: DUE TO THE DESIGN OF THE STANDARD ELASTOMERIC BEARING PADS, BRIDGE GRADES SHALL BE LIMITED TO 3 PER CENT OR LESS WHEN USING 100 MESH TOLERANCES SHALL BE AS SPECIFIED BY DIVISION VI, SECTION 6.4 OF THE P.C.I. MANUAL FOR QUALITY CONTROL, 3RD EDITION.
- 14) TOLERANCES: TOLERANCES SHALL BE AS SPECIFIED BY DIVISION VI, SECTION 6.4 OF THE P.C.I. MANUAL FOR QUALITY CONTROL, 3RD EDITION.
- 15) BR-8100, BR-8102, BR-8103, AND BR-8104, AS APPLICABLE.

TO FACILITATE CURBFORM FABRICATION STANDARDS LEAD IN GALVANIZED CURB BEAMS MAY BE SAW CUT AND WELDED TOGETHER WITH JOINTS AND HOLE TO BE FILLER FILLER BEHIND ALL LOCATIONS. ALL JOINTS AND HOLE TO BE FILLER FILLER AFTER COMPLETION OF DRAINING OPERATIONS.

2" DIA. HOLE AT EACH END HOLE TO BE FILLED WITH PORTLAND CEMENT MORTAR MEETING THE REQUIREMENTS OF ASHTO SECTION 708.3. AT FRESH END FILL WITH BITUMINOUS JOINT FILLER MEETING REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR THE EXISTING ZONE.

NOTE: JOINTS AS DESCRIBED WITH SUBSTITUTION TYPE WASHDIP W2320 OR PVC SPECIFICATIONS NON-REACTIVE TO CONCRETE SURFACE OF BEAM.

1" DIA. X 2 1/2" H-HAT FOR 12" BEAMS ONLY INVERTED ANCHOR BOLTS OR NO. 8 GALV. DEFORMED BEAR BARS FOR 12" BEAMS AND NO. 8 GALV. DEFORMED BEAR BARS FOR 14" BEAMS AND NO. 8 GALV. DEFORMED BEAR BARS FOR 18" BEAMS. ALL ANCHOR BOLTS AND BEAR BARS TO BE EMBEDDED 1'-0" FOR 12" BEAM, 1'-4" FOR 14" BEAM, 1'-8" FOR 18" BEAM.

PROFORMED JOINT FILLER FULL WIDTH OF BRIDGE DECK PLUS 1" EXTENSION PAST EXTERIOR BEAM FACE. PREPARED JOINT FILLER MEETING THE REQUIREMENTS OF ASHTO SECTION 708.3. AS REQUIRED. (TYPE 1) SPONGE RUBBER - NO COLOR REQUIRED. PLUS ADDITIONAL 1/4" DIA. HAT.

PREPARED JOINT FILLER FULL WIDTH OF BRIDGE DECK PLUS 1" EXTENSION PAST EXTERIOR BEAM FACE. 3/4" BEARING - 1" JOINT FILLER 1/2" THICKNESS SPEC. PLUS ADDITIONAL 1/4" DIA. HAT.

PROFORMED JOINT FILLER MEETING THE REQUIREMENTS OF ASHTO SECTION 708.3. AS REQUIRED. (TYPE 2) SPONGE RUBBER - NO COLOR REQUIRED. PLUS ADDITIONAL 1/4" DIA. HAT.

TO FACILITATE CURBFORM FABRICATION STANDARDS LEAD IN GALVANIZED CURB BEAMS MAY BE SAW CUT AND WELDED TOGETHER WITH JOINTS AND HOLE TO BE FILLER FILLER BEHIND ALL LOCATIONS. ALL JOINTS AND HOLE TO BE FILLER FILLER AFTER COMPLETION OF DRAINING OPERATIONS.

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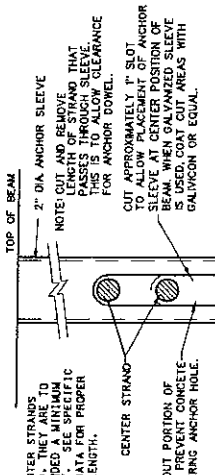
PROFORMED JOINT FILLER FULL WIDTH OF BRIDGE DECK PLUS 1" EXTENSION PAST EXTERIOR BEAM FACE. PREPARED JOINT FILLER MEETING THE REQUIREMENTS OF ASHTO SECTION 708.3. AS REQUIRED. (TYPE 1) SPONGE RUBBER - NO COLOR REQUIRED. PLUS ADDITIONAL 1/4" DIA. HAT.

PREPARED JOINT FILLER FULL WIDTH OF BRIDGE DECK PLUS 1" EXTENSION PAST EXTERIOR BEAM FACE. 3/4" BEARING - 1" JOINT FILLER 1/2" THICKNESS SPEC. PLUS ADDITIONAL 1/4" DIA. HAT.

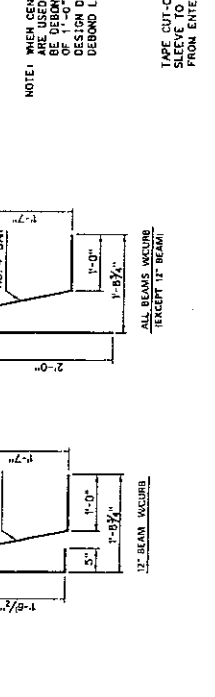
PROFORMED JOINT FILLER MEETING THE REQUIREMENTS OF ASHTO SECTION 708.3. AS REQUIRED. (TYPE 2) SPONGE RUBBER - NO COLOR REQUIRED. PLUS ADDITIONAL 1/4" DIA. HAT.

PUBLIC STATE	PROJECT NUMBER	COUNTY	SHEET TOTAL
ROADS DIST.	NO.		OF SHEETS
V.V.M.	5	HAMPSHIRE	16
			21

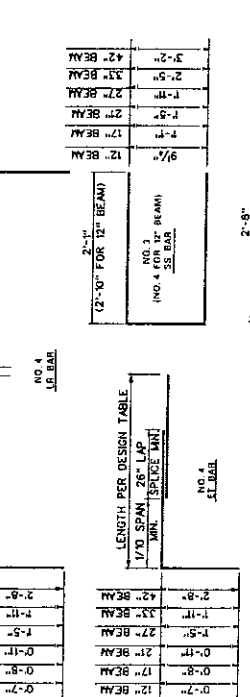
TO ASCERTAIN THE 1/2" DIAMETER ANCHOR SLEEVE WHEN CENTER STRANDS 1" OR 1 1/2" ARE SPECIFIED STRANDS ARE USED. THEY ARE TO BE DEBONDED A MINIMUM OF 3'-0" TO 4'-0" FROM THE CENTER LINE OF THE STRAND AS LONG AS THEY REMAIN SYMMETRICAL ABOUT THE CENTER LINE OF THE STRAND. WHEN NECESSARY TO MOVE STRANDS VERTICALLY, THE ENGINEER SHALL CHECK DESIGN OF NEW PATTERN AND COMPLETE DESIGN TABLE WITH NEW DATA.



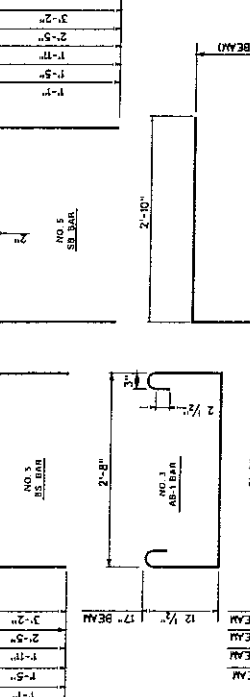
ANCHOR SLEEVE DETAILS
USE WHEN CENTER STRAND IS SPECIFIED



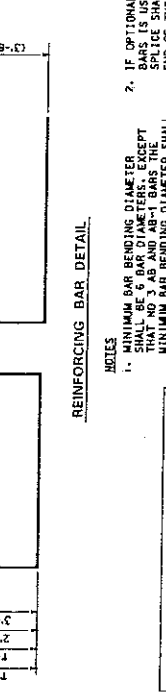
LIFTING LOOP
BLOCKOUT DETAILS



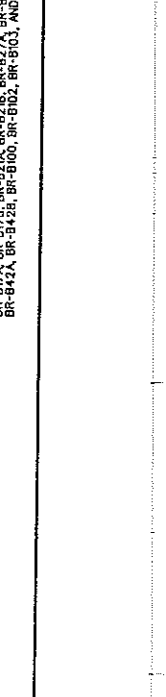
SHEAR REINFORCEMENT DETAIL
SKEWED BEAMS



BLOCKOUT DETAIL



ELASTOMERIC BEARING PAD DETAIL



LIFT DETAILS

GRADE	BAR NO.	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7
20"	NO. 3	26"	33"	38"	45"	
24"	NO. 3	26"	33"	38"	45"	
28"	NO. 3	26"	33"	38"	45"	
32"	NO. 3	26"	33"	38"	45"	
36"	NO. 3	26"	33"	38"	45"	
40"	NO. 3	26"	33"	38"	45"	
44"	NO. 3	26"	33"	38"	45"	
48"	NO. 3	26"	33"	38"	45"	
52"	NO. 3	26"	33"	38"	45"	
56"	NO. 3	26"	33"	38"	45"	
60"	NO. 3	26"	33"	38"	45"	
64"	NO. 3	26"	33"	38"	45"	
68"	NO. 3	26"	33"	38"	45"	
72"	NO. 3	26"	33"	38"	45"	
76"	NO. 3	26"	33"	38"	45"	
80"	NO. 3	26"	33"	38"	45"	
84"	NO. 3	26"	33"	38"	45"	
88"	NO. 3	26"	33"	38"	45"	
92"	NO. 3	26"	33"	38"	45"	
96"	NO. 3	26"	33"	38"	45"	
100"	NO. 3	26"	33"	38"	45"	

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

PINOAK BRIDGE
OVER
CROOKED RUN
IN
HAMPSHIRE COUNTY
PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

STANDARD SHEET BR-5101

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES
DESIGN & ASSEMBLY DETAILS

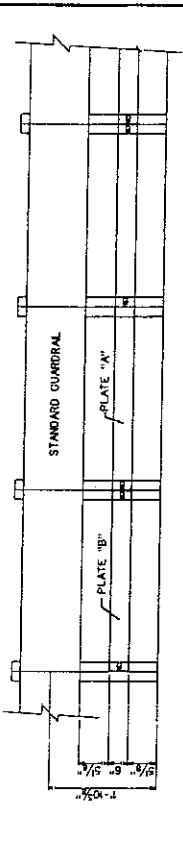
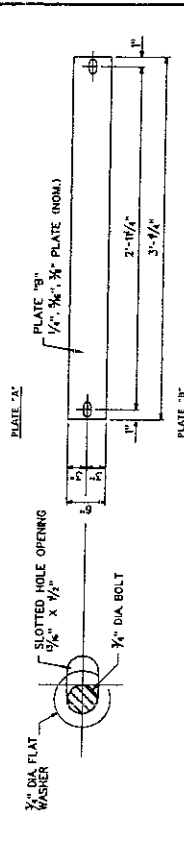
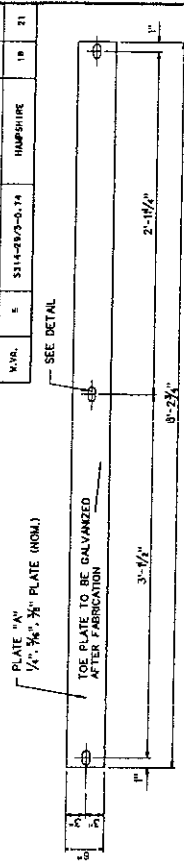
DATE: 4-16-95
BY: J.H.
CHECKED: J.H.

NOTES:

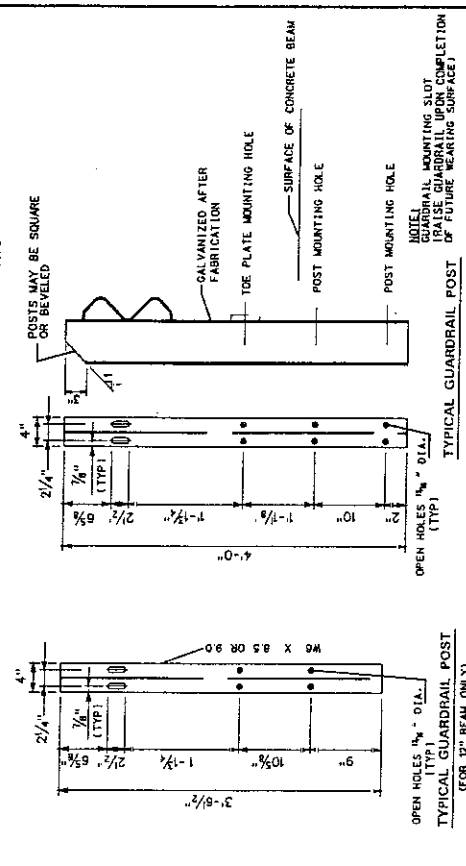
- MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS EXCEPT FOR 1/2" DIAMETER ANCHOR SLEEVES. ALL DIMENSIONS ARE OUT TO OUT.
- IF OPTIONAL SPLICING OF LR AND ET BARS IS USED, TERMINATION OF LAP JOINTS SHALL BE NO CLOSER TO THE END OF BEAM THAN 1/3 THE SPAN LENGTH. ADDITIONALLY ALL LAP SPLICES SHALL BE CONTACT TYPE.

NOTE: SLEEVES TO BE USED WITH STANDARD SHEET BR-1 OR BR-1A, BR-52A, BR-52B, BR-52C, BR-52D, BR-52E, BR-52F, BR-52G, BR-52H, BR-52I, BR-52J, BR-52K, BR-52L, BR-52M, BR-52N, BR-52O, BR-52P, BR-52Q, BR-52R, BR-52S, BR-52T, BR-52U, BR-52V, BR-52W, BR-52X, BR-52Y, BR-52Z, BR-52AA, BR-52AB, BR-52AC, BR-52AD, BR-52AE, BR-52AF, BR-52AG, BR-52AH, BR-52AI, BR-52AJ, BR-52AK, BR-52AL, BR-52AM, BR-52AN, BR-52AO, BR-52AP, BR-52AQ, BR-52AR, BR-52AS, BR-52AT, BR-52AU, BR-52AV, BR-52AW, BR-52AX, BR-52AY, BR-52AZ, BR-52BA, BR-52BB, BR-52BC, BR-52BD, BR-52BE, BR-52BF, BR-52BG, BR-52BH, BR-52BI, BR-52BJ, BR-52BK, BR-52BL, BR-52BM, BR-52BN, BR-52BO, BR-52BP, BR-52BQ, BR-52BR, BR-52BS, BR-52BT, BR-52BU, BR-52BV, BR-52BW, BR-52BX, BR-52BY, BR-52BZ, BR-52CA, BR-52CB, BR-52CC, BR-52CD, BR-52CE, BR-52CF, BR-52CG, BR-52CH, BR-52CI, BR-52CJ, BR-52CK, BR-52CL, BR-52CM, BR-52CN, BR-52CO, BR-52CP, BR-52CQ, BR-52CR, BR-52CS, BR-52CT, BR-52CU, BR-52CV, BR-52CW, BR-52CX, BR-52CY, BR-52CZ, BR-52DA, BR-52DB, BR-52DC, 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PUBLIC STATE	PROJECT NUMBER	COUNTY	SHEET
NO. 1	5114-89/2-5-74	HAMPSHIRE	19
DATE			21



TOE PLATE DETAILS
FOR USE ON STRUCTURES WITH NO CURB



THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

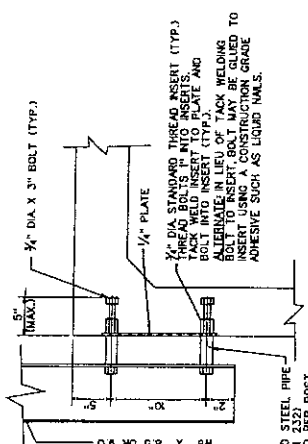
PINOAK BRIDGE
OVER
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PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

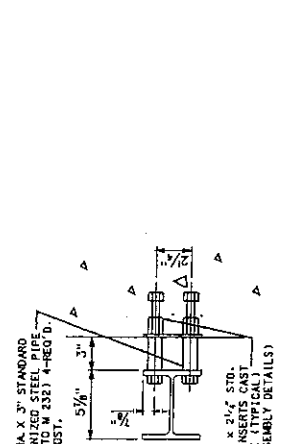
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DATE: 11-28-85

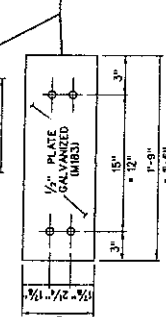
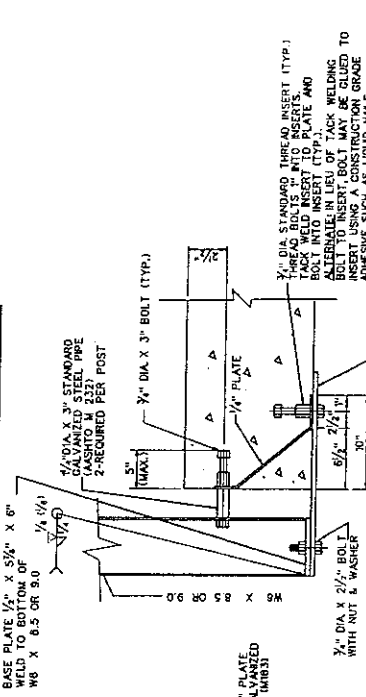
STANDARD SHEET BR-B104



GUARDRAIL SET-OUT DETAIL

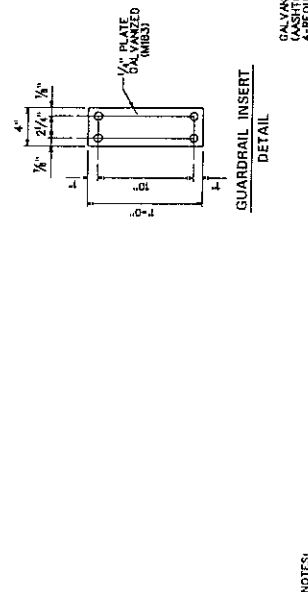


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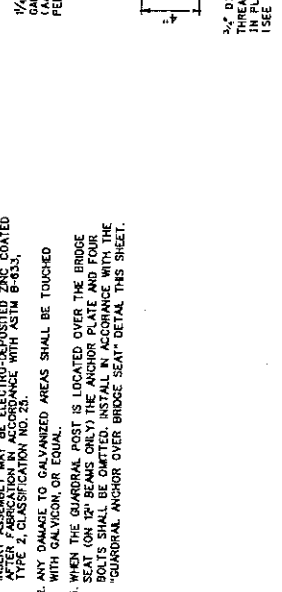


GUARDRAIL SET-OUT DETAIL
(FOR 12" BEAM ONLY)

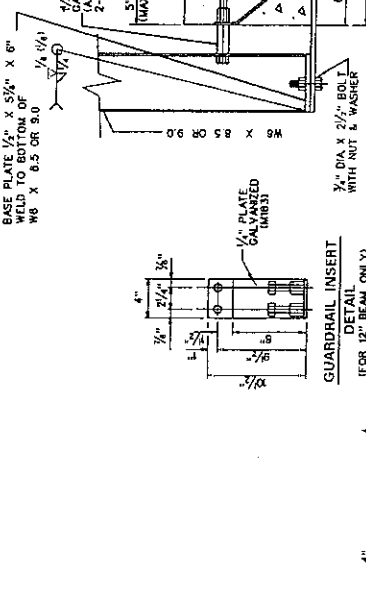
NOTES:
1. ENTIRE ASSEMBLY IS TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION. GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A 123. GALVANIZING SHALL BE ELECTRO-DEPOSITED ZINC COATED AFTER FABRICATION. GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM B-633, TYPE 2, CLASSIFICATION NO. 25.
2. ANY DAMAGE TO GALVANIZED AREAS SHALL BE TOUCHED UP WITH GALVICON, OR EQUAL.
3. WHEN THE GUARDRAIL POST IS LOCATED OVER THE BRIDGE SEAT (ON 12" BEAMS ONLY) THE ANCHOR PLATE AND BOLT SHALL BE OMITTED. INSTALL IN ACCORDANCE WITH THE "GUARDRAIL ANCHOR OVER BRIDGE SEAT" DETAIL, THIS SHEET.



GUARDRAIL INSERT DETAIL



GUARDRAIL INSERT DETAIL
(FOR 12" BEAM ONLY)



GUARDRAIL ANCHOR OVER BRIDGE SEAT
(FOR 12" BEAM ONLY)

THIS SHEET TO BE USED WITH STANDARD SHEET BR-100, BR-101, BR-102, BR-103, BR-104, BR-105, BR-106, BR-107, BR-108, BR-109, BR-110, BR-111, BR-112, BR-113, BR-114, BR-115, BR-116, BR-117, BR-118, BR-119, BR-120, BR-121, BR-122, BR-123, BR-124, BR-125, BR-126, BR-127, BR-128, BR-129, BR-130, BR-131, BR-132, BR-133, BR-134, BR-135, BR-136, BR-137, BR-138, BR-139, BR-140, BR-141, BR-142, BR-143, BR-144, BR-145, BR-146, BR-147, BR-148, BR-149, BR-150, BR-151, BR-152, BR-153, BR-154, BR-155, BR-156, BR-157, BR-158, BR-159, BR-160, BR-161, BR-162, BR-163, BR-164, BR-165, BR-166, BR-167, BR-168, BR-169, BR-170, BR-171, BR-172, BR-173, BR-174, BR-175, BR-176, BR-177, BR-178, BR-179, BR-180, BR-181, BR-182, BR-183, BR-184, BR-185, BR-186, BR-187, BR-188, BR-189, BR-190, BR-191, BR-192, BR-193, BR-194, BR-195, BR-196, BR-197, BR-198, BR-199, BR-200.

A F F I D A V I T

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 owned 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.

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, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, 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.

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. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: _____

Authorized Signature: _____ Date: _____