



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
05110139

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
BUYER 33
304-558-2402

PURCHASER

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

SHIP TO

DIVISION OF HIGHWAYS
JOBSITE
SEE SPECIFICATIONS

DATE PRINTED 09/16/2010	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **10/13/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	8	SF		210-16		\$32,1432.00
	17"X36" PRESTRESSED CONCRETE BOX BEAMS/KING LEAR					
0002	7	SF		210-16		\$55,670.00
	27"X36" PRESTRESSED CONCRETE BOX BEAMS/AVON BEND					
	TO PROVIDE PRESTRESSED CONCRETE BOX BEAMS FOR THE AVON BEND BRIDGE PROJECT NO. S319-25/14-1.50 AND KING LEAR BRIDGE PROJECT NO. S319-25/14-1.50 WITH ACCESSORIES FOR THE WEST VIRGINIA DIVISION OF HIGHWAYS PER THE ATTACHED SPECIFICATIONS AND DRAWINGS.					
	EXHIBIT 10					
	REQUISITION NO.:					
	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					
	NO. 2					
	NO. 3					

RECEIVED
 20 OCT 12 P 12:38
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Robert "Burr" Stantey</i>	TELEPHONE 304-464-4441	DATE 10/8/2010
TITLE <i>Project Manager</i>	FEIN 550685425	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).



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09/16/2010				

BID OPENING DATE: **10/13/2010** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER:				33		
RFQ. NO.:				05110139		
BID OPENING DATE:				10/13/2010		
BID OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
----- 304-464-4013 -----						
CONTACT PERSON (PLEASE PRINT CLEARLY):						
----- Robert 'Burr' Stanley -----						

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'

Item No.	Quantity	Description	Unit Price	Amount
PRESTRESSED CONCRETE BOX BEAMS & ASSOCIATED HARDWARE				
AVON BEND BRIDGE, STATE PROJECT #S319-25/14-1.50				
01	2.00	Each - EXTERIOR BEAMS 27" depth x 36" width x 51'-4" overall length (49'-10" c-c bearing anchor bolt holes). With all guardrail & hardware attached.	<u>7450.⁰⁰</u>	<u>14,900.⁰⁰</u>
02	5.00	Each - INTERIOR BEAMS 27" depth x 36" width x 51'-4" overall length (49'-10" c-c bearing anchor bolt holes).	<u>7450.⁰⁰</u>	<u>37,250.⁰⁰</u>
03	14.00	Each - ELASTOMERIC BEARING PADS (1 5/8" thick x 9" x 24").	<u>100.⁰⁰</u>	<u>1,400.⁰⁰</u>
04	14.00	Each - NO. 8 DEFORMED ANCHOR BOLT (Grade 60) bar. 1" diameter x 2'-0" length.	<u>10.⁰⁰</u>	<u>140.⁰⁰</u>
05	45.00	LF - PREFORMED JOINT FILLER (1" thick x 27")	<u>12.⁰⁰</u>	<u>540.⁰⁰</u>
06	4.00	Each - POST TENSIONING BARS (1" diameter, threaded, 24' full length bars, with all plates, hex nuts and other hardware as required).	<u>360.⁰⁰</u>	<u>1,440.⁰⁰</u>
			TOTAL	<u>\$55,670.⁰⁰</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.				
ABOVE ITEMS FOR AVON BEND BRIDGE				

Item No.	Quantity	Description	Unit Price	Amount
PRESTRESSED CONCRETE BOX BEAMS & ASSOCIATED HARDWARE				
KING LEAR BRIDGE, STATE PROJECT #S319-25/14-1.50				
01	2.00	Each - EXTERIOR BEAMS 17" depth x 36" width x 31'-6" overall length (30'-0" c-c bearing anchor bolt holes). With all guardrail & hardware attached.	<u>3,674.⁰⁰</u>	<u>7,348.⁰⁰</u>
02	6.00	Each - INTERIOR BEAMS 17" depth x 36" width x 31'-6" overall length (30'-0" c-c bearing anchor bolt holes).	<u>3,674.⁰⁰</u>	<u>22,044.⁰⁰</u>
03	16.00	Each - ELASTOMERIC BEARING PADS (3/4" thick x 5" x 24").	<u>75.⁰⁰</u>	<u>1,200.⁰⁰</u>
04	16.00	Each - NO. 8 DEFORMED ANCHOR BOLT (Grade 60) bar. 1" diameter x 2'-0" length.	<u>10.⁰⁰</u>	<u>160.⁰⁰</u>
05	50.00	LF - PREFORMED JOINT FILLER (1" thick x 17")	<u>12.⁰⁰</u>	<u>600.⁰⁰</u>
06	3.00	Each - POST TENSIONING BARS (1" diameter, threaded, 27' full length bars, with all plates, hex nuts and other hardware as required).	<u>360.⁰⁰</u>	<u>1,080.⁰⁰</u>
EXTERIOR BEAMS ARE TO BE SHIPPED COMPLETE WITH ALL GUARDRAIL, INSERTS, GUARDRAIL POSTS, AND GUARDRAIL ATTACHED.			TOTAL	\$ <u>32,432.⁰⁰</u>
ALL BEAMS AND OTHER ITEMS ARE TO BE IN ACCORDANCE WITH THE ATTACHED PLANS AND SPECIFICATIONS FOR THIS PROJECT.				
ABOVE ITEMS FOR KING LEAR BRIDGE				

SPECIFICATIONS

The West Virginia Department of Transportation, Division of Highways Standard Specifications Road and Bridges, adopted 2000 as modified by the latest Supplemental Specifications shall apply to this requisition.

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>
Superstructure Plan	BR-1 & BR-1A	9/91
General Notes	BR-2A	9/93
17" Box Beam	BR-B17A & BR-B17B	9/96
27" Box Beam	BR-B27A & BR-B27B	9/96
Beam Details	BR-B100, BR-B101, & 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 using 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.

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 REQUIREMENTS

Upon receipt of a State Purchase Order the Vendor shall submit shop drawings to the District Five Bridge Engineer within twenty (20) calendar days for the Avon Bend Bridge 27" beams, and within thirty (30) calendar days for the King Lear Bridge. 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 seven (7) beam sections for Avon Bend Bridge be delivered on the same day, and all eight (8) beams for King Lear Bridge be delivered on a subsequent, but single 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 except, said liquidated damages shall apply to the months of December thru March as well as April thru November. Additionally, in the event the Vendor fails to deliver all beams for a particular bridge on a single day, a separate penalty of \$1,000.00 per day up to a maximum of \$3,000.00 per bridge shall be assessed.

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

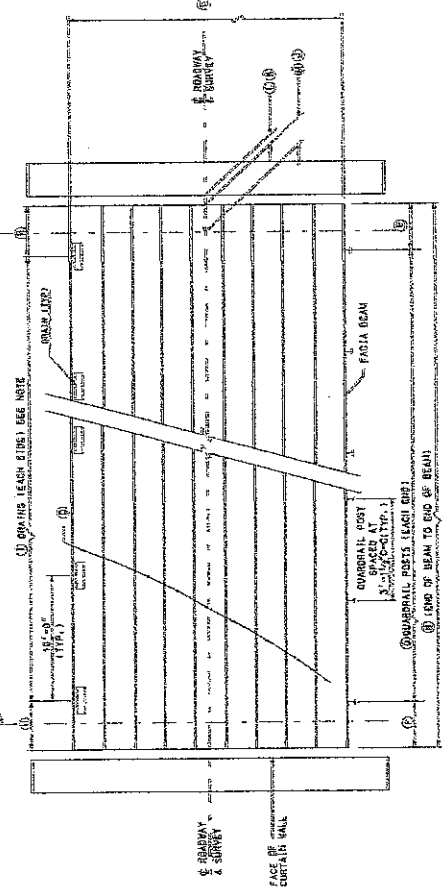
Upon completion of manufacture and approval by the Division of Highways of all Box Sections and Beams specified on an individual State Contract Order (SCO), the vendor may invoice and the Division will pay for the cost of manufacturing the Box Sections and Beams, not to exceed 65% of the total cost of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

PROJECT NUMBER	331D-26/14-1, 20	COUNTY	JEFFERSON	SHEET TOTAL	1
D.W.G.	9			OF TOTAL SHEETS	16

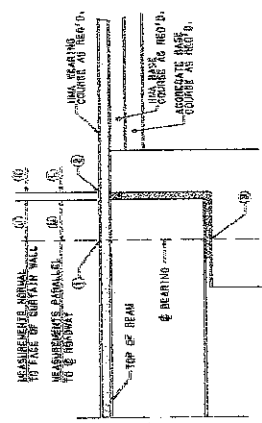
NOTES: REBAR IS REQUIRED ONLY IF CURBS ARE SPECIFIED.



SUPERSTRUCTURE LAYOUT PLAN

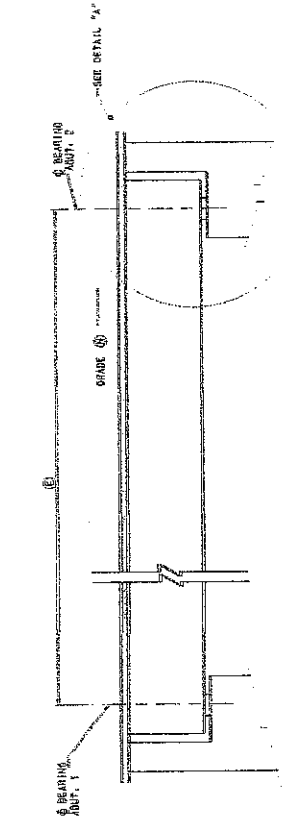
CONTROL DIMENSIONS

DIMENSION	CODE	VALUE
NORMAL CURBSIDE	A	
LENGTH OF BEAMS, OUT-TO-OUT	0	31'-5"
OVER WIDTH, OUT-TO-OUT	0	24'-0"
NUMBER OF BEAMS	B	0
SPAN LENGTH, ϕ BEARING TO ϕ BEARING	C	30'-0"
DISTANCE FROM END OF BEAM TO FIRST QUADRANT POST	F	1'-0"
NUMBER OF QUADRANT POSTS, EACH SIDE	G	10
DISTANCE FROM END OF BEAM TO ϕ OF DRAIN (IF REQUIRED)	H	N/A
NUMBER OF DRAINS, EACH SIDE (IF REQUIRED)	I	N/A
PERPENDICULAR DISTANCE FROM ϕ BEARING TO END OF EXPANSION JOINT	J	9"
PERPENDICULAR WIDTH OF EXPANSION JOINT	K	1"
WIDTH OF EXPANSION JOINTING PARALLEL TO ϕ OF ROADWAY	L	1"
DISTANCE FROM ϕ BEARING TO END OF BEAM (PARALLEL TO ϕ ROAD)	M	9"
GRADE \pm	N	0.19%



CONTROL ELEVATIONS & BEARING DIMENSIONS ALONG ϕ ROADWAY

DETAIL 'A'



SUPERSTRUCTURE ELEVATION ALONG ϕ ROADWAY

ITEM	DESCRIPTION	UNIT	QUANTITY
30'-0156	CLASS 1 AGGREGATE BASE COURSE, SLAB	CY	N/A
30'-0156	CLASS 1 AGGREGATE BASE COURSE, STORM CT	CY	N/A
40'-0116	INHA BASE COURSE, SLAB	TON	N/A
40'-0116	INHA BASE COURSE, STORM	TON	N/A
40'-0225	INHA BEARING COURSE, SLAB	TON	N/A
40'-0225	INHA BEARING COURSE, STORM	TON	N/A
40'-01	PRESTRESSED CONCRETE BEAMS	LF	232

ESTIMATE OF QUANTITIES

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

KING LEAR BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

BRIDGE NUMBER
19-25/14-1

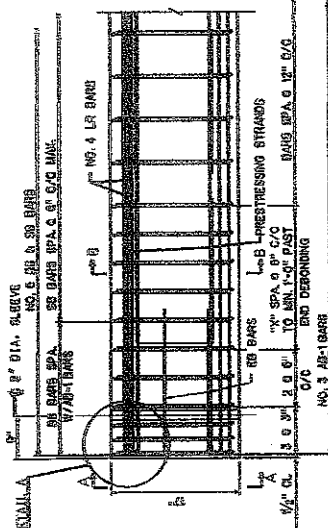
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

PROJECT NO. 331D-26/14-1, 20

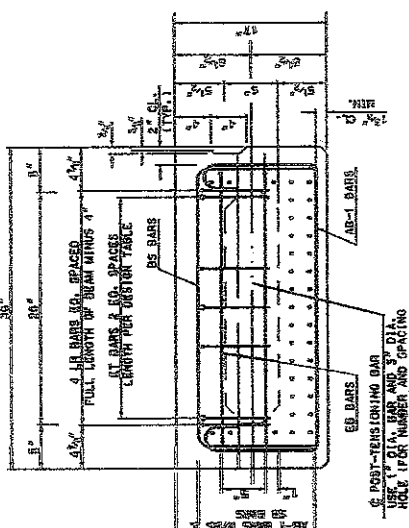
SHEET BR-1

PROJECT NUMBER	COUNTY	SHEET TOTAL
5819-29/11-1.30	JEFFERSON	NO. OF SHEETS
		NO. OF SHEETS
		NO. OF SHEETS
		NO. OF SHEETS

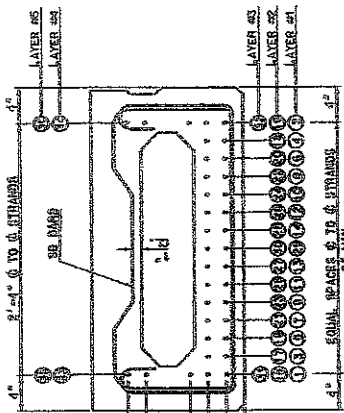
- NOTES**
- ALL NON-PRESTRESSING REINFORCING BARS SHALL BE GRADE 60.
 - ALL LAP SPICES EXCEPT THOSE SHOWN, SHALL BE AS IN TABLE ON SHEET BR-501.
 - ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED.
 - ALL STRANDS SHALL BE BLACK OIL MEDIUM GRADE.
 - THIS SHEET TO BE USED WITH STANDARD SHEET METERS 101 OR 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.
 - WHEN STRAND NO. 30 AND 30 ARE USED SEE SHEET BR-501 FOR DETAIL OF 3" DIA. ANCHOR SLEEVE.



REINFORCING STEEL ELEV. VIEW



SECTION A-A TYPICAL BEAM REINFORCEMENT



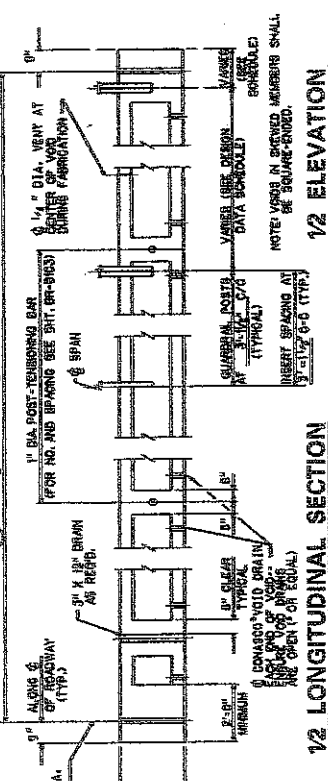
SECTION B-B TYPICAL BEAM PRESTRESSING

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

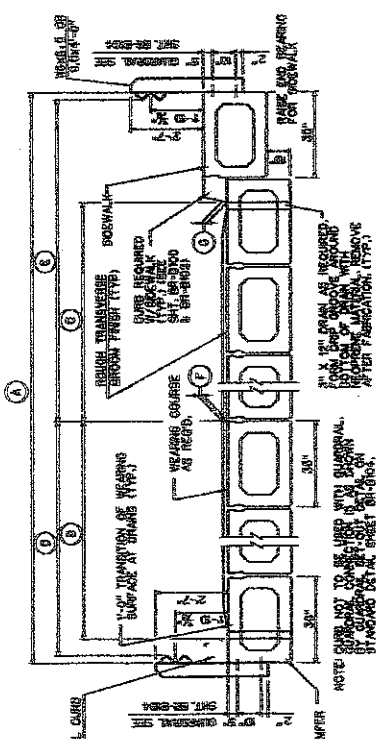
KING LEAR BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

17" PRESTRESSED BOX BEAM
DESIGN & ASSEMBLY DETAILS

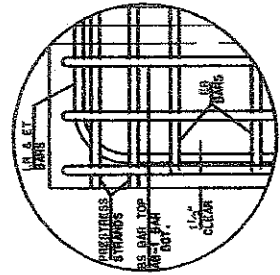
BRIDGE NUMBER
19-25/14-1



12 LONGITUDINAL SECTION



TYPICAL CROSS-SECTION (AT MID-SPAN)



DETAIL A

CONTROL DIMENSIONS

CODE	DESCRIPTION	VALUE	DESCRIPTION	VALUE
A	DECK WIDTH, OUT TO OUT	24'-0"		
B	DISTANCE FROM FACE OF CURB (NO SIDEWALK)	N/A		
C	DISTANCE FROM FACE OF CURB (WITH SIDEWALK)	N/A		
D	DISTANCE FROM FACE OF GUARDRAIL (NO SIDEWALK)	12'-0"		
E	DISTANCE FROM FACE OF GUARDRAIL (WITH SIDEWALK)	N/A		
F	THICKNESS OF BEARING COURSE AT FACE OF ROADWAY	3"	HOT-LAD BITUMINOUS CONCRETE REQUIRED (YES OR NO)	YES
G	THICKNESS OF WEARING COURSE AT FACE OF CURB	1"	QUADRANT REQUIRED (YES OR NO)	YES
H	SPAN LENGTH, & BEARING TO & BEARING	30'	DRAINS REQUIRED (YES OR NO)	NO
I	OPTIONAL PARAPET TO BE INCLUDED (YES OR NO) (REQUIRES SPECIAL DESIGN)	NO	CURTAIN WALL REQUIRED (YES OR NO)	YES
J	TOS PLATE REQUIRED (YES OR NO)	NO	GUARDRAIL SETOUT REQUIRED (YES OR NO)	YES
			GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO

CODE	DESCRIPTION	VALUE
A	DECK WIDTH, OUT TO OUT	24'-0"
B	DISTANCE FROM FACE OF CURB (NO SIDEWALK)	N/A
C	DISTANCE FROM FACE OF CURB (WITH SIDEWALK)	N/A
D	DISTANCE FROM FACE OF GUARDRAIL (NO SIDEWALK)	12'-0"
E	DISTANCE FROM FACE OF GUARDRAIL (WITH SIDEWALK)	N/A
F	THICKNESS OF BEARING COURSE AT FACE OF ROADWAY	3"
G	THICKNESS OF WEARING COURSE AT FACE OF CURB	1"
H	SPAN LENGTH, & BEARING TO & BEARING	30'
I	OPTIONAL PARAPET TO BE INCLUDED (YES OR NO) (REQUIRES SPECIAL DESIGN)	NO
J	TOS PLATE REQUIRED (YES OR NO)	NO

MIN. CONCRETE STRENGTH @ DETENSION = 4000 PSI.
 MIN. CONCRETE STRENGTH @ 28 DAYS = 5400 PSI.
 JACKING FORCE / LOW RELAX STRAND = 50,000 LBS.

DESIGN DATA FOR 17" DEPTH BOX BEAM

Span Length @ TO & Bearing	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'	42'	44'	46'
Overall Length Along & Roadway	21'-3"	23'-5"	25'-7"	27'-9"	30'-1"	32'-3"	34'-5"	36'-7"	38'-9"	41'-1"	43'-3"	45'-5"	47'-7"	49'-9"
Span Position Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Prestressing Force at Detension (KIPS/BEAM)	102	241	241	241	241	241	241	241	241	241	241	241	241	241
Final Prestressing Force (KIPS/BEAM)	163	221	222	221	221	221	221	221	221	221	221	221	221	221
Ultimate Design Moment (FT-KIPS/BEAM)	202	229	249	282	322	361	409	458	506	554	602	650	698	746
Ultimate Resisting Moment (FT-KIPS/BEAM)	209	278	278	293	348	372	420	476	530	584	638	692	746	800
Total Number of Debonded Strands														
Layer 1 - Debonded Strand Position Number and Length from Each End														
Layer 2 - Debonded Strand Position Number and Length from Each End														
End Tension Steel Each End (Size & Length)	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"	3-#4 X 8'-0"
Detension, Inches +upward (in)	0.03	0.06	0.08	0.11	0.14	0.22	0.27	0.37	0.45	0.53	0.61	0.69	0.77	0.85
Erection, Inches +upward (in)	0.08	0.12	0.11	0.13	0.18	0.32	0.39	0.55	0.63	0.71	0.79	0.87	0.95	1.03
Final, Inches +upward (in)	0.04	0.13	0.10	0.13	0.18	0.31	0.37	0.54	0.55	0.63	0.71	0.79	0.87	0.95
Weight of Typical Beam Including Diaphragm (Tons) (1)(2)	6.6	6.7	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1
Number and Spacing of Guardrail Inserts	7	8	9	9	10	10	11	12	12	13	13	14	14	15
End of Beam to End of First Insert	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
End of First Insert to End of Second Insert	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"

- NOTES:**
- BEAM WEIGHTS LISTED IN DESIGN TABLES ARE APPROXIMATE AND ARE BASED ON ZERO SKEW AND DIMPHRAGAS SPA. @ 15'-0" C-C MAX. ADDITION OF SKEW AND EXTRA DIMPHRAGAS WILL INCREASE WEIGHT.
 - FOR STANDARD CURVE, ADD 93 LBS. (0.05 TON) PER CURB PER FOOT OF BEAM.
 - CAMBER VALUES LISTED IN DESIGN TABLE 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 MUST BE VALID FOR BEAM LENGTHS THAT FALL WITHIN THE DESIGN RANGE. MANY DIFFERENCES WILL OCCUR AND MUST BE CALCULATED AND ENTER SPECIFIC DATA FOR BEAM LENGTH REQUIRED IN THIS COLUMN.
 - THIS SHEET TO BE USED WITH STANDARD SHEET NUMBERS BR-1 OR BR-1A, BR-617A, BR-610C, BR-610D, BR-610E, BR-610F, AND BR-610G.
 - MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
 - DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT CURVED BEAM ENDS MAY TWIST OR WARP. CURVED BEAM ENDS SHALL BE REINFORCED WITH STEEL. THE METHOD OF CORRECTION SHALL BE DETERMINED BY THE DIRECTOR OF STRUCTURES DIVISION. TOTAL BEARING ON THE PADS AND A LEVEL TOP 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

KING LEAR BRIDGE
 OVER
BULLSKIN RUN
 IN
JEFFERSON COUNTY

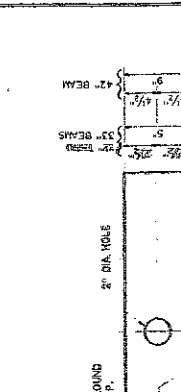
DESIGN TABLE FOR 17" PRESTRESSED BOX BEAM

STANDARD SHEET BR-610D
 19-25/14-1-13

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES
 DESIGN TABLE FOR 17" PRESTRESSED BOX BEAM

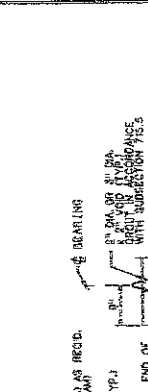
STANDARD SHEET BR-610D
 19-25/14-1-13

PROJECT NO.	6	PRINCIPAL NUMBER	6819-28/14-1-00	COUNTY	JEFFERSON	SHEET NO.	6	TOTAL SHEETS	16
DATE	9/16/59	W.V.A.	6						



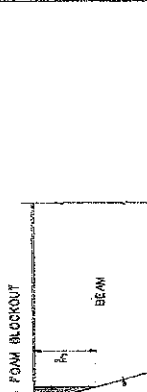
ELASTIC BEARING PAD DETAIL

NOTES: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 9, DIVISION II, WITH A DUKOMETER THICKNESS OF 40.



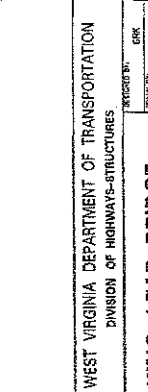
LIFTING LOOP BLOCKOUT DETAILS

NOTES: 1) ALL DIMENSIONS AS SHOWN. 2) END OF BEAM (TYP.) SHALL BE LOCATED IN A LINE TRANSVERSE TO THE CENTRELINE OF BEAM.



BLOCKOUT DETAIL

NOTES: 1) REINFORCER SHALL PROVIDE BLOCKOUT OF ALL CORNERS ON ALL BEAMS WITH BEAMS AT 10 DEGREES OR GREATER. 2) AFTER SECTION ALL INTERIOR BLOCKOUT Voids SHALL BE FILLED WITH GROUT IN ACCORDANCE WITH SUBSECTION 710.5 OF THE STANDARD SPECIFICATIONS.



SHEAR REINFORCEMENT DETAIL

NOTES: 1) MINIMUM BAR BEING NO. 4 DIAMETER. 2) IF OPTIONAL SPACING OF L.D. AND E.T. SPACES SHALL BE NO CLOSER TO THE END OF THE BEAM THAN 1/10 OF THE BEAM LENGTH. ADDITIONALLY ALL LAP SPICES SHALL BE CONTACT TYPE.

NO.	NO. 4	NO. 5	NO. 6	NO. 7
BAR NO.	NO. 4	NO. 5	NO. 6	NO. 7
GRADE	60	60	60	60
LENGTH	20"	26"	33"	45"

NO.	NO. 4	NO. 5	NO. 6	NO. 7
BAR NO.	NO. 4	NO. 5	NO. 6	NO. 7
GRADE	60	60	60	60
LENGTH	20"	26"	33"	45"

NO.	NO. 4	NO. 5	NO. 6	NO. 7
BAR NO.	NO. 4	NO. 5	NO. 6	NO. 7
GRADE	60	60	60	60
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BAR NO.	NO. 4	NO. 5	NO. 6	NO. 7
GRADE	60	60	60	60
LENGTH	20"	26"	33"	45"

NO.	NO. 4	NO. 5	NO. 6	NO. 7
BAR NO.	NO. 4	NO. 5	NO. 6	NO. 7
GRADE	60	60	60	60
LENGTH	20"	26"	33"	45"

NO.	NO. 4	NO. 5	NO. 6	NO. 7
BAR NO.	NO. 4	NO. 5	NO. 6	NO. 7
GRADE	60	60	60	60
LENGTH	20"	26"	33"	45"

NO.	NO. 4	NO. 5	NO. 6	NO. 7
BAR NO.	NO. 4	NO. 5	NO. 6	NO. 7
GRADE	60	60	60	60
LENGTH	20"	26"	33"	45"

NO.	NO. 4	NO. 5	NO. 6	NO. 7
BAR NO.	NO. 4	NO. 5	NO. 6	NO. 7
GRADE	60	60	60	60
LENGTH	20"	26"	33"	45"

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

KING LEAR BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY
PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

PROJECT NO. 6819-28/14-1-00
SHEET NO. 6 OF 16
DATE 9-16-59

DESIGNED BY: [Name]
CHECKED BY: [Name]
DRAWN BY: [Name]

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

STANDARD SHEET BR-501

REINFORCING BAR DETAIL

NOTES: 1) MINIMUM BAR BEING NO. 4 DIAMETER. 2) IF OPTIONAL SPACING OF L.D. AND E.T. SPICES SHALL BE NO CLOSER TO THE END OF THE BEAM THAN 1/10 OF THE BEAM LENGTH. ADDITIONALLY ALL LAP SPICES SHALL BE CONTACT TYPE.

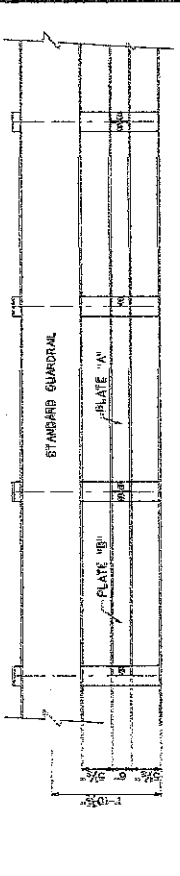
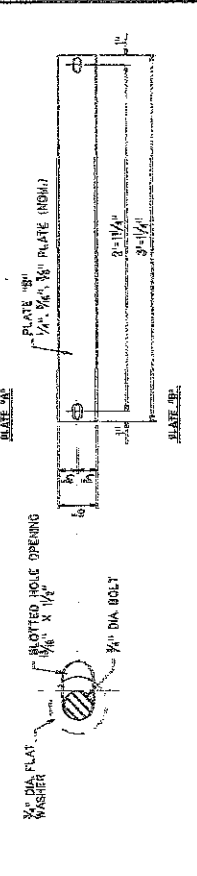
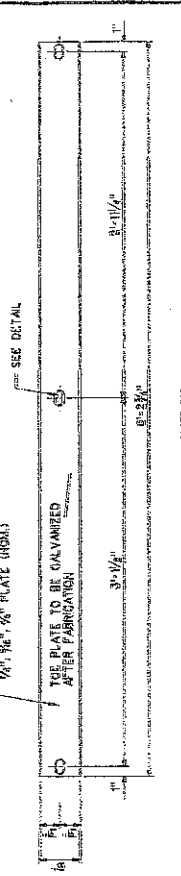
LAP SPICE TABLE

BAR NO.	NO. 4	NO. 5	NO. 6	NO. 7
GRADE	60	60	60	60
LENGTH	20"	26"	33"	45"

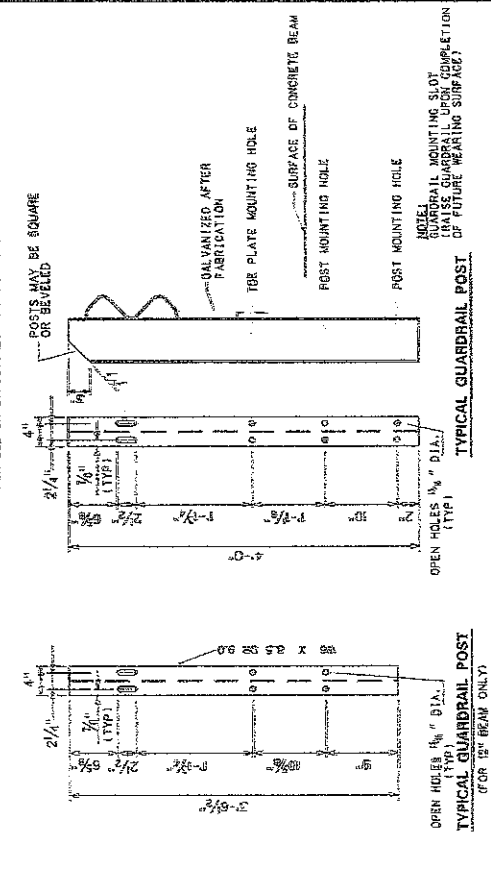
LENGTH PER DESIGN TABLE

BEAM NO.	NO. 4	NO. 5	NO. 6	NO. 7
27" BEAM	0-11"	1-11"	2-11"	3-11"
27" BEAM	1-11"	2-11"	3-11"	4-11"
33" BEAM	1-5"	2-5"	3-5"	4-5"
33" BEAM	2-5"	3-5"	4-5"	5-5"
42" BEAM	2-9"	3-9"	4-9"	5-9"
42" BEAM	3-9"	4-9"	5-9"	6-9"

PROJECT NUMBER	COUNTY	DATE
510-25/141-88	JEFFERSON	10-16



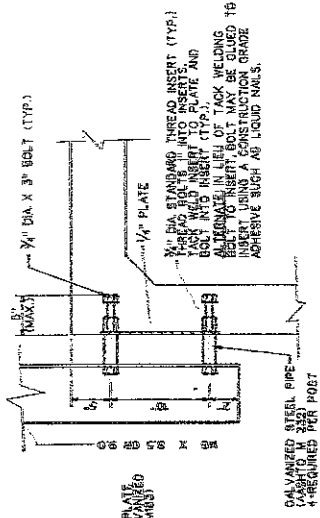
TOE PLATE DETAILS
FOR USE ON STRUCTURES WITH NO CURB



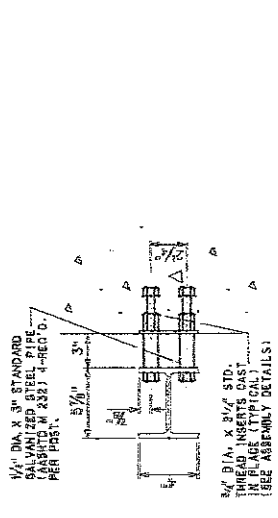
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

KING LEAR BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

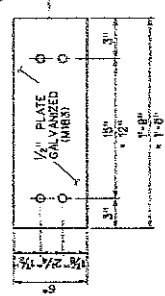
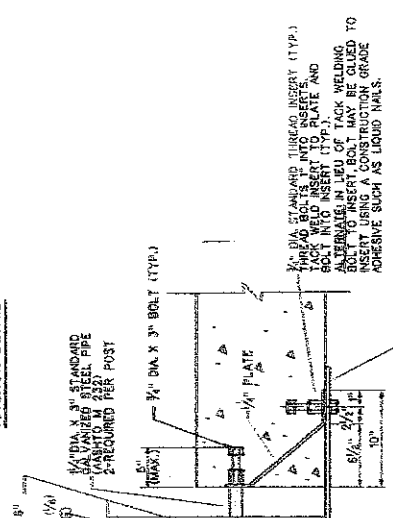
PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS



GUARDRAIL SET-OUT DETAIL



ANCHOR DETAIL



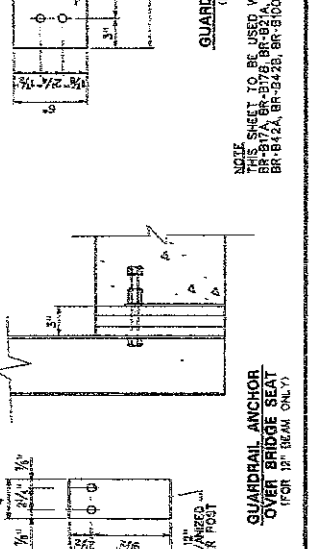
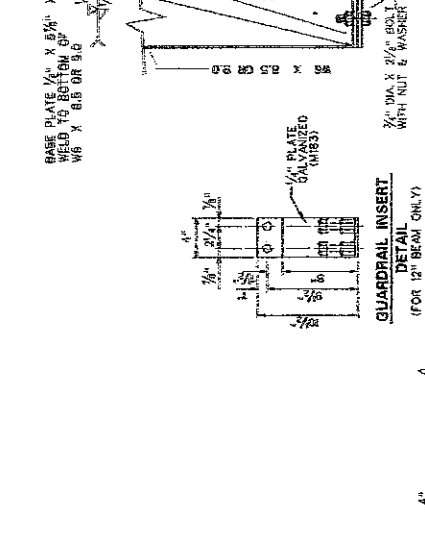
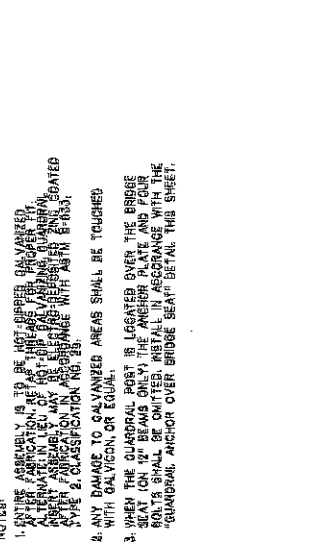
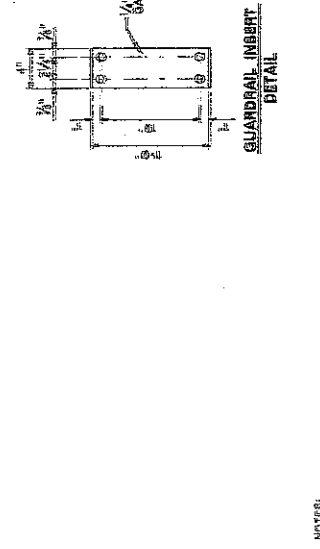
GUARDRAIL SET-OUT DETAIL
(FOR 12\"/>

* WITHOUT SET-OUT

NOTE
THIS SHEET TO BE USED WITH STANDARD SHEET BR-1 OR BR-1A, BR-S12B, BR-817A, BR-817B, BR-821A, BR-821B, BR-827A, BR-827B, BR-833A, BR-833B, BR-842A, BR-842B, BR-848, BR-850, BR-850C, AND BR-853 AS APPLICABLE.

GUARDRAIL ANCHOR OVER BRIDGE SEAT
(FOR 12\"/>

1\"/>



- NOTES:
1. THE ASSEMBLY IS TO BE USED WHERE GALVANIZED ALTERNATE IN LIEU OF TACK WELDING IS NOT PERMITTED. GALVANIZED ASSEMBLY MAY BE REPLACED WITH ASTM A307, SAE 2, CLASSIFICATION NO. 35.
 2. ANY DAMAGE TO GALVANIZED AREAS SHALL BE TOUCHED UP WITH GALVICON OR EQUAL.
 3. WHEN THE GUARDRAIL PART IS LOCATED OVER THE BRIDGE SEAT (OR ON BEAMS ONLY), THE ANCHOR PLATE AND BOLTS SHALL BE OMITTED. INSTALL IN ACCORDANCE WITH THE "GUARDRAIL ANCHOR OVER BRIDGE SEAT" DETAIL THIS SHEET.

DESIGNED BY	DATE
FORWARDED BY	DATE
APPROVED BY	DATE
CHECKED BY	DATE
SCALE	AS SHOWN
PROJECT NO.	510-25/141-88
SHEET NO.	10
TOTAL SHEETS	16

PROJECT NUMBER	8510-20(14)-1-60	SAFETY	JEFFERSON
DATE	8/10/60	NO.	9
SHEET TOTAL		16	

CONTROL ELEVATIONS	
CODE	ADJUSTMENT
19	2
2	

CONTROL ELEVATIONS
ESTABLISHED FROM

CONTROL STATIONING	
SECTION	LOCATION
1	BEARING AT
2	BEARING AT
3	BEARING AT
4	BEARING AT

DIMENSIONS	EDGE	VALUE
SHEED CROSSING	A	10'-0"
LENGTH OF BEAM, OUT-TO-OUT	B	51'-4"
BEAM WIDTH, OUT-TO-OUT	D	21'-0"
NUMBER OF BEAMS	E	7
SPALL LENGTH, ϕ BEARING TO ϕ BEARING	F	6'-10"
DISTANCE FROM END OF BEAM TO ϕ BEARING	H	N/A
NUMBER OF DIAPHRAGMS, EACH SIDE	I	N/A
SPALL LENGTH, ϕ BEARING TO END OF BEAM	J	8'-0"
DISTANCE FROM END OF BEAM TO FIRST DIAPHRAGM POST	K	1'-9"
NUMBER OF DIAPHRAGM POSTS	L	16
DISTANCE FROM ϕ BEARING TO END OF BEAM (PARALLEL TO ϕ ROAD)	M	9'-0"
TOTAL WIDTH OF EXPANSION CREATING PARALLEL TO ϕ ROADWAY	N	1'-0"
PREPARED COLLAR HEIGHT OF EXPANSION CREATING	P	1'-0"
GRADE	Q	+0.21X

ITEM	DESCRIPTION	UNIT	QUANTITY
10000-011	PRECASTED CONCRETE BEAM	LF	269.31
10000-001	IMA BEARING COURSE	TON	1001

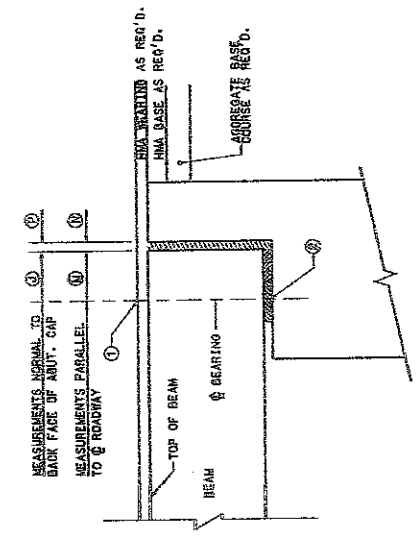
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

DESIGNED BY: GRK
DRAWN BY: [blank]
CHECKED BY: [blank]
DATE: 8-10-60
JOB NO. [blank]
SHEET NO. 9 OF 16

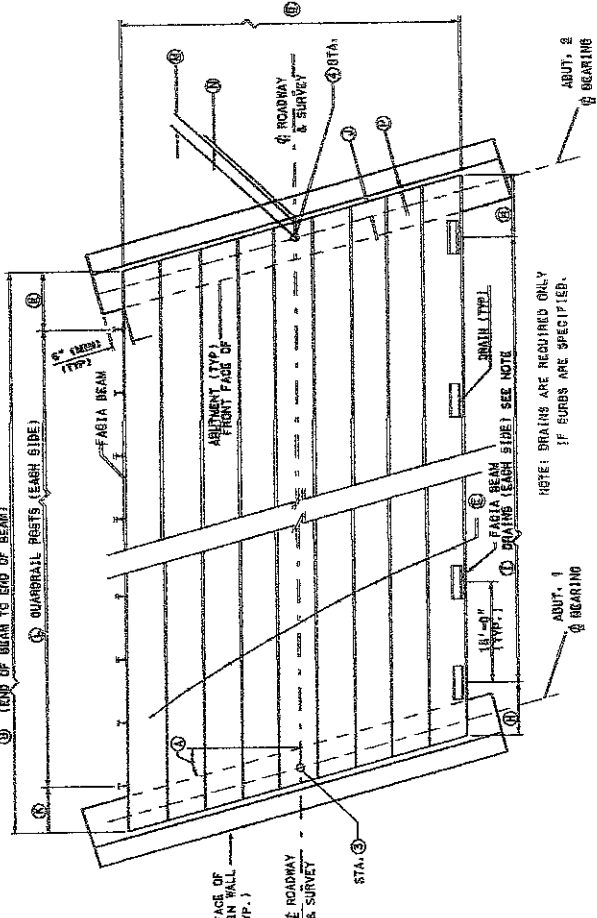
AVON BEND BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

BRIDGE NUMBER: 8
BRIDGE TYPE: 1-1
BRIDGE DESS: 00

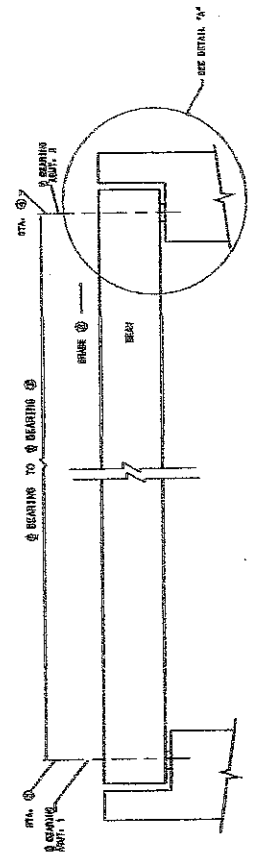
IF BEARING SURFACE IS NOT SHOWN, ELEVATIONS SHALL BE TAKEN AT THE TOP SURFACE OF THE BEAM.



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



SUPERSTRUCTURE LAYOUT PLAN



SUPERSTRUCTURE ELEVATION ALONG ϕ ROADWAY

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - STRUCTURES

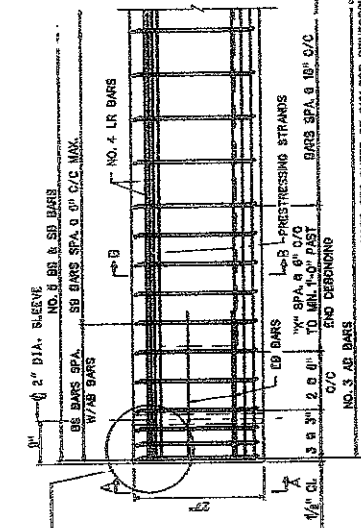
DESIGNED BY: GRK
DRAWN BY: [blank]
CHECKED BY: [blank]
DATE: 8-10-60
JOB NO. [blank]
SHEET NO. 9 OF 16

AVON BEND BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

BRIDGE NUMBER: 8
BRIDGE TYPE: 1-1
BRIDGE DESS: 00

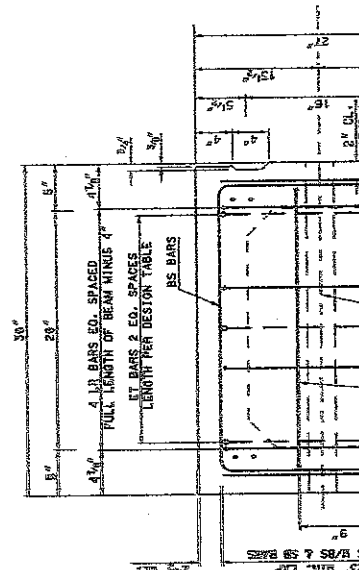
SHEET NO.	PROJECT NUMBER	COUNTY	SHEET TOTAL
11	6319-08/14-1.00	JEFFERSON	11

- NOTES:
- ALL NON-PRESTRESSING REINFORCING BARS SHALL BE GRADE 60.
 - ALL LAP SPLOCE LENGTHS, EXCEPT WHERE SHOWN, SHALL BE AS IN TABLE ON SHEET BR-501.
 - ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED.
 - ALL STRANDS SHALL BE ENCLOSED INSIDE STRIPUP CASE ENTIRE LENGTH OF BEAM.
 - THIS SHEET TO BE USED WITH STANDARD SHEET NUMBERS BR-501, BR-502, BR-503, BR-504, BR-505, BR-506, BR-507, BR-508, BR-509, BR-510, BR-511, BR-512, BR-513, BR-514, BR-515, BR-516, BR-517, BR-518, BR-519, BR-520, BR-521, BR-522, BR-523, BR-524, BR-525, BR-526, BR-527, BR-528, BR-529, BR-530, BR-531, BR-532, BR-533, BR-534, BR-535, BR-536, BR-537, BR-538, BR-539, BR-540, BR-541, BR-542, BR-543, BR-544, BR-545, BR-546, BR-547, BR-548, BR-549, BR-550, BR-551, BR-552, BR-553, BR-554, BR-555, BR-556, BR-557, BR-558, BR-559, BR-560, BR-561, BR-562, BR-563, BR-564, BR-565, BR-566, BR-567, BR-568, BR-569, BR-570, BR-571, BR-572, BR-573, BR-574, BR-575, BR-576, BR-577, BR-578, BR-579, BR-580, BR-581, BR-582, BR-583, BR-584, BR-585, BR-586, BR-587, BR-588, BR-589, BR-590, BR-591, BR-592, BR-593, BR-594, BR-595, BR-596, BR-597, BR-598, BR-599, BR-600, BR-601, BR-602, BR-603, BR-604, BR-605, BR-606, BR-607, BR-608, BR-609, BR-610, BR-611, BR-612, BR-613, BR-614, BR-615, BR-616, BR-617, BR-618, BR-619, BR-620, BR-621, BR-622, BR-623, BR-624, BR-625, BR-626, BR-627, BR-628, BR-629, BR-630, BR-631, BR-632, BR-633, BR-634, BR-635, BR-636, BR-637, BR-638, BR-639, BR-640, BR-641, BR-642, BR-643, BR-644, BR-645, BR-646, BR-647, BR-648, BR-649, BR-650, BR-651, BR-652, BR-653, BR-654, BR-655, BR-656, BR-657, BR-658, BR-659, BR-660, BR-661, BR-662, BR-663, BR-664, BR-665, BR-666, BR-667, BR-668, BR-669, BR-670, BR-671, BR-672, BR-673, BR-674, BR-675, BR-676, BR-677, BR-678, BR-679, BR-680, BR-681, BR-682, BR-683, BR-684, BR-685, BR-686, BR-687, BR-688, BR-689, BR-690, BR-691, BR-692, BR-693, BR-694, BR-695, BR-696, BR-697, BR-698, BR-699, BR-700, BR-701, BR-702, BR-703, BR-704, BR-705, BR-706, BR-707, BR-708, BR-709, BR-710, BR-711, BR-712, BR-713, BR-714, BR-715, BR-716, BR-717, BR-718, BR-719, BR-720, BR-721, BR-722, BR-723, BR-724, BR-725, BR-726, BR-727, BR-728, BR-729, BR-730, BR-731, BR-732, BR-733, BR-734, BR-735, BR-736, BR-737, BR-738, BR-739, BR-740, BR-741, BR-742, BR-743, BR-744, BR-745, BR-746, BR-747, BR-748, BR-749, BR-750, BR-751, BR-752, BR-753, BR-754, BR-755, BR-756, BR-757, BR-758, BR-759, BR-760, BR-761, BR-762, BR-763, BR-764, BR-765, BR-766, BR-767, BR-768, BR-769, BR-770, BR-771, BR-772, BR-773, BR-774, BR-775, BR-776, BR-777, BR-778, BR-779, BR-780, BR-781, BR-782, BR-783, BR-784, BR-785, BR-786, BR-787, BR-788, BR-789, BR-790, BR-791, BR-792, BR-793, BR-794, BR-795, BR-796, BR-797, BR-798, BR-799, BR-800, BR-801, BR-802, BR-803, BR-804, BR-805, BR-806, BR-807, BR-808, BR-809, BR-810, BR-811, BR-812, BR-813, BR-814, BR-815, BR-816, BR-817, BR-818, BR-819, BR-820, BR-821, BR-822, BR-823, BR-824, BR-825, BR-826, BR-827, BR-828, BR-829, BR-830, BR-831, BR-832, BR-833, BR-834, BR-835, BR-836, BR-837, BR-838, BR-839, BR-840, BR-841, BR-842, BR-843, BR-844, BR-845, BR-846, BR-847, BR-848, BR-849, BR-850, BR-851, BR-852, BR-853, BR-854, BR-855, BR-856, BR-857, BR-858, BR-859, BR-860, BR-861, BR-862, BR-863, BR-864, BR-865, BR-866, BR-867, BR-868, BR-869, BR-870, BR-871, BR-872, BR-873, BR-874, BR-875, BR-876, BR-877, BR-878, BR-879, BR-880, BR-881, BR-882, BR-883, BR-884, BR-885, BR-886, BR-887, BR-888, BR-889, BR-890, BR-891, BR-892, BR-893, BR-894, BR-895, BR-896, BR-897, BR-898, BR-899, BR-900, BR-901, BR-902, BR-903, BR-904, BR-905, BR-906, BR-907, BR-908, BR-909, BR-910, BR-911, BR-912, BR-913, BR-914, BR-915, BR-916, BR-917, BR-918, BR-919, BR-920, BR-921, BR-922, BR-923, BR-924, BR-925, BR-926, BR-927, BR-928, BR-929, BR-930, BR-931, BR-932, BR-933, BR-934, BR-935, BR-936, BR-937, BR-938, BR-939, BR-940, BR-941, BR-942, BR-943, BR-944, BR-945, BR-946, BR-947, BR-948, BR-949, BR-950, BR-951, BR-952, BR-953, BR-954, BR-955, BR-956, BR-957, BR-958, BR-959, BR-960, BR-961, BR-962, BR-963, BR-964, BR-965, BR-966, BR-967, BR-968, BR-969, BR-970, BR-971, BR-972, BR-973, BR-974, BR-975, BR-976, BR-977, BR-978, BR-979, BR-980, BR-981, BR-982, BR-983, BR-984, BR-985, BR-986, BR-987, BR-988, BR-989, BR-990, BR-991, BR-992, BR-993, BR-994, BR-995, BR-996, BR-997, BR-998, BR-999, BR-1000.
 - WHEN STRAND NOS. 28 AND 30 ARE USED, SEE SHEET BR-501 FOR DETAIL OF 2" DIA. ANCHOR SLEEVE.

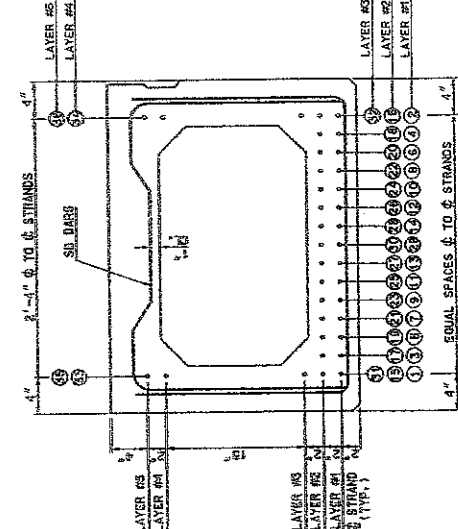


REINFORCING STEEL ELEV. VIEW

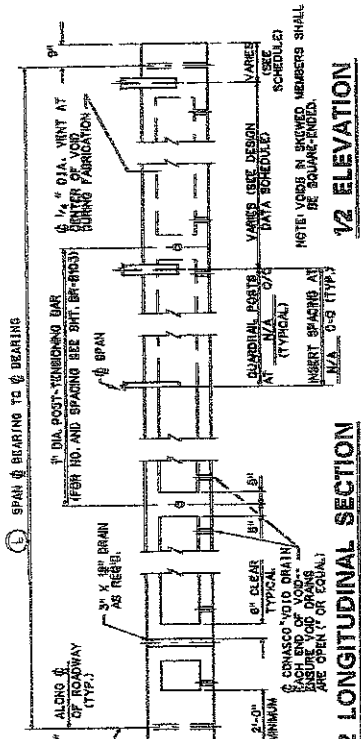
NOTE: SEE SHEET BR-501 FOR REINFORCING BAR DETAILS AND FOR REINFORCEMENT LAYOUT DETAILS FOR BRIDGE BEAM.



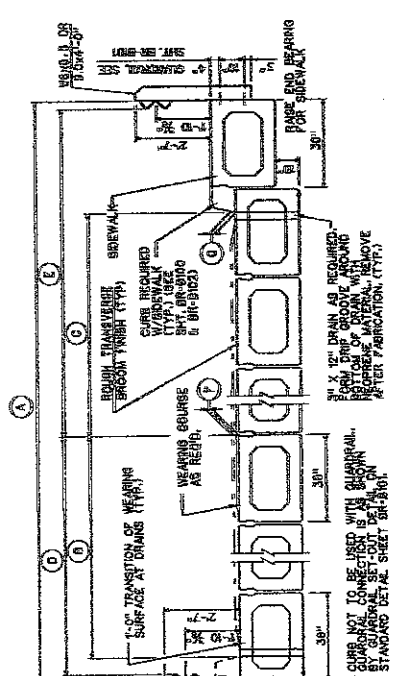
SECTION A-A TYPICAL BEAM REINFORCEMENT



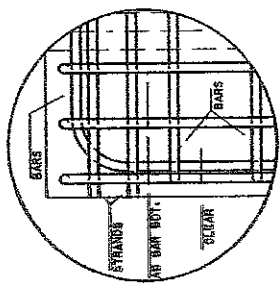
SECTION B-B TYPICAL BEAM PRESTRESSING



1/2 LONGITUDINAL SECTION



TYPICAL CROSS-SECTION (AT MID-SPAN)



DETAIL A

CONTROL DIMENSIONS

DE	DESCRIPTION	VALUE
1	DECK WIDTH, OUT TO OUT	21'-0"
2	DISTANCE FROM ROADWAY TO FACE OF CURB (AND SIDEWALK)	N/A
3	DISTANCE FROM ROADWAY TO FACE OF CURB (WITH SIDEWALK)	N/A
4	DISTANCE FROM ROADWAY TO FACE OF GUARDRAIL (AND SIDEWALK)	10'-0"
5	DISTANCE FROM ROADWAY TO FACE OF GUARDRAIL (WITH SIDEWALK)	N/A
6	THICKNESS OF WEARING COURSE AT FACE OF CURB	3"
7	THICKNESS OF WEARING COURSE AT FACE OF CURB	1"
8	SPAN LENGTH, BEARING TO BEARING	495'-10"
9	TOTAL 50' CURB TO BE INCLUDED (YES OR NO)	NO
10	TOTAL PARAPET TO BE INCLUDED (YES OR NO)	NO
11	GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO
12	E PLATE REQUIRED (YES OR NO)	NO

VALUE	DESCRIPTION	YES OR NO
YES	HOT-LAD BITUMINOUS CONCRETE REQUIRED (YES OR NO)	YES
YES	GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	YES
NO	STRANDS REQUIRED (YES OR NO)	NO
YES	CURTAIN WALL REQUIRED (YES OR NO)	YES
YES	GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	YES
NO	GUARDRAIL BLOCKOUT REQUIRED (YES OR NO)	NO

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

AVON BEND BRIDGE OVER BULLSKIN RUN IN JEFFERSON COUNTY

27" PRESTRESSED BOX BEAM DESIGN & ASSEMBLY DETAILS

DESIGNER: THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DRAWN BY: [Name]
CHECKED BY: [Name]
DATE: 9/7/00
BRIDGE NUMBER: 27

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

27" PRESTRESSED CONCRETE BOX BEAM DESIGN & ASSEMBLY DETAILS

SHEET BR-527A

PROJECT NUMBER	8119-48/14-1-08	SHEET NO.	12	TOTAL SHEETS	15
DATE	8/19/08	DESIGNER	JEFFERSON		

MIN. CONCRETE STRENGTH @ DETENSION = 4,000 PSI.
 MIN. CONCRETE STRENGTH 28 DAYS = 6,000 PSI.
 JACKING FORCE/LOW RELAX STRAND = 30,000 LBS.

DESIGN DATA FOR 27" DEPTH BOX BEAM		40'-0"	50'-0"	14	1 TPU 61 8 thru 14, 35 & 36	414	374	800	910	-	-	3'-4" 8'-11'-0"	0.30	0.52	0.30	16.5	17	1'-0"	2'-0 1/2"
SPAN LENGTH @ TO @ BEARING																			
OVERALL LENGTH ALONG @ ROADWAY																			
NO. OF GRADE 310, 1/2" DIA. LOW-RELAX. STRANDS, AREA/STRAND = 0.193 SQ. IN.																			
STRAND POSITION NUMBER																			
PRESTRESSING FORCE AT DETENSION (KIPS/BEAM)																			
FINAL PRESTRESSING FORCE (KIPS/BEAM)																			
ULTIMATE DESIGN MOMENT (FT-KIPS/BEAM)																			
ULTIMATE RESISTING MOMENT (FT-KIPS/BEAM)																			
TOTAL NUMBER OF DEBOND STRANDS																			
LAYER 1-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END																			
LAYER 2-DEBONDED STRAND POSITION NUMBER AND LENGTH FROM EACH END																			
END TRENSION STEEL EACH END (SIZE & LENGTH)																			
CAMBER (S)																			
ERECTOR, INCHES UPWARD (U)																			
FINAL, INCHES UPWARD (U)																			
HEIGHT OF TYPICAL BEAM INCLUDING DIAPHRAGM (TENS.) (11/2)																			
NO. OF INSERTS																			
NO. OF FIRST INSERT TO EACH END																			
NO. OF SECOND INSERT TO EACH END																			
NUMBER AND SPACING OF GUARDRAIL INSERTS																			

- NOTES:**
- BEAM WEIGHTS LISTED IN DESIGN TABLES ARE APPROXIMATE AND ARE BASED ON ZERO SKEW AND 10% DIAPHRAGM. ADD 93 LBS. (0.06 TONS) PER CURB PER FOOT OF BEAM.
 - FOR STANDARD CURB, ADD 93 LBS. (0.06 TONS) PER CURB PER FOOT OF BEAM.
 - CONCRETE SHALL BE CAST AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL BE COMPACTED BY THE CONTRACTOR.
 - DATA LISTED IN THE DESIGN TABLE MAY NOT BE VALID FOR BEAM LENGTHS THAT CALL FOR MORE THAN 100 FEET OF BEAM LENGTH. THE CONTRACTOR SHALL CALL AND ENTER BEAM LENGTHS OF MORE THAN 100 FEET IN THE COMMENTS COLUMN.
 - BR-S27A, BR-S27B, AND BR-S27C ARE STANDARD SHEET NUMBERS BR-1 OR BR-1A, BR-S27A, BR-S27B, BR-S27C.
 - MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
 - DESIGNER, FABRICATOR AND ERECTOR SHALL BE AWARE THAT SKEWED BEAM ENDS MAY TWIST OR WARP, CAUSING UNEVEN BEAM SEATING AT THE BEARINGS. CONTRACTOR IS REQUIRED TO CORRECT ANY SUCH TWIST OR WARP BEFORE BEAM ENDS ARE SEATED IN PLACE. THE CONTRACTOR SHALL BE AWARE THAT THE TOTAL BEAM LENGTH OF STRUCTURED DIVISION SHALL BE A PRE-APPROVED METHOD OF STRUCTURED 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

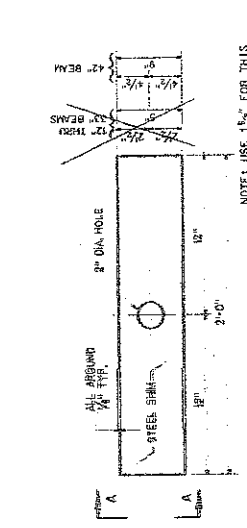
AVON BEND BRIDGE
 OVER
 BULLSKIN RUN
 IN
 JEFFERSON COUNTY

DESIGN TABLE FOR 27"
 PRESTRESSED BOX BEAM

BRIDGE NUMBER
 21

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS-STRUCTURES
 DESIGN TABLE FOR 27"
 PRESTRESSED BOX BEAM
 SHEET BR-S27B

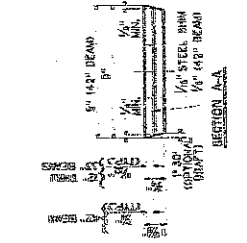
PROJECT NO.	5	DATE	10-22-11-1-50
COUNTY	JEFFERSON	SHEET NO.	14
PROJECT NUMBER		TOTAL SHEETS	15



ELASTOMERIC BEARING PAD DETAIL

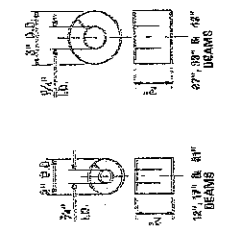
NOTES: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.

NOTE: USE 1/2" FOR THIS BEAM JOB.



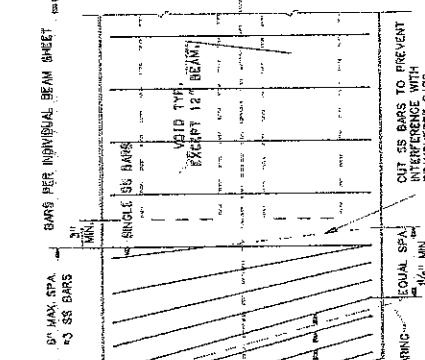
STEEL BEAM DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



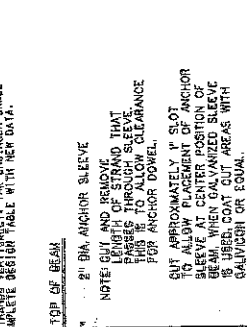
LIFTING LOOP BLOCKOUT DETAILS

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



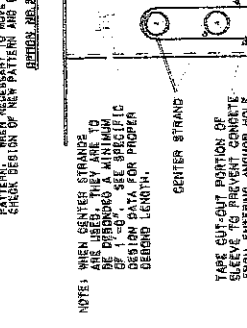
SHEAR REINFORCEMENT DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



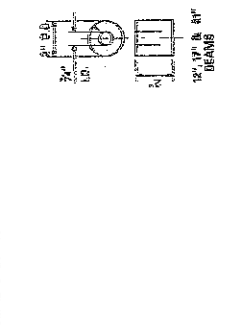
ANCHOR SLEEVE DETAILS

USE WHEN CENTER STRAND IS SPECIFIED



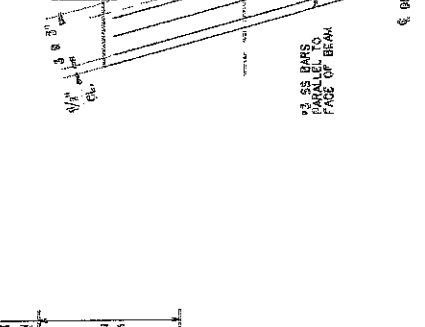
REINFORCING BAR DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



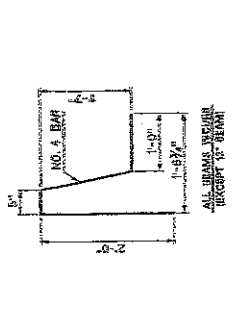
LIFTING LOOP BLOCKOUT DETAILS

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



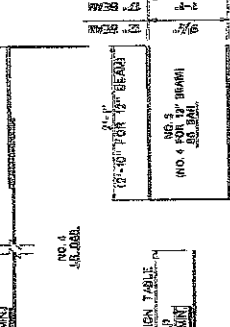
LIFTING LOOP BLOCKOUT DETAILS

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



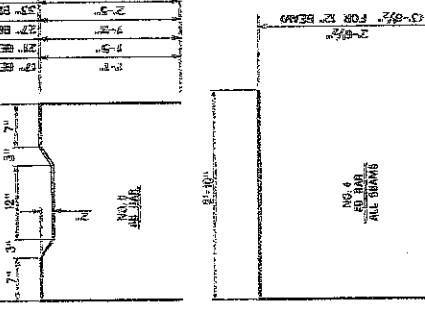
REINFORCING BAR DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



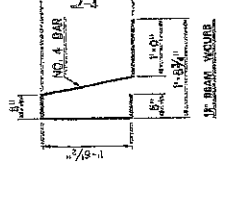
REINFORCING BAR DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



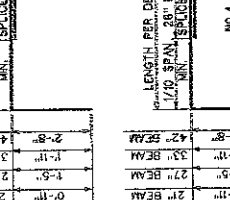
REINFORCING BAR DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



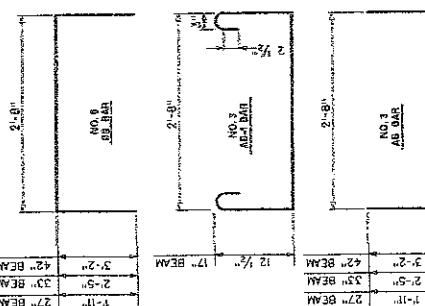
REINFORCING BAR DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



REINFORCING BAR DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.



REINFORCING BAR DETAIL

NOTE: THE BEARING PAD SHALL CONFORM TO AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 10, DIVISION II, WITH A DUROMETER HARDNESS OF 80.

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

AVON BEND BRIDGE
OVER
BULLSKIN RUN
IN
JEFFERSON COUNTY

PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

PROJECT NO. 5
DATE 10-22-11-1-50
SHEET NO. 14
TOTAL SHEETS 15

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-STRUCTURES

PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY DETAILS

STANDARD SHEET BR-B101

DATE 4-7-95
BY JAG
CHECKED BY JAG

INDEX

- MINIMUM BAR BENDING DIAMETER SHALL BE 6 BAR DIAMETERS. EXCEPT THAT NO. 3, 4, AND 5 BARS BE BENT TO A MINIMUM BENDING DIAMETER OF 4 INCHES. ALL DIMENSIONS ARE OUT TO OUT.
- IF OPTIONAL SPLICING OF LR AND ST BARS IS USED, TERMINATION OF LAP SPLICES SHALL BE NO CLOSURE OF THE SPAN LENGTH. ADDITIONALLY ALL LAP SPLICES SHALL BE CONTACT TYPE.

NOTE: THIS SHEET TO BE USED WITH STANDARD SHEET BR-1 OR BR-1A, BR-S12A, BR-S12B, BR-B7A, BR-B7B, BR-S2A, BR-S2B, BR-S27A, BR-S27B, BR-S33A, BR-S33B, BR-S42A, BR-S42B, BR-B100, BR-S102, BR-S103, AND BR-B104 AS APPLICABLE.

LAP SPLICE TABLE

BAR NO.	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7
LENGTH	20"	26"	33"	38"	45"

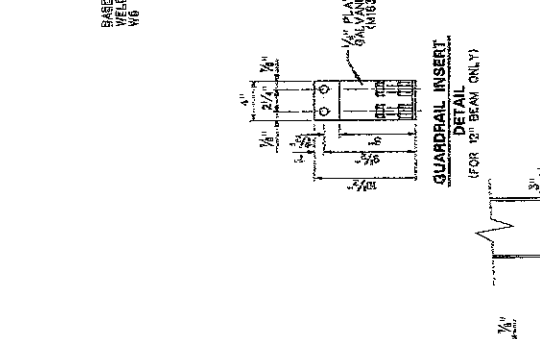
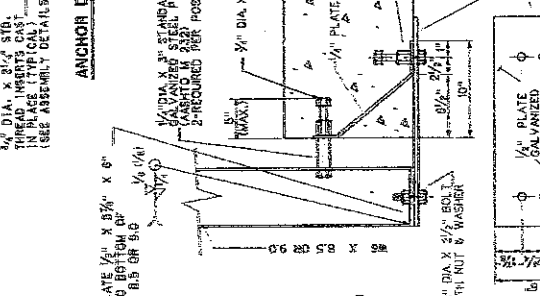
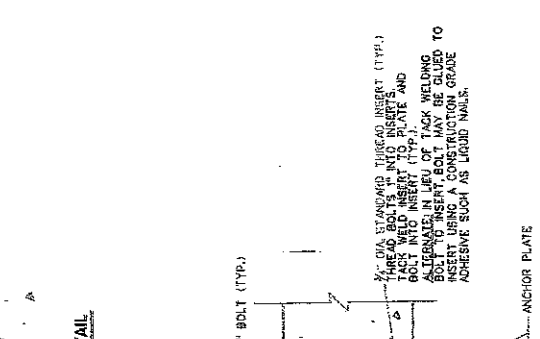
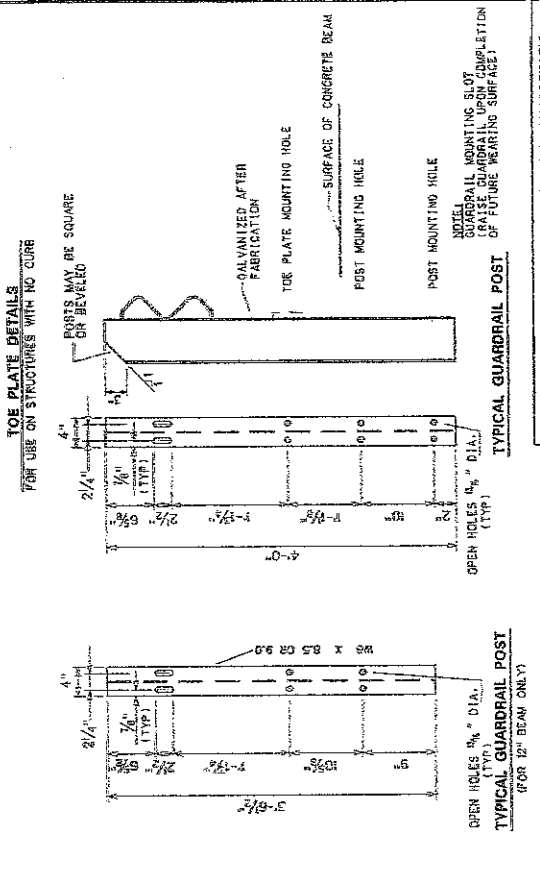
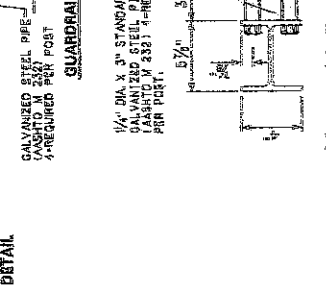
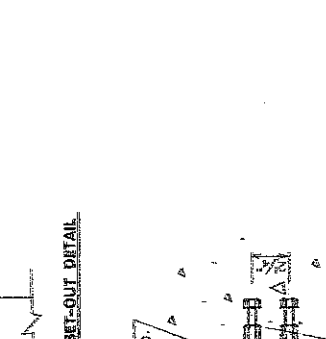
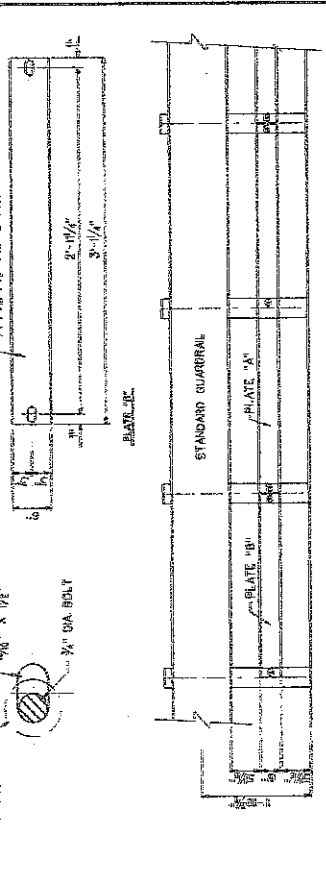
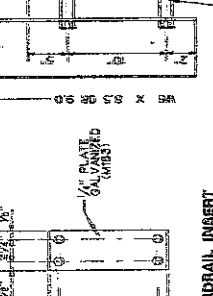
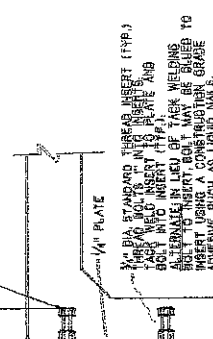
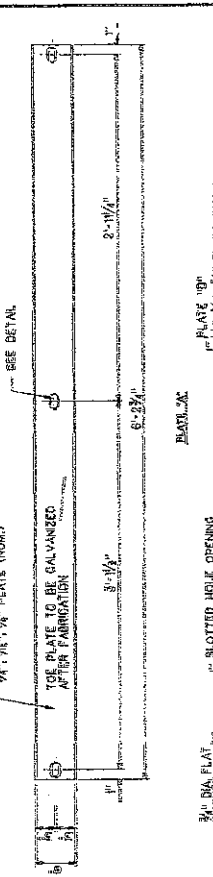
LAP SPLICE TABLE

BAR NO.	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7
LENGTH	20"	26"	33"	38"	45"

LAP SPLICE TABLE

BAR NO.	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7
LENGTH	20"	26"	33"	38"	45"

PROJECT NUMBER	6319-25/14-1480		
COUNTY	JEFFERSON		
DATE	9	8-25/14	
REV.	10	16	



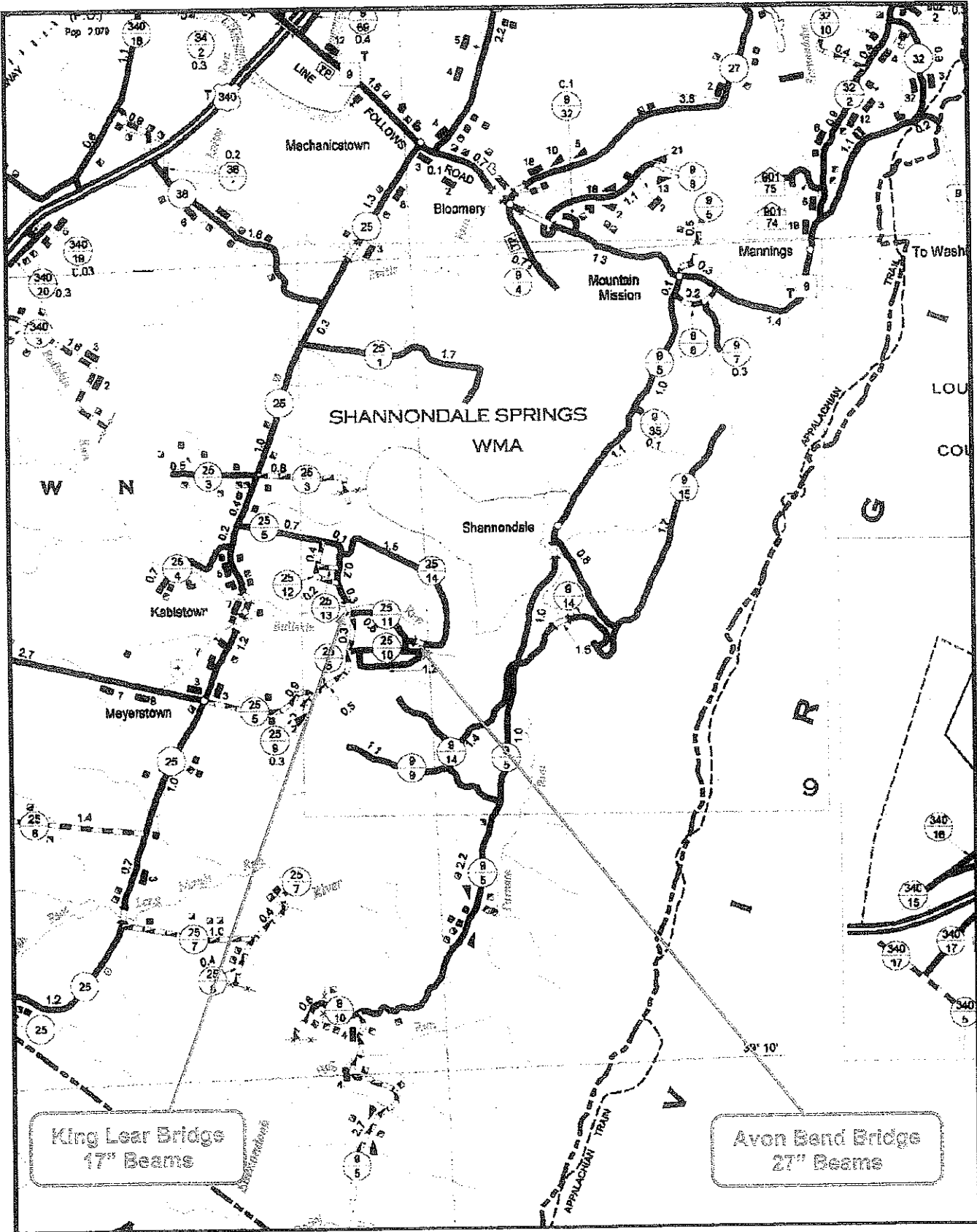
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY STRUCTURES			
PROJECT NO.	DATE	BY	CHECK
19-25/14-20	8-25-14	J.P.	M.P.
AVON BEND BRIDGE			
OVER BULLSKIN RUN			
IN JEFFERSON COUNTY			
PRESTRESSED CONCRETE BEAM DESIGN & ASSEMBLY DETAILS			
SCALE	DATE	BY	
AS SHOWN	8-25-14	J.P.	
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY STRUCTURES PRESTRESSED CONCRETE BEAM DESIGN & ASSEMBLY DETAILS STANDARD SHEET BR-1004			

DATE	12-20-08
BY	J.P.
CHECK	M.P.
DATE	8-25-14
BY	J.P.
CHECK	M.P.

- NOTE:
1. ENTIRE ASSEMBLY IS TO BE NOT PRIMED, GALVANIZED, OR ALTERNATE IN LIEU OF HOT-DIP GALVANIZED. GALVANIZED ASSEMBLY MAY BE SELECTED OR UNSOLICITED. UNSOLICITED GALVANIZED ASSEMBLY SHALL BE CLASSIFIED WITH ASTM A-663, TYPE 2 CLASSIFICATION. NO BONDING.
 2. ANY DAMAGE TO GALVANIZED AREAS SHALL BE TOUCHED UP WITH GALVONON OR EQUAL.
 3. WHEN THE GUARDRAIL POST IS LOCATED OVER THE BRIDGE SEAT, THE GUARDRAIL POST SHALL BE DOTTED, INSTALLED IN ACCORDANCE WITH THE "GUARDRAIL ANCHOR OVER BRIDGE SEAT" DETAIL. THIS SHEET.

NOTE:
THIS SHEET TO BE USED WITH STANDARD SHEET BR-1 OR BR-1A, BR-S12A, BR-S18A, BR-S18B, BR-S20A, BR-S20B, BR-S27A, BR-S27B, BR-S33A, BR-S33B, BR-S42A, BR-S42B, BR-S48, BR-S49, BR-S50C, BR-S50D, AND BR-S103 AS APPLICABLE.

AVON BEND BRIDGES
STATE PROJECT NO: S319-25/14-1.50



State of West Virginia

VENDOR PREFERENCE CERTIFICATE

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

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

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: Robert Burns Stealy
Date: 10-8-10 Title: Project Manager

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

RFQ No. 05110139

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 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 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: Carr Concrete Corp.

Authorized Signature: Robert "Burr" Stanley Date: 10/8/10

State of WV

County of Wood, to-wit:

Taken, subscribed, and sworn to before me this 8th day of October, 2010.

My Commission expires 2/8/20, 20 .

AFFIX SEAL HERE

NOTARY PUBLIC Windi Kapraun

