



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
10110514

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
BUYER 33 804-558-2402

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF HIGHWAYS
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
06/17/2011				

BID OPENING DATE: 06/29/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	SF		210-16		
CONCRETE BEAMS, CHANNELS, PRESTRESSED THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO PROVIDE 17" PRESTRESSED CONCRETE BEAMS, GUARDRAIL AND RELATED HARDWARE TO THE WEST VIRGINIA DEPARTMENT OF HIGHWAY'S JOBSITE LOCATED AT WYCO HOLLOW ARCH OVER ALLEN CREEK NEAR WYCO, WV PER THE ATTACHED SPECIFICATIONS. PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD. NOTICE A SIGNED BID MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						

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. 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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 Department of Administration
 Purchasing Division
 2019 Washington Street East
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 Charleston, WV 25305-0130

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DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
06/17/2011				

BID OPENING DATE: 06/29/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<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: PAUL REYNOLDS FILE 33</p> <p>RFQ. NO.: 10110514</p> <p>BID OPENING DATE: JUNE 29, 2011</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p>-----</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p>***** THIS IS THE END OF RFQ 10110514 ***** TOTAL: _____</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO REQ. INSERT NAME AND ADDRESS IN SPACE ABOVE LABELLED 'VENDOR'

Specifications

Purpose: To furnish all labor, materials and equipment necessary to provide 17" prestressed concrete box beams, guardrail and related hardware.

1.0 DEFINITIONS

- A. The "Agency" shall be defined as the West Virginia Division of Highways
- B. The "Vendor" shall be defined as the successful bidder.
- C. The "Purchase Order" shall be defined as the binding agreement that is entered into between the State of West Virginia and the Vendor to provide the services as herein specified.
- D. "Mandatory Requirements: The terms "must", "will", "shall", "minimum", "maximum", or "is/are required" identify a mandatory item or factor. Decisions regarding compliance with any mandatory requirements shall be at the sole discretion of the State.

2.0 SCOPE OF WORK

The successful Vendor shall provide all labor, materials and equipment necessary to provide 17" prestressed concrete box beams, guardrail and related hardware.

2.1 Technical Requirements:

Bridge Beams are to be manufactured according to the attached plan sheets 1 thru 9 of 9 entitled WYCO HOLLOW ARCH OVER ALLEN CREEK and specifications listed there in.

2.1.1 Delivery

The prestressed concrete box beams, guardrail and related hardware are to be delivered to the West Virginia Department of Transportation Bridge Number 55-12/1-1.10 which is near Wyco in Raleigh County

3.0 INVOICING

3.1 Payment

3.1 The Vendor must send an invoice to:
WV Division of Highways
270 Hardwood Lane
Princeton, WV 24740

4.0 AWARD

Purchase order will be awarded complete and not split.

Cost Sheet

Item Number	Quantity	Description	Unit Price	Amount
1	622.5 S.F.	17" PRESTRESSED CONCRETE BOX BEAM		
2	249 S.F.	17" PRESTRESSED CONCRETE BOX BEAM		
3	14 EA	SKEWED END 17" BOX BEAM		
4	16 EA	ELASTOMERIC BEARING PADS		
5	14 EA	SWEDGED ANCHOR BOLT OR #8 GALVANIZED DEFORMED REBAR		
6	14 EA	GUARDRAIL ATTACHMENT ASSEMBLY FOR BOX BEAMS		
7	98 LF	1" DIAMETER POST TENSIONING BAR WITH NUTS AND WASHERS		
8	8 EA	9" X 9" X 1" PLATES		
9	14 EA	GUARDRAIL POST		
10	8 EA	12'-6" STRAIGHT SECTIONS CLASS 1 GUARDRAIL		

TOTAL AMOUNT _____

DATE PROJECT NUMBER	DATE REV.	COUNTY	POST MILE	POST MILE	POST MILE
S355-12/1-1-10	10	WYOH/ING	7	9	

POST-TENSIONING BEAMS:

- * POST-TENSIONING THREAD BARS SHALL BE ONE INCH DIAMETER (S101) STEEL, AND SHALL CONFORM TO ASTM A270 TYPE II. STEEL THREAD BARS SHALL BE DESIGNED TO ALLOW THE USE OF HEAVY HEX NUTS AND COUPLERS THAT THREAD INTO THE END OF THE DEFORMATIONS. HEAVY HEX NUTS AND COUPLERS SHALL BE OF A DESIGN AND MATERIAL RECOMMENDED BY THE BAR MANUFACTURER TO DEVELOP THE FULL TENSILE STRENGTH OF THE BAR. PROPERLY DOCUMENTED CERTIFIED TEST REPORTS SHALL BE PROVIDED FOR EACH HEAT OF STEEL THREAD BARS.
- * ALL POST-TENSIONING THREAD BARS, NUTS, BEARING PLATES, COUPLERS, AND ANCHORAGE HARDWARE SHALL BE NOT OILED GALVANIZED IN ACCORDANCE WITH ASTM A646. THE GALVANIZING PLANT SHALL ADMINISTER ADEQUATE QUALITY CONTROL MEASURES TO SAFEGUARD AGAINST HYDROGEN BRITTLING. QUALITY CONTROL MEASURES SHALL COMPLY WITH ASTM A646. CERTIFICATION FOR HOT-DIP GALVANIZING SHALL BE PROVIDED BY THE GALVANIZING PLANT.
- * ALL POST-TENSIONING BEARING PLATES SHALL CONFORM TO ASTM A270, GRADE 35.

STEEL BEEL GROUT:

- * SHEAR KEY GROUT SHALL BE A GROUT THAT IS RECOMMENDED BY THE MANUFACTURER FOR A PORTABLE GROUT APPLICATION AND THAT BASED ON THE MANUFACTURER'S TEST DATA WILL ATTAIN A MINIMUM OF 4000 PSI COMPRESSIVE STRENGTH IN 3 DAYS UNDER CONDITIONS REPRESENTATIVE OF THE CONDITIONS TO BE EXPERIENCED AT THE SITE. THE GROUT MUST BE LISTED ON THE APPROVED LIST OF GROUTS PUBLISHED BY THE WEST VIRGINIA DIVISION OF HIGHWAYS, MATERIALS CONTROL, SOIL AND TESTING DIVISION.
- * THE CONTRACTOR SHALL PREPARE THE PROPOSED GROUT FOR COMPRESSIVE STRENGTH AT 3 AND 7 DAYS AND SUBMIT THE RESULTS TO THE BRIDGE PROJECT MANAGER FOR APPROVAL PRIOR TO INSTALLATION OF THE GROUT IN THE STRUCTURE. THE TESTS WILL BE BASED ON A PORTABLE CONSISTENCY WITH THE SAME MIXED GROUT MIXTURE AND TO BE USED IN THE STRUCTURE.
- * THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT FOR EACH PROJECT, THE GROUT PRESTRESS RESULTS OBTAINED IN THE TEST ABOVE. THE CONTRACTOR SHALL BE REQUIRED TO REPORT RESULTS OBTAINED AND SUBMISSION FOR APPROVAL UNDER ANY OF THE FOLLOWING CONDITIONS:
 - * A PERIOD OF 28 MONTHS HAS ELAPSED SINCE LAST PRE-APPROVAL TESTING.
 - * GROUT MANUFACTURER HAS REVISED OR CHANGED THE GROUT SPECIFICATIONS.
 - * THE CONTRACTOR ALTERS THE MIXED GROUT MANUFACTURE.
- * THE CONTRACTOR IS REQUIRED TO COMPLETE THE GROUT STRENGTH TABLE ON BRIDGE SHEETWORKS FOR ALL BEAMS WITH ASTM A270, AS NOTIFIED BY ASTM C902. GROUT TESTING IN ACCORDANCE WITH ASTM C902 (STANDARD CYLINDER TEST) IS NOT ACCEPTABLE.

CONCRETE BEARING PLATES:

- * EACH PRESTRESSED CONCRETE BEAM SHALL BE TREATED BY THE MANUFACTURER AT THE FABRICATOR PLANT WITH AN APPROVED CONCRETE SEALER ISOLAND. AN APPROVED LIST OF CONCRETE SEALERS ARE ON FILE AT THE WEST VIRGINIA DIVISION OF HIGHWAYS, MATERIALS CONTROL, SOIL AND TESTING DIVISION. COVERAGE SHALL INCLUDE TOP AND BOTTOM OF INTERIOR BEAMS AND TOP, BOTTOM AND EXTERIOR SIDE OF EXTERIOR BEAM. APPLICATION RATE SHALL BE FOR TREATMENT MANUFACTURER'S RECOMMENDATION.
- * AFTER COMPLETION OF THE SALINE TREATMENT OF FABRICATOR AND A MAXIMUM OF FIVE WORKING DAYS PRIOR TO SHIPMENT OF THE BEAMS, THE FABRICATOR SHALL BE RESPONSIBLE FOR ADEQUATE CLEANING TO CLEAN WHITE CONCRETE THE INTERIOR SIDES OF BEAMS FOR THE FULL LENGTH. CLEAN WHITE CONCRETE SHALL BEACH REMOVAL OF ALL DIRT, GREASE, OIL AND LOOSE CONCRETE LAYERS AND PROVIDE A ROUGHENED CONCRETE SURFACE. BLASTING MEDIA SHALL BE APPROVED BY THE DIVISION OF HIGHWAYS.

SHOP DRAWINGS:

- * THE FABRICATOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP DRAWINGS IN ACCORDANCE WITH THE WEST VIRGINIA DIVISION OF HIGHWAYS DOCUMENTS, D0502 AND THE STANDARD SPECIFICATIONS. ADDITIONAL INFORMATION IS PROVIDED IN SECTION 7 OF THE BRIDGE DESIGN MANUAL. SHOP DRAWINGS SHALL INCLUDE THE FABRICATOR'S DETERMINING PLAN.

**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION**

**WYCO HOLLOW ARCH
OVER
ALLEN CREEK**

**PRESTRESSED CONCRETE BEAM
DESIGN & ASSEMBLY NOTES**

10989

DESIGN NOTES:

- * ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, 1989 EDITION.
- * ALL WELDING OF REINFORCEMENT IS NOT PERMITTED. REINFORCING BARS AND LONGITUDINAL STEEL SHALL BE ANCHORED TIED WITH APPROVED MEANS TO PREVENT PULLING AND MISALIGNMENT.
- * ALL WELDING OF FABRICATED TUBES, AS SHOWN IN THESE PLANS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF ASTM A500, GRADE B.

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GOVERNING SPECIFICATIONS:

- * THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, ADOPTED 2000 AS AMENDED BY THE CURRENT SUPPLEMENTAL SPECIFICATIONS, THE CONTRACT PLANS AND CONTRACT SPECIAL PROVISIONS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.
- * ALL BEAMS ARE DESIGNED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, 1989 EDITION.

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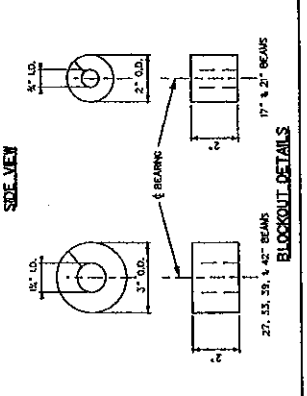
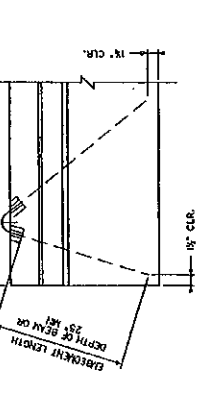
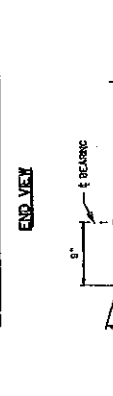
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STATE	COUNTY	SHEET	TOTAL SHEETS
WEST VIRGINIA	WYOMING	3	9
PROJECT NUMBER	DATE		
S355-12/1-1. 10	70		

1. 4 STRAND LIFTING LOOPS EXPOSED TO AIR AND WEATHER. THE BOTTOM OF THE LIFTING LOOPS SHALL BE AT LEAST 20 INCHES ABOVE THE BOTTOM OF THE SUB-SECT. THE REQUIREMENTS OF SUB-SECT. 705.3 SHALL APPLY TO THE LIFTING LOOPS.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

WYCO HOLLOW ARCH
OVER
ALLEN CREEK

DESIGNED BY TWP
DRAWN BY TWP
CHECKED BY TWP
APPROVED BY TWP
SCALE
SHEET 3 OF 9
MISC. DESIGN AND ASSEMBLY DETAILS 10989

AT FIXED END FILL 2" ANCHOR HOLE WITH PORTLAND CEMENT MORTAR MEETING THE REQUIREMENTS OF SUB-SECT. 705.3.

1. 4 ANCHOR BOLTS WITH 1/2" DIA. STEEL PIPE MEETING THE REQUIREMENTS OF SUB-SECTION 705.3. ANCHOR BOLT LENGTH SHALL BE DEPTH OF BEAM PLUS 3".

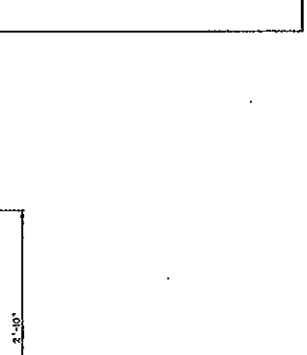
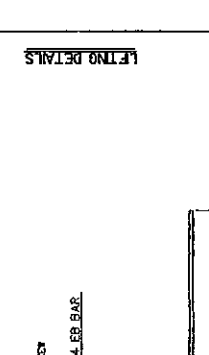
2. 4" x 2" x 1/2" LONG GALV. IN. 8 IMPROVED REBAR (OR. 8D). REBAR SHALL BE IN ACCORDANCE WITH SUB-SECT. 705.3.



SEAL JOINT WITH HOT POUR PORTLAND CEMENT MORTAR MEETING THE REQUIREMENTS OF SUB-SECTION 705.3. MIN. DEPTH OF SEAL 1 1/2".

RESTORED JOINT FILLER MEETING THE REQUIREMENTS OF SUB-SECT. 705.3. FILLER SHALL BE AT LEAST 1" DEEP AND 1" WIDE. COLOR EQUIVALENT CONTINUED FROM FULL WIDTH OF DECK PLUS 1" EXT. EACH SIDE.

CONCRETE JOINT FILLER SHALL BE FULLY COMPACTED AND SHALL MEET THE REQUIREMENTS OF SUB-SECTION 705.3. FULL WIDTH OF JOINT PLUS 1" EXT. SHALL BE BEARING PAD THICKNESS PLUS 1/4".



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM
SKEWED END REINFORCING
MEMBER AND ASSEMBLY DETAILS

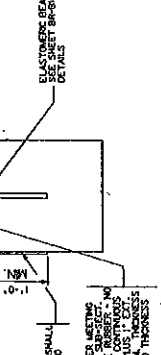
STANDARD SHEET BR-8102A

PREPARED BY TWP
DATE 10-25-07

SEAL JOINT WITH HOT POUR PORTLAND CEMENT MORTAR MEETING THE REQUIREMENTS OF SUB-SECTION 705.3. MIN. DEPTH OF SEAL 1 1/2".

RESTORED JOINT FILLER MEETING THE REQUIREMENTS OF SUB-SECT. 705.3. FILLER SHALL BE AT LEAST 1" DEEP AND 1" WIDE. COLOR EQUIVALENT CONTINUED FROM FULL WIDTH OF DECK PLUS 1" EXT. EACH SIDE.

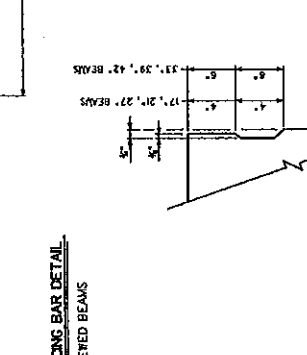
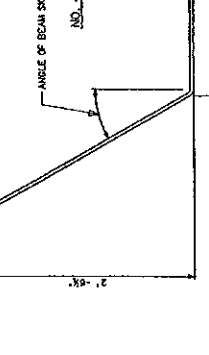
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM
SKEWED END REINFORCING
MEMBER AND ASSEMBLY DETAILS

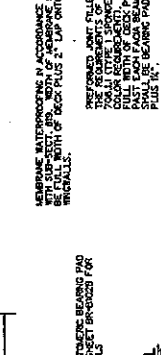
STANDARD SHEET BR-8102A

PREPARED BY TWP
DATE 10-25-07

SEAL JOINT WITH HOT POUR PORTLAND CEMENT MORTAR MEETING THE REQUIREMENTS OF SUB-SECTION 705.3. MIN. DEPTH OF SEAL 1 1/2".

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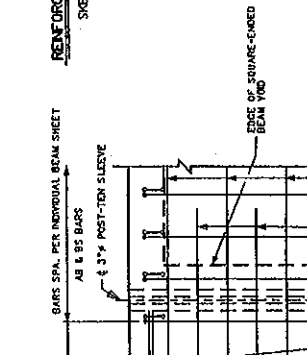
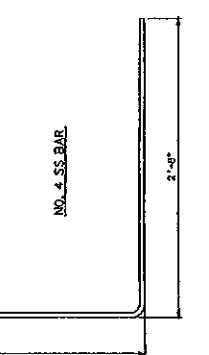
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM
SKEWED END REINFORCING
MEMBER AND ASSEMBLY DETAILS

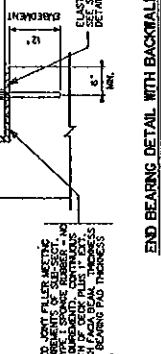
STANDARD SHEET BR-8102A

PREPARED BY TWP
DATE 10-25-07

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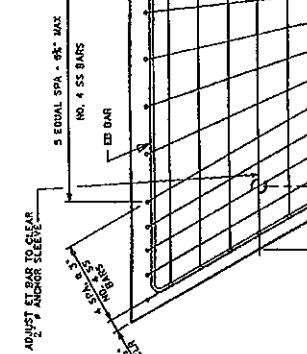
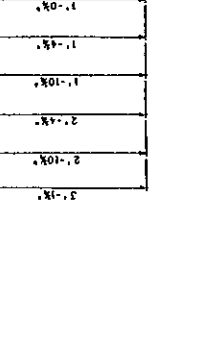
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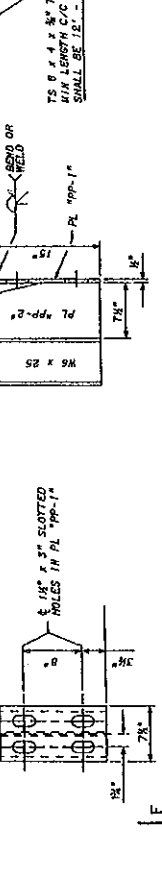
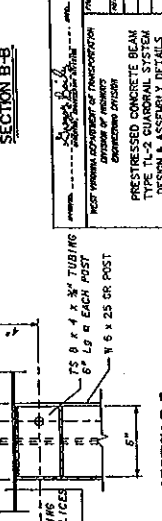
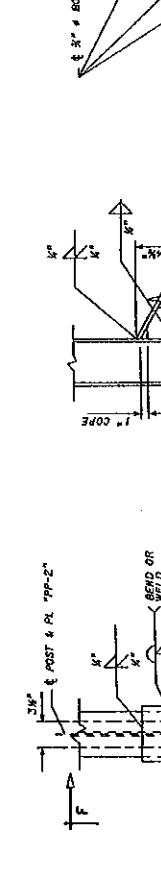
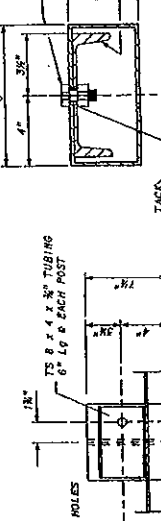
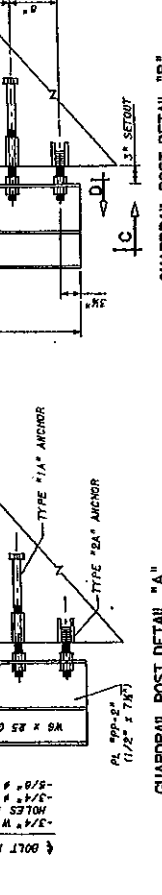
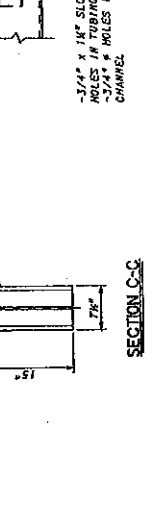
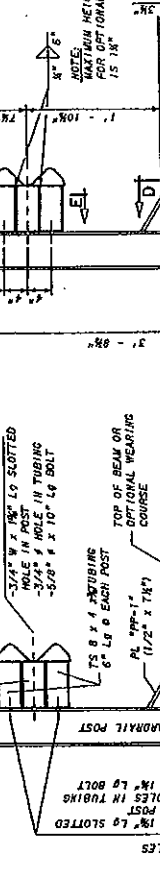
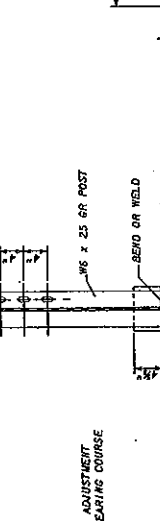
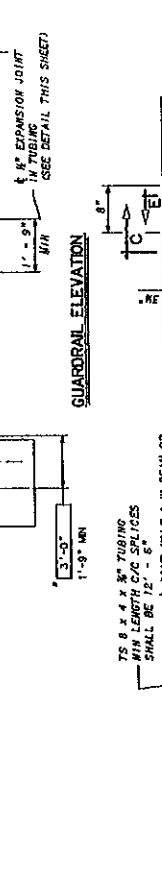
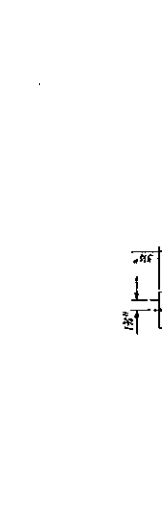
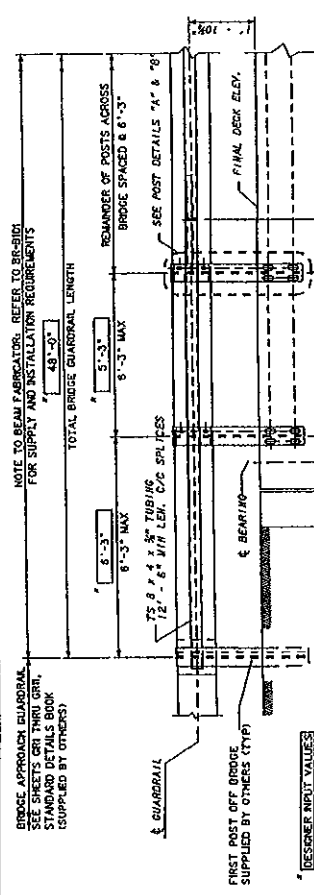
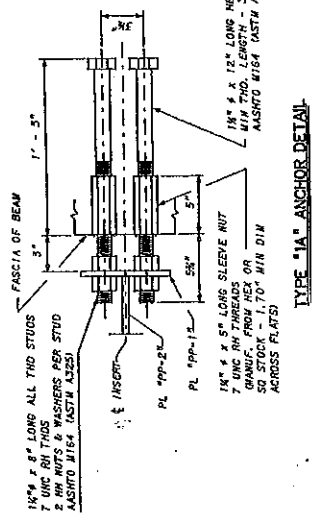
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM
SKEWED END REINFORCING
MEMBER AND ASSEMBLY DETAILS

STANDARD SHEET BR-8102A

PREPARED BY TWP
DATE 10-25-07

SCALE	PROJECT NUMBER	DATE	QUANTITY	REVISION	TOTAL
1/8" = 1'-0"	S355-12/1-1.10	10	WYOMING	6	9



NOTE TO BEAM FABRICATOR: REFER TO BR-5101 FOR SUPPLY AND INSTALLATION REQUIREMENTS.

BRIDGE APPROACH GUARDRAIL SEE SHEETS GR1 THRU GR4. STANDARD DETAILS BOOK (SUPPLIED BY OTHERS)

BRIDGE APPROACH GUARDRAIL SEE SHEETS GR1 THRU GR4. STANDARD DETAILS BOOK (SUPPLIED BY OTHERS)

BRIDGE APPROACH GUARDRAIL SEE SHEETS GR1 THRU GR4. STANDARD DETAILS BOOK (SUPPLIED BY OTHERS)

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BRIDGE APPROACH GUARDRAIL SEE SHEETS GR1 THRU GR4. STANDARD DETAILS BOOK (SUPPLIED BY OTHERS)

DESIGNER: [Name]

DESIGNER: [Name]

DESIGNER: [Name]

DESIGNER: [Name]

DESIGNER: [Name]

DESIGNER: [Name]

DESIGNER: [Name]

DESIGNER: [Name]

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DESIGNER: [Name]

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

WYCO HOLLOW ARCH
OVER
ALLEN CREEK

PRESTRESSED CONCRETE BEAM
TYPE PL-2 CONCRETE SYSTEM
DESIGN & ASSEMBLY DETAILS

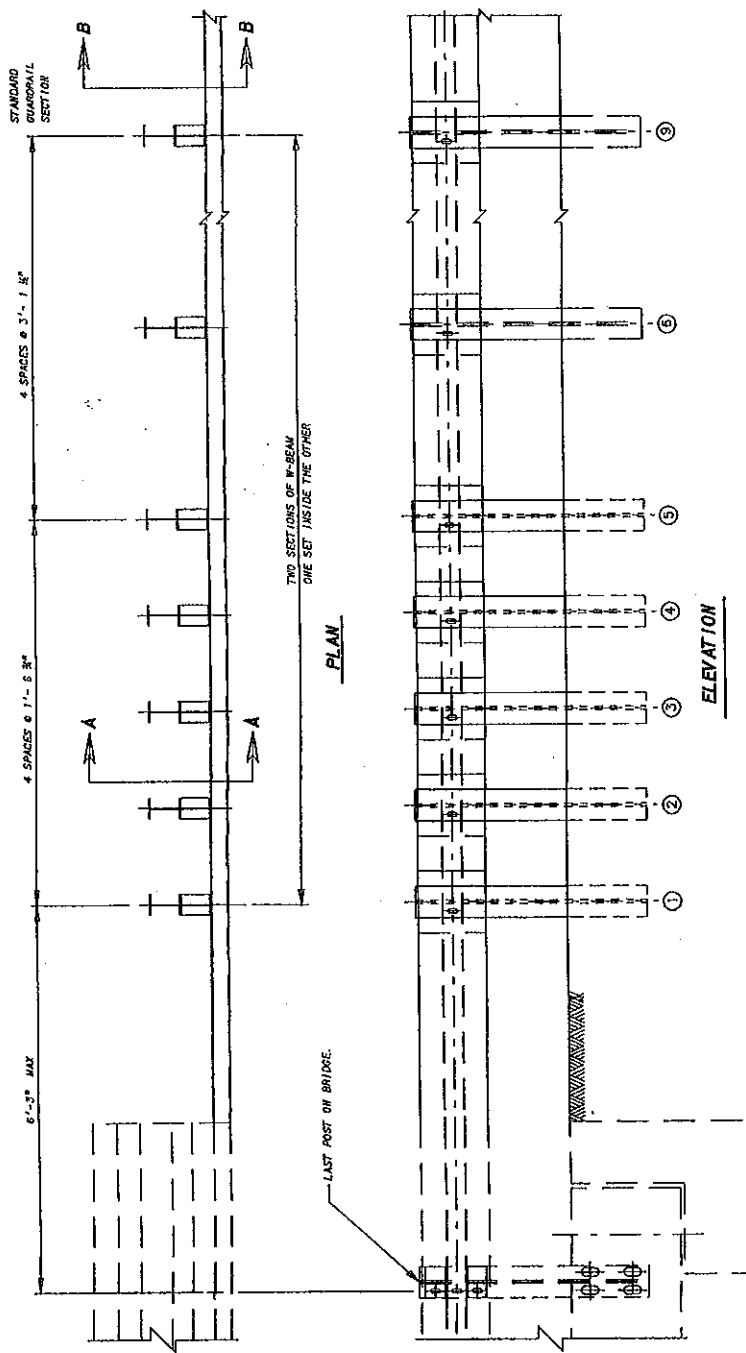
10989

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

PRESTRESSED CONCRETE BEAM
TYPE PL-2 CONCRETE SYSTEM
DESIGN & ASSEMBLY DETAILS

STANDARD SHEET BR-5104

PROJECT NUMBER:	DISTRICT:	COUNTY:	SHEET NO.:	TOTAL:
3355-12/1-1.10	10	WYOMING	7	9



NOTES

1. THIS GUARDRAIL TRANSITION IS APPROPRIATE FOR CONNECTION TO GUARDRAIL OR BRIDGE.
2. W-BEAM IS NOT BOLTED TO POSTS AT POSTS 2 THROUGH 4 AND POST 6.
3. SEE STANDARD SHEET BR-8104 FOR ANCHOR DETAILS.
4. THERE IS NO SEPARATE PAY ITEM FOR THIS CONNECTION AND ALL COMPONENTS AS DETAILED HEREIN SHALL BE INCLUDED IN THE CONTRACT PRICE FOR GUARDRAIL.

THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD SHEETS BR-8174 & B, TRUCK BR-8424 & B, BR-8100, BR-8101, BR-8102A & B, BR-8103 AND BR-8104 AS APPLICABLE.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

WYCO HOLLOW ARCH
OVER
ALLEN CREEK

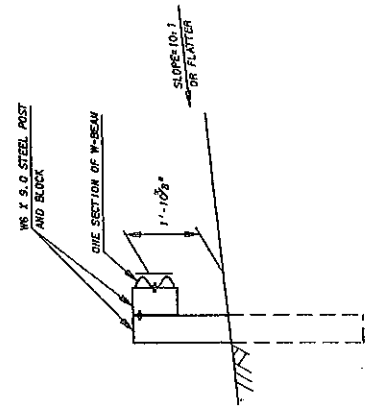
DESIGNED BY: TW
DRAWN BY: BW
CHECKED BY: TW
REVIEWED BY: TW/87
DATE:
SCALE:
SHEET 7 OF 9
PROJECT NO. 10989

APPROVED: *[Signature]*
DIRECTOR, WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

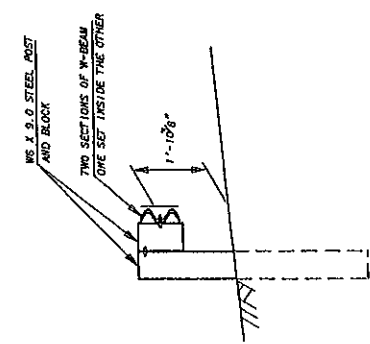
WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ENGINEERING DIVISION

DESIGNED BY: TW
DRAWN BY: BW
CHECKED BY: TW
REVIEWED BY: TW/87
DATE:
SCALE:
SHEET 7 OF 9
PROJECT NO. 10989

STANDARD SHEET BR-8106



SECTION B-B



SECTION A-A

STATE PROJECT NUMBER
 WYOMING DIVISION
 10
 COUNTY
 WYOMING
 SHEET NO.
 9
 TOTAL SHEETS
 9

MIN. CONCRETE STRENGTH @ RELEASE - 5500 PSI
 MIN. CONCRETE STRENGTH @ 28 DAYS - 8000 PSI
 INITIAL FULL STRAND - 33,820 LBS
 CROSS-SECTION AREA/STRAND - 0.187 SQ. IN.

DESIGN DATA FOR 17" DEPTH ADJACENT BOX BEAM

SPAN LENGTH & TO & BEARING	SPAN LENGTH & TO & BEARING										40'-0"		
	20'-0"	24'-0"	28'-0"	32'-0"	36'-0"	40'-0"	44'-0"	48'-0"	52'-0"	56'-0"	60'-0"	64'-0"	68'-0"
OVERALL LENGTH OF BEAM	20'-0"	24'-0"	28'-0"	32'-0"	36'-0"	40'-0"	44'-0"	48'-0"	52'-0"	56'-0"	60'-0"	64'-0"	68'-0"
NO. OF BARS, #4 & LOWER MAIN TOP STRANDS, AREA/STRAND - CON. SQ. IN.	6	6	6	6	6	6	6	6	6	6	6	6	6
STANDARD POSITION NUMBER	ROW 1	ROW 2	ROW 3	ROW 4	ROW 5	ROW 6	ROW 7	ROW 8	ROW 9	ROW 10	ROW 11	ROW 12	ROW 13
PRESSING FORCE IMMEDIATELY AFTER STRAND RELEASE PER SUPPLIER	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000
EFFECTIVE PRESSING FORCE AFTER ALL LOSSES, PER SUPPLIER	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
REQUIRED FACTORED MOMENT & STRENGTH 1.4M (FT-KIPS/BEAM)	200	200	200	200	200	200	200	200	200	200	200	200	200
FACTORED EQ. MOMENT RESISTANCE IN FT-KIPS/BEAM	200	200	200	200	200	200	200	200	200	200	200	200	200
TOTAL NO. DERIVED STRANDS	24	24	24	24	24	24	24	24	24	24	24	24	24
DERIVED STRAND POSITION NUMBER & SPACING LENGTH FROM EACH END	ROW 1	ROW 2	ROW 3	ROW 4	ROW 5	ROW 6	ROW 7	ROW 8	ROW 9	ROW 10	ROW 11	ROW 12	ROW 13
NUMBER & LENGTH #4 AT TOP TENSION BARS & EACH END	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4	2-#4
NUMBER & LENGTH #5 BT BOTTOM TENSION BARS & EACH END	2-#5	2-#5	2-#5	2-#5	2-#5	2-#5	2-#5	2-#5	2-#5	2-#5	2-#5	2-#5	2-#5
DESIGN CAMBER (IN POSITIVE DIR)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NO. OF INSERTS REQD.	0	0	0	0	0	0	0	0	0	0	0	0	0
END OF BEAM TO END OF FIRST INSERT	0	0	0	0	0	0	0	0	0	0	0	0	0
END OF LAST INSERT	0	0	0	0	0	0	0	0	0	0	0	0	0
END OF 1st INSERT	0	0	0	0	0	0	0	0	0	0	0	0	0
END OF 2nd INSERT	0	0	0	0	0	0	0	0	0	0	0	0	0
WEIGHT OF TYPICAL BEAM INCLUDING DIAPHRAGM (TONS)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 ENGINEERING DIVISION

WYCO HOLLOW ARCH
 OVER
 ALLEN CREEK

DESIGN TABLE FOR 17"
 PRESTRESSED BOX BEAM

10-25-07
 10989

NOTES:

- DESIGNED FABRICATOR AND ERECTOR SHALL BE AWARE THAT SKINNED END BEAMS ARE TRUST AS BARS CAUSING UNIFORM BEAM SEATING AT THE BEARINGS. THE CONTRACTOR IS REQUIRED TO CORRECT AT THE TIME OF ERECTION, BEFORE THE BEAMS ARE SECURED IN PLACE. BEHIND OF CORRECTION SHALL PROVIDE AN EVEN, TOTAL BEARING AND A LEVEL TOP BEAM SURFACE. TOLERANCE AFTER CORRECTION SHALL BE 1/4" & INCH. THE FABRICATOR SHALL NOTIFY THE CONTRACTOR AND DESIGNER IF CORRECTIONS ARE REQUIRED PRIOR TO SHIPMENT.
- MAXIMUM BEAM SKEW SHALL BE 30 DEGREES.
- DESIGNER W/RT VALUES OF NUMBER OF INSERTS, DISTANCE FROM END OF BEAM TO & FIRST INSERT, AND & FIRST INSERT TO & SECOND INSERT. ABOVE VALUES SHALL BE BASED ON THE REMOVED 6"-3" GUMPHAL POST SPACING ACROSS THE BRIDGE.
- SPECIAL STRAND NOTE FOR #4 BOX SECTION ONLY: WHEN T1-2 GUMPHAL INSERTS ARE REQUIRED BEHIND THE BEARINGS TO MAINTAIN THE CONTRACTOR'S TOLERANCE, THE CONTRACTOR SHALL USE THE SAME STRAND PATTERN.
- THIS SHEET SHALL BE USED IN CONJUNCTION WITH STANDARD DESIGN TABLE, BRIDGE, OVERHEAD, OVERHEAD, BRIDGE & C. SPECIAL DESIGN, BRIDGE & C AND BRIDGE AS APPLICABLE.

FOR LONGER ENBLOCK AND SEE LIST/END.

DESIGNER SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON 48" HIGH, 18" DEPTH AND DIAPHRAGM SPACING @ 15 FT. C/C. REVISIONS FOR SKINNED BEAMS, LONGER ENBLOCKS AND ADDITIONAL DIAPHRAGMS SHOULD BE ADJUSTED ACCORDINGLY.

FOR ADDITIONAL DIAPHRAGMS, AND SEE LIST/DIAPHRAGM.

FOR ROW AND P. LOCATIONS OF SKEW/END.

DESIGNER SHOULD NOTE THAT DATA IN STANDARD TABLE IS BASED ON 48" HIGH, 18" DEPTH AND DIAPHRAGM SPACING @ 15 FT. C/C. REVISIONS FOR SKINNED BEAMS, LONGER ENBLOCKS AND ADDITIONAL DIAPHRAGMS SHOULD BE ADJUSTED ACCORDINGLY.

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FOR ADDITIONAL DIAPHRAGMS, AND SEE LIST/DIAPHRAGM.

FOR ROW AND P. LOCATIONS OF SKEW/END.

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: _____

Signed: _____

Date: _____

Title: _____

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

RFQ No. _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: _____

Authorized Signature: _____ Date: _____

State of _____

County of _____, to-wit:

Taken, subscribed, and sworn to before me this ___ day of _____, 20__.

My Commission expires _____, 20__.

AFFIX SEAL HERE

NOTARY PUBLIC _____